**SKRIPTA IZ PROGRAMIRANJA**

**ZA UČENIKE TREĆEG RAZREDA ELEKTROTEHNIČKIH ŠKOLA**

**SADRŽAJ**

[1. Objektni jezik i C jezik, šta je isto, a šta različito 1](#_Toc540243)

[1.1. C# programski jezik 1](#_Toc540244)

[1.2. Radno okruženje (konzolna aplikacija) 2](#_Toc540245)

[1.3. Osnove jezika C# 6](#_Toc540246)

[1.3.1. Tipovi podataka 6](#_Toc540247)

[1.3.2. Razlika između vrednosnih i referentnih tipova 6](#_Toc540248)

[1.3.3. Promenljive i konstante 9](#_Toc540249)

[1.3.4. Operatori 10](#_Toc540250)

[1.3.5. Naredbe 12](#_Toc540251)

[2. Osnovni koncept objektno orijentisanog programiranja 22](#_Toc540252)

[2.1. Klasa i objekat 23](#_Toc540253)

[2.1.1. Klasa. Sastavni elementi klase 23](#_Toc540254)

[2.1.2. Objekat 25](#_Toc540255)

[2.2. Modifikatori pristupa 26](#_Toc540256)

[2.3. Enkapsulacija 27](#_Toc540257)

[2.4. Nasleđivanje 29](#_Toc540258)

[2.4.1. Izvedena klasa 29](#_Toc540259)

[2.5. Polimorfizam 33](#_Toc540260)

[2.5.1. Virtual 33](#_Toc540261)

[2.5.2. Overriding 34](#_Toc540262)

[2.6. Objektni jezik C# 35](#_Toc540263)

[2.6.1. Definisanje nizovnih promenljivih i korišćenje sistemskih metoda za rad sa nizovima 36](#_Toc540264)

[2.6.2. Dvodimenzionalni i višedimenzionalni nizovi 37](#_Toc540265)

[2.6.3. Kolekcije 38](#_Toc540266)

[2.6.4. Definisanje nabrojivog i strukturnog tipa 41](#_Toc540267)

[2.6.4. Ključna reč *static* 43](#_Toc540268)

[2.6.5. Metode 44](#_Toc540269)

[3. Klase 46](#_Toc540270)

[3.1. Razlika između klase i strukture 46](#_Toc540271)

[3.2. Konstruktor i destruktor 46](#_Toc540272)

[3.2.1. Konstruktori 47](#_Toc540273)

[3.2.2. Destruktori 50](#_Toc540274)

[3.3. Ključna reč *this* 51](#_Toc540275)

[3.4. Enkapsulacija podataka 53](#_Toc540276)

[3.5. Propertiji (svojstva) 53](#_Toc540277)

[3.6. Preklapanje metode u klasi 55](#_Toc540278)

[3.7. Pojam parcijalne klase 55](#_Toc540279)

[4. Rukovanje izuzecima 56](#_Toc540280)

[4.1. Rukovanje, prijavljivanje i prihvatanje (obrada) izuzetaka 56](#_Toc540281)

[4.2. Često korišćene klase izuzetaka 59](#_Toc540282)

[5. Izvedene klase 61](#_Toc540283)

[5.1. Izvedene klase 61](#_Toc540284)

[5.2. Apstraktna klasa 61](#_Toc540285)

[5.3. Interfejsi i nasleđivanje interfejsa 63](#_Toc540286)

[6. Biblioteka komponenata 64](#_Toc540287)

[6.1. Izrada projekta – Kreiranje WinFoms aplikacije u Visual Studio 64](#_Toc540288)

[6.2. Forma – Definisanje projekta kao WinForms 65](#_Toc540289)

[6.3. Izgled radne površine 66](#_Toc540290)

[6.4. Otvaranje prozora za pisanje koda 67](#_Toc540291)

[6.5. Događaji 68](#_Toc540292)

[6.5.1. Događaji miša 69](#_Toc540293)

[6.5.2. Događaji tastature 70](#_Toc540294)

[6.6. Dodavanje novih *item*-a u projekat 70](#_Toc540295)

[6.7. *Build* i *run* aplikacije 71](#_Toc540296)

[6.8. Metode 71](#_Toc540297)

[6.9. Windows kontrole 71](#_Toc540298)

[6.9.1. Kontrola Button 72](#_Toc540299)

[6.9.2. Kontrola RadioButton 80](#_Toc540300)

[6.9.3. Kontrola CheckBox 87](#_Toc540301)

[6.9.4. Kontrola Label 95](#_Toc540302)

[6.9.5. Kontrola TextBox 101](#_Toc540303)

[6.9.6. Kontrola RichTextBox 109](#_Toc540304)

[6.9.7. Kontrola ListBox 118](#_Toc540305)

[6.9.8. Kontrola ComboBox 126](#_Toc540306)

[6.9.9. Kontrola PictureBox 133](#_Toc540307)

[6.9.10. Kontrola GroupBox 140](#_Toc540308)

[6.9.11. Kontrola Panel 146](#_Toc540309)

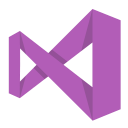
[6.9.12. Kontrola Timer 153](#_Toc540310)

[LITERATURA 155](#_Toc540311)

# 1. Objektni jezik i C jezik, šta je isto, a šta različito

Za realizaciju gotovo svih nastavnih sadržaja iz ovog predmeta koristiće se Microsoft Visual

Studio. Svi primeri su rađeni u Microsoft Visual Studio 2019. Na slici 1 možete videti ikonicu Microsoft Visual Studio 2019.



***Slika 1.*** *Ikonica Microsoft Visual Studio 2019*

## 1.1. C# programski jezik

C# je jednostavan objektnoorijentisan programski jezik opšte namene. Razvio ga je Microsoft tim, koji je vodio Andres Hejlsberg. Poslednja verzija C# je 4.5, koja je završena 15. avgusta 2012. godine. Prva verzija (C# 1.0) se pojavila 2001. godine, pa su se ubrzo pojavljivale nove verzije ovog programskog jezika. C# predstavlja naslednika C i C++ jezika, dobio je ime sharp koje je inspirisano muzičkom notacijom i znači da se napisana nota izvodi za pola koraka više. C# je naprednija verzija C++ (C++++). Fajlovi pisani u ovom jeziku imaju ekstenziju cs.

Bitno je napomenuti da C# programski jezik sintaksno nije složen (ima oko 80 rezervisanih reči), ali je vrlo izražajan u delu gde je potrebno rešiti bilo kakav problem softverskog development procesa. Podržava strukturirano, objektno orijentisano programiranje zasnovano na komponentama, u potpunosti podržava sve principe OOP i SOA, podržava interfejse nasleđivanja, strukture, delegate, komponentnoorijentisane elemente (svojstva, događaji, deklaracije).

Pored mogućnosti koje se tiču same implementacije programskih jezika, bitno je napomenuti da C# podržava i sledeće:

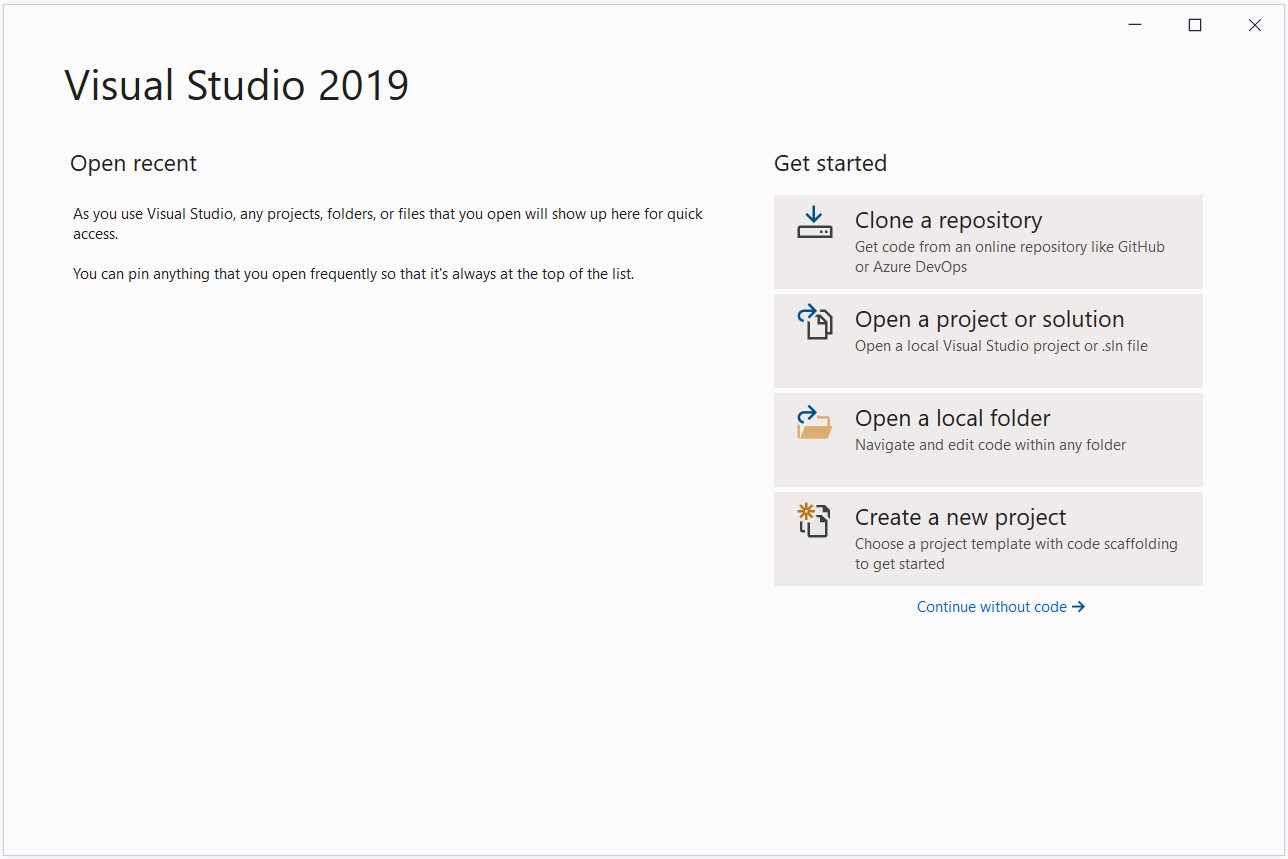
* Direktan pristup memoriji pomoću pokazivača u stilu C++ - a
* Rezervisane reči za izdvajanje nesigurnih operacija
* Upozoravanje skupljača smeća okruženja CLR da ne uništava objekte na koje pokazuju pokazivači dok se ti objekti ne oslobode, itd.

Pored svega gore navedenog, C# podržava još mnogo elemenata programiranja, ali to u ovom delu nećemo razmatrati, jer nam nije cilj pobrojavanje elemenata koje C# može da podrži nego shvatanje njegove moći.

## 1.2. Radno okruženje (konzolna aplikacija)

Po tradiciji izučavanja svih programskih jezika, prilikom realizacije prve aplikacije napisaćemo program za ispis pozdravne poruke „ZDRAVO SVETE“.

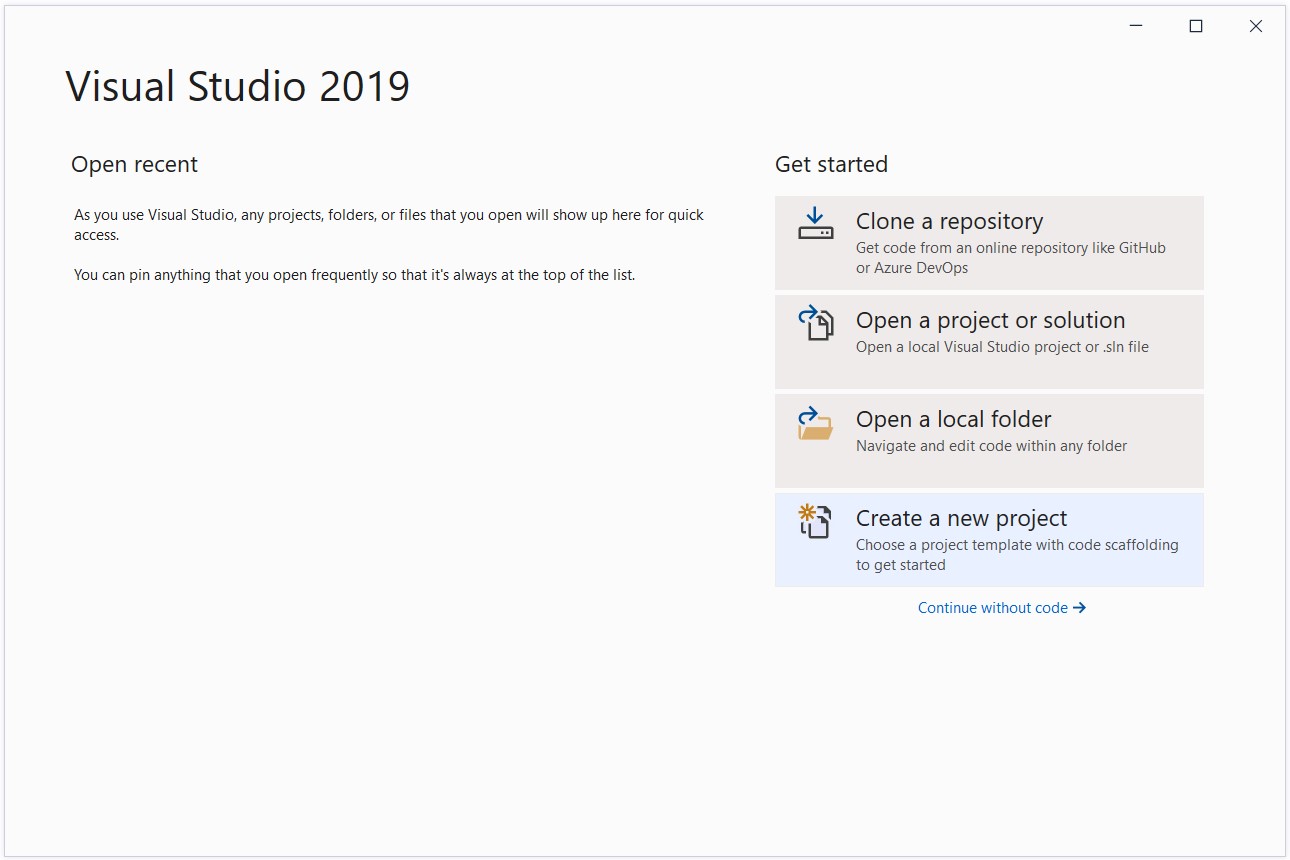
Prvo je potrebno pokrenuti Microsoft Visual Studio 2019, slika 2.



***Slika 2.*** *Izgled Microsoft Visual Studio 2019*

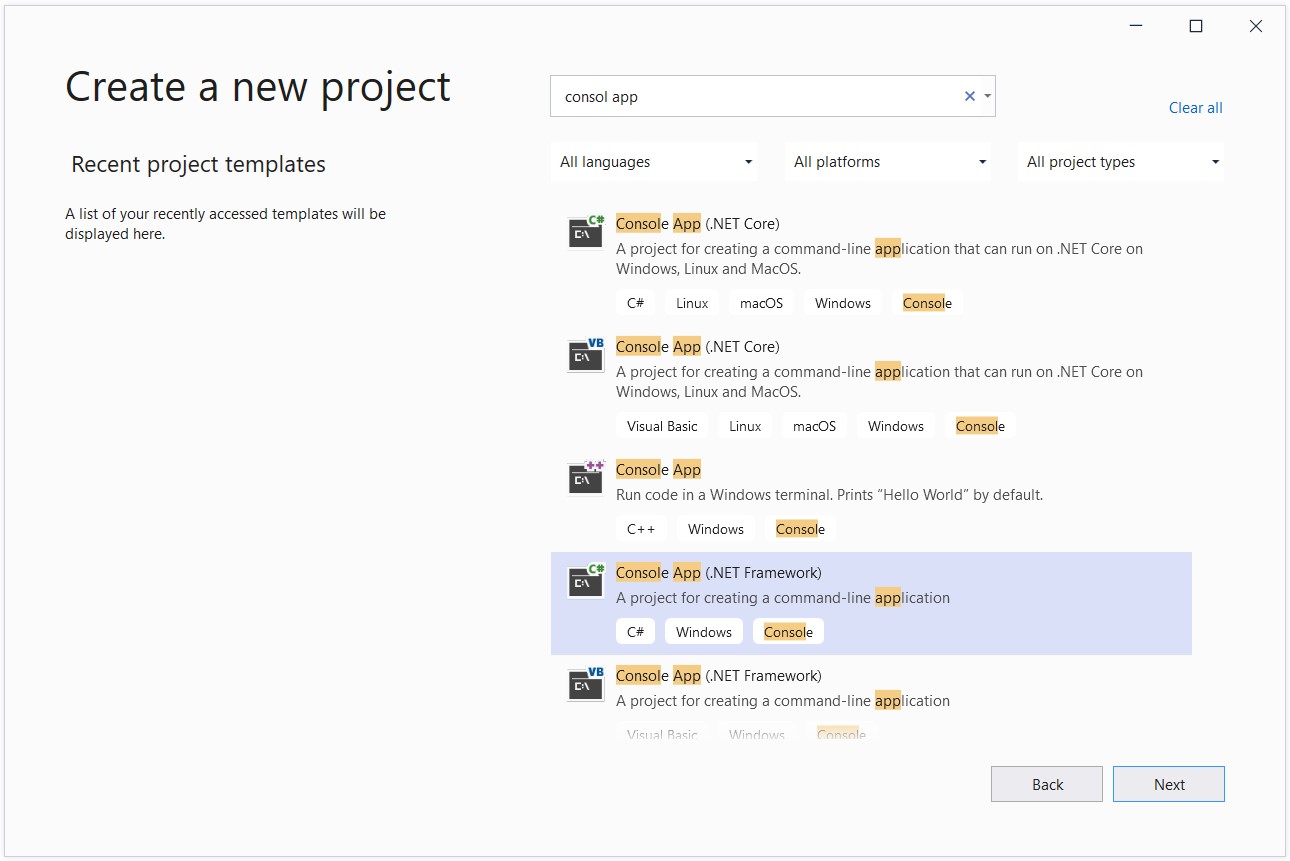
Da biste kreirali aplikaciju ZDRAVO SVETE, potrebno je da kreirate konzolnu aplikaciju. Rad sa konzolnim aplikacijama biće obrađen kasnije, ali u ovom delu će biti prikazan način kreiranja ZDRAVO SVETE aplikacije.

Postupak je sledeći: Na slici 3 je prikazana startna strana, na kojoj se mogu odabrati ponuđene mogućnosti za formiranje novog projekta izborom opcije *Create a new project*.



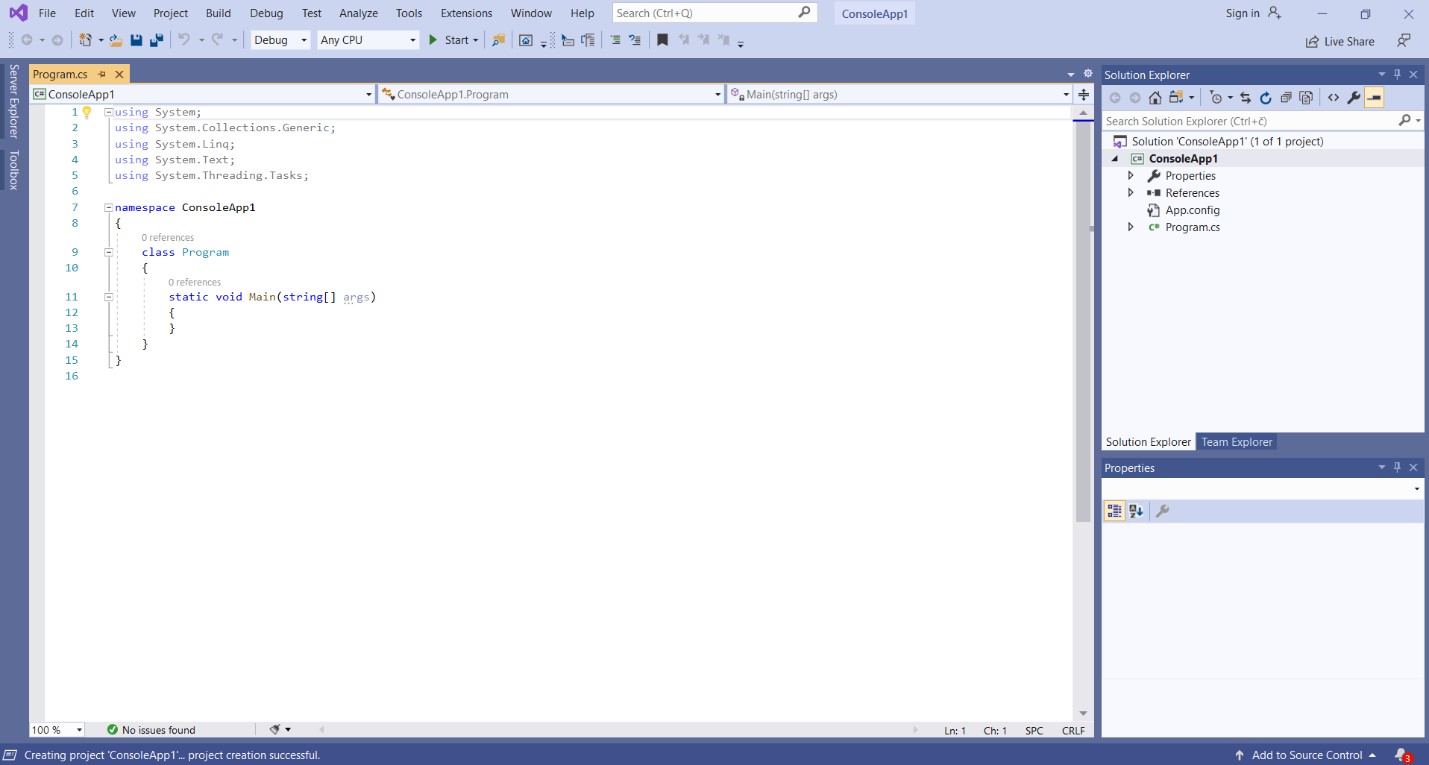
***Slika 3.*** *Kreiranje projekta*

Zatim se u okviru panela Templates izabere Console App (.NET Framework), slika 4.



***Slika 4.*** *Izbor Console App (.NET Framework)*

Nakon uspešnog kreiranja konzolne aplikacije, izgled Microsoft Visual Studio 2019 izgleda kao na slici 5.



***Slika 5.*** *Izgled konzolne aplikacije “*ConsoleApp1*”*

Nakon unosa imena, lokacije i solution-a, okruženje vam automatski kreira kod koji je dovoljan za pokretanje jedne konzolne aplikacije (listing koda vam je dat ispod).

using System;

using System.Collections.Generic; using System.Linq; using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{ class Program

{

static void Main(string[] args)

{

}

} }

Da bismo razumeli šta nam je okruženje generisalo u kodu, daćemo i kratak opis koda: *namespace –* predstavlja .NET način da se kod i njegov sadržaj jedinstveno identifikuju. Takođe se koristi za kategorizaciju elemenata u .NET Framework. Namespace je deklarisan za kod aplikacije koja se u ovom slučaju naziva ConsoleApp1.

*using System; –* predstavlja korišcenje System namespace (odnosi se na biblioteku klasa .NET Framework, čiju biblioteku koristi C#). Za veće projekte može se kreirati sopstveni namespaces.

Analogno sa ovim objašnjenjem su i objašnjenja za Collections.Generic, Linq i Text. *class Program { –* definicija klase Primer. Početak klase počinje sa otvorenom vitičastom zagradom *{*, a završava se sa zatvorenom vitičastom zagradom *}*.  *static void Main() –* počinje glavni metod, gde se izvršava program. Ovaj metod počinje sa *static*, što znači da je statički (ne može da se instancira, odnosno ne može od njega da se napravi objekat) i *void* - ne vraća vrednost.

Kako bismo napravili naš prvi program, potrebno je da uradimo malo editovanje koda i da naš program nateramo da izvrši ispis na ekran. To ćemo uraditi sledećom naredbom:

*Console.WriteLine("ZDRAVO SVET."); –* objašnjenje: WriteLine() je funkcija koji kao rezultat vraća string koji mu je prosleđen. *Console* - podržava konzolni I/O. U kombinaciji se kompajleru govori da je *WriteLine()* članica *Console* klase. Izrazi u C# se zvršavaju sa tačka sa zapetom (*;*).

Kada bismo pokrenuli naš program, verovatno bismo videli da se podigla konzola, a zatim odmah i zatvorila. Razlog ovoga je to što smo rekli da se izvrši ispis na ekran, što je računar i uradio i odmah nakon toga je nastavio dalje. Kako nema drugih instrukcija, a radi se o *main* metodi, vraća *int* vrednost (u default slučaju 0) i zatvara konzolu. Da bismo predupredili ovakvo ponašanje, potrebno je da zahtevamo da se desi neka akcija od strane korisnika. Najjednostavnije je da tražimo unos nekog karaktera. To ćemo postići na sledeći način:

*Console.ReadKey();– o*bjašnjenje: funkcija za unos nekog znaka sa tastature.

Sa ovakvim izmenama, naš kod izgleda ovako:

using System;

using System.Collections.Generic; using System.Linq; using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{ class Program

{

static void Main(string[] args)

{

Console.WriteLine("ZDRAVO SVETE.");

Console.ReadKey();

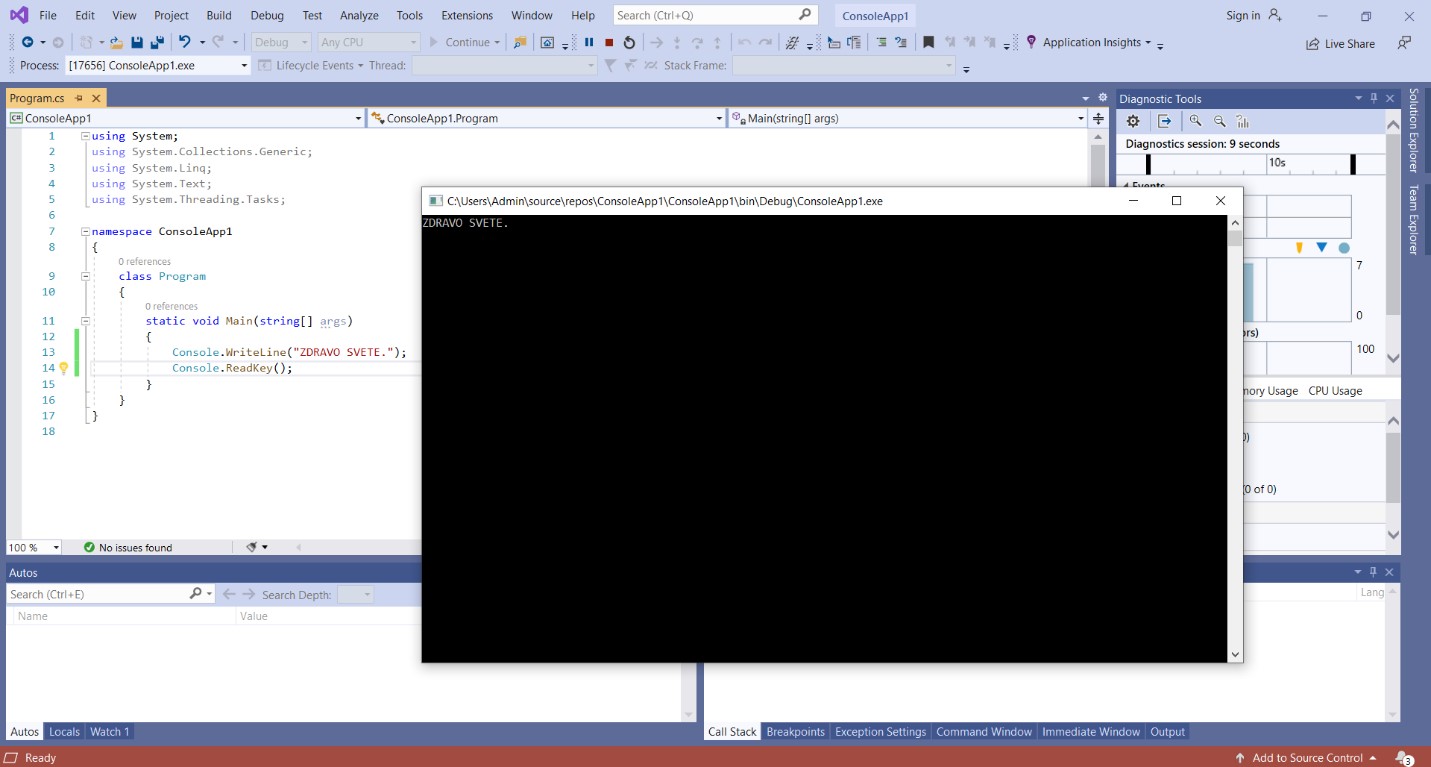
}

}

}

Da bismo realizovali u potpunosti naš program, potrebno je da ga izgradimo i kompajliramo.

Pokretanje programa je na dugme START. Na slici 6 možete videti rezultat kompajliranja.



***Slika 6.*** *Rezultat kompajliranja*

## 1.3. Osnove jezika C#

### 1.3.1. Tipovi podataka

Osnovna podela tipova je na:

* vrednosne (*value*) tipove i
* referentne (*reference*) tipove.

Vrednosni tipovi su:

* jednostavni tipovi (kao što su npr. *byte, int, long, float, double*),
* nabrojivi tipovi,
* strukture.

Referentni tipovi su:

* klase,
* interfejsi,
* nizovi,
* delegati.

Svi tipovi (uključujući jednostavne kao što je *int*) su podtipovi System.Object

### 1.3.2. Razlika između vrednosnih i referentnih tipova

Postoji nekoliko bitnih razlika u osnovnim karakteristikama između vrednosnih i referentnih tipova, i to:

1. Razlike u alokaciji memorije:
   * vrednosni tipovi se čuvaju na steku, odnosno u okviru objekta, a ako su članovi referentnih tipovana, čuvaju se na hipu,
   * referentni tipovi se čuvaju na hipu.
2. Razlike u sadržaju:
   * vrednosni tipovi sadrže podatak,
   * referentni tipovi sadrže pokazivač (referencu) na podatak.
3. Razlike u uništenju:
   * vrednosni tipovi se uništavaju odmah pošto se napusti oblast definisanosti,
   * referentni tipovi se uništavaju pomoću sakupljača đubreta.

#### **Tabela 1.** Tipovi podataka u C# programskom jeziku

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tip podatka** | **Opis** | **Veličina (bit)** | **Rang** | **Primer** |
| *int* | celi brojevi | 32 | -231 do 231-1 | int x = 25; |
| *long* | celi brojevi (veći rang) | 64 | -263 do 263-1 | long x = 25L; |
| *float* | brojevi u pokretnom zarezu | 32 | ±1.5 x 1045 do ±3.4 x 1038 | float x = 0.25F; |
| *double* | dupla preciznost brojeva u pokretnom zarezu | 64 | ±5.0 x 10-324 do ±1.7 x 10308 | double x = 0.25; |
| *decimal* | novčane vrednosti | 128 | 28 značajnih figura | decimal x = 0.25M; |
| *string* | niz karaktera | 16 bita po karakteru | nije primenljiv | string x = ''pas''; |
| *char* | jedan karakter | 16 | 0 do 216-1 | char x = 'h'; |
| *bool* | boolean | 8 | true ili false | bool x = false; |

PRIMERI:

* Ako se kod *double* zaboravi F, kompajler javlja grešku.

double x = 5; // greška

double x = 5F; // OK

* Sve promenljive se moraju definisati pre upotrebe inače je greška u kompajliranju.

int x, y, z = 6; z = x/y;

Use of unassigned local variable 'x'

Use of unassigned local variable 'y'

* Tip *var* – govori kompajleru da će pri inicijalizaciji biti odlučeno koji je tačno tip, mora se inicijalizovati odmah pri deklaraciji promenljive.

var x; //Error- compile cannot infer type

#### **Konverzija** – Convert

Sve što se u programskom jeziku C# unosi sa tastature, i sve što se ispisuje na standardnom izlazu je tipa string. Da bi vršili manipulaciju sa različitim tipovima podataka, potrebno je izvršiti konverziju u odgovarajući tip podatka. Za konvertovanje iz jednog u drugi tip se koriste metode predviđene za to. Postoje sledeće konverzije:

1. u *int* – napomena:
   * int i Int32 su sinonimi pomoću int x = Convert.ToInt32(...);
   * pomoću System.Int32.Parse npr: int x = System.Int32.Parse("50"); ili string a; int x = int.Parse(a);

1. u *double* – int x = Convert.ToDouble(...);

• pomoću System.Double.Parse npr: double x = System.Double.Parse("50.0"); ili string a; double x = double.Parse(a);

1. u *string* – string x = Convert.ToString(...);

1. u *char* – char x = Convert.ToChar('0'+ 3); //štampa broj 3

1. ne postoji automatska konverzija int u bool.

### 1.3.3. Promenljive i konstante

###### 1.3.3.1. Promenljive

Promenljive su osnovni objekti koji se koriste u programima. Promenljiva u svakom trenutku svog postojanja ima vrednost kojoj se može pristupiti i koja se može pročitati i koristiti, ali i koja se

(ukoliko nije traženo drugačije) može menjati.

Imena promenljivih su određena identifikatorima. Za identifikator možemo postaviti proizvoljno ime, ali ne sme počinjati brojem, a takođe ne sme biti ni ključna reč.

Posebno treba da voditi računa da je Case Sensitive, odnosno osetljivo na velika i mala slova.

Primer inicijalizacije i dodele vrednosti promenljivoj:

int mojaIntPromenljiva = 5;

###### 1.3.3.2. Konstante

Konstanta je promenljiva čija se vrednost ne može menjati. Konstanta se dobija stavljanjem ključne reči **const** ispred promenljive prilikom njene deklaracije i inicijalizacije.

const int broj = 100;

Ograničenja: Kao konstanta se mogu navesti samo lokalna promenljiva ili polje klase. Konstante moraju biti inicijalizovane prilikom deklaracije, i kada im se jednom dodeli vrednost, ona se ne može promeniti. Takođe, konstanta se ne može inicijalizovati vrednošću neke promenljive, odnosno vrednost kojom se inicijalizuje konstanta mora biti dostupna u vreme kompajliranja.

Konstante su uvek implicitno statičke, s tim što nije dozvoljeno navođenje ključne reči *static* u deklaraciji konstante.

Prednosti upotrebe konstanti se ogledaju u tome što se kod lakše razume i modifikuje (promena se vrši samo na jednom mestu prilikom prepravljanja koda).

### 1.3.4. Operatori

U programskom jeziku C# postoji više operatora i to pokazuje upravo njegovu snagu. Operator je funkcija koju primenujemo nad vrednostima ili promenljivima da bismo dobili željeni rezultat.

###### 1.3.4.1. Operatori dodele vrednosti

Najjednostavniji i najviše korišćeni operator je takozvani operator pridruživanja ili operator dodele vrednosti. Ako imate bilo kakav primer izraza, onda je poenta da se rezultat svih operacija u izrazu dodeljuje ili čuva u odgovarajućoj promenljivoj. Primer: y = (m \* x) + c;

Dakle, znak jednakosti (=) predstavlja, u stvari, operator dodele vrednosti. Pored operatora dodele vrednosti postoje još i dodatni operatori dodele vrednosti, a prikazani su u tabeli 2. U tabeli 2 mogu se videti i primeri korišćenja dodatnih operatora dodele vrednosti.

##### *Tabela 2. Dodatni operatori dodele vrednosti*

|  |  |
| --- | --- |
| **OPERATOR** | **PRIMER KORIŠĆENJA** |
| **+=** | Ako je X=2, vrednost izraza X+=2 je X=4 |
| −= | Ako je X=2, vrednost izraza X−=2 je X=0 |
| **\*=** | Ako je X=2, vrednost izraza X\*=2 je X=4 |
| **/=** | Ako je X=2, vrednost izraza X/=2 je X=1 |
| **%=** | Ako je X=2, vrednost izraza X%=2 je X=0 |

###### 1.3.4.2. Aritmetički operatori

Aritmetičke operatore koristim kada želimo da izvršimo određenu matematičku operaciju nad jednim, dva ili više promenljivih, ili matematički rečeno operanata.

##### *Tabela 3. Aritmetički operatori*

|  |  |
| --- | --- |
| **OPERATOR** | **VRSTA OPERATORA** |
| **+** | sabiranje |
| **-** | oduzimanje |
| **\*** | množenje |
| **/** | deljenje |
| **%** | ostatak pri deljenju |

###### 1.3.4.3. Inkrementiranje i dekrementiranje

Inkrementiranje predstavlja aritmetičku operaciju uvećanja promenljive za jedan, a dekrementiranje aritmetičku operaciju umanjenja promenljive za jedan.

NAPOMENA:

Ispis x++ se naziva postincrement. To znači da kompajler uzima trenutnu vrednost promenljive x prilikom raznih izračunavanja i tek po završenim izračunavanjima inkrementira promenljivu x (uvećava za jedan).

Ispis ++x se naziva preincrement. To znači da kompajler prvo uveća vrednost promenljive za jedan i onda tako uvećanu vrednost promenljive x koristi u daljim izračunavanjima.

Redosled operatora

Što se tiče redosleda izvršavanja operatora zapamtite da su aritmetički operatori stariji, što znači da se pre izvršavaju u odnosu na operatore poređenja.

###### 1.3.4.4. Relacijski operatori

Relacijske operatore, ili kako još možemo da ih pronađemo u literaturi kao operatore poređenja, koristimo kada želimo da tok programa usmerimo zavisno od nekog uslova. Proučite sami tipove operatora porđenja narednih deset sekundi.

##### *Tabela 4. Relacijski operatori*

|  |  |
| --- | --- |
| **OPERATOR** | **VRSTA OPERATORA** |
| **>** | veće |
| **<** | manje |
| **>=** | veće ili jednako |
| **<=** | manje ili jednako |
| **==** | ekvivalencija (jednakost) |
| **!=** | neekvivalencija (različito) |

**1.3.4.5. Logički operatori**

##### *Tabela 5. Logički operatori*

|  |  |
| --- | --- |
| **OPERATOR** | **VRSTA OPERATORA** |
| **!** | logičko NE (NOT) |
| **&&** | logičko I (AND) |
| **| |** | logičko ILI (OR) |

Logički operatori se koriste za izvršavanje operacija Bulove algebre, kao što su endovanje, orovanje, negacija i slično. Logički operator NE primenjen na neku logičku vrednost vraća istu u suprotno stanje.

### 1.3.5. Naredbe

Naredbe u C# predstavljaju celovitu programsku instrukciju i završavaju se (;).

int x; x = 14;

int z = x;

1.3.5.1. Naredbe grananja

U programskom jeziku postoji više naredbi koje mogu da uslove različite tokove i izvrše grananja.

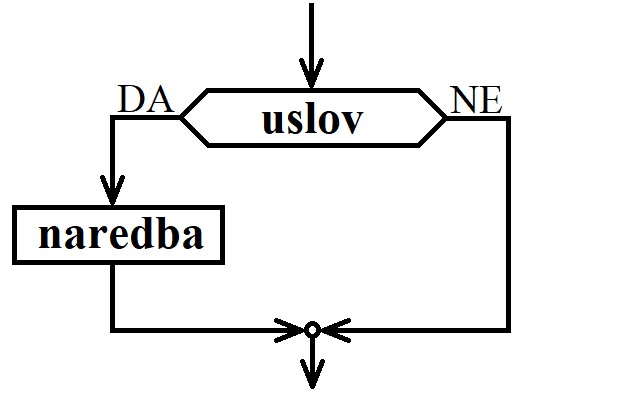
Takođe, postoje i različite petlje koje će omogućiti višestruko prolaženje kroz kod kada je to potrebno. U narednom odeljku dat je prikaz tih struktura.

1.3.5.1.1. Naredba granjanja *if*

Opšti oblik sekcije *if* je isti kao i u programskom jeziku C, jer je programsi jezik C# nasledio sintaksu iz programskog jezika C. Opšti oblik sekcije *if* glasi:

##### if (uslov) naredba

Na slici 7. je prikazan dijagram toka *if* naredbe.



***Slika 7.*** *Dijagram toka if naredbe*

Ako je uslov ispunjen, izvršiće se naredba (grana DA na dijagramu sa slike 7), a ako nije uslov ispunjen, program nastavlja sa radom (grana NE na dijagramu sa slike 7).

Primer – *if*:

if(x > 0)

{ brojac++;

}

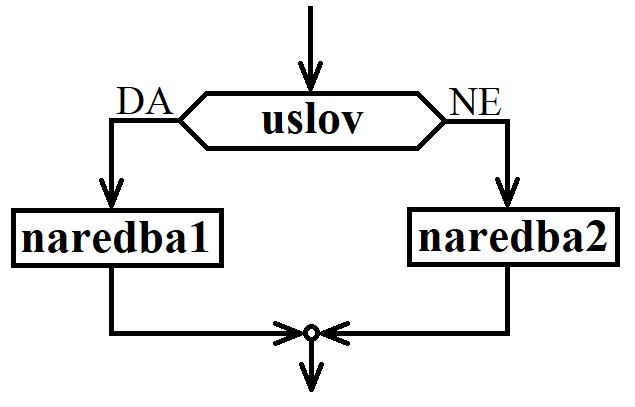
###### 1.3.5.1.2. Naredba grananja *if – else*

Kao što smo videli za sekciju **if**, sekcija **if-else** isto funkcioniše kao u programskom jeziku C.

Opšti oblik sekcije *if-else* glasi:

##### if (uslov) naredba1 else naredba2

Na slici 8. je prikazan dijagram toka *if-else* naredbe.



***Slika 8.*** *Dijagram toka if-else naredbe*

Ako je uslov ispunjen, izvršiće se naredba1 (grana DA na dijagramu sa slike 8), u suprotnom izvršava se naredba2 (grana NE na dijagramu sa slike 8).

Primer - *if-else*:

if (!(x <= y) && (x >= 0))

{

rez = 1;

} else {

rez = -1;

}

SAVET: Dobro je uvek pisati *{}* za if (kao i *while, do while, for*), jer se može desiti da, kada se naknadno želi dodati deo, kod u selekciji zaboravi da otvori i zatvori vitičaste zagrade, pa onda kod neće biti korektan, jer će se izvršavati samo prva linija koda.

Primer - kaskadnog*if-else* (tj. naredbe višestrukog grananja)

if (levaStrana.Godina < desnaStrana.Godina) rez = -1;

else if (levaStrana.Godina > desnaStrana.Godina) rez = 1;

else if (levaStrana.Mesec < desnaStrana.Mesec) rez = -1;

else if (levaStrana.Mesec > desnaStrana.Mesec) rez = 1;

else if (levaStrana.Datum < desnaStrana.Datum) rez = -1;

else if (levaStrana.Datum > desnaStrana.Datum) rez = 1; else

rez = 0;

###### 1.3.5.1.3. Naredba višestrukog granjanja switch

Opšti oblik *switch* naredbe u programskom jeziku C# je isti kao i u programskom jeziku C, i glasi:

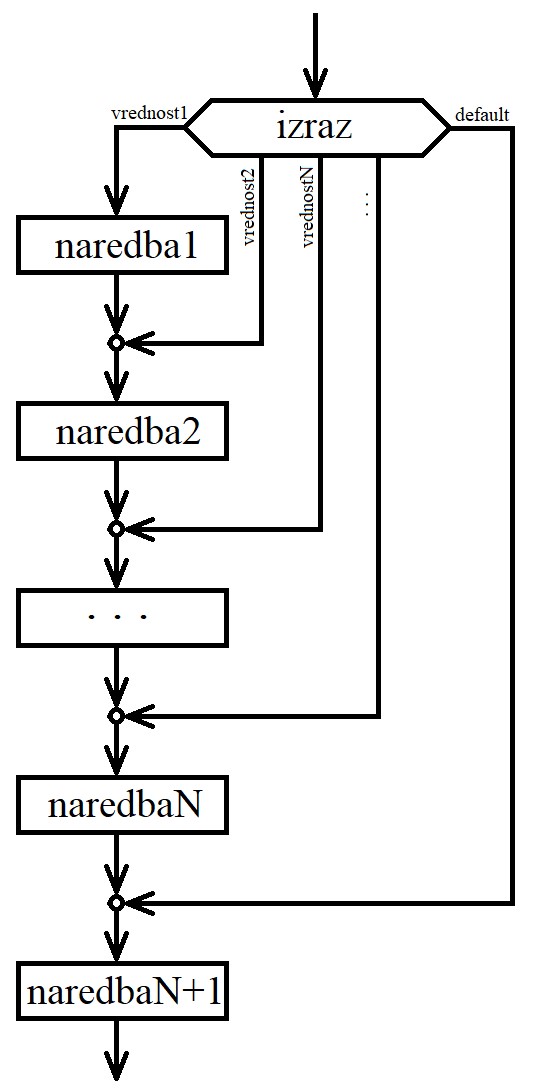
switch (izraz)

{

case vrednostl: naredba1; case vrednost2: naredba2; . . . case vrednostN: naredbaN; default: naredbadeN+1;

}

Na slici 9 je prikazan dijagram toka *switch* naredbe.



***Slika 9.*** *Dijagram toka switch naredbe*

Ako je vrednost celobrojnog izraza vrednost1, izvršenje počinje od naredna1, ako je vrednost2 od naredna2, itd., ako je vrednostN od narednaN i na kraju će se izvršiti narednaN+1. Ako vrednost celobrojnog izraza ne odgovara nijednoj case vrednosti, izvršiće se default naredna.

Ako ne želimo da nam se naredbe izvršavaju jedna za drugom, već želimo da se izvrši za samo jednu vrednost *case*-a, koristimo rezervisanu reč *break* za izlazak iz naredbe višestrukog grananja (primer korišćenja službene reči *break* se može videti u narednom primeru).

Primer naredbe višestrukog grananja *switch*:

switch (pom)

{ case '<': rezultat.Text += "manje"; break; case '>': rezultat.Text += "vece"; break; case '&&': rezultat.Text += "logico i"; break; case '||': rezultat.Text += "logicko ili"; break; case '>=': rezultat.Text += "vece jednako"; break; default: rezultat.Text += pom; break;

}

*break* se koristi za svaki *case*(nije obavezno, ali može da se koristi ako ne želimo da nam se sve naredbe izvrše), i za *default*.

labela – pom:

1. mora biti tipa *int* ili *string*
2. ne smeju biti dve labele sa istom vrednošću
3. labele se ne mogu grupisati, iako izvršavaju iste iskaze
4. vrednost labele se ne može izračunavati za vreme izvršavanja programa 5. ako se hoće više *case* izvršiti, mora se koristiti *goto*

###### 1.3.5.2. Petlje (Ciklusi)

Niz naredbi u programu koji se može izvršiti više puta **naziva se petlja (ciklus).**

* Niz operatora koji obrazuje ciklus nazivamo **telo ciklusa**.
* Uslov koji određuje da li će se telo ciklusa ponovo izvršiti nazivamo **izlazni kriterijum ciklusa.**

U zavisnosti od položaja izlaznog kriterijuma u odnosu na telo ciklusa, cuklusi mogu biti:

* Sa preduslovom (**WHILE**),
* Sa postuslovom (**DO WHILE**),

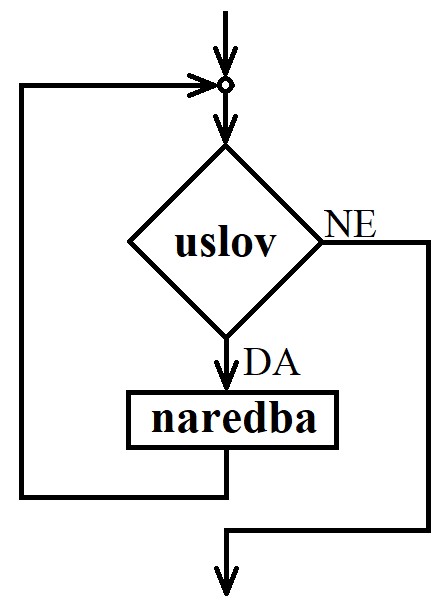
Ciklus **WHILE** se može skraćeno zapisati pomoću operatora ciklusa **FOR.** Ono što nije postojalo u programskom jeziku C, a postoji u C# je **FOREACH.**

**1.3.5.2.1. Petlja WHILE**

Petlja (ciklus) *while* ima sledeći opšti oblik:

##### while (uslov) naredba

Na slici 10 je prikazan dijagram toka *while* naredbe:



***Slika 10.*** *Dijagram toka* **while** *naredbe*

Kod while ciklusa naredba će se izvršiti zavisno od uslova (sve dok je uslov ispunjen). Ako je uslov ispunjen, izvršiće se naredba (grana DA na dijagramu sa slike 10), u suprotnom, izvršiće se grana NE (grana NE na dijagramu sa slike 10), i tada se izlazi iz petlje (ciklusa). **While** ciklus se u programiranju najčešće koristi kada ne znamo koliko puta neku radnju želimo da ponavljamo.

Ovaj ciklus se naziva još i ciklus sa preduslovom.

Primer *while* ciklusa:

int x=10; while (x>0)

{

Console.WriteLine(x); x--;

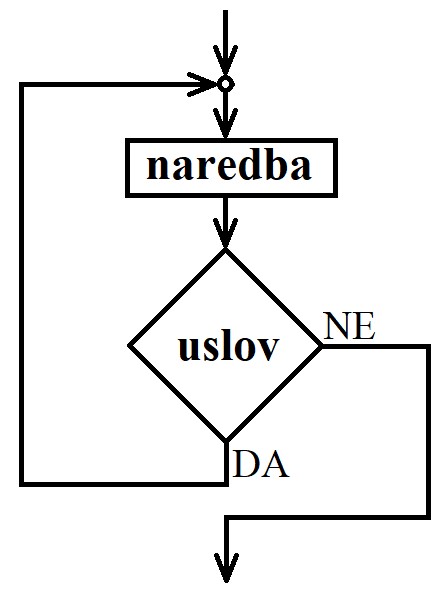
}

**1.3.5.2.2. Petlja DO WHILE**

Ciklus *do while* ima sledeći opšti oblik:

##### do naredba while (uslov);

Na slici 11 je prikazan dijagram toka *do while* naredbe:



***Slika 11.*** *Dijagram toka do while naredbe*

Prvo se izvršava naredba, pa se ispituje uslov. Ako je uslov ispunjen, uradiće se ponovo naredba (grana DA na dijagramu sa slike 11), u suprotnom, izvršiće se grana NE (grana NE na dijagramu sa slike 11), i tada se izlazi iz petlje (ciklusa). Do while ciklusa naredba će se izvršiti sigurno jedanput. Do while ciklus se u programiranju najčešće koristi kada ne znamo koliko puta neku radnju želimo da ponavljamo, kao i while ciklus. Ovaj ciklus se naziva još i ciklus sa postuslovom. Primer do while ciklusa:

int x=10; do

{

Console.WriteLine(x); x--;

}

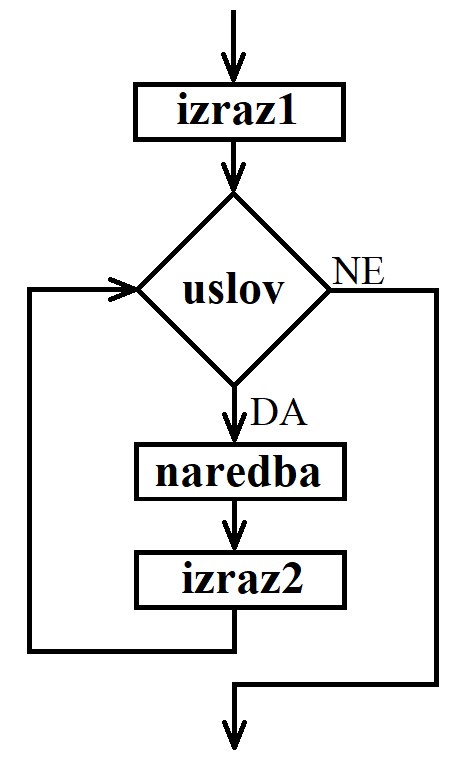
while (x>0);

**1.3.5.2.3. Petlja FOR**

Petlja (ciklus) *for* ima sledeći opšti oblik:

##### for (izraz1; uslov; izraz2) naredba

Na slici 12 je prikazan dijagram toka *for* naredbe:



***Slika 12.*** *Dijagram toka for naredbe*

Kod for ciklusa naredba će se izvršiti onoliko puta koliko je zadato pomoću uslova. Izraz1 predstavlja donju granicu od koje počinjemo da brojimo (tj. početnu vrednost brojača), uslov predstavlja gornju granicu do koje brojimo (tj. krajnju vrednost brojača), a izraz2 predstavlja korak brojanja između donje i gornje granice brojanja. Ako je uslov ispunjen, uradiće se grana DA (grana DA na dijagramu sa slike 12), u suprotnom, izvršiće se grana NE (grana NE na dijagramu sa slike 12), i tada se izlazi iz petlje.

Primer *for* ciklusa:

for (int i = 10; i > 0; i-- )

{

Console.WriteLine(i);

}

###### 1.3.5.2.4. Petlja FOREACH

Naredba foreach je nova naredba u porodici C jezika i služi da obezbedi iterativni pristup svim elementima niza ili kolekcije. Najčešće se koristi za prolazak kroz kolekcije.

Petlja (ciklus) *foreach* ima sledeći opšti oblik:

##### foreach (tip identifikator in izraz )

{ naredba

}

Dijagram toka za petlju (ciklus) *forech* je isti kao i za *while* petlju (ciklus).

Primer *foreach* petlje:

Popunjavanje niza i štampanje elemenata niza.

int[] niz1 = new int[5]; int[] niz2 = new int[3];

for (int i=0; i<niz2.Length; i++ )

{ niz2[i] = i + 5;

}

foreach (int i in niz1)

{

Console.WriteLine(i);

}

foreach (int i in niz2)

{

Console.WriteLine(i);

}

Više o korišćenju i radu *foreach* petlji (ciklusa) radiće se u poglavlju liste i u narednoj školskoj godini (IV razred) u okviru predmeta Programiranje IV kada budemo radili kolekcije.

###### 1.3.5.3. Naredbe skoka

Za rešavanje nekih programskih problema neophodno je izmeniti tok normalnog izvršenja upravljačke strukture. Za izmenu toka upravljačke strukture koristimo sledeće naredbe:

###### • *break* • *goto* • *continue*

U programskom jeziku C je sve ovo rađeno u prvom i drugom razredu, a s obzirom na to da je C# nasledio sintaksu od programskog jezika C, pomenute naredbe se isto koriste kao u programskom jeziku C.

# 2. Osnovni koncept objektno orijentisanog programiranja

Tokom prvog i drugog razreda smo radili proceduralno programiranje (programski jezik C).

Počevši od ovog poglavlja pa sve do kraja četvrtog razreda ono što ćemo raditi je objektno orijentisano programiranje (tj. pristup) u C# programskom jeziku.

Proceduralno programiranje ima niz nedostataka u odnosu na objektno orijentisano programiranje, a jedna od najvećih je što imamo mogućnost pravljenja novih tipova, tj. složenih tipova podataka. U proceduralnom programiranju najveći nedostatak je što nemamo mogućnost da ograničimo pristup i/ili vidljivost podataka, za razliku od objektno orijentisanog programiranja koji nam daje tu mogućnost. U objektno orijentisanom programiranju polazi se od objekta sa kojima želimo da manipulišemo, a ne od logike koja je potrebna za tu manipulaciju kao u proceduralnom programiranju.

Definišu se četiri osnovna koncepta (ili principa) objektno orijentisanog programiranja:

* apstrakcija,
* enkapsulacija (učaurenje),
* nasleđivanje,
* polimorfizam.

Apstrakcija je pojednostavljivanje karakteristika stvarnog objekta, gde se zanemaruju detalji i uzimaju se samo zajedničke karakteristike klase u zavisnosti od potreba programa. Prostije rečeno, predstavlja odabir svojstava – polja koja će opisivati dati objekat. Jedan isti objekat može da se apstrahuje na različite načine.

Enkapsulacija ili učaurivanje je koncept po kojem je informacija u klasi zaštićena od direktnog pristupa i jedini način da se promeni je kroz definisane metode. Ovakav koncept programiranja naziva se „crna kutija“- poznat je ulaz i izlaz, ali ne i proces koji se odvija unutar funkcije.

Enkapsulacija se ostvaruje podelom članova klase na javne i privatne. Javni članovi mogu slobodno da se koriste u bilo kom delu programa (van tela same klase), dok su privatni dostupni samo u okviru klase u kojoj su definisani. Polja su najčešće privatna, dok su metode većinom javne [1].

**Nasleđivanje se odnosi isključivo na klase.** Nasleđivanje je najvažniji koncept objektno orijentisanog programiranja. Po njemu se iz jedne definisane klase (bazne, roditeljske, predak, nadklase) može izvesti nova klasa (izvedena, dete, potomak, potklasa). Ona nasleđuje sve članove klase i uvodi svoja specifična polja i metode. Ako neki član klase ima modifikator pristupa *private*, nasleđuje se, ali ne može da mu se pristupi u izvedenoj klasi.

**Polimorfizam se odnosi isključivo na metode.** Polimorfizam je osobina da ista metoda deluje različito, u zavisnosti od tipa ili broja parametara koji joj se prosleđuju. Možemo još reći da je polimorfizam osobina da metode ima isto ime u izvedenoj i baznoj klasi, a drugačiju logiku izvršenja.

Uvođenjem objektno orijentisanog programiranja (tj. pristupa), uvedeni su pojmovi klase i objekta.

## 2.1. Klasa i objekat

Pokušajmo da odgovorimo na pitanje: „Šta su to klase i objekti?”

**Klasa je struktura podataka koju bismo trebali posmatrati kao novi tip, i ona prestavlja generičku definiciju objekata koji imaju zajedničku strukturu i ponašanje.**

**Nasuprot klasi, objekat je instanca klase i on se definiše kao entitet koji je sposoban da čuva svoja stanja i koji okolini stavlja na raspolaganje skup operacija preko kojih se tim stanjima pristupa.**

Prema tome, objekat karakterišu:

* identitet – omogućava razlikovanje objekata među sobom,
* ponašanje – dinamički aspekt objekta, definiše se metodama koje sadrži objekat,
* stanje – statički aspekt objekta, definiše se podacima objekta i njegovim vezama sa drugim objektima u sistemu [1].

### 2.1.1. Klasa. Sastavni elementi klase

Za klasu možemo da koristimo i sledeću definiciju: **Klasa je složeni tip podataka koji predstavlja šablon prema kojem se izrađuju objekti. Klasom se definišu osobine i ponašanje tih objekata.**

Na slici 13 je prikazan primer jedne klase (šablona) na osnovu koje će se kreirati objekat.



***Slika 13.*** *Primer klase* ***Soljica*** *(šablona)*

Kada kreiramo neku sopstvenu klasu, potrebno je da definišemo: njena svojstva (properties) ili varijable kojima će dodeljivati vrednosti i metode koje određuju njeno ponašanje.

Naredba za kreiranje nove klase počinje ključnom reči *class*, zatim dolazi naziv klase, deklaracija svojstava (properties) koje se definišu za tu klasu i na kraju metode koje pripadaju klasi.

public class Soljica

{

//deklaracija i inicijalizacija svojstava ili varijabli public int mojaVarijabla;

//metode

public void mojaMetoda()

{ ...

}

}

Gornjim naredbama kreirali smo klasu Soljica, i njoj pripadajuću celobrojnu varijablu mojaVarijabla kojoj će se unutar klase mojaKlasa dodeljivati vrednosti.

U nastavku, još jedan primer kreiranja klase, ovoga puta, klasa Račun [1].

public class Racun

{

private double brojRacuna; private double stanje; private double provizija;

public void Uplata(double iznos) {

...

}

public void Isplata(double iznos)

{ ... }

public void Prikazi()

{ ...

}

}

### 2.1.2. Objekat

U prethodnom delu smo definisali kreiranje klasa i vrlo je bitno da shvatimo da je klasa referentni tip. Samim tim, jasno nam je da se deklaracijom klase ne kreira instanca klase (objekat), već referenca.

Kreiranje objekata se realizuje na drugačiji način. Instanciranje klase, odnosno kreiranje objekta vrši se iz dva koraka:

* alokacija memorije se vrši pomoću operatora *new*.
* inicijalizacija objekta se vrši pomoću konstruktora kojim se alocirana memorija „pretvara” u objekat i objekat inicijalizuje.

Službena reč *new* je operator za stvaranje (instanciranje) novih objekata.

Na slici 14 je prikazan instanca (objekat) soljica, koja je izrađena (napravljena) od klase Soljica.



***Slika 14.*** *Primer objekta* ***soljica*** *(objekat napravljen od klase Soljica)*

Na sledećem primeru je prikazan način kreiranja objekta soljica pomoću klase Soljica [1].

public void Main()

{

Soljica soljica = new Soljica(); soljica.mojaVarijabla = 3;

}

## 2.2. Modifikatori pristupa

Pre nego što uvedemo pojam enkapsulacija i njeno značenje, moramo prvo da uvedemo pojam modifikatori pristupa. Vrlo je bitno da razlučimo šta su modifikatori pristupa, koja su njihova ograničenja i shvatimo njihovu važnost.

Modifikatori pristupa u jeziku C# služe da odrede koje metode i promenljive članice drugih klasa određena klasa može da vidi i da koristi.

Postoji sledećih 5 modifikatora pristupa:

* *public,* • *private,* • *protected,* • *internal,*
* *protected internal*.

#### **Public**

Modifikatorom public svi elementi klase koji su njim modifikovani su vidljivi svim metodama, svih klasa.

#### **Private**

Modifikatorom private je članovima klase moguće pristupiti samo metodama iz klase **Protected**

Modifikatorom protected svi članovi klase dostupni su samo metodama klase i metodama klasa koje su izvedene iz klase. **Internal**

Članovi klase su dostupni svim metodama svih klasa iz programskog sklopa u kome je klasa.

#### **Protected Internal**

Članovi klase su dostupni svim metodama klasa, metodama izvedenim iz klase i klasama programskog sklopa u kome je klasa.

## 2.3. Enkapsulacija

Enkapsulacija objekata je jedan od osnovnih koncepata objektno orijentisanog programiranja i predstavlja dodatnu apstrakciju kojom se „sakrivaju” detalji implementacije objekta.

Postoje dva bitna aspekta enkapsulacije:

* objedinjavanje podataka i funkcija u jedinstven entitet (klasa),
* kontrola mogućnosti pristupa članovima entiteta (modifikatori pristupa).

NAPOMENA: Direktan pristup podacima je potpuno nepotreban i nepoželjan.

20

Objedinjavanje podataka i funkcija u jedinstven entitet se ostvaruje pomoću klasa, a određuje granicom entiteta.

Kontrola mogućnosti pristupa članovima entiteta ostvaruje se navođenjem modifikatora pristupa. Uvođenjem modifikatora pristupa omogućava se razdvajanje klase na javni deo koji čine članovi koji su označeni sa modifikatorom pristupa *public* (pristup nije ograničen) i privatni deo koji čine članovi koji su označeni sa modifikatorom pristupa *private* (mogu mu pristupiti samo članovi klase).

3

Na osnovu principa objektno orijentisanog programiranja i dobre programerske prakse, preporuka je da podaci objekta treba da se nalaze u privatnom delu. Naravno, ukoliko to ne želite da uradite ne morate, ali tako sami sebi usložnjavate održavanje, a samim tim i mogućnost nastanka *bug*-ova.

Od mesta deklaracije određenog člana zavisi i vrsta modifikatora pristupa koji se može koristiti. Ukoliko nije naveden, određuje se podrazumevani modifikator:

* za imenovani prostor nije dozvoljeno navođenje modifikatora jer se podrazumeva da su javni (*public*),
* tipovi koji se deklarišu unutar imenovanog prostora mogu biti public ili internal; podrazumevani modifikator je *internal*,
* članovi klase mogu da imaju bilo koji od navedenih pet modifikatora; podrazumevani modifikator je *private*,
* članovi zapisa mogu biti public, internal ili private; podrazumevani modifikator je *private*,
* članovi interfejsa ne mogu imati modifikatore pristupa; implicitno su *public*,
* članovi nabrajanja ne mogu imati modifikatore pristupa; implicitno su *public*.

Domen iz koga se može pristupiti određenom tipu nikad ne sme biti uži od domena iz koga se može pristupiti članu koji je deklarisan unutar tog tipa.

namespace primer

{

internal class Racun

{

public double stanje; //greška

} }

Postoje dva razloga:

* omogućavanje kontrole korišćenja – Objekat se može koristiti isključivo preko javnih metoda i
* smanjenje uticaja promena – Ukoliko su detalji implementacije objekta privatni mogu se promeniti, a da te promene ne utiču direktno na korisničke objekte (koje jedino mogu da pristupe javnim metodama) [1].

urenje

public class Racun { public double DajStanje()

{

return stanje;

}

public void Prikazi(){...} private double stanje;

}

public class Klijent {

public void Prikazi()

{

Console.WriteLine( “Klijent ...” );

Console.WriteLine( string.Format(“Stanje: {0}” racun.DajStanje() );

}

private Racun racun; }

Ovim promena se ne utiče na korisnika klase.

public class Racun {

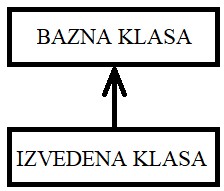
public double DajStanje()

## 2.4. Nasleđivanje

Nasleđivanje je koncept objektno orijentisanog programiranja koji omogućava da se na osnovu postojeće klase izvede nova klasa. **Nova izvedena klasa nasleđuje sve članove bazne klase.**

### 2.4.1. Izvedena klasa

Za baznu klasu imena koja se još koriste su roditeljske (parent *class*), predaklasa, nadklase, a izvedena klasa se naziva još dete (child *class*), potomak, potklasa. Na slici 15 je prikazano direktno nasleđivanje i smer nasleđivanja, gde se može videti da izvedena klasa nasleđuje od bazne klase, a ne obrnuto. Nasleđivanje funkcioniše isto kao i u stvarnom životu.



***Slika 15.*** *Dijagram direktnog nasleđivanja*

Bitne činjenice koje se moraju shvatiti su da se nasleđivanjem ostvaruje veza (odnos) između objekata i to:

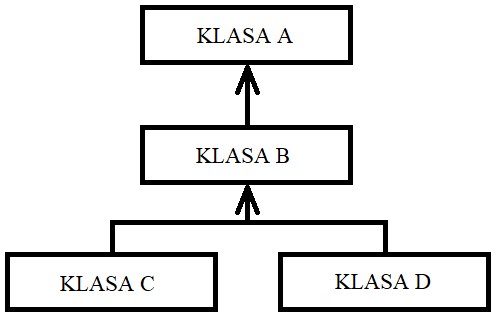
* *is* veza,
* bazna klasa,
* izvedena klasa koja nasleđuje baznu klasu.

Napomena:

Treba razlikovati nasleđivanje klasa i nasleđivanje interfejsa (klasa koja nasleđuje interfejs mora da implementira sve navedene funkcije).

Nasleđivanje može biti direktno i indirektno. Na slici 16 prikazan je dijagram na kom se lako može objasniti direktno i indirektno nasledivanje. Klasa C direktno nasleđuje klasu B, a indirektno klasu

A. Sve promene nad baznom klasom (klasa A) se automatski odražavaju nad izvedenim klasama (klasa B, klasa C i klasa D). Obrnuto ne važi. Jednu baznu klasu može da nasledi više izvedenih klasa. Broj izvedenih klasa za jednu baznu klasu nije ograničen. Iz klase B su izvedene klasa C i klasa D.



***Slika 16.*** *Dijagram direktnog i indirektnog nasleđivanja*

U objektno orijentisanom programiranju postoji jednostruko nasleđivanje i višestruko nasleđivanje. Za jednostruko nasleđivanje izvedena klasa direktno nasleđuje jednu baznu klasu, dok za višestruko nasleđivanje izvedena klasa direktno nasleđuje dve ili više baznih klasa. U programskom jeziku C# nije dozvoljeno višestruko nasleđivanje.

Svaka izvedena klasa može dalje biti bazna klasa. Grupa klasa koje su povezane nasleđivanjem formiraju strukturu koja se naziva hijerarhija klasa pri čemu su klase na višim nivoima opštije, dok su one na nižim nivoima u hijerarhiji specifičnije.

Što se tiče dubine hijerarhije preporuka je da broj nivoa ne bude veći od sedam. Ukoliko nije eksplicitno navedena bazna klasa, podrazumeva se *System.Object*.

Sintaksa za nasleđivanje je sledeća:

class IzvedenaKlasa: BaznaKlasa

{ ...

}

Izvedena klasa nasleđuje sve članove bazne klase osim konstruktora i destruktora. Javni članovi bazne klase su implicitno javni članovi izvedene klase. Takođe, izvedena klasa može imati nove članove.

Primer:

public class Racun

{

public void Uplata(decimal iznos){...} public void Isplata(decimal iznos){...} private double brojRacuna; private double stanje;

}

public class TekuciRacun: Racun

{

private double provizija; //novi član } ...

TekuciRacun tekuci = new TekuciRacun(); tekuci.Uplata(100);

**Nasleđivanje ne podrazumeva da će izvedena klasa imati pristup svim članovima bazne klase. Privatni članovi bazne klase, iako su nasleđeni, oni su dostupni isključivo članovima bazne klase.**

Primer:

public class Racun

{

public void Uplata(decimal iznos){...} public void Isplata(decimal iznos){...} private double brojRacuna; private double stanje;

}

public class TekuciRacun: Racun

{

public void Prikazi();

{

Console.WriteLine(“Stanje:”, stanje); //greška

} }

**Članovi bazne klase sa modifikatorom *protected* su jedino dostupni unutar bazne klase i direktno i indirektno izvedenim klasama.**

Na osnovu principa objektno orijentisanog programiranja i dobre programerske prakse, treba težiti da sva polja klase imaju modifikator pristupa *private*, a za svako od njih navesti svojstvo sa modifikatorom pristupa *protected*.

Primer:

public class Racun

{ ... protected double stanje;

}

public class TekuciRacun: Racun

{

public void Prikazi()

{

Console.WriteLine(“Stanje:”, stanje); // OK

} }

Metode izvedene klase ne mogu da pristupe članovima bazne klase preko reference.

Primer:

public class Racun

{ ... protected double stanje;

}

public class TekuciRacun: Racun

{

public void Prikazi(Racun racun)

{

Console.WriteLine(“Stanje:”, racun.stanje); // greška

} }

Dostupnost izvedene klase je uslovljena dostupnošću bazne klase. Ukoliko je bazna klasa privatna, izvedena klasa ne može biti javna.

Za poziv konstuktora bazne klase iz konstruktora izvedene klase se koristi ključna reč *base*. Prvo se izvršava konstruktor bazne klase. Navođenje inicijalizatora konstruktora nije obavezno (ukoliko se ne navede, poziva se konstruktor [bez parametara] bazne klase). Konstruktor bazne klase, implicitno poziva konstruktor klase System.Object [1].

Primer:

public class BaznaKlasa

{

public BaznaKlasa() {...}

}

public class IzvedenaKlasa: BaznaKlasa

{

public IzvedenaKlasa(): base() { ... }

}

Službena reč koja označava da se klasa ne može naslediti je *sealed*.

Primer:

seald class BaznaKlasa

{

public BaznaKlasa() {...}

}

## 2.5. Polimorfizam

**Sposobnost promenljive da referencira objekte različitih tipova i da automatski poziva odgovarajuću metodu objekta koji se referencira, naziva se polimorfizam.**

Polimorfizam se zasniva na sledećem konceptu: metoda koja je deklarisana u baznoj klasi može da se implementira na više različitih načina u različitim izvedenim klasama [1].

Primer:

BaznaKlasa promenljiva = new IzvedenaKlasa ();

### 2.5.1. Virtual

Promenljiva tipa bazna klasa može da referencira instance direktno ili indirektno izvedenih klasa.

Polimorfizam se u jeziku C# najčešće postiže upotrebom virtuelnih metoda. Za deklaraciju virtuelne metode se koristi ključna reč *virtual*.

Primer:

public class Racun

{

public virtual void Prikazi() {...}

}

Prilikom definisanja, virtuelne metode se moraju implementirati. Ukoliko to ne učinite, napravićete grešku.

Primer:

public class Racun

{

public virtual void Prikazi(); //greška

}

**Privatne i statičke metode se ne mogu definisati kao virtuelne.** Ukoliko ne vodite računa o tome da virtuelne metode nisu modifikovane kao *public*, napravićete grešku.

Primer:

public class Racun

{

private virtual void Prikazi(); //greška

}

Metode nisu implicitno virtuelne iz sledećih razloga:

* performanse – potrebno je vreme da bi se odredilo koju od reimplementiranih metoda treba pozvati, što najčešće ne utiče u velikoj meri na performanse. Veći problem je nemogućnost optimizacije koda prilikom kompajliranja. Za nevirtuelne metode ova informacija je dostupna u vreme kompajliranja, što znači da se prilikom kompajliranja;
* mogu sprovesti određene optimizacije (npr. inline);
* dizajn.

Metode klase koje su namenjene za internu upotrebu i koje se odnose isključivo na dizajn date klase ne treba da se reimplementiraju u izvedenim klasama, pa samim tim ne treba ni da budu virtuelne [1].

### 2.5.2. Overriding

Overriing je uslovno jedan od osnovnih principa objektnoorjentisanog programiranja. **Proces implementacije virtuelne metode u izvedenoj klasi se naziva overriding.** Najbanalnije objašnjenje overridinga je nadjačavanje osnovne metode u baznoj klasi implementiranom metodom u izvedenoj klasi. Za definisanje overriinga koristi se ključna reč *override*.

Primer:

public class Racun

{

public virtual void Prikazi() {...}

}

public class TekuciRacun: Racun

{

public override void Prikazi() {...}

}

Virtuelna i reimplementirana metoda moraju biti indentične i moraju imati:

* isti naziv,
* isti modifikator pristupa,
* isti tip rezultata i
* iste parametre.

Koja metoda će biti pozvana, metoda bazne ili izvedene klase određuje se na osnovu tipa instance, koju promenljiva referencira, a ne na osnovu tipa same promenljive.

Primer:

public class Racun

{

public virtual void Prikazi()

{

Console.WriteLine(“Racun: {0}”, brojRacuna);

} }

public class TekuciRacun: Racun

{

public override void Prikazi()

{

Console.WriteLine(“Tekuci racun: {0}”, brojRacuna); }

}

Racun racun = new Racun(); racun.Prikazi(); racun = new TekuciRacun(); racun.Prikazi();

Reimplementirana metoda se, takođe, može reimplementirati. Reimplementirana metoda je implicitno virtuelna i ne može se eksplicitno tako deklarisati [1].

## 2.6. Objektni jezik C#

U prethodna dva poglavlja obradili smo već deo C# programskog jezika. U okviru ovog poglavlja obradićemo nizove, liste, strukture, metode i static.

### 2.6.1. Definisanje nizovnih promenljivih i korišćenje sistemskih metoda za rad sa nizovima

Nizovi su indeksirane kolekcije objekata istog tipa. U programskom jeziku C# postoji bitna razlika od ostalih programskih jezika iz C porodice – nizovi u programskom jeziku C# predstavljaju objekte.

Upravo zbog ove činjenice nizovi imaju svoje metode i svojstva (BinarySearch(), Clear(), Copy(),

CreateInstance(), IndexOf(), LastIndexOf(), Reverse(), Sort(), IsFixedSize(), IsReadOnly(),

IsSynchronized(), Length, Rank, SyncRoot, GetEnumerator(), GetLength(), GetLowerBound(), GetUpperBound(), Initialize() i setValue()).Vrste nizova: jednodimenzionalni, dvodimenzionalni, višedimenzionalni, ugnježdeni, pravougaoni.

Kada se deklarše neki niz u C#-u, automatski se kreira objekat u ugrađenoj klasi System.Array (korišćenje ove klase možete videti u naredbi Using na početku svake aplikacije – Using

System.Array) [1].

**2.6.1.1. Deklaracija niza**

Deklaracija nizova se realizuje prema sledecoj sintaksi:

#### tip[] ime\_niza;

##### 2.6.1.2. Konstrukcija niza

Po izvršenoj deklaraciji niza, deklarisani niz i dalje ne postoji. Da bi se napravio taj niz, potrebno ga je konstruisati. Konstrukcija niza se realizuje na sledeci način:

#### int[] mojNiz = new int[5];

Bitna stvar je napraviti razliku između samog niza i elemenata niza. Konstruisanjem niza sa new int[5] mi smo u stvari deklarisali i konstruisali niz od pet celobrojnih varijabli, a elementi tog niza (tih 5 varijabli) imaju podrazumevane vrednosti. Odnosno, konstruisali smo niz vrednosnog tipa sa 5 elemenata default vrednosti – 0. Takođe, bitna razlika je i to da se elementi niza referentnog tipa ne inicijalizuju svojim podrazumevanim vrednostima, nego je podrazumevana vrednost *null*. Ovo je veoma važna činjenica jer će se prilikom pokušaja upotrebe elementa izazvati izuzetak [1].

##### 2.6.1.3. Inicijalizacija niza

Nakon izvršene deklaracije i konstrukcije niza, elementi tog novonastalog niza imaju svoje difoltne vrednosti. Inicijalna default vrednost za brojeve, bez obzira da li su celi ili realni, iznosi 0. Inicijalna realna vrednost za string-ove je prazan string.

Inicijalna vrednost za objekte je null, što znači da objekat ne postoji. U mnogim situacijama je potrebno da se definišu konkretne vrednosti niza na početku rada programa.

Definisanje vrednosti elemenata niza se zove inicijalizacija, i to se može uraditi kao što je prikazano na primeru ispod [1].

int[] niz = new int[4]; niz[0] = 2; niz[1] = 4; niz[2] = 6; niz[3] = 8;

### 2.6.2. Dvodimenzionalni i višedimenzionalni nizovi

Da bismo razumeli pojam dvodimenzionalnih, a pogotovo višedimenzionalnih nizova, najlakše je da nizove zamislimo kao redove mesta na koje se smeštaju vrednosti. Ako zamislimo nekoliko takvih redova, zamislili smo jedan dvodimenzionalni niz. Analogno tome, nizovima se može dodati i treća dimenzija i četvrta i tako dalje, ali je takvo stanje malo teže prikazati.

C# podržava dva tipa višedimenzionalnih nizova, i to: pravougaone i nazubljene. Pravougaoni niz je niz sa dve ili više dimenzija. U klasičnom dvodimenzionalnom nizu prva dimenzija je broj redova, a druga je broj kolona.

Deklaracija i konstrukcija niza bi bila realizovana na sledeći način:

#### int[,] pravougliNiz = new int[2, 3];

Popunjavanje ovog niza pomoću *for* petlje i prikaz bi se realizovali na sledeći način:

static void Main(string[] args)

{ int redovi = 3; int kolone = 4;

//deklaracija niza sa celobrojnim elementima int[,] Niz = new int[redovi, kolone];

//popunjavanje niza elementima koji predstavljaju zbir rednog broja i kolone

for (int i = 0; i < redovi; i++) { for (int j = 0; j < kolone; j++) {

Niz[i,j] = i + j;

}

}

//prikaz sadrzaja niza for (int i = 0; i < redovi; i++) { for (int j = 0; j < kolone; j++) {

Console.WriteLine("Niz[" + i + "," + j +"]=" + i+j+";\n");

}

}

System.Console.Read();

}

Zadatke sa nizovnim vrednostima ćemo raditi u petom poglavlju ove skripte, kada budemo naučili izuzetke [1].

### 2.6.3. Kolekcije

Kolekcije su standardne strukture podataka koje dopunjuju nizove. Nizovi su jedina kolekcija koja je ugrađena u C# jezik. Sve ostale kolekcije su ugrađene u prostor imena *System.Collections*.

##### *Prostor* imena *System.Collections*

Prostor imena *System.Collections* sadrži klase i interfejse koje definišu različite kolekcije objekata. Od klasa treba pomenuti *ArrayList, Queue, Stack, Hashtable*. Od interfejsa tu su *ICollection*, *IEnumerable*, *IEnumerator*, *IDictionaryEnumerator*, *Ilist* itd. [1].

###### 2.6.3.1. Klasa ArrayList

Elementima liste pristupa se preko indeksa kao i kod niza. Za razliku od niza nije neophodno unapred poznavati broj elemenata niza. Najčešće korišćene metode ove klase su: metoda *Add(object)* dodaje objekat na kraj liste, metoda *Clear()* briše sve elemente iz liste, metoda *Insert(pozicija, vrednost)* ubacuje objekat vrednosti na pozicuju i metoda *RemoveAt (index)* briše elemenat sa indeksom index iz liste. *GetEnumerator()* metoda vraća iterator koji se koristi za iteraciju (prolaz) kroz elemente liste. Metoda Sort sortira elemente liste. Metoda *Reverse()* prikazuje elemente liste u inverznom redosledu. Metoda *ToArray()* kopira elemente liste u jednodimenzionalan niz [1]. **Upotreba ArrayList kolekcije**

U nastavku je prikazan način kreiranja *ArrayList* kolekcije, način dodavanja članova u listu kao i način brisanja članova sa kraja liste.

public class ArrayListPrikaz

{

ArrayList al = new ArrayList();

public void metod()

{ al.Add(7); al.Add("Bosko"); al.Add(12.123); al.RemoveAt(0);

IEnumerator mojEnumerator = al.GetEnumerator();

while (mojEnumerator.MoveNext())

{

Console.WriteLine(mojEnumerator.Current.ToString()); }

}

}

Iteraciju kroz listu realizuje metoda *GetEnumerator* koja vraća enumerator liste. While petlja služi za štampanje elemenata liste. Enumerator se na početku pozicionira ispred prvog elementa kolekcije. Prvim pozivom metode *MoveNext* on se pozicionira na prvi element liste, sledećim pozivom na drugi itd. Kada se stigne do kraja liste metoda *MoveNext* vraća false. *Property Curent* daje tekući element liste [1].

Da bi korišcenje kolekcija bilo moguće, učitavamo prostor imena *Collections*:

using System.Collections;

###### 2.6.3.2. Red (Queue)

Redovi predstavljaju realizaciju FIFO (first-in, first-out) strukture podataka. Metoda *Enqueue* služi za dodavanje elemenata u red. Ulazni parametar ove metode je tipa *object*, tj. može biti bilo koji tip podataka. Skidanje elemenata iz reda vrši se korišćenjem metode *Dequeue* koja nema ulazne parametre. Kada se pozove ova metoda, iz reda se izbacuje najstariji član, tj. član koji je prvi ubačen u red. Za jednostavan prolazak kroz red koristi se metoda *GetEnumerator* koja vraća enumerator reda.

U nastavku je ilustrovana upotreba reda. Najstariji član u redu je karakter 'A', pa se pozivom metode *Dequeue* on izbacuje iz reda. Rezultat izvršavanja sekvence koda prikazan je ispod koda

[1].

public class QueuePrikaz

{

public void metod()

{

Queue mojRed = new Queue(); mojRed.Enqueue('E'); mojRed.Enqueue(12); mojRed.Enqueue('F'); mojRed.Enqueue(17); mojRed.Dequeue();

IEnumerator mojEnumerator = mojRed.GetEnumerator(); while(mojEnumerator.MoveNext())

{

Console.WriteLine(mojEnumerator.Current.ToString() ); }

}

}

###### 2.6.3.3. Stek (Stack)

Stack je LIFO (last-in, first-out) struktura. Element koji se poslednji stavi na stek, prvi se skida sa steka. Metoda *Push* stavlja element na vrh steka. Metoda *Pop* skida poslednje stavljeni element sa steka. Metoda *GetEnumerator,* takođe, daje enumerator steka koji služi za jednostavan prolaz kroz elemente steka.

Ovde je prikazan primer upotrebe stack strukture, dodavanje elemenata na stack, skidanje elemenata sa stack-a, prolazak kroz elemente steka [1].

public class StackPrikaz

{

public void metod()

{

Stack mojStack = new Stack(); mojStack.Push("Hello"); mojStack.Push(1); mojStack.Push("World"); mojStack.Push("!"); mojStack.Pop(); mojStack.Pop();

IEnumerator mojEnumerator = mojStack.GetEnumerator();

while (mojEnumerator.MoveNext())

{

Console.WriteLine(mojEnumerator.Current);

}

}

}

###### 2.6.3.4. Hash tabela (Hashtable)

Hash tabela je struktura podataka dizajnirana za brzo pretraživanje. To se postiže dodeljivanjem ključa svakom objektu koji se čuva u tabeli. Stringu „Idi na sever" dodeljuje se ključ 'N'. Vrednosti koja odgovara ključu 'N'se pristupa korišćenjem izraza *tabela['N'],* gde je tabela instanca klase

*Hashtable*. Metoda *GetEnumerator()*, takođe, vraća enumerator koji je tipa

*IDictionaryEnumerator*. Pomoću ovog enumeratora se može prikazati ključ i njemu pridružena vrednost za sve elemente tabele [1].

public class HashTablePrikaz

{

public void metod()

{

Hashtable tabela = new Hashtable(); tabela.Add('N', "Idi na sever"); tabela.Add('S', "Idi na jug"); tabela.Add('W', "Idi na zapad"); tabela.Add('E', "Idi na istok"); tabela.Add('Q', "Dovidjenja"); Console.WriteLine(tabela['N']);

IDictionaryEnumerator mojEnumerator = tabela.GetEnumerator(); while (mojEnumerator.MoveNext())

{

Console.WriteLine(mojEnumerator.Key.ToString() + "----->" + mojEnumerator.Value.ToString());

}

} }

### 2.6.4. Definisanje nabrojivog i strukturnog tipa

2.6.4.1. Strukture podataka

Struktura (engl. *struct*) je jednostavan korisnički definisan tip, lakša alternativa klasi. Strukture su slične klasama po tome što mogu imati konstruktore, svojstva, metode, polja, operatore, ugnježdene tipove i indeksere. Međutim, postoje i značajne razlike između klasa i struktura. Na primer, strukture ne podržavaju nasleđivanje, desturktore, a **najvažnija razlika je u tome što su klase referentni tipovi, dok su strukture vrednosni tipovi**. Samim tim, primena struktura je odlična za predstavljanje objekata kojima nije potrebna semantika referenci.

2.6.4.1.1. Definisanje strukture

Sintaksa za deklarisanje strukture vrlo je slična sintaksi za kreiranje klase:

**[atributi] [modifikator pristupa] struct identifikator [:lista interfejsa] { clanovi }**

2.6.4.1.2. Kreiranje strukture

U primeru ispod kreirana je struktura koja ilustruje njenu upotrebu.

using System;

using System.Collecti-ons.Generic; using System.Text;

namespace CreatingAStruct

{

public struct Location

{

private int xVal; private int yVal;

public Location(int xCoordinate, int yCoordinate)

{ xVal = xCoordinate; yVal = yCoordinate;

}

public int x

{

get { return xVal; } set { xVal = value; }

}

public int y

{

get { return yVal; } set { yVal = value; }

}

{

public void myFunc( Location loc )

{

loc.x = 50; loc.y = 100;

Console.WriteLine( "In MyFunc loc: {0}", loc ); }

static void Main()

{

Location loc1 = new Location( 200, 300 );

Console.WriteLine( "Loc1 location: {0}", loc1 ); Tester t = new Tester();

t.myFunc( loc1 );

Console.WriteLine("Loc1 location: {0}", loc1 );

}

} }

2.6.4.2. Enumeratori

Nabrajanja (engl. *enumerations*) su moćna alternativa konstantama. Predstavljaju vrednosni tip podataka koji predstavlja skup imenovanih konstanti.

Deklaracija i upotreba *enum*-a:

enum Temperature

{

ApsolutnaNula = -273,

TackaSmrzavanja = 0,

TackaKlucanja = 100,

};

Ovom enumeracijom postižemo bolju logičku vezu u kodu, nego da smo, recimo, kompletnu funkcionalnost uradili bez enumeratora. Ista stvar bi mogla da se realizuje na sledeći način:

const int ApsolutnaNula = -273; const int tackaSmryavanja = 0;

const int tackaKljucanja = 100;

ali bismo ovakvom upotrebom u kasnijem delu povećali složenost održavanja, a smanjili logičku povezanost.

### 2.6.4. Ključna reč *static*

Članovi klase (promenljive, metode, događaji, indeksi, itd.) mogu biti članovi instance ili statički članovi. Članovi instance povezani su sa instancama tipa, dok se statički članovi smatraju delom klase. Statičkim članovima pristupa se preko imena klase u kojoj su deklarisani.

U C# programskom jeziku nije dozvoljeno pristupiti statičkoj metodi ili promenljivoj članici preko instance. Ako pokušate to da uradite, prevodilac će upozoriti na grešku.

Statičke metode se ponašaju skoro isto kao globalne metode, jer ih možemo pozvati i mimo instance objekta. Međutim, prednost statičke metode je u tome što joj je oblast važenja određena klasom. Statičke metode imaju pristup privatnim članovima klase, jer im je oblast važenja klasa, a ne globalan imenski prostor.

Pored statičkih metoda i statičkih promenljivih, postoje još i statički konstruktori, statičke klase i statička polja [5].

Primer:

public class Racun

{

public static int Br; public static void Prikazi()

{

Console.WriteLine("Broj: {0}", Br); }

}

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Broj: {0}", Racun.Br);

Racun.Prikazi();

Console.ReadKey();

} }

### 2.6.5. Metode

Metodama u programskom jeziku C# postižemo funkcionalnost nekog dela programa, odnosno njom izvršavamo neku akciju.

Osnovna sintaksa bilo kakve metode je:

**modifikator\_pristupa povratna\_vrednost ime\_metode (argumenti\_metoda) telo\_metode**

2.6.6.1. Argumenti metoda i povratne vrednosti

U programskom jeziku postoje različite varijacije metoda koje se mogu pojaviti u upotrebi, pa tako imamo nekoliko različitih varijanti:

Najjednostavnija metoda je metoda koja ne vraća nikakvu vrednost, a ne prosleđuju joj se nikakvi parametri.

Primer je:

private void metodaBezArgumenataNeVracaVrednost()

{

UradiNesto();

}

Važno je zapaziti da za ovakve metode mora biti definisana povratna vrednost na *void*.

Nešto složenija je metoda koja vraća nekakvu povratnu vrednost:

Primer je:

private String metodaBezArgumenataVracaStringovnuVrednost()

{

String nasaVrednost = "testVrednost"; return nasaVrednost;

}

Sa druge strane, moguće je imati metodu koja ne vraća nikakvu vrednost, ali kao argumente prima određene vrednosti:

private void metodaSaArgNeVracaVrednost (String nasaVrednost, String drugaVrednost)

{

nasaVrednost += drugaVrednost;

}

Postoji mogućnost da nam je potrebno da metodi prosledimo argumente i da nam ta metoda vrati odgovarajuću vrednost.

U tom slučaju ćemo imati sledeće:

private String metodaSaArgVracaVrednost (String nasaVrednost, String drugaVrednost) {

String sabraniStringovi;

sabraniStringovi = nasaVrednost + drugaVrednost; return sabraniStringovi;

}

Primer upotrebe metoda možemo videti i prilikom realizacije osnovnih matematičkih operacija, gde pozivanjem metode *matematickeOperacije* vršimo sabiranje brojeva 2 i 4 tako što svakoj metodi koja vrši određenu operaciju prosleđujemo kao argumente prvi i drugi broj, a kao rezultat rada metode prihvatamo vrednost [1].

public class MatematickeOperacije

{

public String matematickeOperacije()

{

int prviBroj = 2; int drugiBroj = 4;

String zbir = "Zbir je " + sabiranje(prviBroj, drugiBroj) + ".";

String razlika = "Razlika je " + oduzimanje(prviBroj, drugiBroj) + ".";

String proizvod = "Proizvod je " + mnozenje(prviBroj, drugiBroj) + "."; String kolicnik = "Kolicnik je " + deljenje(prviBroj, drugiBroj) + "."; return zbir + "\n" + razlika + "\n" + proizvod + +"\n" + kolicnik; }

public int sabiranje(int prviBroj, int drugiBroj)

{

int zbir = prviBroj + drugiBroj; return zbir;

}

public int oduzimanje(int prviBroj, int drugiBroj)

{

int razlika = prviBroj - drugiBroj; return razlika;

}

public int mnozenje(int prviBroj, int drugiBroj)

{

int proizvod = prviBroj \* drugiBroj; return proizvod;

}

public double deljenje(int prviBroj, int drugiBroj)

{

double kolicnik = prviBroj / drugiBroj; return kolicnik;

}

}

# 3. Klase

U drugom poglavlju uveli smo pojam klase i dali definiciju klase. U okviru ovog poglavlja obradiće se osnovni elmenti klase koji nisu pominjani u drugom poglavlju.

## 3.1. Razlika između klase i strukture

Postoje značajne razlike između klasa i struktura. Na primer, strukture ne podržavaju nasleđivanje, desturktore, a **najvažnija razlika je u tome što su klase referentni tipovi, dok su strukture vrednosni tipovi**.

## 3.2. Konstruktor i destruktor

Obrađena je sintaksa konstruktora u okviru metoda, ali nismo zašli „ispod haube” i nismo videli karakteristike konstruktora, njihove osnovne primene i nismo dali nikakve preporuke. Kako je sintaksa već obrađena, na nju se nećemo vraćati, ali ćemo konstruktore obraditi za potrebe razumevanja njihovog korišcenja [1].

### 3.2.1. Konstruktori

**Konstruktori su specijalne metode koje služe za inicijalizaciju objekata nakon njihovog kreiranja.** Oni obezbeđuju da objekat ima dobro definisano početno stanje pre nego što se upotrebi. Ako ne uspe inicijalizacija neće postojati objekat.

Za imenovanje konstruktora koristi se ime klase (metoda ima isto ime kao i klasa) iza koga slede zagrade. Konstruktori nemaju povratnu vrednost, pa čak ni tipa *void*.

Postoje dve vrste konstruktora i to:

* konstruktori instance (vrše inicijalizaciju objekata)
* statički konstruktori (vrše inicijalizaciju klasa) [1].

##### 3.2.1.1. Podrazumevani konstruktor

Kada se kreira objekat .NET kompajler, ukoliko nije eksplicitno naveden konstruktor, automatski generiše podrazumevani konstruktor.

Primer kroz koji možemo da vidimo navedene činjenice je sledeći:

class Datum

{

private int godina; private int mesec; private int dan;

// public Datum () { ... } default konstruktor koji se automatski generiše pošto nije naveden konstruktor

}

class Test {

static void Main()

{

Datum danas = new Datum(); //kreira se objekat i poziva konstruktor

...

}

}

Vrlo je bitno da zapamtite osobine podrazumevanih konstruktora zbog njegove dalje upotrebe u raznim vašim programima (koristićete ih u svakoj klasi koju napravite).

Osobine podrazumevanog konstruktora su:

* podrazumevani konstruktor ne prima parametre,
* podrazumevani konstruktor implicitno inicijalizuje sva nestatička polja na njihove podrazumevane vrednosti i to:
  + numerička polja (int, double,decimal) na nulu,
  + logička polja na *false*,
  + polja referentnog tipa na *null*,
  + polja tipa zapis tako da su svi elementi zapisa inicijlizovani na njihove podrazumevane vrednosti,
* modifikator pristupa je *public* [1].

##### 3.2.1.2. Konstruktor sa parametrima

Konstruktor može primiti jedan ili više parametara koji se koriste za inicijalizaciju polja.

Ako se u klasi deklariše bar jedan konstruktor, kompajler neće generisati podrazumevani konstruktor.

public class Datum

{

public int godina, mesec, dan; public Datum(int g, int m, int d)

{

godina = g; mesec = m; dan = d;

}

}

class Test {

static void Main()

{

Datum danas = new Datum(2011,09,21);

} }

Sva polja koja nisu inicijalizovana u korisnički definisanom konstruktoru zadržavaju svoju podrazumevanu inicijalizaciju [1].

public class Datum

{

public int godina, mesec, dan; public Datum(int g, int m, int d)

{

godina = g; mesec = m; dan = d;

} }

public class Primer

{

static void Main()

{

Datum danas = new Datum(2011, 09, 21);

Console.WriteLine(danas.godina); // ispisuje 2010

Console.WriteLine(danas.mesec); //ispisuje 9

Console.WriteLine(danas.dan); // ispisuje 21

}

}

##### 3.1.2.3. Konstruktor kopije

Za jednu klasu može se definisati više konstruktora.

NAPOMENA: Lista parametara svakog od njih mora biti jedinstvena, ili po broju ili po tipu parametara (odnosno moraju imati različite potpise).

Inicijalizatorska lista omogućava da jedan konstruktor poziva drugi koji je deklarisan unutar iste klase čime se omogućava da se konstruktor implementira pozivanjem preklopljenog konstruktora.

Sintaksa za ove navode je sledeća:

Prilikom pravljenja konstruktora navode se dve tačke (*:*) iza kojih sledi ključna reč *this*, a u zagradi su navedeni parametri [1].

NAPOMENA: Inicijalizatorske liste se mogu koristiti samo kod konstruktora.

public class Datum

{

public int godina, mesec, dan; public Datum() : this(2010, 3, 30)

{ }

public Datum(int g, int m, int d)

{

godina = g; mesec = m; dan = d;

}

}

### 3.2.2. Destruktori

Destruktori su metode koje su u potpunosti suprotne konstruktorima. **Služe da inicirane objekte unište, i to im je osnovna namena.** U velikoj meri destruktore nećete koristiti jer programski jezik C# vrši destrukciju objekata, ali nekada ćete imati potrebu da eksplicitno uništite objekat. U tom slučaju ćete upotrebiti destruktor.

Ukoliko nemate adekvatni konstruktor u klasi prilikom aktiviranja destruktora, destruktor će uništiti instancirani objekat podrazumevanog konstruktora (setite se priče o podrazumevanim konstruktorima) [1].

Osnovne osobine destruktora su sledeće:

* destruktori se ne mogu definisati na strukturama, koriste sa isključivo sa klasama,
* klasa može imati samo jedan destruktor,
* destruktor ne može da se nasleđuje,
* destruktor se ne može pozvati; On se automatski poziva,
* destruktor ne koristi modifikatore ni parametre.

Primer korišcenja destruktora je sledeći:

class Auto

{

~Auto() // destructor klase Auto

{

// naredbe cišcenja

} }

Ako idemo malo dalje u razmatranje, možemo postaviti i drugačiji primer:

class PrvaKlasa

{

~PrvaKlasa()

{

System.Diagnostics.Trace.WriteLine("Desktruktor prve klase je pozvan.");

}

}

class DrugaKlasa : PrvaKlasa

{

~DrugaKlasa()

{

System.Diagnostics.Trace.WriteLine("Desktruktor druge klase je pozvan.");

}

}

class TrecaKlasa : DrugaKlasa

{

~TrecaKlasa()

{

System.Diagnostics.Trace.WriteLine("Desktruktor trece klase je pozvan.");

}

}

class TestirajDestruktore

{

static void Main()

{

TrecaKlasa trecaKlasa = new TrecaKlasa();

} }

Startovanjem ovog malog primera dobijamo sledeći izlaz:

Desktruktor treće klase je pozvan.

Desktruktor druge klase je pozvan.

Desktruktor prve klase je pozvan.

Iz njega jasno vidimo da destruktore ne pozivamo, ne prosleđujemo nikakve vrednosti, ali da oni vrše realizaciju bez obzira što mi to nismo uradili [1].

Šta u stvari destruktori rade prilikom realizacije?

Destruktor implicitno poziva metodu Finalize na osnovu bazne klase objekta. Ako pogledamo naš primer klase Auto, upotreba destruktora će se implicitno prevesti u sledeći kod:

protected override void Finalize()

{ try

{

// naredbe cišcenja

} finally {

base.Finalize();

} }

## 3.3. Ključna reč *this*

Ključna reč *this* odnosi se na trenutnu instancu neke klase (ili drugog objekta). ***this* je skriveni pokazivač (pointer) na svaku nestatičku metodu neke klase.**

Postoje tri slučaja upotrebe ključne reči *this*:

1. slučaj upotrebe: U svrhu kvalifikacije instance ako se ona zove isto kao i parametar koji se prosleđuje nekoj metodi, pa tada *this* omogućava da se odredi na koju se vrednost misli.

public void NasMetod (int varijabla)

{ this.varijabla = varijabla;

}

1. slučaj upotrebe: U svrhu prosleđivanja trenutno aktivnog objekta kao parametra drugoj metodi.

public void FirstMethod(OtherClass otherObject)

{ otherObject.SecondMethod(this);

}

Ovaj primer uspostavlja dve klase; prva – klasa koja ima metodu FirstMethod(), i druga – klasa *OtherClass* koja ima metodu *SecondMethod()*.

Ako unutar prve metode želimo da pozovemo metodu koja pripada drugoj klasi, tada tu drugu metodu moramo pozvati iz te druge klase. Tu klasu ne možemo koristiti preko njenog naziva, nego moramo proslediti parametar – varijablu koja je tipa *OtherClass*.

1. slučaj upotrebe: korišćenjem indeksera Primer korišcenja ključne reči *this*:

Ako *this* koristimo u svrhu odredivanja čije svojstvo (property) će se koristiti:

label4.Text = this.ImePrezimeStudenta;

Gornjom naredbom u tekstu labele label4 će se ispisati vrednost svojstva ImePrezimeStudenta koje pripada aktuelnoj klasi (u kojoj se nalazi ta metoda i naredba).

textBox1.Text = this.Ocena;

Gornjom naredbom u tekstu textBox1 će se ispisati vrednost svojstva *Ocena* koje pripada aktuelnoj klasi (u kojoj se nalazi ta metoda i naredba) [1].

## 3.4. Enkapsulacija podataka

U drugom poglavlju smo već pominjali enkapsulaciju i koja je prednost „sakrivanja“ podataka u odnosu na proceduralno programiranje. Da se podsetimo: Enkapsulacija je koncept po kojem je informacija u klasi zaštićena od direktnog pristupa i jedini način da se promeni je kroz definisane metode. Ovakav koncept programiranja naziva se „crna kutija“ – poznat je ulaz i izlaz, ali ne i proces koji se odvija unutar funkcije.

Enkapsulacija se ostvaruje podelom članova klase na javne i privatne. Javni članovi mogu slobodno da se koriste u bilo kom delu programa (van tela same klase), dok su privatni dostupni samo u okviru klase u kojoj su definisani.

Polja su najčešće privatna, dok su metode većinom javne. Poljima ćemo pristupati pomoću get i set metode, tj. pomoću pametnih polja (propretis-a tj. „svojstva“) [1].

## 3.5. Propertiji (svojstva)

Svojstva (ili još i pametna polja) ili preciznije propertiji su članovi strukture, klase, interfejsa koji obezbeđuju fleksibilan mehanizam za čitanje, pisanje ili izračunavanje vrednosti nekog polja.

Propertiji liče na polja ali se ponašaju kao metode. Propertije koristite kao da su članovi javnih promenjivih, ali imajte u vidu da su propertiji posebne metode koje zovemo i *Accessors* – pristupne metode. Savetujemo svakog programera da uvek koriste propertije umesto javno promenjivih u svojim klasama i radi bezbednosnih razloga. Propertije možete koristiti samo za čitanje, samo za pisanje, i za čitanje i pisanje. Kraće pisanje propertija nazivamo auto propertiji. Tokom evolucije

C# programskog jezika do danas verzije 6.0; propertiji su napredovali do toga da danas možete inicijalizovati vrednost auto propertijima ili pisati auto propertije samo za čitanje.

Opšti oblik propertija je:

public class ImeKlase

{

private tip\_podatka propreti\_promenljiva; public tip\_podatka Ime\_propretija

{

get {return propreti\_promenljiva;} set { propreti\_promenljiva = value;}

}

}

Naravno, ova sintaksa se odnosi na svojstvo koje se čita i piše. Kad vam treba propertij samo za čitanje izostavite set metodu iz propertija ili ako vam treba properti samo za pisanje, izostavite get metodu iz propertija. Imajte u vidu kada imate propertij samo za čitanje da taj properti možete samo čitati, dok propertij za pisanje možete koristiti samo za pisanje, ali ne možete videti šta piše. Postavlja se pitanje zašto bi onda neko uopšte koristio properti samo za pisanje. To se uglavnom radi kada želite da koristite properti za skrivene informacije poput šifre. Pisanje na kraći način propertija se zove auto propertiji i sintaksa za auto properti je sledeća:

public tip\_podatka Ime\_propretija {get; set;}

Piše se bez tačke – zareza (*;*) iza veliki zagrada za kraj reda. Propertiji mogu biti u domenu *public*, *private* ili *protected*. Metode propertija ne moraju da se posebno deklarišu, ali zato metoda *get* ili *set* može biti definisan drugačije od propertija. Samo jedna metoda get ili set može biti drugačije definisana, ali morate voditi računa da modifikator ne sme da bude manje restriktivan od pristupa svojstvu. Npr. ako je properti deklarisan kao *private*, ne možete njegovu metodu *set* ili *get* definisati kao *public*, dok obratno možete.

U propertijima možete imati samo jednu *get* i samo jednu *set* metodu. Propertije ne možete da koristite kao ref ili out argument u metodi i properti ne može da sadrži druge metode, polja ili svojstva. Pristupne metode *get* i *set* ne mogu da imaju parametre niti možete da deklarišete properti kao konstantu. Podatak koji se dodeljuje propertiju se automatski prosleđuje pristupnoj metodi set koristeći uvek promenjivu koja se zove *value*. Ona ne može imati drugi naziv [1].

Primer:

public class Class1

{

private string ime; public string Ime

{

get {return ime;} set {ime = value;}

}

public string Prezime {get; set;}

}

## 3.6. Preklapanje metode u klasi

Često se dešava da dolazi do preklapanja imena metoda.

Potpis metode određen je njenim imenom i listom parametara. Dve metode imaju različite potpise ako nemaju identične liste parametara i ime. Liste parametara mogu da se razlikuju po broju i tipovima parametara.

Primer:

public int zbirParametara (int br1)

{ return br1;

}

public int zbirParametara (int br1, int br2)

{ return br1 + br2;

}

public int zbirParametara (int br1, int br2, int br3)

{ return br1 + br2 + br3;

}

Klasa može da ima proizvoljan broj metoda, ali s različitim potpisom [5].

## 3.7. Pojam parcijalne klase

Klasa može da sadrži više metoda, polja i konstruktora. Neke klase mogu biti glomazne. Zato, u jeziku C# postoji mogućnost da podelite izvorni kod klase u nekoliko odvojenih fajlova (datoteka) tako da neka glomazna klasa može da se organizuje kao skup nekoliko manjih klasa.

Kada se neka klasa podeli u nekoliko fajlova, onda se definišu tzv. „parcijalne klase“ pomoću ključne reči ***partial***.

Primer: Klasa Datum može da se podeli u dva fajla: *Datum1.cs* (koja sadrži konstruktore) i *datum2.cs* (koja sadrži metode i polja):

partial class Datum

{

public Datum(){ } // podrazumevani konstruktor public Datum(){ ... } // nepodrazumevani konstruktor

}

partial class Datum

{

public int godina, mesec, dan; public int Dan ()

{

return dan;

}

}

# 4. Rukovanje izuzecima

## 4.1. Rukovanje, prijavljivanje i prihvatanje (obrada) izuzetaka

Greške su uvek moguće, mogu nastati u bilo kom trenutku izvršavanja programa. Ovom činjenicom stalno moramo da se rukovodimo. Upravo zbog ove činjenice postoji glavna razlika izmedu dobrog i lošeg softvera, odnosno, dobrog i lošeg programa. Dobar program je onaj koji je u stanju da identifikuje i obradi nastalu grešku. Jedan od načina obrade grešaka je i obrada izuzetaka.

U .NET Frameworku postoji ugrađeni mehanizam koji obrađuje izuzetke. Njegove osnovne karakteristike su:

* služi za obradu grešaka,
* pruža dovoljno informacija o nastaloj grešci,
* omogućava da se za svaki tip greške kreira odgovarajući način obrade, • omogućava odvajanje logike programa od koda kojim se obrađuju greške,
* bazira se na predstavljanju izuzetaka pomoću objekata.

Kod tradicionalne provere grešaka morali smo da pišemo kod sličan ovome:

int kodGreške = 0;

FileInfo izvor = new FileInfo(“kod.cs”); if (kodGreške == -1) goto greška; int dužina = (int)izvor.Length; if (kodGreške == -2) goto greška; char[] sadržaj = new char[dužina]; if (kodGreške == -3) goto greška; ... greška: ...;

Vrednost promenljive kodGreške ukazuje na to da li je nastala greška, i ako jeste, kog je tipa. Kod ovakvog pristupa ispoljilo se dosta nedostataka, kao na primer:

* logika i obrada grešaka se prepliću,
* instrukcije za otkrivanje grešaka su veoma slične,
* sve one testiraju istu promenljivu (kodGreške) korišćenjem naredbe *if*,
* dosta ponovljenog koda,
* kodovi grešaka sami po sebi nisu jasni,
* šta označava vrednost -1 ?
* vrednost koda greške, celobrojna vrednost, nema eksplicitno značenje odnosno ne opisuje grešku koju predstavlja,
* gledanje dokumentacije je zamorno i podložno greškama,
* kodovi grešaka se lako mogu predvideti,
* česta je situacija da se provera koda greške zanemari, a samim tim i obrada greške,
* potreban je fleksibilniji mehanizam koji pruža dovoljno informacija o grešci.

Da bi se prevazišao problem nedostatka informacija o nastalim greškama, .NET definiše niz različitih klasa izuzetaka. Kako bismo mogli uopšte da pričamo dalje, potrebno je da definišemo šta je to izuzetak. Izuzetak je objekat koji se kreira ili podiže (*throw*) kada dođe do određene greške i sadrži informacije koje bi trebale omoguće identifikaciju greške. Za potrebe obrade izuzetaka kreirana je kompletna hijerarhija klasa koje se bave isključivo izuzecima.

Osnovne karakteristike ovih klasa su da svaka klasa može da se nađe unutar posebne izvorne datoteke i nezavisna je od drugih klasa i svaka klasa može da sadrži i njoj svojstvene podatke (npr.

*FileNotFoundException* klasa mogla bi da sadrži ime datoteke koja nije pronađena).

Ove klase obezbeđuju sledeće prednosti:

* poruke o greškama se više ne predstavljaju brojevima, umesto njih koriste se odgovarajuće klase izuzetaka (npr. *OutOfMemoryException* klasa umesto -3) i
* generišu se deskriptivne poruke o greškama. Svaka klasa se odnosi na određenu grešku i daje dovoljno jasan opis.

U hijerarhiji postoje dve osnovne klase koje nasleduju *System.Exception*:

* *SystemException* klasa - klasa iz koje se direktno ili indirektno izvode sve klase sistemskih izuzetaka i
* *ApplicationException* klasa - klasa iz koje se direktno ili indirektno izvode sve korisnički definisane klase izuzetaka.

Specifičnost ove hijerarhije klasa izuzetaka se ogleda u tome što većina klasa nema nikakvu dodatnu funkcionalnost u odnosnu na svoje osnovne klase. Kada je reč o obradi izuzetaka najčešći razlog nasleđivanja je da se ukaže na specifičnosti pojedinih grešaka i stoga nema potrebe da se dodaju nove metode ili pregaze nasleđene (iako nije redak slučaj dodavanja novih svojstava koja pružaju dodatne informacije o greškama).

Princip korišćenja ovih klasa na obradi izuzetaka je sledeći:

Kritični kod se deli na tri dela i to:

* *try* blok sadrži kod koji se odnosi na logiku programa u kome se mogu javiti ozbiljne greške,
* *catch* blok sadrži kod koji obrađuje različite tipove grešaka.
* *finally* blok sadrži kod kojim se oslobađaju resursi ili preduzimaju bilo kakve druge akcije koje bi trebalo da budu izvršene na kraju *try* ili *catch* blokova. Veoma je važno znati da se ovaj blok izvršava u svakom slučaju (bez obzira na to da li je podignut izuzetak).

Tok izvršavanja je sledeći:

* tok izvršavanja prelazi na *try* blok,
* ukoliko ne dođe do bilo kakve greške, izvršavanje se normalno nastavlja sve do kraja ovog bloka kada se izvršavanje prenosi na *finally* blok. Međutim, ukoliko dođe do greške unutar try bloka izvršavanje se prenosi *catch* blok,
* u *catch* bloku se vrši obrada greške,
* na kraju catch bloka izvršavanje se automatski prenosi na finally blok,
* *finally* blok se izvršava.

Načelno, realizacija hvatanja izuzetaka se realizuje prema sledećem:

try

{

//logika programa

} catch

{

// obrada greške

} finally

{

// oslobadjanje resursa

}

I pored ovoga, moguće je da nam *finally* blok nije potreban, pa se on može izostaviti. Takođe, moguće je da imamo potrebu da obradim više tipova izuzetaka u jednom problematičnom *try* bloku. U tom slučaju možemo kreirati situaciju sa višestrukim *catch* blokovima.

Najjednostavniji primer je prilikom parsiranja ulaza i deljenja tih brojeva.

try

{

int i = int.Parse(Console.ReadLine()); int j = int.Parse(Console.ReadLine()); int k = i / j;

}

catch (OverflowException izuzetak1)

{

Console.WriteLine(izuzetak1);

}

catch (DivideByZeroException izuzetak2)

{

Console.WriteLine(izuzetak2);

}

Takođe, možemo imati i potrebu da definišemo izuzetak za koji ne znamo njegovu prirodu. U tom slučaju ćemo koristiti opšti *catch* blok.

Primer korišcenja opšteg *catch* bloka:

catch (Exception izuzetak)

{

//kod koji rukuje sa bilo kojim izuzetkom

}

## 4.2. Često korišćene klase izuzetaka

*ArithmeticException* – osnovna klasa za izuzetke koji nastaju prilikom izvršavanja aritmetičkih operacija kao što su DivideByZeroException i OverflowException.

*DivideByZeroException* – podiže se prilikom pokušaja deljenja celobrojne vrednosti nulom.

*ArrayTypeMismatchException* – podiže se prilikom pokušaja da se u niz ubaci elemenat čiji tip nije kompatibilan sa tipom elemenata niza.

*IndexOutOfRangeException* – podiže se prilikom pokušaja pristupa nepostojećem elementu niza. *InvalidCastException* – podiže se kada eksplicitna konverzija osnovnog tipa ili interfejsa u izvedeni tip ne može da se izvrši.

*NullReferenceException* – podiže se prilikom pokušaja korišćenja nepostojećeg objekta (vrednost reference je *null*).

*OutOfMemoryException* – podiže se prilikom neuspešnog pokušaja alociranja memorije (putem *new*).

*OverflowException* – podiže se kada aritmetička operacija izazove overflow (ukoliko je checked opcija uključena).

*StackOverflowException* – podiže se kada nema više mesta na steku usled prevelikog broja pozvanih metoda (npr. rekurzija).

*FileNotFoundException* – podiže se prilikom pokušaja da se pristupi datoteci koja ne postoji.

*ArgumentException* – podiže se kada vrednost nekog od prosleđenih parametara nije ispravna. *ArgumentNullException* – podiže se kada se kao vrednost parametra prosledi *null* vrednost, a to nije dozvoljeno.

# 5. Izvedene klase

## 5.1. Izvedene klase

Izvedene klase smo već obradili u drugom poglavlju kada smo govorili o nasleđivanju, tako da u ovom poglavlju nema potrebe da ponavljamo. Na slikama 15 i 16 koje se nalaze u drugom poglavlju govorili smo o izvedenim klasama. Izvedena klasa se dobija nasleđivanjem svih članova bazne klase.

## 5.2. Apstraktna klasa

Kada uređujete klase u hijerarhiju nasleđivanja, obično su „više” klase apstraktnije i uopštenije, dok su „niže” klase konkretnije i specifičnije. Često polazna klasa i nema instance, već služi kao izvor informacija koje podklase koriste. Ovakve klase se nazivaju apstraktnim i deklarišu se pomoću ključne reči ***abstract***.

Definicija apstraktne klase izgleda ovako:

public abstract class ApstrakntaKlasa

{

...

}

**Apstraktne klase ne mogu da imaju objekte**. Ukoliko pokušate da kreirate instancu apstraktne klase, izazvaćete grešku kompajlera. Međutim, one mogu da sadrže sve što i normalne klase, uključujući klasne i objektne promenljive i metode sa bilo kojim nivoom zaštite [1].

Primer:

using System;

namespace ApstraktneKlase

{

public interface IRacun

{

void IsplatiSaRacuna(double iznos); void UplatiNaRacun(double iznos); string VratiPodatkeORacunu(); double VratiStanje();

}

public abstract class AbstractRacun : ApstraktneKlase.IRacun

{

private double stanje; private string brojRacuna;

public AbstractRacun(string brojRacuna) : this(brojRacuna, 0) { }

public AbstractRacun(string brojRacuna, double pocetnoStanje)

{

this.brojRacuna = brojRacuna; this.stanje = pocetnoStanje;

}

public double VratiStanje()

{

return stanje;

}

public void UplatiNaRacun(double iznos)

{

stanje += iznos - ProvizijaNaUplatu(iznos);

}

public void IsplatiSaRacuna(double iznos)

{

stanje -= iznos + ProvizijaNaIsplatu(iznos);

} protected abstract double ProvizijaNaUplatu(double iznos); protected abstract double ProvizijaNaIsplatu(double iznos);

public virtual string VratiPodatkeORacunu()

{

string podaci = "Racun broj: " + brojRacuna + "\nIznos na racunu: " + stanje;

return podaci;

}

public class TekuciRacun : AbstractRacun

{

public TekuciRacun(string brojRacuna) : base(brojRacuna) { }

public TekuciRacun(string brojRacuna, double pocetnoStanje) :

base(brojRacuna, pocetnoStanje) { }

protected override double ProvizijaNaUplatu(double iznos)

{

return 0;

}

protected override double ProvizijaNaIsplatu(double iznos)

{

double obracunataProvizija = 100 + (iznos \* 3 / 100); return obracunataProvizija;

}

public override string VratiPodatkeORacunu()

{

return base.VratiPodatkeORacunu() + "\nTip racuna: TEKUCI";

}

}

public class DevizniRacun : AbstractRacun

{

public DevizniRacun(string brojRacuna) : base(brojRacuna) { } public DevizniRacun(string brojRacuna, double pocetnoStanje) : base(brojRacuna, pocetnoStanje) { }

protected override double ProvizijaNaUplatu(double iznos)

{

double obracunataProvizija = 100 + (iznos \* 5 / 100); return obracunataProvizija;

}

protected override double ProvizijaNaIsplatu(double iznos)

{

double obracunataProvizija = 100 + (iznos \* 5 / 100); return obracunataProvizija;

}

public override string VratiPodatkeORacunu()

{

return base.VratiPodatkeORacunu() + "\nTipRacuna: DEVIZNI";

}

}

public static void Main(string[] args)

{

AbstractRacun[] racuni = new AbstractRacun[2]; racuni[0] = new TekuciRacun("392-411232-417", 0); racuni[1] = new DevizniRacun("396-411232-417", 0); for (int i = 0; i < 2; i++)

{

Console.WriteLine("Uplata na " + i + ". racun u iznosu od 1000"); racuni[i].UplatiNaRacun(1000);

Console.WriteLine("Podaci o racunu posle uplate: \n" + racuni[i].VratiPodatkeORacunu());

Console.WriteLine();

}

} }

## 5.3. Interfejsi i nasleđivanje interfejsa

Interfejs predstavlja „ugovor“ kojim se garantuje da će se klasa, koja je nasledila taj interfejs, ponašati na određeni način. Dakle, klasa garantuje da prodržava metode, svojstva (*properties*), događaje (*events*) i indeksere nekog interfejsa. **Sintaksno interfejs predstavlja klasu koja sadrži samo apstraktne metode.**

Sintaksa za implementaciju interfejsa izgleda ovako:

class PrimerKlasa : PrimerInterface

{ ...

}

Kada klasa implementira interfejs, ona mora da implementira sve njene metode.

Moguće je da jedna klasa implementira više interfejsa [1].

NAPOMENA: Višestruko nasleđivanje klasa nije dozvoljeno u C#, ali jeste višestruko nasleđivanje interfejsa.

Primer:

using System;

interface IBazniInterface

{

void BazniInterfaceMetod();

}

interface IMojInterface : IBazniInterface

{

void MetodaZaImplementaciju();

}

class InterfaceImplementer : IMojInterface

{

static void Main()

{

InterfaceImplementer iImp = new InterfaceImplementer(); iImp.MetodaZaImplementaciju(); iImp.BazniInterfaceMetod();

}

public void MetodaZaImplementaciju()

{

Console.WriteLine("MetodaZaImplementaciju() je pozvana.");

} public void BazniInterfaceMetod()

{

Console.WriteLine("BazniInterfaceMetod() je pozvan.");

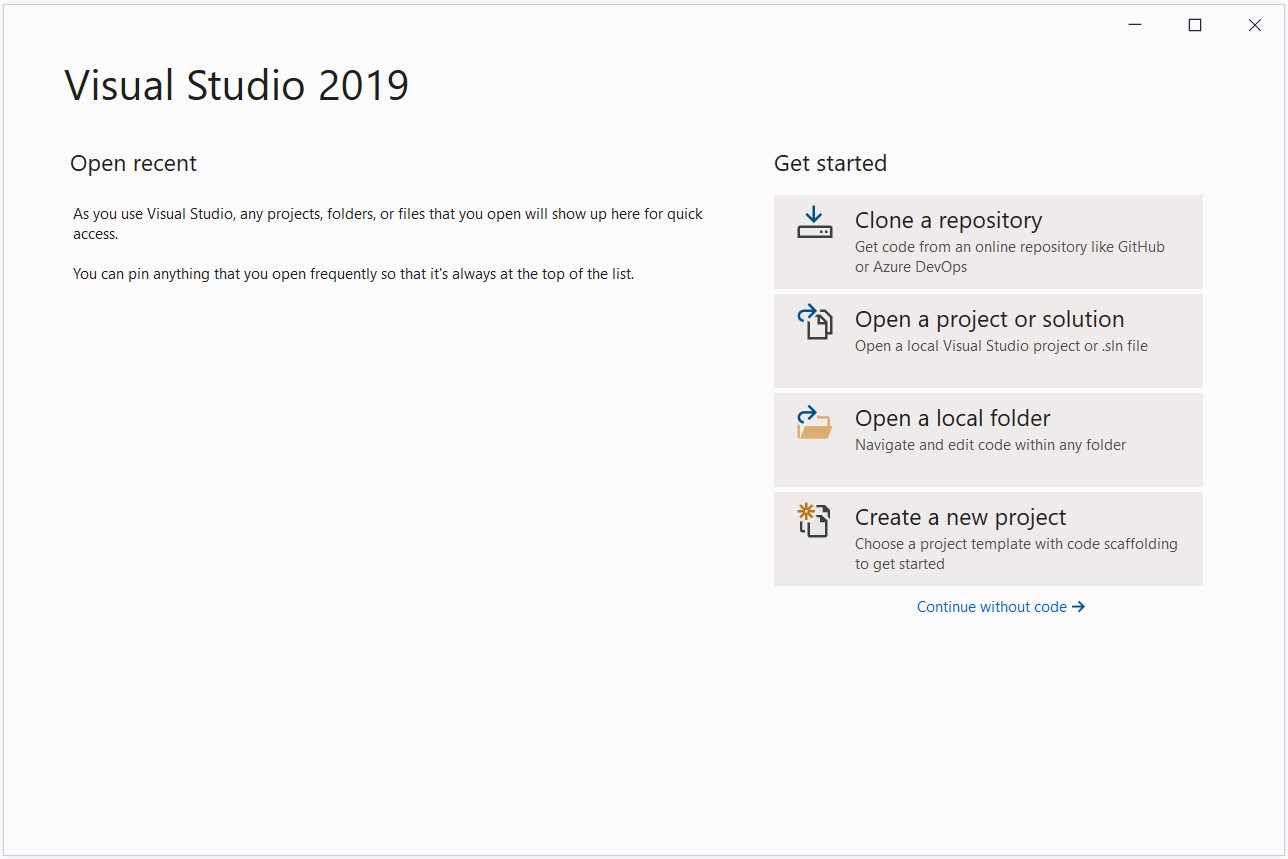
}

}

# 6. Biblioteka komponenata

## 6.1. Izrada projekta – Kreiranje WinFoms aplikacije u Visual Studio

Startovati MS Visual Studio 2019 [3].

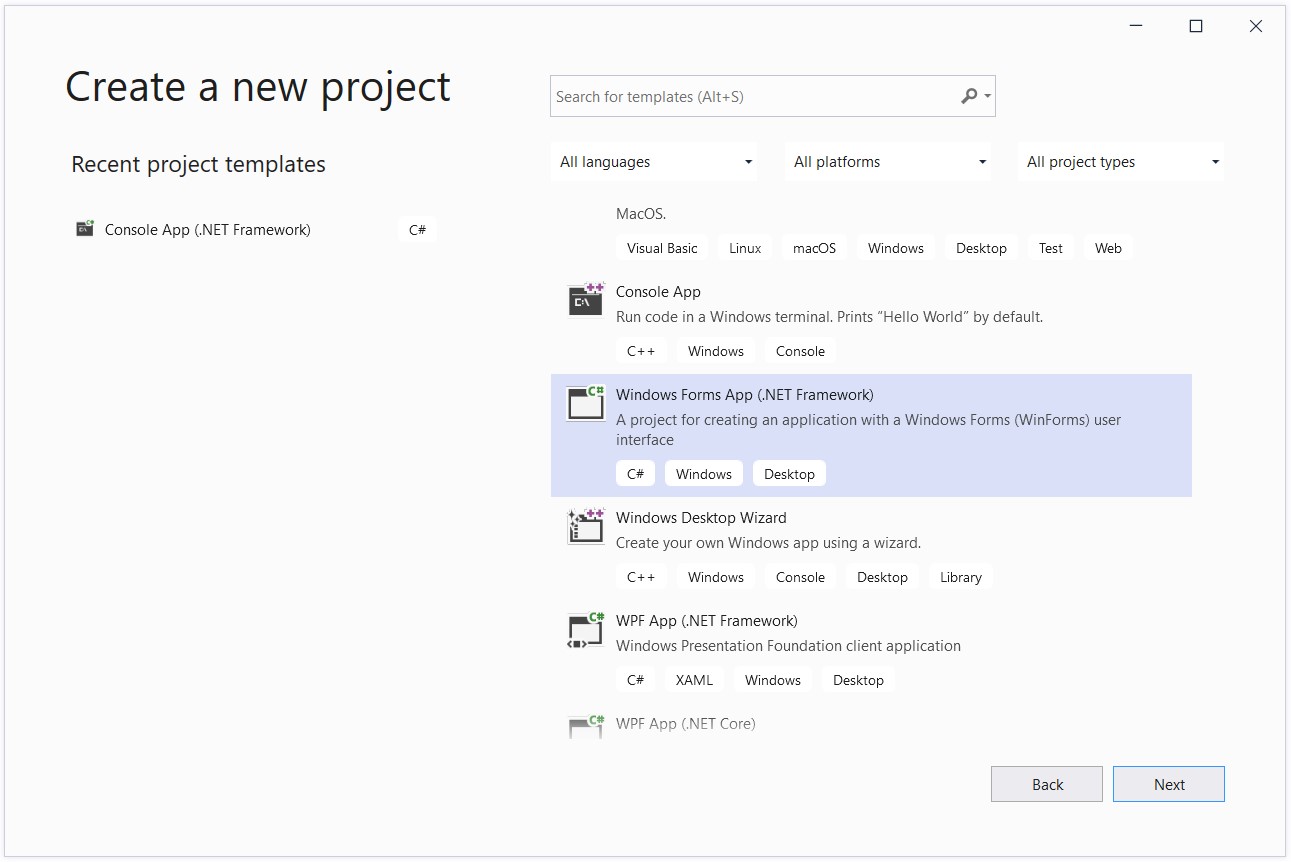


***Slika 17.*** *Izgled osnovnog prozora u MS Visual Studio okruženju*

## 6.2. Forma – Definisanje projekta kao WinForms

Da bi se kreirao projekat, potrebno je izabrati i tip aplikacije koja će se razvijati. Sa leve strane slike 18 se nalaze kategorije, dok se u centralnom delu, u zavisnosti od izabrane kategorije, prikazuju tipovi aplikacija. WinForms aplikacije spadaju u grupu Windows desktop aplikacija, pa u levom delu treba tu kategoriju i selektovati, a u centralnom delu izabrati opciju *Windows Forms Application.*

U donjem delu se definiše naziv projekta (polje *Name*), kao i lokacija (*Browse*). *Solution Name* je podrazumevano identičan nazivu projekta, ali je moguće definisati i neki drugi naziv. To je naziv koji će se videti u *Solution Explorer*-u (slika 19) [3].

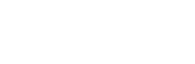
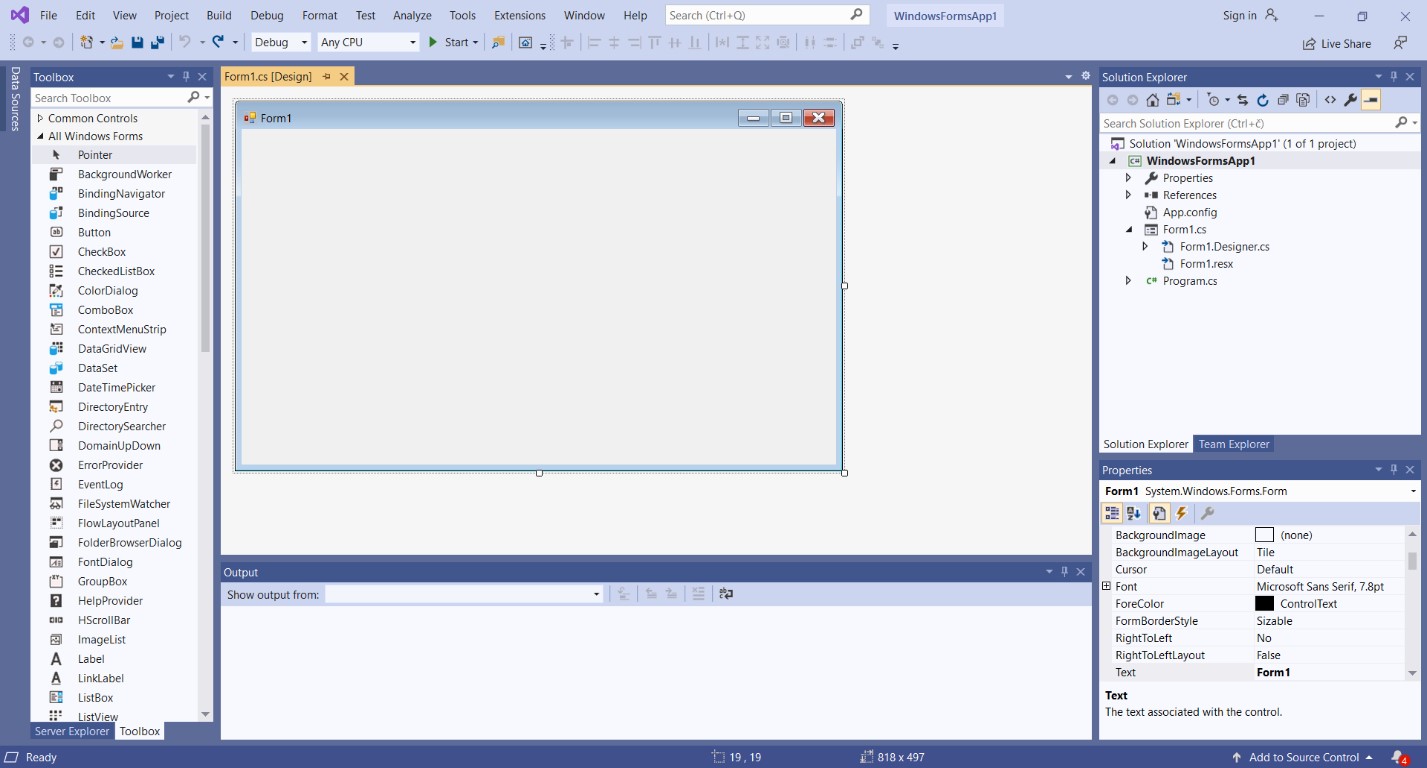


***Slika 18.*** *Izbor tipa projekta*

## 6.3. Izgled radne površine

Na slici 19 je prikazan izgled radne poršine. Sa leve strane se nalazi paleta sa kontrolama (*Toolbox*), koji je radi lakšeg pregleda podeljen po kategorijama. Centralni deo se sastoji iz dva dela. Gornji deo služi za pregled i manipulaciju u *Design* modu (fizički izgled formi) ili implementaciju klasa, događaja, metoda itd. direktnim kucanjem C# koda (ekstenzija .*cs*). U donjem delu se vidi spisak grešaka i upozorenja (*Error* *List*) i izlaznih vrednosti (*Output*). Error

List je bitan deo jer sadrži spisak svih sintaksnih grešaka obeleženih crvenim kružićem sa belim znakom putače (x) u sredini. Svaka stavka u toj listi (*Errors*) sadrži tačnu lokaciju gde se nalazi u kodu (redni broj linije koda), kao i opis same greške. Dokle god kod sadrži neku od Error-a neće moći da se startuje (tj. moći će da se startuje sa prikazom prozora u kome obaveštava korisnika da postoje greške i da aplikacija neće validno raditi). U ovom delu se prikazuje i spisak upozorenja (*Warnings*) koja upućuju na moguće greške u *run time* modu (u toku samog izvršavanja programa). Na primer, može doći do deljenja sa nulom, ili da je moguće da neka promenljiva nije inicijalizovana. Aplikacija može da se validno startuje ako ima upozorenja, s tim da su ona ’’sigurno obezbeđena’’ u samom C# kodu od strane programera [3].

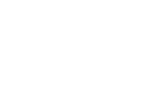


Okvir sa

kontrolama



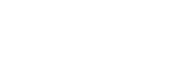
Izgled forme



Pregled

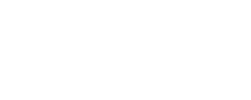
organizacije

projekta



Lista grešaka i

upozorenja



Podešavanje

osobina i događaja

kontrola



osobine



događaji

***Slika 19.*** *Osnovna radna površina*

Desni deo radne površine (slika 19) je podeljen na dva dela. U gornjem delu je prikazan *Solution*

*Explorer* koji sadrži prikaz logičke organizacije projekta (spisak fajlova i foldera prikazanih u vidu stabla). Kao što se na pomenutoj slici vidi, svaka forma ima ekstenziju .cs i sadrži tri fajla:

* sa ekstenzijom .Designer.cs  čije se ime automatski menja, tj. ubacuje mu se odgovarajući C# kod (npr. kad se prevuče kontrola iz *Toolbox*-a na formu ili kada se podese svojstva kontrole pomoću *Properties* prozora),
* sa ekstenzijom .resx  za dodavanje dodatnih resursa,
* klasa  koja sadrži izgled (opis) same klase (polja i metode) [3].

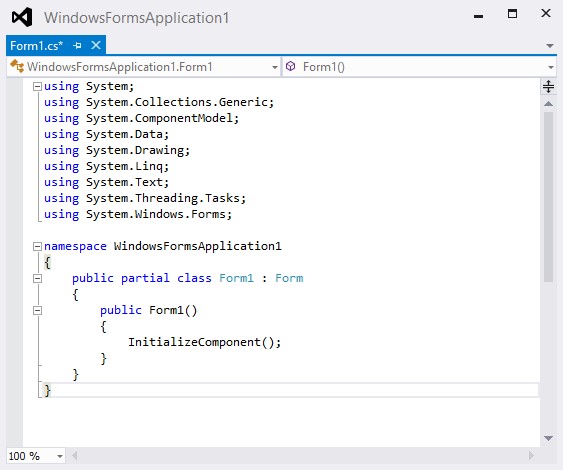
Donji desni deo radne površine (slika 19) sadrži prikaz *Properties* prozora koji omogućava „ručno“ podešavanje osobina i događaja kontrola sa forme. U zavisnosti koja kontrola je na formi selektovana taj prozor se menja, jer različite kontrole imaju različite osobine i događaje. Za sve što se ovde podesi automatski se generiše odgovarajući kod koji se smešta u fajl sa ekstenzijom

.Designer.cs za odgovarajuću formu [3].

## 6.4. Otvaranje prozora za pisanje koda

Kao što je ranije napomenuto, neki delovi koda se automatski generišu i to je najčešće deo vezan za fizički izgled forme i kontrola. Ali samu „živost“ aplikaciji daju događaji (akcije) koje se izvršavaju kada korisnik inicira neku akciju (klik mišem, izbor *radio button*-a, selekcija stavke u padajućoj listi itd.). Sve ovo programer mora iskodirati direktnim kucanjem C# koda.

Kako bi se otvorio prozor za pisanje koda, potrebno je u Solution Explorer-u desnim klikom miša kliknuti na formu za koju se želi pisati kod (npr. Form1.cs) i izabrati opciju View Code. Pri čemu se otvara prozor sličan ovom koji je prikazan na slici 20 [3].



***Slika 20.*** *Prozor za pisanje koda*

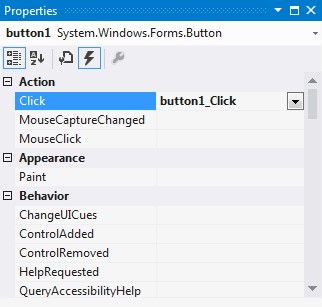
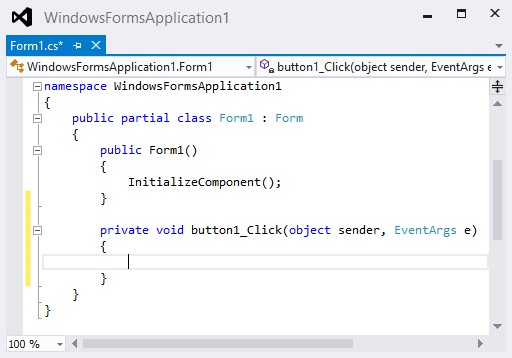
Na pomenutoj slici je prikazan *default*-ni kod koji je automatski generisan u fajlu Form1.cs.

## 6.5. Događaji

Kako bi se „oživela“ kontrola neophodno je inicirati željeni događaj za nju. Ovo se postiže sledećim postupkom: Na formi (u Design-u) selektovati kontrolu za koju se želi aktivirati događaj.

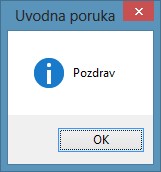
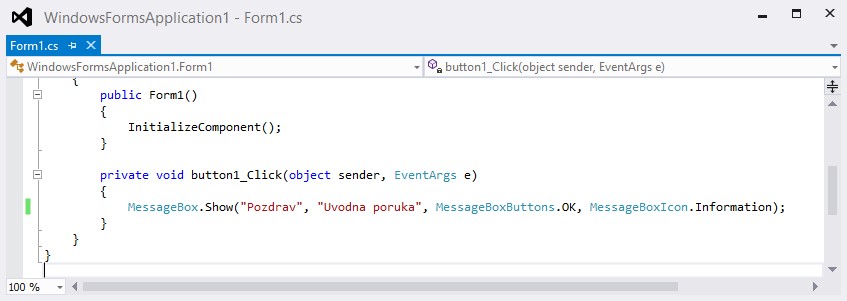
Potom sa desne strane u Properties prozoru prebaciti se na događaje (klik na znak munje ) i na kraju izabrati odgovarajući događaj iz spiska dostupnih događaja za tu kontrolu. Slika 21 prikazuje aktivaciju događaja *Click* za Button kontrolu.

Dupli klik na naziv izabranog događaja otvara se prozor za pisanje koda uz generisano zaglavlje događaja koji se implementira (slika 22).

***Slika 21.*** *Aktivacija događaja* ***Slika 22.*** *Automatski generisano zaglavlje događaja*

Na slici 23. je prikazan deo koda koji omogućava prikaz poruke u Message Box-u (slika 24) kada se klikne na Button (odnosno kada se u run-time inicira događaj Click za kontrolu Button). Telo događaja (tj. metode koja se poziva kada se inicira događaj) programer kuca sam [3].



#### Slika 23. Implementacija događaja Slika 24. Izlazni prozor

Za svaku kontrolu koja je planirana da se obrađuje u okviru predmeta Programiranje 3, tabelarno će se prikazati svi događaji te kontrole.

### 6.5.1. Događaji miša

U nameri da ne ponavljamo ono što svi znaju nećemo da objašnjavamo šta je miš i kako radi. Pomenućemo samo osnovne događaje vezane za ovaj uređaj koji služi za unos podataka.

Upotreba miša dovodi do: promene pozicije kursora, pritisak tastera (levo, desno, srednje), otpuštanje istih tastera i na kraju skrolovanje ako miš ima točkić. Takođe, posebno se detektuje i dvosturki klik. Pritisak na levi taster je *Click*, a na desni *Right-Click*.

MouseDown je poruka koja se događa kada se pritisne levi taster miša. *MouseEventArgs* je tip ove poruke. Analogno je i za otpuštanje tastera tj. *MouseUp*, odnosno *MouseEventArgs* koji se prosleđuje *MouseEventHandler* na obradu. Pomeraj miša se detektuje porukom *MouseMove* [6].

### 6.5.2. Događaji tastature

Posebna klasa događaja koje windows kontrole obrađuju su događaji sa tastature. Tastatura predstavlja jedan od dva osnovna uređaja za unos podataka u kontrole. Drugi je miš.

Kad god se pritisne neki taster aktivira se događaj *KeyDown*, a tip poruke je *KeyEventArgs*.

Analogno postoji i poruka kada se taster „otpusti” - *KeyUp* i ona je takođe tipa *KeyEventArgs*. Ukoliko korisnika interesuje da detektuje koji karakter je pritisnut, prethodne dve poruke nisu dobar izbor. *KeyPress* poruka se emituje ako korisnik pritisne taster koji je tipa karaktera. Dakle, ovo mora biti neki prepoznatljiv simbol. Mala slova, brojevi, znaci interpunkcije itd. Ukoliko se na primer pritisne *Shift*+5 tj. taster % detektuje se kao jedan karakter tj. *KeyChar*=37 '%' [6].

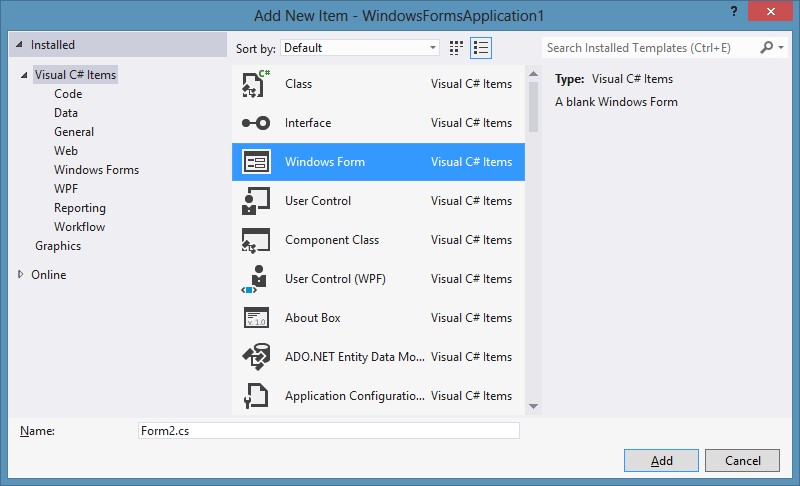
## 6.6. Dodavanje novih *item*-a u projekat

Jedan projekat može sadržati više item-a, tj. foldera i fajlova, najčešće su to klase i forme (kod WinForms aplikacija) [3].

Dodavanje forme je jednostavno, desni klik miša na naziv projekta u *Solution* *Explorer*-u i opcija

*Add/Windows Forms*. Slično je i dodavanje klase, desni klik miša na naziv projekta u *Solution* *Explorer*-u i opcija *Add/Class* [3].

Analogno se dodaje item bilo kog tipa, desni klik miša na naziv projekta u *Solution* *Explorer*-u i opcija *Add/New Item*, pri čemu se prikazuje prozor sa slike 25 [3].



***Slika 25.*** *Dodavanje novog item-a*

## 6.7. *Build* i *run* aplikacije

Pokretanje aplikacije (kompajliranje, tj. prevođenje koda) se vrši izborom opcije *Build* *Solution* ili klik na funkcijski taster F6 što omogućava pokretanje kompajlera. Rezultati kompajliranja se vide na donjoj liniji okvira prozora. Ukoliko je kod napisan bez grešaka, dobija se poruka *Build* *Succeeded*, a ukoliko greške postoje u delu prozora za Error List (donji deo centralnog prozora) se prikazuje opis greške. Sintaksne greške se mogu uočiti i ranije, jer su podvučene crvenom linijom u kodu.

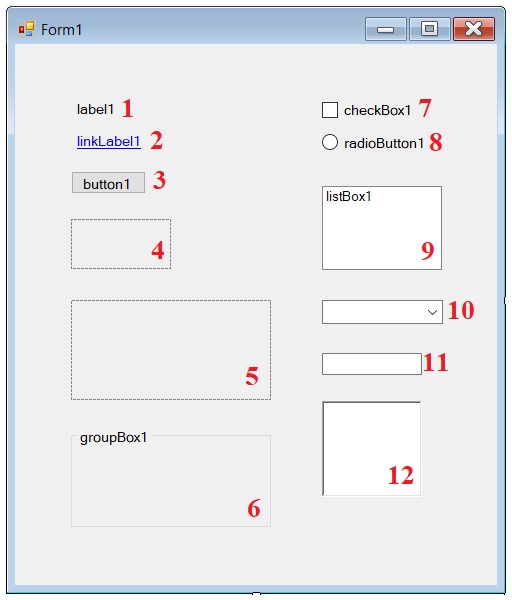
Kada se uklone sve greške iz Error List aplikacija se može „pokrenuti“ tj. startovati. Startovanje se može izvršiti bez pokretanja dibagera (padajuća lista *Debug/Start Without Debugging* ili *Ctrl*+F5) ili sa njim (padajuća lista *Debug/ Debugging* ili *F5*) [3].

## 6.8. Metode

O metodama smo već govorili u trećem poglavlju. Način pisanja metoda je isti kao u trećem poglavlju, kao i imena metode koje postoje u već napravljenim bibliotekama. U Praktikumu rešenih zadataka iz Programiranja 3 više ćemo koristiti i objasniti metode, a za svaku kontrolu koja je planirana nastavnim planom i programom da se radi iz Programiranja 3, tabelarno će se dati sve metede za te kontrole.

## 6.9. Windows kontrole

Na slici 26 su prikazane kontrole koje ćemo obraditi u okviru kursa Programiranje 3.



***Slika 26.*** *Windows kontrole*

U tabeli 6 je pored broja kontrole dato ime kontrole.

#### **Tabela 6.** Windows kontrole

|  |  |
| --- | --- |
| **Broj kontrole sa slike 26** | **Ime kontrole** |
| 1 | Label |
| 2 | LinkLabel |
| 3 | Button |
| 4 | PictureBox |
| 5 | Panel |
| 6 | GroupBox |
| 7 | CheckBox |
| 8 | RadioButton |
| 9 | ListBox |
| 10 | ComboBox |
| 11 | TextBox |
| 12 | RichTextBox |

### 6.9.1. Kontrola Button

[Button](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button?view=netcore-3.1) je Windows kontrola koja se koristi za iniciranje jedne akcije. Akcija se izvodi kada se mišem klikne na dugme. Često se klasično dugme naziva i komandno dugme. Naravno, postoje i druge kontrole koje mogu inicirati akciju tako što se klikne na njih baš kao i kod dugmeta.

Vizuelno, dugme je kontrola od koje korisnik programa očekuje neku akciju kada izvrši „pritisak“ na njega.

Najčešće dugme u Windows aplikacijama je pravougaona kontrola (kontrola broj 3 sa slike 26) koja prikazuje reč ili kratku rečenicu. Tekst na dugmetu obično opisuje akciju koja sledi pritiskom na to dugme. U .Net aplikacijama ova kontrola se realizuje korišćenjem *Button* kontrole. Postavlja se na klasičan način korišćenjem liste *toolbox* ili programski. Kada postavite neko dugme na formu, nadalje možete izvesti njeno podešavanje korišćenjem svojstava ove kontrole preko *Properties* prozora [6].

Na dugme se može kliknuti mišem, tasterom *ENTER* ili *SPACEBAR* ako dugme ima fokus.

Podesite svojstvo forme *AcceptButton* ili *CancelButton* da korisnicima omogući da kliknu na dugme pritiskom na tastere ENTER ili ESC, čak i ako dugme nema fokus.

Kada prikažete formu pomoću metode *ShowDialog*, možete koristiti svojstvo *DialogResult* dugmeta da odredite povratnu vrednost *ShowDialog*.

Najbitnije svojstvo dugmeta za korisnika je poruka na njemu. Ova poruka zapisana je u svojstvu koje se naziva *Text*. Tekst se uvek prikazuje na vrhu kontrole i može biti dodatno formatiran.

Uobičajeno je da opisuje akciju koju dugme pokreće/izvršava. Najčešći tekstovi koje dugmad prikazuju su *OK* i *Cancel*. Poruka *OK* se obično prikazuje na dijalozima koji informišu korisnika o nekoj grešci, nekom stanju, ili je to samo informacija koja zahteva potvrdu od korisnika. Ukoliko se korisniku daje mogućnost da odustane od nastavka neke akcije, obično se nudi *Cancel* dugme.

Naravno, tekst na dugmetu može se programski menjati u toku izvršavanja aplikacije, u zavisnosti od stanja u kome se aplikacija nalazi [6].

Postoji još jedno svojstvo veoma značajno upravo za dugme. To je podrazumevano dugme. Samo jedno dugme na kontejneru kontrola može biti podrazumevano. Ono ima to svojstvo da pritiskom na taster Enter, kada je aktivna forma tog dugmeta, biva pritisnuto, tj. startuje se akcija koju ono inicira. Tačnije, ako neko drugo dugme ima fokus (vidljiv je tačkasti pravougaonik na njemu) izvršiće se akcija tog dugmeta. Inače, izvršava se akcija dugmeta koje je „podrazumevano” (vidljiva je tamna ivica) [6].

Kada korisnik klikne na neko dugme da bi zatvorio dijalog, važno je da u kodu postoji informacija o tome na koje dugme je kliknuto. .Net okruženje pruža mehanizam kojim se može izvesti ova identifikacija. Ovo se postiže korišćenjem svojstva *DialogResult*. Vrednost može biti neka iz određenog skupa koji je definisan. Moguće vrednosti su *None*, *OK*, *Cancel*, *Abort*, *Retry*, *Ignore*, *Yes*, i *No*. Podešavanjem neke od ovih vrednosti preko Properties prozora definišete vrednost koju dijalog vraća, ako se pritiskom na vaše dugme izvede zatvaranje istog dijaloga [6].

U tabeli 7 su data sva svojstva za kontrolu *Button*.

#### **Tabela 7.** Tabela svojstava za kontrolu Button [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultActionDescr iption](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [AutoEllipsis](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autoellipsis?view=netcore-3.1#System_Windows_Forms_ButtonBase_AutoEllipsis) |
| [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autosize?view=netcore-3.1#System_Windows_Forms_ButtonBase_AutoSize) | [AutoSizeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.autosizemode?view=netcore-3.1#System_Windows_Forms_Button_AutoSizeMode) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.backcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_BackColor) |
| [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimage?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImage) | [BackgroundImageLayout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) |
| [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) |
| [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) |
| [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) |
| [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) |
| [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.createparams?view=netcore-3.1#System_Windows_Forms_Button_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) |
| [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.defaultimemode?view=netcore-3.1#System_Windows_Forms_ButtonBase_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSiz](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize)  [e](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) |
| [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.defaultsize?view=netcore-3.1#System_Windows_Forms_ButtonBase_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) |
| [DialogResult](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.dialogresult?view=netcore-3.1#System_Windows_Forms_Button_DialogResult) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [FlatAppearance](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.flatappearance?view=netcore-3.1#System_Windows_Forms_ButtonBase_FlatAppearance) |
| [FlatStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.flatstyle?view=netcore-3.1#System_Windows_Forms_ButtonBase_FlatStyle) | [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) |
| [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolor?view=netcore-3.1#System_Windows_Forms_Control_ForeColor) | [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) |
| [Image](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.image?view=netcore-3.1#System_Windows_Forms_ButtonBase_Image) | [ImageAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagealign?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageAlign) | [ImageIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imageindex?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageIndex) | [ImageKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagekey?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageKey) |
| [ImageList](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagelist?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageList) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imemode?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) |
| [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) | [IsDefault](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.isdefault?view=netcore-3.1#System_Windows_Forms_ButtonBase_IsDefault) | [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) |
| [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) |
| [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) |
| [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) |
| [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) | [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) |
| [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) | [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) |
| [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) |
| [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) | [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstop?view=netcore-3.1#System_Windows_Forms_Control_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.text?view=netcore-3.1#System_Windows_Forms_ButtonBase_Text) |
| [TextAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.textalign?view=netcore-3.1#System_Windows_Forms_ButtonBase_TextAlign) | [TextImageRelation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.textimagerelation?view=netcore-3.1#System_Windows_Forms_ButtonBase_TextImageRelation) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) |
| [UseMnemonic](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usemnemonic?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseMnemonic) | [UseCompatibleTextRendering](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usecompatibletextrendering?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseCompatibleTextRendering) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) |
| [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) | [UseVisualStyleBackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usevisualstylebackcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseVisualStyleBackColor) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) |  |

U tabeli 8 su date sve metode za kontrolu *Button*.

#### **Tabela 8.** Tabela metoda za kontrolu Button [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessib leEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acc essibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) |
| [BeginInvoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) |
| [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_ButtonBase_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) |
| [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) | [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) |
| [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) |

|  |  |  |
| --- | --- | --- |
| [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.dispose?view=netcore-3.1#System_Windows_Forms_ButtonBase_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) |
| [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) |
| [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) |
| [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) |
| [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) |
| [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.getpreferredsize?view=netcore-3.1#System_Windows_Forms_ButtonBase_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) |
| [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) |
| [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) |
| [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) | [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) |
| [Invalidate(Rectangle, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) | [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) |
| [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) | [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [InvokePaintBackground(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) |
| [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) | [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) |
| [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) | [NotifyDefault(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.notifydefault?view=netcore-3.1#System_Windows_Forms_Button_NotifyDefault_System_Boolean_) | [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) |
| [OnAutoSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) | [OnBackgroundImageChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) |
| [OnBackgroundImageLayoutChan ged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) | [OnCausesValidationChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) |
| [OnChangeUICues(UICuesEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.onclick?view=netcore-3.1#System_Windows_Forms_Button_OnClick_System_EventArgs_) | [OnClientSizeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) |
| [OnContextMenuChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) | [OnControlAdded(ControlEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) |
| [OnControlRemoved(ControlEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) | [OnCursorChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) | [OnDpiChangedAfterParent(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) |
| [OnDpiChangedBeforeParent(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) | [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) |
| [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) | [OnEnabledChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onenabledchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnEnabledChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onenabledchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnEnabledChanged_System_EventArgs_) |
| [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.onfontchanged?view=netcore-3.1#System_Windows_Forms_Button_OnFontChanged_System_EventArgs_) | [OnForeColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) |
| [OnGiveFeedback(GiveFeedbackEv entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.ongotfocus?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnGotFocus_System_EventArgs_) | [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandlecreated?view=netcore-3.1#System_Windows_Forms_Control_OnHandleCreated_System_EventArgs_) |
| [OnHandleDestroyed(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) | [OnImeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) |
| [OnInvalidated(InvalidateEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) | [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onkeydown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) |
| [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onkeyup?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnKeyUp_System_Windows_Forms_KeyEventArgs_) | [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) |
| [OnLocationChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) | [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onlostfocus?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) |
| [OnMouseCaptureChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDown(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousedown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.onmouseenter?view=netcore-3.1#System_Windows_Forms_Button_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) |
| [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.onmouseleave?view=netcore-3.1#System_Windows_Forms_Button_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousemove?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousemove?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.onmouseup?view=netcore-3.1#System_Windows_Forms_Button_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.onmouseup?view=netcore-3.1#System_Windows_Forms_Button_OnMouseUp_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseWheel(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) |
| [OnPaddingChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onpaint?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) |
| [nParentBackColorChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) |
| [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onparentchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) |
| [OnParentFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) |
| [OnParentVisibleChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(Preview](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [KeyDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnQueryContinueDrag(QueryCon tinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) |
| [OnRightToLeftChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) | [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) |
| [OnSystemColorsChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) | [OnTabStopChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) |
| [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.ontextchanged?view=netcore-3.1#System_Windows_Forms_Button_OnTextChanged_System_EventArgs_) | [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) |
| [OnVisibleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnVisibleChanged_System_EventArgs_) | [PerformClick()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.performclick?view=netcore-3.1#System_Windows_Forms_Button_PerformClick) | [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) |
| [PerformLayout(Control, String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) | [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) |
| [PreProcessControlMessage(Messa](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [ge)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) | [ProcessCmdKey(Message,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_)  [Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) |
| [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) | [ProcessKeyEventArgs(Messag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__)  [e)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) |
| [ProcessKeyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.processmnemonic?view=netcore-3.1#System_Windows_Forms_Button_ProcessMnemonic_System_Char_) |
| [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) |
| [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) |
| [RectangleToScreen(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) | [RescaleConstantsForDpi(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Button_RescaleConstantsForDpi_System_Int32_System_Int32_)  [2, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Button_RescaleConstantsForDpi_System_Int32_System_Int32_) |
| [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) | [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) |
| [ResetFlagsandPaint()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.resetflagsandpaint?view=netcore-3.1#System_Windows_Forms_ButtonBase_ResetFlagsandPaint) | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(ContentAli gnment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | [RtlTranslateAlignment(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(ContentAlign ment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | [RtlTranslateHorizontal(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(Bitm ap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) |
| [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean, Boolean, Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) |
| [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | [SetAutoSizeMode(AutoSizeM ode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [SetBounds(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)t32, Int32, Int32,  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | [SetClientSizeCore(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) |
| [SetStyle(ControlStyles, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) |
| [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) |
| [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.tostring?view=netcore-3.1#System_Windows_Forms_Button_ToString) | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) |
| [UpdateBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | UpdateBounds(Int32, Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) |
| [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.wndproc?view=netcore-3.1#System_Windows_Forms_Button_WndProc_System_Windows_Forms_Message__) |  |

U tabeli 9 su dati svi događaji za kontrolu *Button*.

#### **Tabela 9.** Tabela događaja za kontrolu Button [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChan](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1)  [ged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) |
| [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) | [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.button.mousedoubleclick?view=netcore-3.1) |
| [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) | [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) |
| [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) | [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) |
| [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) | [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) |
| [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) | [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) |
| [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) | [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) |
| [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) | [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) |
| [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |  |

### 6.9.2. Kontrola RadioButton

Radio dugme ili [RadioButton](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton?view=netcore-3.1) (kontrola broj 8 sa slike 26), neko ga naziva još i opciono dugme, kontrola je kružnog oblika koja se pojavljuje u grupama sa drugima kontrolama istog tipa, tj. više radio dugmadi pojavljuju se zajedno. Svako dugme sastoji se od malog praznog kruga i labele koja opisuje dugme, tj. daje korisniku neku informaciju o akciji. Kada korisnik pritisne jedno od dugmića koji su u grupi, ono dobija oblik , a ostali ostaju prazni. Ovo znači da se grupom radio dugmića realizuje korisnička akcija izbora samo jedne stavke iz grupe [6].

Kontrola RadioButton može prikazati tekst, sliku ili oboje.

Kada korisnik izabere jedno dugme sa opcijama (poznato i kao radio dugme) unutar grupe, ostale se automatski brišu. Sve kontrole *RadioButton*-a u datom okviru, čine grupu. Da bi se stvorile više grupa u jednoj formi, koriste se kontrole *GroupBox* (kontrola broj 6 sa slike 26) ili panel (kontrola broj 5 sa slike 26).

Kontrole *RadioButton* i *CheckBok* imaju sličnu funkciju: nude izbor koji korisnik može odabrati ili obrisati. Razlika je u tome što se istovremeno može odabrati više kontrola *CheckBok*, za razliku od kontrole *RadioButton*, gde je uvek samo jedna kontrola čekirana.

Ovo svojstvo definiše da li je radio dugme selektovano ili ne. Ukoliko jeste, to znači da su sva ostala neselektovana. Osim za čitanje stanja u kome se dugme nalazi isto svojstvo možete upotrebiti i u „suprotnom pravcu”. Ovim svojstvom možete programski podešavati izbor nekog radio-dugmeta [6].

Podrazumevano podešavanje izgleda radio dugmeta je takvo da je ono ispunjeno velikom tačkom ako korisnik selektuje to dugme. Opciono, možete podesiti da ono radi kao *toggle* dugme. Šta to znači? Samo jedno dugme u grupi može biti u donjem položaju (stanje selektovano) dok su ostala u gornjem položaju. Ako se neko drugo dugme pritisne, ono ide dole, a dugme koje je prethodno bilo u donjem položaju ide gore, tj. sva ostala su otpuštena. Promena podrazumevanog prikazivanja ove kontrole izvodi se preko svojstva *Appearance* [6].

U tabeli 10 su data sva svojstva za kontrolu *RadioButton*.

#### **Tabela 10.** Tabela svojstava za kontrolu RadioButton [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultAction](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription)  [Description](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [Appearance](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.appearance?view=netcore-3.1#System_Windows_Forms_RadioButton_Appearance) |
| [AutoCheck](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.autocheck?view=netcore-3.1#System_Windows_Forms_RadioButton_AutoCheck) | [AutoEllipsis](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autoellipsis?view=netcore-3.1#System_Windows_Forms_ButtonBase_AutoEllipsis) | [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autosize?view=netcore-3.1#System_Windows_Forms_ButtonBase_AutoSize) |
| [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.backcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimage?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImage) | [BackgroundImageLayo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout)  [ut](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) |
| [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) |
| [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) |
| [CheckAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.checkalign?view=netcore-3.1#System_Windows_Forms_RadioButton_CheckAlign) | [Checked](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.checked?view=netcore-3.1#System_Windows_Forms_RadioButton_Checked) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) | [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) |
| [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) |
| [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.createparams?view=netcore-3.1#System_Windows_Forms_RadioButton_CreateParams) |
| [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) | [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.defaultimemode?view=netcore-3.1#System_Windows_Forms_ButtonBase_DefaultImeMode) |
| [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) |
| [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.defaultsize?view=netcore-3.1#System_Windows_Forms_RadioButton_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) |
| [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) |
| [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [FlatAppearance](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.flatappearance?view=netcore-3.1#System_Windows_Forms_ButtonBase_FlatAppearance) | [FlatStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.flatstyle?view=netcore-3.1#System_Windows_Forms_ButtonBase_FlatStyle) | [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) |
| [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolor?view=netcore-3.1#System_Windows_Forms_Control_ForeColor) | [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) |
| [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [Image](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.image?view=netcore-3.1#System_Windows_Forms_ButtonBase_Image) | [ImageAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagealign?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageAlign) |
| [ImageIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imageindex?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageIndex) | [ImageKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagekey?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageKey) | [ImageList](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagelist?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageList) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imemode?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImeMode) |
| [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) | [IsDefault](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.isdefault?view=netcore-3.1#System_Windows_Forms_ButtonBase_IsDefault) |
| [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) |
| [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) |
| [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) |
| [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) | [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) |
| [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) | [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) |
| [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) |
| [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) | [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.tabstop?view=netcore-3.1#System_Windows_Forms_RadioButton_TabStop) |
| [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.text?view=netcore-3.1#System_Windows_Forms_ButtonBase_Text) | [TextAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.textalign?view=netcore-3.1#System_Windows_Forms_RadioButton_TextAlign) | [TextImageRelation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.textimagerelation?view=netcore-3.1#System_Windows_Forms_ButtonBase_TextImageRelation) |
| [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UseCompatibleTextRen dering](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usecompatibletextrendering?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseCompatibleTextRendering) | [UseMnemonic](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usemnemonic?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseMnemonic) |
| [UseVisualStyleBackCo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usevisualstylebackcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseVisualStyleBackColor)  [lor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usevisualstylebackcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseVisualStyleBackColor) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) |
| [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |  |  |

U tabeli 11 su date sve metode za kontrolu *RadioButton*.

#### **Tabela 11.** Tabela metoda za kontrolu RadioButton [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessi bleEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acces sibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) |
| [BeginInvoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) |
| [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_RadioButton_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) |
| [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) | [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) |
| [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) |
| [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.dispose?view=netcore-3.1#System_Windows_Forms_ButtonBase_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) |
| [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) |
| [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [2)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) |
| [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) |
| [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.getpreferredsize?view=netcore-3.1#System_Windows_Forms_ButtonBase_GetPreferredSize_System_Drawing_Size_) |
| [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) |
| [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) |
| [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) |
| [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) |

|  |  |  |
| --- | --- | --- |
| [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) |
| [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Cont rol, PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) |
| [OnBackgroundImageChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutCh anged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) |
| [OnCausesValidationChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnCheckedChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.oncheckedchanged?view=netcore-3.1#System_Windows_Forms_RadioButton_OnCheckedChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.oncheckedchanged?view=netcore-3.1#System_Windows_Forms_RadioButton_OnCheckedChanged_System_EventArgs_) |
| [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.onclick?view=netcore-3.1#System_Windows_Forms_RadioButton_OnClick_System_EventArgs_) | [OnClientSizeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) |
| [OnContextMenuStripChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) | [OnControlAdded(ControlEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) |
| [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) | [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) |
| [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) | [OnDpiChangedAfterParent(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) |
| [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) | [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) |
| [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) | [OnEnabledChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onenabledchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnEnabledChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onenabledchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.onenter?view=netcore-3.1#System_Windows_Forms_RadioButton_OnEnter_System_EventArgs_) |
| [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnFontChanged_System_EventArgs_) | [OnForeColorChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) |
| [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.ongotfocus?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnGotFocus_System_EventArgs_) | [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.onhandlecreated?view=netcore-3.1#System_Windows_Forms_RadioButton_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_) |
| [OnHelpRequested(HelpEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) | [OnImeModeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) |
| [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onkeydown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onkeyup?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnKeyUp_System_Windows_Forms_KeyEventArgs_) |
| [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onlostfocus?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMouseCaptureChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) |
| [OnMouseClick(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(MouseE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDown(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousedown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousedown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseDown_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmouseenter?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) | [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmouseleave?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseLeave_System_EventArgs_) |
| [OnMouseMove(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousemove?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousemove?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.onmouseup?view=netcore-3.1#System_Windows_Forms_RadioButton_OnMouseUp_System_Windows_Forms_MouseEventArgs_) | [OnMouseWheel(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) |
| [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) | [OnPaddingChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) |
| [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onpaint?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) | [OnParentBackColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) |
| [OnParentBackgroundImageChan ged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextChang ed(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) | [OnParentChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onparentchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnParentChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onparentchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnParentChanged_System_EventArgs_) |
| [OnParentCursorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) | [OnParentFontChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) |
| [OnParentForeColorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) | [OnParentVisibleChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) |
| [OnPreviewKeyDown(PreviewKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [DownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) | [OnQueryContinueDrag(Quer yContinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) |
| [OnRegionChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) | [OnRightToLeftChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) |
| [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) |
| [OnTabIndexChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) | [OnTabStopChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.ontextchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnTextChanged_System_EventArgs_) |
| [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnVisibleChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnVisibleChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnVisibleChanged_System_EventArgs_) |
| [PerformClick()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.performclick?view=netcore-3.1#System_Windows_Forms_RadioButton_PerformClick) | [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) |
| [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) | [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) |
| [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) | [ProcessCmdKey(Message,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_)  [Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) |

|  |  |  |  |
| --- | --- | --- | --- |
| [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) | | [ProcessKeyEventArgs(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) |
| [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.processmnemonic?view=netcore-3.1#System_Windows_Forms_RadioButton_ProcessMnemonic_System_Char_) | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) |
| [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) |
| [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) |
| [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) | | [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_RadioButton_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_RadioButton_RescaleConstantsForDpi_System_Int32_System_Int32_) | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) |
| [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) | | [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | [ResetFlagsandPaint()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.resetflagsandpaint?view=netcore-3.1#System_Windows_Forms_ButtonBase_ResetFlagsandPaint) |
| [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) |
| [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) | [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) |
| [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) | [RtlTranslateAlignment(Conte ntAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) |
| [RtlTranslateAlignment(Horizonta lAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | | [RtlTranslateAlignment(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) | [RtlTranslateContent(Content](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) |
| [RtlTranslateHorizontal(Horizonta lAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | | [RtlTranslateLeftRight(LeftRight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) | [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) |
| [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) | [ScaleBitmapLogicalToDevice(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__)  [Bitmap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) |
| [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) | [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) |
| [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  Boolean, Boolean, Boolean,  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) | [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) |
| [SetAutoSizeMode(AutoSizeMod](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_)  [e)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) |
| SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | | [SetClientSizeCore(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) | [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) |
| [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) | [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) |
| [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) | [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.tostring?view=netcore-3.1#System_Windows_Forms_RadioButton_ToString) |
| [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) | UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| UpdateBounds(Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | Int32, | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) | [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) |
| [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.wndproc?view=netcore-3.1#System_Windows_Forms_ButtonBase_WndProc_System_Windows_Forms_Message__) |  |  |  |

U tabeli 12 su dati svi događaji za kontrolu RadioButton.

#### **Tabela 12.** Tabela događaja za kontrolu RadioButton [7]

|  |  |  |
| --- | --- | --- |
| [AppearanceChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.appearancechanged?view=netcore-3.1) | [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) |
| [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagechanged?view=netcore-3.1) | [BackgroundImageLayoutChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) |
| [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) | [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [CheckedChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.checkedchanged?view=netcore-3.1) |
| [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) | [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) |
| [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) | [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) |
| [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) | [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) |
| [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) | [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) |
| [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) | [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) |
| [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) | [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) |
| [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) | [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) |
| [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) | [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) |
| [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imemodechanged?view=netcore-3.1) | [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) |
| [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) | [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) |
| [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) | [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) |
| [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) | [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) |
| [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.radiobutton.mousedoubleclick?view=netcore-3.1) | [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) |
| [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) | [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) |
| [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) | [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) |
| [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) | [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) |
| [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) | [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) |
| [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) | [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) |
| [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) | [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) |
| [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) | [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) |
| [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) | [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) |
| [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |  |  |

### 6.9.3. Kontrola CheckBox

Polje za potvrdu ili [CheckBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox?view=netcore-3.1) je kontrola koja daje samo dve opcije: potvrđeno ili prazno (kontrola broj 7 sa slike 26). Vizuelno ova kontrola prikazuje malo kvadratno polje na koje korisnik može da klikne (tačnije, korisnik može da klikne na celu kontrolu – uključujući tekst) . Na startu polje je prazno. Ako korisnik klikne na njega, oznaka o potvrdi pojavljuje se u kvadratnom polju. Da bi se korisniku omogućilo da zna šta polje za potvrdu predstavlja, kontroli je pridružena labela koja prikazuje tekst. Kada je kvadratno polje prazno , vrednost je *false*. Kada je polje ispunjeno oznakom za potvrdu , vrednost je *true* [6].

Koristite *CheckBox* da biste dali korisniku opciju, poput *true*/*false* ili da/ne. Kontrola *CheckBox* može prikazati sliku ili tekst ili oboje.

Kontrole *CheckBox* i *RadioButton* imaju sličnu funkciju: omogućavaju korisniku da izabere sa liste opcija. CheckBox kontrole omogućavaju korisniku da odabere više opcija. Suprotno tome, RadioButton kontrola omogućava da korisnik izabere više opcija.

Podrazumevano ponašanje ove kontrole je da se pojavljuje neštriklirana (nepotvrđena), tj. njena vrednost je inicijalno postavljena na *False*. Da bi se promenila, korisnik treba da klikne na kontrolu. Međutim, ako želimo da je svojstvo inicijalno postavljeno na vrednost *True*, tj. da kontrola pri prvom pojavljivanju bude potvrđena, možemo promeniti i vrednost svojstva *Checked* na *true* [6].

Da biste proverili da li je polje selektovano treba da pročitate vrednost svojstva *Checked*.

Podrazumevano, kvadratić se pojavljuje na levoj strani labele. .Net okruženje vam pruža puno različitih izbora kojima možete podešavati prikaz kontrola. To se na ovoj kontroli može potvrditi. Najčešća podešavanja tiču se pozicije kvadratića u odnosu na tekst cele kontrole. Ta podešavanja se izvode pomoću svojstva *CheckAlign*. Moguće vrednosti su: *TopLeft*, *TopCenter*, *TopRight*, *MiddleRight*, *BottomRight*, *BottomCenter* i *BottomLeft*. Programski podešavanja izvodite postavljanjem vrednosti *CheckAlign*, ali preko enumeratora *ContentAlignment* [6].

Neretko, kontrola *CheckBox* osim stanja *True*, odnosno *False*, treba da pokaže i neko međustanje.

Ovo stanje obično se naziva *half-checked* ili u nekom slobodnom prevodu polupotvrđeno. U tom stanju polje za potvrdu izgleda kao da je onemogućeno (disabled). Ovakvo specifično ponašanje kontroliše se preko svojstva *CheckState*, da bi se podesilo međustanje postavlja se vrednost ovog svojstva na *Indeterminate* [6].

Jedino svojstvo *CheckState* dozvoljava postavljanje polja za potvrdu u međustanju. Ako želite da se koriste tri stanja dugmeta za potvrdu, na primer označeno, poluoznačeno i neoznačeno, koristite svojstvo ThreeState. Postavljanjem svojstva *CheckState* (*boolean* tipa) na vrednost *True* korisnik treba da klikne dva do tri puta do željene vrednosti. Dobijanje stanja dugmeta za potvrdu u ovom slučaju izvodite preko svojstva *Indeterminate* [6].

Očekivani izgled ove kontrole je kvadratić koji može da primi komandu od korisnika aplikacije ili prikaže neku tekuću vrednost. Međutim, alternativa je da polje za potvrdu prikažete i kao standardno dugme. U tom slučaju, kada kliknete na njega, ono ostaje u donjem položaju, tj. položaj dugmeta dole ili gore određuje u stvari stanje polja za potvrdu *True* odnosno *False*. Ako korisnik klikne na dugme još jednom, ono se podiže u gornji položaj. Da biste promenili standardni prikaz treba promeniti svojstvo *Appearance*. Sa vrednosti Normal prebaciti na vrednost *Button* [6].

U tabeli 13 su data sva svojstva za kontrolu *CheckBox*.

#### **Tabela 13.** Tabela svojstava za kontrolu CheckBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultActionDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [Appearance](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.appearance?view=netcore-3.1#System_Windows_Forms_CheckBox_Appearance) |
| [AutoCheck](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.autocheck?view=netcore-3.1#System_Windows_Forms_CheckBox_AutoCheck) | [AutoEllipsis](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autoellipsis?view=netcore-3.1#System_Windows_Forms_ButtonBase_AutoEllipsis) | [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autosize?view=netcore-3.1#System_Windows_Forms_ButtonBase_AutoSize) |
| [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.backcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_BackColor) | [BackgroundImageLayout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimage?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImage) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) |
| [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) |
| [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) |
| [CheckAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.checkalign?view=netcore-3.1#System_Windows_Forms_CheckBox_CheckAlign) | [Checked](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.checked?view=netcore-3.1#System_Windows_Forms_CheckBox_Checked) | [CheckState](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.checkstate?view=netcore-3.1#System_Windows_Forms_CheckBox_CheckState) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) |
| [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) |
| [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) |
| [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.createparams?view=netcore-3.1#System_Windows_Forms_CheckBox_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) |
| [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.defaultimemode?view=netcore-3.1#System_Windows_Forms_ButtonBase_DefaultImeMode) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) |
| [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.defaultsize?view=netcore-3.1#System_Windows_Forms_CheckBox_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) |
| [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [FlatAppearance](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.flatappearance?view=netcore-3.1#System_Windows_Forms_ButtonBase_FlatAppearance) | [FlatStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.flatstyle?view=netcore-3.1#System_Windows_Forms_ButtonBase_FlatStyle) |
| [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolor?view=netcore-3.1#System_Windows_Forms_Control_ForeColor) |
| [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [Image](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.image?view=netcore-3.1#System_Windows_Forms_ButtonBase_Image) |
| [ImageAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagealign?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageAlign) | [ImageIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imageindex?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageIndex) | [ImageKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagekey?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageKey) | [ImageList](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imagelist?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImageList) |
| [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imemode?view=netcore-3.1#System_Windows_Forms_ButtonBase_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) |
| [IsDefault](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.isdefault?view=netcore-3.1#System_Windows_Forms_ButtonBase_IsDefault) | [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [sHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) |
| [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) |
| [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) |
| [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) |
| [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) |
| [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) |
| [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) |
| [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstop?view=netcore-3.1#System_Windows_Forms_Control_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.text?view=netcore-3.1#System_Windows_Forms_ButtonBase_Text) | [TextAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.textalign?view=netcore-3.1#System_Windows_Forms_CheckBox_TextAlign) |
| [TextImageRelation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.textimagerelation?view=netcore-3.1#System_Windows_Forms_ButtonBase_TextImageRelation) | [ThreeState](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.threestate?view=netcore-3.1#System_Windows_Forms_CheckBox_ThreeState) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) |
| [UseMnemonic](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usemnemonic?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseMnemonic) | [UseCompatibleTextRendering](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usecompatibletextrendering?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseCompatibleTextRendering) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) |
| [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [UseVisualStyleBackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.usevisualstylebackcolor?view=netcore-3.1#System_Windows_Forms_ButtonBase_UseVisualStyleBackColor) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |

U tabeli 14 su date sve metode za kontrolu *CheckBox*.

#### **Tabela 14.** Tabela metoda za kontrolu CheckBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Acc essibleEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Accessi bleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) |
| [BeginInvoke(Delegate,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___)  [Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) |
| [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_CheckBox_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) |
| [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) | [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) |
| [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) |
| [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.dispose?view=netcore-3.1#System_Windows_Forms_ButtonBase_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) |
| [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) |
| [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(Int32](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) |
| [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) |
| [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) |
| [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.getpreferredsize?view=netcore-3.1#System_Windows_Forms_ButtonBase_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) |
| [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) |

|  |  |  |
| --- | --- | --- |
| [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) |
| [Invalidate(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate)[)Invalidate(Boolean](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) |
| [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) |
| [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAppearanceChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onappearancechanged?view=netcore-3.1#System_Windows_Forms_CheckBox_OnAppearanceChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onappearancechanged?view=netcore-3.1#System_Windows_Forms_CheckBox_OnAppearanceChanged_System_EventArgs_) | [OnAutoSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) |
| [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) | [OnBackgroundImageChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) |
| [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) | [OnCausesValidationChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) |
| [OnCheckedChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.oncheckedchanged?view=netcore-3.1#System_Windows_Forms_CheckBox_OnCheckedChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.oncheckedchanged?view=netcore-3.1#System_Windows_Forms_CheckBox_OnCheckedChanged_System_EventArgs_) | [OnCheckStateChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.oncheckstatechanged?view=netcore-3.1#System_Windows_Forms_CheckBox_OnCheckStateChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.oncheckstatechanged?view=netcore-3.1#System_Windows_Forms_CheckBox_OnCheckStateChanged_System_EventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onclick?view=netcore-3.1#System_Windows_Forms_CheckBox_OnClick_System_EventArgs_) |
| [OnClientSizeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) |
| [OnDpiChangedAfterParent(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) |
| [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) |
| [OnEnabledChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onenabledchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnEnabledChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onenabledchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedbackE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.ongotfocus?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnGotFocus_System_EventArgs_) |
| [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onhandlecreated?view=netcore-3.1#System_Windows_Forms_CheckBox_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnImeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) | [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onkeydown?view=netcore-3.1#System_Windows_Forms_CheckBox_OnKeyDown_System_Windows_Forms_KeyEventArgs_) |
| [OnKeyPress(KeyPressEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onkeyup?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnKeyUp_System_Windows_Forms_KeyEventArgs_) | [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) |
| [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) | [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onlostfocus?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnLostFocus_System_EventArgs_) |
| [OnMarginChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMouseCaptureChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDown(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousedown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousedown?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmouseenter?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseEnter_System_EventArgs_) |
| [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) | [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmouseleave?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousemove?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onmousemove?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnMouseMove_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onmouseup?view=netcore-3.1#System_Windows_Forms_CheckBox_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.onmouseup?view=netcore-3.1#System_Windows_Forms_CheckBox_OnMouseUp_System_Windows_Forms_MouseEventArgs_) | [OnMouseWheel(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) |
| [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) | [OnPaddingChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onpaint?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnPaint_System_Windows_Forms_PaintEventArgs_) |
| [OnPaintBackground(PaintEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) | [OnParentBackColorChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageChan ged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) |
| [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) | [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onparentchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) |
| [OnParentEnabledChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) | [OnParentFontChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) |
| [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) | [OnParentVisibleChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(PreviewKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [DownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) |
| [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) | [OnQueryContinueDrag(QueryCo ntinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) |
| [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) | [OnRightToLeftChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) | [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) |
| [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) |
| [OnTabStopChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.ontextchanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnTextChanged_System_EventArgs_) | [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) |
| [OnValidating(CancelEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnVisibleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_ButtonBase_OnVisibleChanged_System_EventArgs_) | [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) |
| [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) | [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [PreProcessControlMessage(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | | [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) | | [ProcessCmdKey(Message, Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) |
| [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) | | [ProcessKeyEventArgs(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) |
| [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.processmnemonic?view=netcore-3.1#System_Windows_Forms_CheckBox_ProcessMnemonic_System_Char_) |
| [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) |
| [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) |
| [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) | | [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_CheckBox_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_CheckBox_RescaleConstantsForDpi_System_Int32_System_Int32_) |
| [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) | | [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) |
| [ResetFlagsandPaint()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.resetflagsandpaint?view=netcore-3.1#System_Windows_Forms_ButtonBase_ResetFlagsandPaint) | | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(Conte ntAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | | [RtlTranslateAlignment(Horizonta lAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | | [RtlTranslateAlignment(LeftRight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(Content](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | | [RtlTranslateHorizontal(Horizonta lAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | | [RtlTranslateLeftRight(LeftRightAl ignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__)  [Bitmap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) |
| [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  Boolean, Boolean, Boolean,  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) |
| [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | | [SetAutoSizeMode(AutoSizeMod](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_)  [e)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | | [SetClientSizeCore(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) |
| [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) |
| [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) |
| [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.tostring?view=netcore-3.1#System_Windows_Forms_CheckBox_ToString) | | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) |
| UpdateBounds(Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | Int32, | [Updat](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_)eBounds(Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | Int32, | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) |
| [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) |  | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.wndproc?view=netcore-3.1#System_Windows_Forms_ButtonBase_WndProc_System_Windows_Forms_Message__) |  |  |

U tabeli 15 su dati svi događaji za kontrolu *CheckBox*.

#### **Tabela 15.** Tabela događaja za kontrolu CheckBox [7]

|  |  |  |
| --- | --- | --- |
| [AppearanceChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.appearancechanged?view=netcore-3.1) | [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) |
| [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagechanged?view=netcore-3.1) | [BackgroundImageLayoutChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1)  [d](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) |
| [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) | [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [CheckedChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.checkedchanged?view=netcore-3.1) |
| [CheckStateChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.checkstatechanged?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.buttonbase.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) |
| [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) | [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.checkbox.mousedoubleclick?view=netcore-3.1) |
| [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) | [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) |
| [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) | [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) |
| [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) | [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) |
| [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) | [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) |
| [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) | [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) |
| [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) | [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) |
| [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |  |

### 6.9.4. Kontrola Label

Kontrola [Label](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label?view=netcore-3.1) (kontrola broj 1 sa slike 26) obično se koriste za prikaz teksa. Na primer, možete da koristite *Label* kontrolu za dodavanje opisnog teksta za *TextBox* kontrolu da bi se informisao korisnik o vrsti podataka koji se očekuju da se unese u *TextBox* kontrolu. Kontrola *Label* se takođe, koristiti i za dodavanje opisnog teksta za pružanje korisnih informacija o aplikaciji. Na primer, možete se u svojstvo *Text* dodati tekst kao uputstvo za korišćenje aplikacije, a kontrola *Label* može da se nalazi na vrhu ili dnu aplikacije.

U tabeli 16 su data sva svojstva za kontrolu *Label*.

#### **Tabela 16.** Tabela svojstava za kontrolu Label [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleDefaultActio nDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [AutoEllipsis](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.autoellipsis?view=netcore-3.1#System_Windows_Forms_Label_AutoEllipsis) |
| [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.autosize?view=netcore-3.1#System_Windows_Forms_Label_AutoSize) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolor?view=netcore-3.1#System_Windows_Forms_Control_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.backgroundimage?view=netcore-3.1#System_Windows_Forms_Label_BackgroundImage) |
| [BackgroundImageLayo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Label_BackgroundImageLayout)  [ut](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Label_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BorderStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.borderstyle?view=netcore-3.1#System_Windows_Forms_Label_BorderStyle) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) |
| [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) |
| [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) |
| [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) |
| [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) |
| [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.createparams?view=netcore-3.1#System_Windows_Forms_Label_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) |
| [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.defaultimemode?view=netcore-3.1#System_Windows_Forms_Label_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.defaultmargin?view=netcore-3.1#System_Windows_Forms_Label_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.defaultsize?view=netcore-3.1#System_Windows_Forms_Label_DefaultSize) |
| [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) |
| [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [FlatStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.flatstyle?view=netcore-3.1#System_Windows_Forms_Label_FlatStyle) | [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) |
| [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolor?view=netcore-3.1#System_Windows_Forms_Control_ForeColor) | [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) |
| [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [Image](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.image?view=netcore-3.1#System_Windows_Forms_Label_Image) | [ImageAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.imagealign?view=netcore-3.1#System_Windows_Forms_Label_ImageAlign) |
| [ImageIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.imageindex?view=netcore-3.1#System_Windows_Forms_Label_ImageIndex) | [ImageKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.imagekey?view=netcore-3.1#System_Windows_Forms_Label_ImageKey) | [ImageList](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.imagelist?view=netcore-3.1#System_Windows_Forms_Label_ImageList) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.imemode?view=netcore-3.1#System_Windows_Forms_Label_ImeMode) |
| [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) | [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) |
| [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) |
| [LiveSetting](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.livesetting?view=netcore-3.1#System_Windows_Forms_Label_LiveSetting) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) |
| [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) |
| [PreferredHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.preferredheight?view=netcore-3.1#System_Windows_Forms_Label_PreferredHeight) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [PreferredWidth](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.preferredwidth?view=netcore-3.1#System_Windows_Forms_Label_PreferredWidth) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) |
| [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) | [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) |
| [RenderTransparent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.rendertransparent?view=netcore-3.1#System_Windows_Forms_Label_RenderTransparent) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) |
| [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) |
| [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) | [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.tabstop?view=netcore-3.1#System_Windows_Forms_Label_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) |
| [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.text?view=netcore-3.1#System_Windows_Forms_Label_Text) | [TextAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.textalign?view=netcore-3.1#System_Windows_Forms_Label_TextAlign) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) |
| [UseMnemonic](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.usemnemonic?view=netcore-3.1#System_Windows_Forms_Label_UseMnemonic) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [UseCompatibleTextRen dering](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.usecompatibletextrendering?view=netcore-3.1#System_Windows_Forms_Label_UseCompatibleTextRendering) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) |
| [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |  |

U tabeli 17 su date sve metode za kontrolu *Label*.

#### **Tabela 17.** Tabela metoda za kontrolu Label [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Acce ssibleEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Accessi bleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) |
| [BeginInvoke(Delegate,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___)  [Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [CalcImageRenderBounds(Ima](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.calcimagerenderbounds?view=netcore-3.1#System_Windows_Forms_Label_CalcImageRenderBounds_System_Drawing_Image_System_Drawing_Rectangle_System_Drawing_ContentAlignment_)  ge, Rectangle,  [ContentAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.calcimagerenderbounds?view=netcore-3.1#System_Windows_Forms_Label_CalcImageRenderBounds_System_Drawing_Image_System_Drawing_Rectangle_System_Drawing_ContentAlignment_) |
| [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) | [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_Label_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) |
| [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) | [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) |
| [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) |
| [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.dispose?view=netcore-3.1#System_Windows_Forms_Label_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) |
| DrawImage(Graphics, Image,  [Rectangle, ContentAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.drawimage?view=netcore-3.1#System_Windows_Forms_Label_DrawImage_System_Drawing_Graphics_System_Drawing_Image_System_Drawing_Rectangle_System_Drawing_ContentAlignment_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) | [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) |
| [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) | [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) |
| [GetAccessibilityObjectById(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [2)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) | [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) |
| [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) |
| [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) | [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Label_GetPreferredSize_System_Drawing_Size_) |

|  |  |  |
| --- | --- | --- |
| [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) |
| [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) |
| [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) |
| [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) |
| [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) |
| [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Cont rol, PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) |
| [OnBackgroundImageChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) |
| [OnCausesValidationChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) |
| [OnClientSizeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) |
| [OnDpiChangedAfterParent(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) |
| [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) |
| [OnEnabledChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Label_OnEnabledChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Label_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onfontchanged?view=netcore-3.1#System_Windows_Forms_Label_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedbackE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongotfocus?view=netcore-3.1#System_Windows_Forms_Control_OnGotFocus_System_EventArgs_) |
| [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandlecreated?view=netcore-3.1#System_Windows_Forms_Control_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Label_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnImeModeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) | [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) |
| [OnKeyPress(KeyPressEventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) | [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) |
| [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) | [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) |
| [OnMarginChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMouseCaptureChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDoubleClick(MouseE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDown(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onmouseenter?view=netcore-3.1#System_Windows_Forms_Label_OnMouseEnter_System_EventArgs_) |
| [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) | [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onmouseleave?view=netcore-3.1#System_Windows_Forms_Label_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseUp(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_) | [OnMouseWheel(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) |
| [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) | [OnPaddingChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Label_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onpaint?view=netcore-3.1#System_Windows_Forms_Label_OnPaint_System_Windows_Forms_PaintEventArgs_) |
| [OnPaintBackground(PaintEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) | [OnParentBackColorChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) |
| [OnParentBindingContextChan ged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) | [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onparentchanged?view=netcore-3.1#System_Windows_Forms_Label_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) |
| [OnParentEnabledChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) | [OnParentFontChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) |
| [OnParentRightToLeftChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) | [OnParentVisibleChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(Preview](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [KeyDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) |
| [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) | [OnQueryContinueDrag(QueryCo ntinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) |
| [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) | [OnRightToLeftChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Label_OnRightToLeftChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Label_OnRightToLeftChanged_System_EventArgs_) | [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) |
| [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) |
| [OnTabStopChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextAlignChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.ontextalignchanged?view=netcore-3.1#System_Windows_Forms_Label_OnTextAlignChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.ontextchanged?view=netcore-3.1#System_Windows_Forms_Label_OnTextChanged_System_EventArgs_) |
| [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnVisibleChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Label_OnVisibleChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Label_OnVisibleChanged_System_EventArgs_) |
| [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control, String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | | [PreProcessControlMessage(Mes](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [sage)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | | [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) |
| [ProcessCmdKey(Message,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_)  [Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) |
| [ProcessKeyEventArgs(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | | [ProcessKeyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) |
| [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.processmnemonic?view=netcore-3.1#System_Windows_Forms_Label_ProcessMnemonic_System_Char_) | | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) |
| [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) |
| [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | | [RectangleToScreen(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) |
| [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) | | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) |
| [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(Content](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | | [RtlTranslateAlignment(Horizonta lAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(ContentAli gnment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | | [RtlTranslateHorizontal(Horizonta lAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(Bi tmap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) |
| [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean, Boolean, Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) |
| [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | | [SetAutoSizeMode(AutoSizeMod](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_)  [e)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.setboundscore?view=netcore-3.1#System_Windows_Forms_Label_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | | [SetClientSizeCore(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) |
| [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) |
| [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) |
| [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.tostring?view=netcore-3.1#System_Windows_Forms_Label_ToString) |  | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) |  | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) |
| UpdateBounds(Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | Int32, | UpdateBounds(Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | Int32, | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) |
| [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) |  | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.wndproc?view=netcore-3.1#System_Windows_Forms_Label_WndProc_System_Windows_Forms_Message__) |  |  |

U tabeli 18 su dati svi događaji za kontrolu *Label*.

#### **Tabela 18.** Tabela događaja za kontrolu Label [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChan](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.backgroundimagelayoutchanged?view=netcore-3.1)  [ged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) |
| [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) | [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) |
| [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) | [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) |
| [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) | [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) |
| [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) | [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) |
| [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) | [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) |
| [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) | [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) |
| [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) | [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.tabstopchanged?view=netcore-3.1) | [TextAlignChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.label.textalignchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) |
| [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) | [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |

### 6.9.5. Kontrola TextBox

Kontrola [TextBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox?view=netcore-3.1) koristi se za prikaz tekstualnih poruka ili za unošenje teksta (kontrola broj 11 sa slike 26). Tekst polje je kontrola pravougaonog oblika. Površina za prikaz, odnosno unos teksta, zauzima celu površinu kontrole. Zbog toga uz ovo tekst polje, uobičajeno, ide label kontrola kojom se opisuje namena tekstualnog polja [6].

*TextBox* kontrola ima dodatnu funkciju koja se ne nalazi u standardnoj Windows kontroli teksta, uključujući multiline uređivanje i maskiranje znakova lozinke.

Obično se *TextBox* kontrola koristi da prikaže ili prihvati kao ulaz jedan redak teksta. Može se koristiti svojstvo *Multiline* i *ScrollBars* da bi se omogućilo prikazivanje ili unošenje više redova teksta. Podešavanjem svojstva *AcceptsTab* i *AcceptsReturn* na *true*, omogućava se veća manipulacija tekstom u višelinijskoj *TextBox* kontroli.

Količinu teksta unetog u *TextBox* kontrolu može se ograničiti podešavanjem svojstva *MakLength* na određeni broj znakova. *TextBox* kontrola se takođe može koristiti za prihvatanje lozinke i drugih osetljivih informacija. Može se koristiti svojstvo *PasswordChar* za maskiranje znakova unetih u jednorednoj verziji kontrole. Korišćenjem svojstva *CharacterCasing* omogućavamo korisniku da u tekstualnu kontrolu unese samo velika slova, samo mala slova ili kombinaciju velikih i malih slova.

Da bi se prelistao sadržaj *TextBox*-a dok se pokazivač ne nađe u vidljivoj oblasti kontrole, može se koristiti metoda *ScrollToCaret*. Da bi se odabrao opseg teksta u tekstnom polju, može da se koristite metoda Select.

Da bi se ograničio unos teksta u *TextBox* kontrolu, može da se koristi događaj *KeyDown*, da bi se potvrdio svaki znak koji se unosi u kontrolu. Takođe, može se ograničiti sav unos podataka u *TextBox* kontrolu tako što će se postaviti svojstvo *ReadOnly* na *true*.

U tabeli 19 su data sva svojstva za kontrolu *TextBox*.

#### **Tabela 19.** Tabela svojstava za kontrolu TextBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AcceptsReturn](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.acceptsreturn?view=netcore-3.1#System_Windows_Forms_TextBox_AcceptsReturn) | [AcceptsTab](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.acceptstab?view=netcore-3.1#System_Windows_Forms_TextBoxBase_AcceptsTab) | [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultAction](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription)  [Description](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) |
| [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) | [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) |
| [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [AutoCompleteCusto mSource](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.autocompletecustomsource?view=netcore-3.1#System_Windows_Forms_TextBox_AutoCompleteCustomSource) | [AutoCompleteMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.autocompletemode?view=netcore-3.1#System_Windows_Forms_TextBox_AutoCompleteMode) | [AutoCompleteSource](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.autocompletesource?view=netcore-3.1#System_Windows_Forms_TextBox_AutoCompleteSource) |
| [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.autosize?view=netcore-3.1#System_Windows_Forms_TextBoxBase_AutoSize) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backcolor?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backgroundimage?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BackgroundImage) |
| [BackgroundImageLayo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BackgroundImageLayout)  [ut](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BorderStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.borderstyle?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BorderStyle) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) |
| [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.canenableime?view=netcore-3.1#System_Windows_Forms_TextBoxBase_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) |
| [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [CanUndo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.canundo?view=netcore-3.1#System_Windows_Forms_TextBoxBase_CanUndo) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) |
| [CharacterCasing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.charactercasing?view=netcore-3.1#System_Windows_Forms_TextBox_CharacterCasing) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) | [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) |
| [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) |
| [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.createparams?view=netcore-3.1#System_Windows_Forms_TextBox_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) |
| [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.defaultcursor?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DefaultCursor) | [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultimemode?view=netcore-3.1#System_Windows_Forms_Control_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) |
| [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.defaultsize?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DefaultSize) |
| [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) |
| [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.doublebuffered?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DoubleBuffered) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) |
| [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.forecolor?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ForeColor) |
| [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [HideSelection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.hideselection?view=netcore-3.1#System_Windows_Forms_TextBoxBase_HideSelection) |
| [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemode?view=netcore-3.1#System_Windows_Forms_Control_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.imemodebase?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) |
| [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) |
| [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Lines](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.lines?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Lines) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) |
| [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MaxLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.maxlength?view=netcore-3.1#System_Windows_Forms_TextBoxBase_MaxLength) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Modified](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.modified?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Modified) |
| [Multiline](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.multiline?view=netcore-3.1#System_Windows_Forms_TextBox_Multiline) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.padding?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) |
| [PasswordChar](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.passwordchar?view=netcore-3.1#System_Windows_Forms_TextBox_PasswordChar) | [PlaceholderText](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.placeholdertext?view=netcore-3.1#System_Windows_Forms_TextBox_PlaceholderText) | [PreferredHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.preferredheight?view=netcore-3.1#System_Windows_Forms_TextBoxBase_PreferredHeight) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) |
| [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) | [ReadOnly](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.readonly?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ReadOnly) | [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) |
| [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) | [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) |
| [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ScrollBars](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.scrollbars?view=netcore-3.1#System_Windows_Forms_TextBox_ScrollBars) | [SelectedText](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.selectedtext?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SelectedText) |
| [SelectionLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.selectionlength?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SelectionLength) | [SelectionStart](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.selectionstart?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SelectionStart) | [ShortcutsEnabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.shortcutsenabled?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ShortcutsEnabled) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) |
| [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) |
| [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstop?view=netcore-3.1#System_Windows_Forms_Control_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.text?view=netcore-3.1#System_Windows_Forms_TextBox_Text) | [TextAlign](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.textalign?view=netcore-3.1#System_Windows_Forms_TextBox_TextAlign) |
| [TextLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.textlength?view=netcore-3.1#System_Windows_Forms_TextBoxBase_TextLength) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UseSystemPasswordCh](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.usesystempasswordchar?view=netcore-3.1#System_Windows_Forms_TextBox_UseSystemPasswordChar)  [ar](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.usesystempasswordchar?view=netcore-3.1#System_Windows_Forms_TextBox_UseSystemPasswordChar) |
| [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |
| [WordWrap](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.wordwrap?view=netcore-3.1#System_Windows_Forms_TextBoxBase_WordWrap) |  |  |  |

U tabeli 20 su date sve metode za kontrolu *TextBox*.

#### **Tabela 20.** Tabela metoda za kontrolu TextBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessib leEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acc essibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [AppendText(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.appendtext?view=netcore-3.1#System_Windows_Forms_TextBoxBase_AppendText_System_String_) |
| [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) | [BeginInvoke(Delegate,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___)  [Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) |
| [Clear()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.clear?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Clear) | [ClearUndo()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.clearundo?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ClearUndo) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) |
| [Copy()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.copy?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Copy) | [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) |
| [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) | [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.createhandle?view=netcore-3.1#System_Windows_Forms_TextBoxBase_CreateHandle) |
| [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [Cut()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.cut?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Cut) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) |
| [DeselectAll()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.deselectall?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DeselectAll) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) |
| [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.dispose?view=netcore-3.1#System_Windows_Forms_TextBox_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) |
| [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) |
| [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) |
| [GetCharFromPosition(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getcharfromposition?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetCharFromPosition_System_Drawing_Point_) | [GetCharIndexFromPosition(P](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getcharindexfromposition?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetCharIndexFromPosition_System_Drawing_Point_)  [oint)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getcharindexfromposition?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetCharIndexFromPosition_System_Drawing_Point_) | [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) |
| [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) | [GetFirstCharIndexFromLine(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexfromline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexFromLine_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexfromline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexFromLine_System_Int32_) |
| [GetFirstCharIndexOfCurrentLine()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexofcurrentline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexOfCurrentLine) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) |
| [GetLineFromCharIndex(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getlinefromcharindex?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetLineFromCharIndex_System_Int32_) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) | [GetPositionFromCharIndex(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getpositionfromcharindex?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetPositionFromCharIndex_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getpositionfromcharindex?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetPositionFromCharIndex_System_Int32_) |
| [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) |
| [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) |
| [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) |
| [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) | [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) |
| [Invalidate(Rectangle, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) | [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) |
| [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) | [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [InvokePaintBackground(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.isinputkey?view=netcore-3.1#System_Windows_Forms_TextBox_IsInputKey_System_Windows_Forms_Keys_) |
| [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) | [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) |
| [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) | [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAcceptsTabChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onacceptstabchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnAcceptsTabChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onacceptstabchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnAcceptsTabChanged_System_EventArgs_) |
| [OnAutoSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onautosizechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_TextBox_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_TextBox_OnBackColorChanged_System_EventArgs_) | [OnBackgroundImageChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) |
| [OnBackgroundImageLayoutChan ged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) | [OnBorderStyleChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onborderstylechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnBorderStyleChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onborderstylechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnBorderStyleChanged_System_EventArgs_) |
| [OnCausesValidationChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) |
| [OnClientSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) |
| [OnDpiChangedAfterParent(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) |
| [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) |
| [OnEnabledChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.onfontchanged?view=netcore-3.1#System_Windows_Forms_TextBox_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.ongotfocus?view=netcore-3.1#System_Windows_Forms_TextBox_OnGotFocus_System_EventArgs_) |
| [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.onhandlecreated?view=netcore-3.1#System_Windows_Forms_TextBox_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_TextBox_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_TextBox_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) |
| [OnHideSelectionChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onhideselectionchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnHideSelectionChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onhideselectionchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnHideSelectionChanged_System_EventArgs_) | [OnImeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) |
| [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) |
| [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) |
| [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnModifiedChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmodifiedchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnModifiedChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmodifiedchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnModifiedChanged_System_EventArgs_) |
| [OnMouseCaptureChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnMouseDown(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseenter?view=netcore-3.1#System_Windows_Forms_Control_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) |
| [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseleave?view=netcore-3.1#System_Windows_Forms_Control_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmouseup?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmouseup?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnMouseUp_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseWheel(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnMultilineChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmultilinechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnMultilineChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmultilinechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnMultilineChanged_System_EventArgs_) |
| [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) | [OnPaddingChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnPaddingChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaint?view=netcore-3.1#System_Windows_Forms_Control_OnPaint_System_Windows_Forms_PaintEventArgs_) |
| [OnPaintBackground(PaintEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) | [OnParentBackColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) |
| [OnParentBindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_)  [(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) | [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) |
| [OnParentEnabledChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) | [OnParentFontChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) |
| [OnParentRightToLeftChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) | [OnParentVisibleChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(Preview](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [KeyDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) |
| [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) | [OnQueryContinueDrag(Query](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_)  [ContinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnReadOnlyChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onreadonlychanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnReadOnlyChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onreadonlychanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnReadOnlyChanged_System_EventArgs_) |
| [OnRegionChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) | [OnRightToLeftChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) |
| [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) |
| [OnTabIndexChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) | [OnTabStopChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextAlignChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.ontextalignchanged?view=netcore-3.1#System_Windows_Forms_TextBox_OnTextAlignChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.ontextalignchanged?view=netcore-3.1#System_Windows_Forms_TextBox_OnTextAlignChanged_System_EventArgs_) |
| [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.ontextchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnTextChanged_System_EventArgs_) | [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) |
| [OnVisibleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_) | [Paste()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.paste?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Paste) | [Paste(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.paste?view=netcore-3.1#System_Windows_Forms_TextBox_Paste_System_String_) |
| [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) |
| [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(M essage)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | [PreProcessMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) |
| [ProcessCmdKey(Message, Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.processcmdkey?view=netcore-3.1#System_Windows_Forms_TextBox_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.processdialogkey?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ProcessDialogKey_System_Windows_Forms_Keys_) |
| [ProcessKeyEventArgs(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) |
| [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processmnemonic?view=netcore-3.1#System_Windows_Forms_Control_ProcessMnemonic_System_Char_) | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) |
| [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) |
| [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) |
| [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) |
| [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(ContentAli gnment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | [RtlTranslateAlignment(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(ContentAlign ment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | [RtlTranslateHorizontal(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(Bitm ap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) |
| [ScrollToCaret()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.scrolltocaret?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ScrollToCaret) | [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) |
| [Select(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.select?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Select_System_Int32_System_Int32_) | [SelectAll()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.selectall?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SelectAll) | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean, Boolean, Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) |
| [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | [SetAutoSizeMode(AutoSizeM ode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| SetBounds(Int32, Int32, Int32,  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.setboundscore?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | [SetClientSizeCore(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) |
| [SetStyle(ControlStyles, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) |
| [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) |
| [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.tostring?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ToString) | [Undo()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.undo?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Undo) | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) |
| [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) | UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateBou](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_)nds(Int32, Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) | [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.wndproc?view=netcore-3.1#System_Windows_Forms_TextBox_WndProc_System_Windows_Forms_Message__) |

U tabeli 21 su dati svi događaji za kontrolu *TextBox*.

#### **Tabela 21.** Tabela događaja za kontrolu TextBox [7]

|  |  |  |
| --- | --- | --- |
| [AcceptsTabChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.acceptstabchanged?view=netcore-3.1) | [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) |
| [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backgroundimagechanged?view=netcore-3.1) | [BackgroundImageLayoutChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backgroundimagelayoutchanged?view=netcore-3.1)  [d](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) |
| [BorderStyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.borderstylechanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) | [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) |
| [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) | [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) |
| [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) | [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) |
| [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) | [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) |
| [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) | [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) |
| [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) | [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) |
| [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) | [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) |
| [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) | [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) |
| [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) | [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) |
| [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [HideSelectionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.hideselectionchanged?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) |
| [ModifiedChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.modifiedchanged?view=netcore-3.1) | [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) | [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.mouseclick?view=netcore-3.1) |
| [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) | [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) | [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) |
| [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) | [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) | [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) |
| [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) | [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) | [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) |
| [MultilineChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.multilinechanged?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.paddingchanged?view=netcore-3.1) | [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.paint?view=netcore-3.1) |
| [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) | [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) |
| [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [ReadOnlyChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.readonlychanged?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) |
| [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) | [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) | [TextAlignChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textbox.textalignchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) |
| [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) | [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |

### 6.9.6. Kontrola RichTextBox

Pomoću [RichTextBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox?view=netcore-3.1) (kontrola broj 12 sa slike 26) kontrole korisnik može unositi i uređivati tekst. Kontrola takođe nudi naprednije funkcije formatiranja od standardne *TextBox* kontrole. Tekst se može dodeliti direktno kontroli ili može biti učitan iz obogaćenog tekstualnog formata (RTF) ili obične tekstualne datoteke. Tekstu unutar kontrole može se dodeliti oblik karaktera.

Kontrola *RichTextBox* pruža niz svojstava koja se koriste za editovanje bilo kojeg dela teksta u kontroli. Da bi se promenilo formatiranje teksta, prvo ga treba izabrati. Samo odabranom tekstu mogu se dodeliti formatiranje znakova i paragrafa. Jednom kada se izvrši podešavanje za izabrani odeljak teksta ceo tekst unesen nakon odabira se takođe formatira sa istim podešavanjima sve dok

se ne promeni podešavanje ili ne izabere drugi odeljak dokumenta kontrole. Svojstvo SelectionFont omogućava da se tekst učita podebljanim ili kosim slovima. Takođe, može da se koristi ova osobina i za promenu veličine i slova teksta. Svojstvo *SelectionColor* omogućava promenu boje teksta. Da biste kreirali spiskove sa obrisima, možete koristiti svojstvo *SelectionBullet*. Formatiranje odlomaka možete prilagoditi i postavljanjem svojstava *SelectionIndent*, *SelectionRightIndent* i *SelectionHangingIndent*.

Kontrola *RichTextBox* pruža metode koje imaju funkcionalnost za otvaranje i čuvanje datoteka. Metoda *LoadFile* omogućava da se iz postojeće RTF ili ASCII tekstualne datoteke učita tekst u kontrolu. SaveFile metoda omogućava da se datoteka sačuva u RTF ili ASCII formatu. Kontrola

*RichTextBox* takođe nudi funkcije za pronalaženje delova teksta, a metoda koja se za te potrebe koristi je metoda *Find*.

Ako tekst unutar kontrole sadrži link do neke veb-lokacije, može se koristiti svojstvo *DetectUrls* da bi se prikazao link u tekst kontroli. Može da se koristi događaj *LinkClicked* da bi se izvršilo povezivanje sa datim linkom. Svojstvo *SelectionProtected* omogućava da se zaštiti tekst unutar kontrole od manipulacije od strane korisnika.

Aplikacija koja već koristi *TextBox* kontrolu može lako da se prilagoditi i da se koristi *RichTextBox* kontrola. Međutim, kontrola *RichTextBox* nema istu granicu od 64K karaktera kao *TextBox* kontrole. RichTextBox se obično koristi za manipulaciju (editovanje) tekstom i slična je aplikacijama za obradu teksta kao što je *Microsoft* *Word*.

U tabeli 22 su data sva svojstva za kontrolu *RichTextBox*.

#### **Tabela 22.** Tabela svojstava za kontrolu RichTextBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AcceptsTab](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.acceptstab?view=netcore-3.1#System_Windows_Forms_TextBoxBase_AcceptsTab) | [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultActio nDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) |
| [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) | [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.allowdrop?view=netcore-3.1#System_Windows_Forms_RichTextBox_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) |
| [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.autosize?view=netcore-3.1#System_Windows_Forms_RichTextBox_AutoSize) | [AutoWordSelection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.autowordselection?view=netcore-3.1#System_Windows_Forms_RichTextBox_AutoWordSelection) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.backcolor?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BackColor) |
| [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.backgroundimage?view=netcore-3.1#System_Windows_Forms_RichTextBox_BackgroundImage) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BackgroundImageLayo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_RichTextBox_BackgroundImageLayout)  [ut](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_RichTextBox_BackgroundImageLayout) | [BorderStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.borderstyle?view=netcore-3.1#System_Windows_Forms_TextBoxBase_BorderStyle) |
| [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [BulletIndent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.bulletindent?view=netcore-3.1#System_Windows_Forms_RichTextBox_BulletIndent) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.canenableime?view=netcore-3.1#System_Windows_Forms_TextBoxBase_CanEnableIme) |
| [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanRedo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.canredo?view=netcore-3.1#System_Windows_Forms_RichTextBox_CanRedo) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) |
| [CanUndo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.canundo?view=netcore-3.1#System_Windows_Forms_TextBoxBase_CanUndo) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) |
| [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) |
| [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) |
| [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.createparams?view=netcore-3.1#System_Windows_Forms_RichTextBox_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.defaultcursor?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DefaultCursor) |
| [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultimemode?view=netcore-3.1#System_Windows_Forms_Control_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) |
| [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.defaultsize?view=netcore-3.1#System_Windows_Forms_RichTextBox_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DetectUrls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.detecturls?view=netcore-3.1#System_Windows_Forms_RichTextBox_DetectUrls) |
| [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.doublebuffered?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DoubleBuffered) | [EnableAutoDragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.enableautodragdrop?view=netcore-3.1#System_Windows_Forms_RichTextBox_EnableAutoDragDrop) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) |
| [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.font?view=netcore-3.1#System_Windows_Forms_RichTextBox_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.forecolor?view=netcore-3.1#System_Windows_Forms_RichTextBox_ForeColor) |
| [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [HideSelection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.hideselection?view=netcore-3.1#System_Windows_Forms_TextBoxBase_HideSelection) |
| [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemode?view=netcore-3.1#System_Windows_Forms_Control_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.imemodebase?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) |
| [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [LanguageOption](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.languageoption?view=netcore-3.1#System_Windows_Forms_RichTextBox_LanguageOption) |
| [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Lines](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.lines?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Lines) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) |
| [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MaxLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.maxlength?view=netcore-3.1#System_Windows_Forms_RichTextBox_MaxLength) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) |
| [Modified](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.modified?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Modified) | [Multiline](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.multiline?view=netcore-3.1#System_Windows_Forms_RichTextBox_Multiline) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.padding?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Padding) |
| [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) | [PreferredHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.preferredheight?view=netcore-3.1#System_Windows_Forms_TextBoxBase_PreferredHeight) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) |
| [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) | [ReadOnly](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.readonly?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ReadOnly) | [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [RedoActionName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.redoactionname?view=netcore-3.1#System_Windows_Forms_RichTextBox_RedoActionName) |
| [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [RichTextShortcutsEnabl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.richtextshortcutsenabled?view=netcore-3.1#System_Windows_Forms_RichTextBox_RichTextShortcutsEnabled)  [ed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.richtextshortcutsenabled?view=netcore-3.1#System_Windows_Forms_RichTextBox_RichTextShortcutsEnabled) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) |
| [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.rightmargin?view=netcore-3.1#System_Windows_Forms_RichTextBox_RightMargin) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [Rtf](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.rtf?view=netcore-3.1#System_Windows_Forms_RichTextBox_Rtf) |
| [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ScrollBars](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.scrollbars?view=netcore-3.1#System_Windows_Forms_RichTextBox_ScrollBars) | [SelectedRtf](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectedrtf?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectedRtf) | [SelectedText](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectedtext?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectedText) |
| [SelectionAlignment](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionalignment?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionAlignment) | [SelectionBackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionbackcolor?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionBackColor) | [SelectionCharOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectioncharoffset?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionCharOffset) | [SelectionBullet](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionbullet?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionBullet) |
| [SelectionColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectioncolor?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionColor) | [SelectionFont](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionfont?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionFont) | [SelectionHangingInden t](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionhangingindent?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionHangingIndent) | [SelectionIndent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionindent?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionIndent) |
| [SelectionLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionlength?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionLength) | [SelectionProtected](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionprotected?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionProtected) | [SelectionRightIndent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionrightindent?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionRightIndent) | [SelectionStart](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.selectionstart?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SelectionStart) |
| [SelectionTabs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectiontabs?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionTabs) | [SelectionType](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectiontype?view=netcore-3.1#System_Windows_Forms_RichTextBox_SelectionType) | [ShortcutsEnabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.shortcutsenabled?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ShortcutsEnabled) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) |
| [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [ShowSelectionMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.showselectionmargin?view=netcore-3.1#System_Windows_Forms_RichTextBox_ShowSelectionMargin) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) |
| [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) | [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstop?view=netcore-3.1#System_Windows_Forms_Control_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.text?view=netcore-3.1#System_Windows_Forms_RichTextBox_Text) |
| [TextLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.textlength?view=netcore-3.1#System_Windows_Forms_RichTextBox_TextLength) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UndoActionName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.undoactionname?view=netcore-3.1#System_Windows_Forms_RichTextBox_UndoActionName) |
| [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |
| [WordWrap](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.wordwrap?view=netcore-3.1#System_Windows_Forms_TextBoxBase_WordWrap) | [ZoomFactor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.zoomfactor?view=netcore-3.1#System_Windows_Forms_RichTextBox_ZoomFactor) |  |  |

U tabeli 23 su date sve metode za kontrolu *RichTextBox*.

#### **Tabela 23.** Tabela metoda za kontrolu RichTextBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Acce ssibleEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Accessi bleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [AppendText(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.appendtext?view=netcore-3.1#System_Windows_Forms_TextBoxBase_AppendText_System_String_) |
| [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) | [BeginInvoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) |
| [CanPaste(DataFormats+Format](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.canpaste?view=netcore-3.1#System_Windows_Forms_RichTextBox_CanPaste_System_Windows_Forms_DataFormats_Format_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.canpaste?view=netcore-3.1#System_Windows_Forms_RichTextBox_CanPaste_System_Windows_Forms_DataFormats_Format_) | [Clear()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.clear?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Clear) | [ClearUndo()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.clearundo?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ClearUndo) |
| [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) | [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateAccessibilityInstance) | [Copy()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.copy?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Copy) |
| [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) |
| [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.createhandle?view=netcore-3.1#System_Windows_Forms_TextBoxBase_CreateHandle) | [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) |
| [CreateRichEditOleCallback()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.createricheditolecallback?view=netcore-3.1#System_Windows_Forms_RichTextBox_CreateRichEditOleCallback) | [Cut()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.cut?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Cut) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) |
| [DeselectAll()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.deselectall?view=netcore-3.1#System_Windows_Forms_TextBoxBase_DeselectAll) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) |
| [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dispose?view=netcore-3.1#System_Windows_Forms_Control_Dispose_System_Boolean_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.drawtobitmap?view=netcore-3.1#System_Windows_Forms_RichTextBox_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.drawtobitmap?view=netcore-3.1#System_Windows_Forms_RichTextBox_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) |
| [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [Find(Char[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_Char___) |
| [Find(Char[], Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_Char___System_Int32_) | [Find(Char[], Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_Char___System_Int32_System_Int32_) | [Find(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_) |
| Find(String, Int32, [Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_System_Int32_System_Int32_System_Windows_Forms_RichTextBoxFinds_)  [RichTextBoxFinds)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_System_Int32_System_Int32_System_Windows_Forms_RichTextBoxFinds_) | [Find(Str](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_System_Int32_System_Windows_Forms_RichTextBoxFinds_)ing, Int32,  [RichTextBoxFinds)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_System_Int32_System_Windows_Forms_RichTextBoxFinds_) | [Find(String,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_System_Windows_Forms_RichTextBoxFinds_)  [RichTextBoxFinds)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.find?view=netcore-3.1#System_Windows_Forms_RichTextBox_Find_System_String_System_Windows_Forms_RichTextBoxFinds_) |
| [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) | [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) |
| [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) | [GetCharFromPosition(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getcharfromposition?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetCharFromPosition_System_Drawing_Point_) | [etCharIndexFromPosition(Poi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.getcharindexfromposition?view=netcore-3.1#System_Windows_Forms_RichTextBox_GetCharIndexFromPosition_System_Drawing_Point_)  [nt)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.getcharindexfromposition?view=netcore-3.1#System_Windows_Forms_RichTextBox_GetCharIndexFromPosition_System_Drawing_Point_) |
| [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) |

|  |  |  |
| --- | --- | --- |
| [GetFirstCharIndexFromLine(Int](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexfromline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexFromLine_System_Int32_)  [32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexfromline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexFromLine_System_Int32_) | [GetFirstCharIndexOfCurrentLine(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexofcurrentline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexOfCurrentLine)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.getfirstcharindexofcurrentline?view=netcore-3.1#System_Windows_Forms_TextBoxBase_GetFirstCharIndexOfCurrentLine) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) |
| [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetLineFromCharIndex(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.getlinefromcharindex?view=netcore-3.1#System_Windows_Forms_RichTextBox_GetLineFromCharIndex_System_Int32_) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) |
| [GetPositionFromCharIndex(Int](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.getpositionfromcharindex?view=netcore-3.1#System_Windows_Forms_RichTextBox_GetPositionFromCharIndex_System_Int32_)  [32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.getpositionfromcharindex?view=netcore-3.1#System_Windows_Forms_RichTextBox_GetPositionFromCharIndex_System_Int32_) | [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) |
| [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) |
| [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) |
| [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) | [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) |
| [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) | [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) |
| [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) | [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) |
| [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) |
| [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.isinputkey?view=netcore-3.1#System_Windows_Forms_TextBoxBase_IsInputKey_System_Windows_Forms_Keys_) | [LoadFile(Stream,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.loadfile?view=netcore-3.1#System_Windows_Forms_RichTextBox_LoadFile_System_IO_Stream_System_Windows_Forms_RichTextBoxStreamType_)  [RichTextBoxStreamType)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.loadfile?view=netcore-3.1#System_Windows_Forms_RichTextBox_LoadFile_System_IO_Stream_System_Windows_Forms_RichTextBoxStreamType_) | [LoadFile(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.loadfile?view=netcore-3.1#System_Windows_Forms_RichTextBox_LoadFile_System_String_) |
| [LoadFile(String,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.loadfile?view=netcore-3.1#System_Windows_Forms_RichTextBox_LoadFile_System_String_System_Windows_Forms_RichTextBoxStreamType_)  [RichTextBoxStreamType)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.loadfile?view=netcore-3.1#System_Windows_Forms_RichTextBox_LoadFile_System_String_System_Windows_Forms_RichTextBoxStreamType_) | [ogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) | [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) |
| [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) | [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) |
| [OnAcceptsTabChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onacceptstabchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnAcceptsTabChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onacceptstabchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnAcceptsTabChanged_System_EventArgs_) | [OnAutoSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onautosizechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnBackColorChanged_System_EventArgs_) |
| [OnBackgroundImageChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) |
| [OnBorderStyleChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onborderstylechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnBorderStyleChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onborderstylechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnBorderStyleChanged_System_EventArgs_) | [OnCausesValidationChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) |
| [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) | [OnClientSizeChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContentsResized(Contents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.oncontentsresized?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnContentsResized_System_Windows_Forms_ContentsResizedEventArgs_)  [ResizedEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.oncontentsresized?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnContentsResized_System_Windows_Forms_ContentsResizedEventArgs_) |
| [OnContextMenuChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) | [OnControlAdded(ControlEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) |
| [OnControlRemoved(ControlEv](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) | [OnCursorChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) | [OnDpiChangedAfterParent(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) |
| [OnDpiChangedBeforeParent(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) | [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) |
| [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) | [OnEnabledChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_) |
| [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onfontchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnFontChanged_System_EventArgs_) | [OnForeColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) |
| [OnGiveFeedback(GiveFeedbac kEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongotfocus?view=netcore-3.1#System_Windows_Forms_Control_OnGotFocus_System_EventArgs_) | [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onhandlecreated?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnHandleCreated_System_EventArgs_) |
| [OnHandleDestroyed(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnHandleDestroyed_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) | [OnHideSelectionChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onhideselectionchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnHideSelectionChanged_System_EventArgs_) |
| [OnHScroll(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onhscroll?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnHScroll_System_EventArgs_) | [OnImeChange(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onimechange?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnImeChange_System_EventArgs_) | [OnImeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) |
| [OnInvalidated(InvalidateEventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) | [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) |
| [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) | [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) |
| [OnLinkClicked(LinkClickedEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onlinkclicked?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnLinkClicked_System_Windows_Forms_LinkClickedEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onlinkclicked?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnLinkClicked_System_Windows_Forms_LinkClickedEventArgs_) | [OnLocationChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) | [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) |
| [OnMarginChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnModifiedChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmodifiedchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnModifiedChanged_System_EventArgs_) | [OnMouseCaptureChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) |
| [OnMouseClick(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(MouseEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDown(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseenter?view=netcore-3.1#System_Windows_Forms_Control_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) | [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseleave?view=netcore-3.1#System_Windows_Forms_Control_OnMouseLeave_System_EventArgs_) |
| [OnMouseMove(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmouseup?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnMouseUp_System_Windows_Forms_MouseEventArgs_) | [OnMouseWheel(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) |
| [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnMultilineChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onmultilinechanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnMultilineChanged_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) |
| [OnPaddingChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnPaddingChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaint?view=netcore-3.1#System_Windows_Forms_Control_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) |
| [OnParentBackColorChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageChan ged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) |
| [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnParentFontChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) |
| [OnParentVisibleChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(PreviewKey](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [DownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) |
| [OnProtected(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onprotected?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnProtected_System_EventArgs_) | [OnQueryContinueDrag(QueryCo ntinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnReadOnlyChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onreadonlychanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnReadOnlyChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.onreadonlychanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnReadOnlyChanged_System_EventArgs_) |
| [OnRegionChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) | [OnRightToLeftChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnRightToLeftChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnRightToLeftChanged_System_EventArgs_) |
| [OnSelectionChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onselectionchanged?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnSelectionChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onselectionchanged?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnSelectionChanged_System_EventArgs_) | [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) |
| [OnSystemColorsChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) | [OnTabStopChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) |
| [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.ontextchanged?view=netcore-3.1#System_Windows_Forms_TextBoxBase_OnTextChanged_System_EventArgs_) | [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) |
| [OnVisibleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_) | [OnVScroll(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.onvscroll?view=netcore-3.1#System_Windows_Forms_RichTextBox_OnVScroll_System_EventArgs_) | [Paste()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.paste?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Paste) |
| [Paste(DataFormats+Format)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.paste?view=netcore-3.1#System_Windows_Forms_RichTextBox_Paste_System_Windows_Forms_DataFormats_Format_) | [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) |
| [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) | [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) |
| [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) | [ProcessCmdKey(Message, Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.processcmdkey?view=netcore-3.1#System_Windows_Forms_RichTextBox_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) |
| [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.processdialogkey?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ProcessDialogKey_System_Windows_Forms_Keys_) | [ProcessKeyEventArgs(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) |
| [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processmnemonic?view=netcore-3.1#System_Windows_Forms_Control_ProcessMnemonic_System_Char_) | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) |
| [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) |
| [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) |
| [Redo()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.redo?view=netcore-3.1#System_Windows_Forms_RichTextBox_Redo) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) | [RescaleConstantsForDpi(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [2, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) |
| [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) | [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) |
| [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) | [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) |
| [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) | [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) |
| [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) | [RtlTranslateAlignment(Conte ntAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) |
| [RtlTranslateAlignment(Horizon talAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) | [RtlTranslateContent(Content](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) |
| [RtlTranslateHorizontal(Horizon talAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRightAl ignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) | [SaveFile(Stream,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.savefile?view=netcore-3.1#System_Windows_Forms_RichTextBox_SaveFile_System_IO_Stream_System_Windows_Forms_RichTextBoxStreamType_)  [RichTextBoxStreamType)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.savefile?view=netcore-3.1#System_Windows_Forms_RichTextBox_SaveFile_System_IO_Stream_System_Windows_Forms_RichTextBoxStreamType_) |
| [SaveFile(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.savefile?view=netcore-3.1#System_Windows_Forms_RichTextBox_SaveFile_System_String_) | [SaveFile(String,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.savefile?view=netcore-3.1#System_Windows_Forms_RichTextBox_SaveFile_System_String_System_Windows_Forms_RichTextBoxStreamType_)  [RichTextBoxStreamType)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.savefile?view=netcore-3.1#System_Windows_Forms_RichTextBox_SaveFile_System_String_System_Windows_Forms_RichTextBoxStreamType_) | [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) |
| [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) | [ScaleBitmapLogicalToDevice(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__)  [Bitmap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) |
| [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) | [ScrollToCaret()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.scrolltocaret?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ScrollToCaret) |
| [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | [Select(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.select?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Select_System_Int32_System_Int32_) |
| [SelectAll()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.selectall?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SelectAll) | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  Boolean, Boolean, Boolean,  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) | [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) |
| [SetAutoSizeMode(AutoSizeMo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_)  [de)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) |
| SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.setboundscore?view=netcore-3.1#System_Windows_Forms_TextBoxBase_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | [SetClientSizeCore(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) | [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) |
| [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) | [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) |
| [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) | [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.tostring?view=netcore-3.1#System_Windows_Forms_TextBoxBase_ToString) |
| [Undo()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.undo?view=netcore-3.1#System_Windows_Forms_TextBoxBase_Undo) | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) |
| UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | UpdateBounds(Int32, Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) |
| [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.wndproc?view=netcore-3.1#System_Windows_Forms_RichTextBox_WndProc_System_Windows_Forms_Message__) |  |

U tabeli 24 su dati svi događaji za kontrolu *RichTextBox*.

#### **Tabela 24.** Tabela događaja za kontrolu RichTextBox [7]

|  |  |  |
| --- | --- | --- |
| [AcceptsTabChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.acceptstabchanged?view=netcore-3.1) | [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) |
| [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.backgroundimagechanged?view=netcore-3.1) | [BackgroundImageLayoutChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.backgroundimagelayoutchanged?view=netcore-3.1)  [d](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) |
| [BorderStyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.borderstylechanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) | [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) |
| [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) | [ContentsResized](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.contentsresized?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [HideSelectionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.hideselectionchanged?view=netcore-3.1) |
| [HScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.hscroll?view=netcore-3.1) | [ImeChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.imechange?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LinkClicked](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.linkclicked?view=netcore-3.1) | [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) |
| [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) | [ModifiedChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.modifiedchanged?view=netcore-3.1) | [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) |
| [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) | [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) |
| [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) | [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) |
| [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) | [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) |
| [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [MultilineChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.multilinechanged?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.paddingchanged?view=netcore-3.1) |
| [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.paint?view=netcore-3.1) | [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) |
| [Protected](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.protected?view=netcore-3.1) | [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) | [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.querycontinuedrag?view=netcore-3.1) |
| [ReadOnlyChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.textboxbase.readonlychanged?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) | [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) |
| [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SelectionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.selectionchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) |
| [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) | [VScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.richtextbox.vscroll?view=netcore-3.1) |

### 6.9.7. Kontrola ListBox

Kontrola [ListBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox?view=netcore-3.1) (kontrola broj 9 sa slike 26) omogućava da se korisniku prikaže lista stavki koje korisnik može odabrati klikom. Kontrola *ListBox* može pružiti pojedinačni ili višestruki izbor koristeći svojstvo SelectionMode. *ListBox* kontrola takođe pruža svojstvo *MultiColumn*, tj. svojstvo koje omogućava prikaz stavki u kolonama umesto ravne vertikalne liste stavki.

Windows obično obavlja zadatak crtanja stavki koje će se prikazati u ListBok-u. Može se koristiti svojstvo *DrawMode* i rukovati *MeasureItem* i *DrawItem* događajima, tako da se nadjača automatski crtež koji pruža *Windows* i da korisnik sam crta stavke. Mogu se koristiti kontrolne liste ListBox koje su nacrtali vlasnici za prikaz stavki, slika ili druge boje u boji promenljive za tekst svake stavke na listi. Svojstva *HorizontalExtent*, *GetItemHeight* i *GetItemRectangle* takođe pomažu u crtanju sopstvenih predmeta.

Pored funkcije za prikaz i odabir, *ListBox* nudi i funkcije koje omogućavaju da se efikasno dodaju stavke u *ListBox* i da se pronađe tekst u stavkama liste. Metode *BeginUpdate* i *EndUpdate* omogućavaju da se doda veliki broj stavki u ListBox bez da se kontrola preispituje svaki put kada se stavka doda u listu. Metode *FindString* i *FindStringEkact* omogućavaju da se traži stavka na listi koja sadrži određeni niz pretraživanja.

Svojstva *Item*, *SelectedItems* i *SelectedIndices* omogućavaju pristup kolekcijama koje koristi ListBox. Sledeća tabela (tabela 25) prikazuje tri kolekcije koje *ListBox* koristi i njihovu upotrebu unutar kontrole.

#### **Tabela 25.** Tabela klasa kolekcija za ListBox [7]

|  |  |
| --- | --- |
| **Klasa kolekcija** | **Koristi se u sklopu ListBox kontole** |
| [ListBox.ObjectCollection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.objectcollection?view=netcore-3.1) | Sadrži sve stavke sadržane u listi ListBox. |
| [ListBox.SelectedObjectCollection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selectedobjectcollection?view=netcore-3.1) | Sadrži kolekciju izabranih stavki koja je podskup stavki sadržanih u listi ListBox. |
| [ListBox.SelectedIndexCollection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selectedindexcollection?view=netcore-3.1) | Sadrži kolekciju odabranih indeksa, koja je podskup indeksa  ListBok.ObjectCollection. Ovi indeksi određuju izabrane stavke. |

Metoda dodavanja klase *ListBox*.*ObjectCollection* omogućava dodavanje stavki u *ListBox*.

Metoda *Add* može prihvatiti bilo koji objekt prilikom dodavanja člana u *ListBox*. Kada se objekat dodaje u *ListBox*, kontrola koristi tekst definisan u *ToString* metodi objekta, osim ako se u svojstvu

*DisplaiMember* navodi ime člana unutar objekta. Za dodavanje stavki koristi se metoda *Add* iz klase *ListBox*.*ObjectCollection*, a može da se doda i stavke koristeći svojstvo *DataSource*, iz klase *ListControl*.

U tabeli 26 su data sva svojstva za kontrolu *ListBox*.

#### **Tabela 26.** Tabela svojstava za kontrolu ListBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultAction](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription)  [Description](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [AllowSelection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.allowselection?view=netcore-3.1#System_Windows_Forms_ListBox_AllowSelection) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) |
| [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autosize?view=netcore-3.1#System_Windows_Forms_Control_AutoSize) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backcolor?view=netcore-3.1#System_Windows_Forms_ListBox_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backgroundimage?view=netcore-3.1#System_Windows_Forms_ListBox_BackgroundImage) |
| [BackgroundImageLay](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_ListBox_BackgroundImageLayout)  [out](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_ListBox_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BorderStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.borderstyle?view=netcore-3.1#System_Windows_Forms_ListBox_BorderStyle) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) |
| [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) |
| [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) |
| [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [ColumnWidth](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.columnwidth?view=netcore-3.1#System_Windows_Forms_ListBox_ColumnWidth) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) |
| [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) |
| [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.createparams?view=netcore-3.1#System_Windows_Forms_ListBox_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [CustomTabOffsets](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.customtaboffsets?view=netcore-3.1#System_Windows_Forms_ListBox_CustomTabOffsets) |
| [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DataManager](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.datamanager?view=netcore-3.1#System_Windows_Forms_ListControl_DataManager) | [DataSource](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.datasource?view=netcore-3.1#System_Windows_Forms_ListControl_DataSource) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) |
| [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultimemode?view=netcore-3.1#System_Windows_Forms_Control_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSiz](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize)  [e](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) |
| [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.defaultsize?view=netcore-3.1#System_Windows_Forms_ListBox_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) |
| [DisplayMember](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.displaymember?view=netcore-3.1#System_Windows_Forms_ListControl_DisplayMember) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [DrawMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.drawmode?view=netcore-3.1#System_Windows_Forms_ListBox_DrawMode) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) |
| [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.font?view=netcore-3.1#System_Windows_Forms_ListBox_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.forecolor?view=netcore-3.1#System_Windows_Forms_ListBox_ForeColor) |
| [FormatInfo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatinfo?view=netcore-3.1#System_Windows_Forms_ListControl_FormatInfo) | [FormatString](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatstring?view=netcore-3.1#System_Windows_Forms_ListControl_FormatString) | [FormattingEnabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formattingenabled?view=netcore-3.1#System_Windows_Forms_ListControl_FormattingEnabled) | [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) |
| [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [HorizontalExtent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.horizontalextent?view=netcore-3.1#System_Windows_Forms_ListBox_HorizontalExtent) | [HorizontalScrollbar](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.horizontalscrollbar?view=netcore-3.1#System_Windows_Forms_ListBox_HorizontalScrollbar) |
| [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemode?view=netcore-3.1#System_Windows_Forms_Control_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [IntegralHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.integralheight?view=netcore-3.1#System_Windows_Forms_ListBox_IntegralHeight) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) |
| [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) | [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) |
| [ItemHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.itemheight?view=netcore-3.1#System_Windows_Forms_ListBox_ItemHeight) | [Items](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.items?view=netcore-3.1#System_Windows_Forms_ListBox_Items) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) |
| [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) |
| [MultiColumn](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.multicolumn?view=netcore-3.1#System_Windows_Forms_ListBox_MultiColumn) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.padding?view=netcore-3.1#System_Windows_Forms_ListBox_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) |
| [PreferredHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.preferredheight?view=netcore-3.1#System_Windows_Forms_ListBox_PreferredHeight) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) |
| [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) |
| [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ScrollAlwaysVisible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.scrollalwaysvisible?view=netcore-3.1#System_Windows_Forms_ListBox_ScrollAlwaysVisible) |
| [SelectedIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selectedindex?view=netcore-3.1#System_Windows_Forms_ListBox_SelectedIndex) | [SelectedIndices](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selectedindices?view=netcore-3.1#System_Windows_Forms_ListBox_SelectedIndices) | [SelectedItem](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selecteditem?view=netcore-3.1#System_Windows_Forms_ListBox_SelectedItem) | [SelectedItems](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selecteditems?view=netcore-3.1#System_Windows_Forms_ListBox_SelectedItems) |
| [SelectedValue](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.selectedvalue?view=netcore-3.1#System_Windows_Forms_ListControl_SelectedValue) | [SelectionMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selectionmode?view=netcore-3.1#System_Windows_Forms_ListBox_SelectionMode) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) |
| [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [Sorted](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.sorted?view=netcore-3.1#System_Windows_Forms_ListBox_Sorted) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) |
| [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstop?view=netcore-3.1#System_Windows_Forms_Control_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.text?view=netcore-3.1#System_Windows_Forms_ListBox_Text) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) |
| [TopIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.topindex?view=netcore-3.1#System_Windows_Forms_ListBox_TopIndex) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UseCustomTabOffsets](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.usecustomtaboffsets?view=netcore-3.1#System_Windows_Forms_ListBox_UseCustomTabOffsets) | [UseTabStops](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.usetabstops?view=netcore-3.1#System_Windows_Forms_ListBox_UseTabStops) |
| [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [ValueMember](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.valuemember?view=netcore-3.1#System_Windows_Forms_ListControl_ValueMember) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) |
| [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |  |  |

U tabeli 27 su date sve metode za kontrolu *ListBox*.

#### **Tabela 27.** Tabela metoda za kontrolu ListBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessib leEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acc essibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [AddItemsCore(Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.additemscore?view=netcore-3.1#System_Windows_Forms_ListBox_AddItemsCore_System_Object___) |
| [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) | [BeginInvoke(Delegate,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___)  [Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BeginUpdate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.beginupdate?view=netcore-3.1#System_Windows_Forms_ListBox_BeginUpdate) |
| [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [ClearSelected()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.clearselected?view=netcore-3.1#System_Windows_Forms_ListBox_ClearSelected) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) |
| [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_ListBox_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) |
| [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) | [CreateItemCollection()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.createitemcollection?view=netcore-3.1#System_Windows_Forms_ListBox_CreateItemCollection) |
| [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) |
| [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dispose?view=netcore-3.1#System_Windows_Forms_Control_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) |
| [DrawToBitmap(Bitmap, Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) | [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [EndUpdate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.endupdate?view=netcore-3.1#System_Windows_Forms_ListBox_EndUpdate) |
| [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FilterItemOnProperty(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.filteritemonproperty?view=netcore-3.1#System_Windows_Forms_ListControl_FilterItemOnProperty_System_Object_) | [FilterItemOnProperty(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.filteritemonproperty?view=netcore-3.1#System_Windows_Forms_ListControl_FilterItemOnProperty_System_Object_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.filteritemonproperty?view=netcore-3.1#System_Windows_Forms_ListControl_FilterItemOnProperty_System_Object_System_String_) |
| [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) | [FindString(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.findstring?view=netcore-3.1#System_Windows_Forms_ListBox_FindString_System_String_) | [FindString(String, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.findstring?view=netcore-3.1#System_Windows_Forms_ListBox_FindString_System_String_System_Int32_) |
| [FindStringExact(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.findstringexact?view=netcore-3.1#System_Windows_Forms_ListBox_FindStringExact_System_String_) | [FindStringExact(String, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.findstringexact?view=netcore-3.1#System_Windows_Forms_ListBox_FindStringExact_System_String_System_Int32_) | [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) |
| [GetAccessibilityObjectById(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) | [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) |
| [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) |
| [GetItemHeight(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.getitemheight?view=netcore-3.1#System_Windows_Forms_ListBox_GetItemHeight_System_Int32_) | [GetItemRectangle(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.getitemrectangle?view=netcore-3.1#System_Windows_Forms_ListBox_GetItemRectangle_System_Int32_) | [GetItemText(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.getitemtext?view=netcore-3.1#System_Windows_Forms_ListControl_GetItemText_System_Object_) |
| [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) | [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) |
| [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.getscaledbounds?view=netcore-3.1#System_Windows_Forms_ListBox_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.getscaledbounds?view=netcore-3.1#System_Windows_Forms_ListBox_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetSelected(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.getselected?view=netcore-3.1#System_Windows_Forms_ListBox_GetSelected_System_Int32_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) |
| [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) |
| [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [IndexFromPoint(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.indexfrompoint?view=netcore-3.1#System_Windows_Forms_ListBox_IndexFromPoint_System_Int32_System_Int32_) | [IndexFromPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.indexfrompoint?view=netcore-3.1#System_Windows_Forms_ListBox_IndexFromPoint_System_Drawing_Point_) |
| [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) |

|  |  |  |
| --- | --- | --- |
| [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) |
| [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) |
| [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeOnClick(Control, EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Cont rol, PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.isinputkey?view=netcore-3.1#System_Windows_Forms_ListControl_IsInputKey_System_Windows_Forms_Keys_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) |
| [OnBackgroundImageChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnBindingContextChanged_System_EventArgs_) |
| [OnCausesValidationChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onchangeuicues?view=netcore-3.1#System_Windows_Forms_ListBox_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onchangeuicues?view=netcore-3.1#System_Windows_Forms_ListBox_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) |
| [OnClientSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDataSourceChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.ondatasourcechanged?view=netcore-3.1#System_Windows_Forms_ListBox_OnDataSourceChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.ondatasourcechanged?view=netcore-3.1#System_Windows_Forms_ListBox_OnDataSourceChanged_System_EventArgs_) | [OnDisplayMemberChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.ondisplaymemberchanged?view=netcore-3.1#System_Windows_Forms_ListBox_OnDisplayMemberChanged_System_EventArgs_) |
| [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) | [OnDpiChangedAfterParent(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) |
| [OnDpiChangedBeforeParent(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) | [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) |
| [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) | [OnDrawItem(DrawItemEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.ondrawitem?view=netcore-3.1#System_Windows_Forms_ListBox_OnDrawItem_System_Windows_Forms_DrawItemEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.ondrawitem?view=netcore-3.1#System_Windows_Forms_ListBox_OnDrawItem_System_Windows_Forms_DrawItemEventArgs_) |
| [OnEnabledChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onfontchanged?view=netcore-3.1#System_Windows_Forms_ListBox_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnFormat(ListControlConvert](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformat?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormat_System_Windows_Forms_ListControlConvertEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformat?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormat_System_Windows_Forms_ListControlConvertEventArgs_) | [OnFormatInfoChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatinfochanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatInfoChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatinfochanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatInfoChanged_System_EventArgs_) |
| [OnFormatStringChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatstringchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatStringChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatstringchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatStringChanged_System_EventArgs_) | [OnFormattingEnabledChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformattingenabledchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormattingEnabledChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) |
| [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.ongotfocus?view=netcore-3.1#System_Windows_Forms_ListBox_OnGotFocus_System_EventArgs_) | [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onhandlecreated?view=netcore-3.1#System_Windows_Forms_ListBox_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_ListBox_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_ListBox_OnHandleDestroyed_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnHelpRequested(HelpEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) | [OnImeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) |
| [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) |
| [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) |
| [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMeasureItem(MeasureIte mEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onmeasureitem?view=netcore-3.1#System_Windows_Forms_ListBox_OnMeasureItem_System_Windows_Forms_MeasureItemEventArgs_) |
| [OnMouseCaptureChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDown(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseenter?view=netcore-3.1#System_Windows_Forms_Control_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) |
| [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseleave?view=netcore-3.1#System_Windows_Forms_Control_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseWheel(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) |
| [OnPaddingChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaint?view=netcore-3.1#System_Windows_Forms_Control_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) |
| [OnParentBackColorChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) |
| [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onparentchanged?view=netcore-3.1#System_Windows_Forms_ListBox_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) |
| [OnParentFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) |
| [OnParentVisibleChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(Preview](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [KeyDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) |
| [OnQueryContinueDrag(QueryCon tinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.onresize?view=netcore-3.1#System_Windows_Forms_ListBox_OnResize_System_EventArgs_) |
| [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) |
| [OnTabStopChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTextChanged_System_EventArgs_) | [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) |
| [OnValidating(CancelEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnValueMemberChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onvaluememberchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnValueMemberChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onvaluememberchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnValueMemberChanged_System_EventArgs_) | [OnVisibleChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_) |
| [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) |

|  |  |  |
| --- | --- | --- |
| [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(M essage)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | [PreProcessMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) |
| [ProcessCmdKey(Message, Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) |
| [ProcessKeyEventArgs(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyEventArgs(Messag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__)  [e)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) |
| [ProcessKeyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processmnemonic?view=netcore-3.1#System_Windows_Forms_Control_ProcessMnemonic_System_Char_) |
| [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) |
| [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) |
| [RectangleToScreen(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.refresh?view=netcore-3.1#System_Windows_Forms_ListBox_Refresh) | [RefreshItem(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.refreshitem?view=netcore-3.1#System_Windows_Forms_ListBox_RefreshItem_System_Int32_) |
| [RefreshItems()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.refreshitems?view=netcore-3.1#System_Windows_Forms_ListBox_RefreshItems) | [RescaleConstantsForDpi(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_ListBox_RescaleConstantsForDpi_System_Int32_System_Int32_)  [2, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_ListBox_RescaleConstantsForDpi_System_Int32_System_Int32_) | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.resetbackcolor?view=netcore-3.1#System_Windows_Forms_ListBox_ResetBackColor) |
| [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) | [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) |
| [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.resetforecolor?view=netcore-3.1#System_Windows_Forms_ListBox_ResetForeColor) | [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) |
| [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) | [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) |
| [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) | [RtlTranslateAlignment(Conte ntAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | [RtlTranslateAlignment(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) |
| [RtlTranslateAlignment(LeftRightAli gnment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) | [RtlTranslateContent(Content](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | [RtlTranslateHorizontal(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) |
| [RtlTranslateLeftRight(LeftRightAlig nment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) | [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) |
| [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) | [ScaleBitmapLogicalToDevice(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__)  [Bitmap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.scalecontrol?view=netcore-3.1#System_Windows_Forms_ListBox_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.scalecontrol?view=netcore-3.1#System_Windows_Forms_ListBox_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) |
| [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) | [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) |
| [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [B](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)oolean, Boolean,  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) | [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | [SetAutoSizeMode(AutoSizeM ode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) |
| SetBounds(Int32, Int32, Int32,  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | SetBoundsCore(Int32, Int32[,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.setboundscore?view=netcore-3.1#System_Windows_Forms_ListBox_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.setboundscore?view=netcore-3.1#System_Windows_Forms_ListBox_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) |
| [SetClientSizeCore(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) | [SetItemCore(Int32, Object)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.setitemcore?view=netcore-3.1#System_Windows_Forms_ListBox_SetItemCore_System_Int32_System_Object_) | [SetItemsCore(IList)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.setitemscore?view=netcore-3.1#System_Windows_Forms_ListBox_SetItemsCore_System_Collections_IList_) |
| [SetSelected(Int32, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.setselected?view=netcore-3.1#System_Windows_Forms_ListBox_SetSelected_System_Int32_System_Boolean_) | [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) |
| [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) | [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) |
| [Sort()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.sort?view=netcore-3.1#System_Windows_Forms_ListBox_Sort) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) | [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.tostring?view=netcore-3.1#System_Windows_Forms_ListBox_ToString) |
| [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) | UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [UpdateBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) | [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) |
| [WmReflectCommand(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.wmreflectcommand?view=netcore-3.1#System_Windows_Forms_ListBox_WmReflectCommand_System_Windows_Forms_Message__) | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.wndproc?view=netcore-3.1#System_Windows_Forms_ListBox_WndProc_System_Windows_Forms_Message__) |  |

U tabeli 28 su dati svi događaji za kontrolu *ListBox*.

#### **Tabela 28.** Tabela događaja za kontrolu ListBox [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChan](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backgroundimagelayoutchanged?view=netcore-3.1)  [ged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [DataSourceChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.datasourcechanged?view=netcore-3.1) |
| [DisplayMemberChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.displaymemberchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) | [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) |
| [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) | [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) |
| [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) | [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) |
| [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [DrawItem](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.drawitem?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [Format](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.format?view=netcore-3.1) | [FormatInfoChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatinfochanged?view=netcore-3.1) | [FormatStringChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatstringchanged?view=netcore-3.1) |
| [FormattingEnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formattingenabledchanged?view=netcore-3.1) | [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) |
| [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) | [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) |
| [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodechanged?view=netcore-3.1) | [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) |
| [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) | [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) |
| [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) | [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) |
| [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) | [MeasureItem](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.measureitem?view=netcore-3.1) | [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) |
| [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) | [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) |
| [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) | [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) |
| [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) | [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) |
| [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.paddingchanged?view=netcore-3.1) | [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.paint?view=netcore-3.1) |
| [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) | [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) |
| [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) | [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) |
| [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SelectedIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.selectedindexchanged?view=netcore-3.1) | [SelectedValueChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.selectedvaluechanged?view=netcore-3.1) |
| [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) | [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) |
| [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) | [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listbox.textchanged?view=netcore-3.1) |
| [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) | [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [ValueMemberChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.valuememberchanged?view=netcore-3.1) |
| [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |  |  |

### 6.9.8. Kontrola ComboBox

[ComboBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox?view=netcore-3.1) je standardna grafička kontrola koju ste sigurno već sreli (kontrola broj 10 sa slike 26). *ComboBox* prikazuje tekstualni okvir u kombinaciji sa *ListBox* kontrolom, koji korisniku omogućava da odabere stavke sa liste ili da unese novu vrednost.

Svojstvo *DropDownStile* određuje da li se lista uvek prikazuje ili je lista prikazana u padajućem meniju. Svojstvo *DropDownStile* takođe određuje da li se deo teksta može uređivati. Svojstvo ComboBoxStile se koristi za dostupne postavke i njihove efekte. Ne postoji podešavanje za stalno prikazivanje liste i zabrane unošenja nove vrednosti. Da bi se prikazala lista kojoj se ne mogu dodati nove vrednosti, koristiće se kontrola *ListeBox*.

Da bi se dodali ili uklonili objekte na listi, koriste se metode klase *ComboBox*.*ObjectCollection* (kroz svojstvo *Items* *ComboBox*). Pomoću metode *AddRange* može se dodeliti niz referenci objekta. Nakon toga lista prikazuje zadatu vrednost niza za svaki objekt. Pojedini objekti mogu se dodati metodom *Add*. Može da se obriše stavka iz kontole pomoću metodom *Remove* ili da se obrišu čitavi liste metodom *Clear*.

Pored funkcionalnosti prikaza i odabira, *ComboBox* nudi i funkcije koje omogućavaju da efikasno dodate stavke u *ComboBox* i da pronađete tekst unutar stavki liste. Pomoću metoda BeginUpdate i EndUpdate možete dodati veliki broj stavki u *ComboBox* bez da se kontrola preispituje svaki put kada se stavka doda na listu. Metode *FindString* i *FindStringExact* omogućavaju da se traži stavka na listi koja sadrži određeni niz pretraživanja.

Mogu da se koriste sledeća svojstva za upravljanje trenutno odabranom stavkom na listi, svojstvo

*Text* da se odredi niz prikazan u polju za uređivanje, svojstvo *SelectedIndek* da bi se dobila ili postavila trenutna stavka, a svojstvo SelectedItem da bi se dobila ili postavila referenca na objekat.

U tabeli 29 su data sva svojstva za kontrolu *ComboBox*.

#### **Tabela 29.** Tabela svojstava za kontrolu ComboBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultAction](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription)  [Description](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [AllowSelection](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.allowselection?view=netcore-3.1#System_Windows_Forms_ListControl_AllowSelection) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) |
| [AutoCompleteCustomS](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.autocompletecustomsource?view=netcore-3.1#System_Windows_Forms_ComboBox_AutoCompleteCustomSource)  [ource](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.autocompletecustomsource?view=netcore-3.1#System_Windows_Forms_ComboBox_AutoCompleteCustomSource) | [AutoCompleteMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.autocompletemode?view=netcore-3.1#System_Windows_Forms_ComboBox_AutoCompleteMode) | [AutoCompleteSource](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.autocompletesource?view=netcore-3.1#System_Windows_Forms_ComboBox_AutoCompleteSource) | [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) |
| [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autosize?view=netcore-3.1#System_Windows_Forms_Control_AutoSize) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backcolor?view=netcore-3.1#System_Windows_Forms_ComboBox_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backgroundimage?view=netcore-3.1#System_Windows_Forms_ComboBox_BackgroundImage) | [BackgroundImageLa](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_ComboBox_BackgroundImageLayout)  [yout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_ComboBox_BackgroundImageLayout) |
| [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) |
| [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) |
| [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) | [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) |
| [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) |
| [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.createparams?view=netcore-3.1#System_Windows_Forms_ComboBox_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) |
| [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DataManager](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.datamanager?view=netcore-3.1#System_Windows_Forms_ListControl_DataManager) | [DataSource](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.datasource?view=netcore-3.1#System_Windows_Forms_ComboBox_DataSource) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) |
| [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultimemode?view=netcore-3.1#System_Windows_Forms_Control_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) |
| [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.defaultsize?view=netcore-3.1#System_Windows_Forms_ComboBox_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) |
| [DisplayMember](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.displaymember?view=netcore-3.1#System_Windows_Forms_ListControl_DisplayMember) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [DrawMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.drawmode?view=netcore-3.1#System_Windows_Forms_ComboBox_DrawMode) | [DropDownHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dropdownheight?view=netcore-3.1#System_Windows_Forms_ComboBox_DropDownHeight) | [DropDownStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dropdownstyle?view=netcore-3.1#System_Windows_Forms_ComboBox_DropDownStyle) |
| [DropDownWidth](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dropdownwidth?view=netcore-3.1#System_Windows_Forms_ComboBox_DropDownWidth) | [DroppedDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.droppeddown?view=netcore-3.1#System_Windows_Forms_ComboBox_DroppedDown) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) |
| [FlatStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.flatstyle?view=netcore-3.1#System_Windows_Forms_ComboBox_FlatStyle) | [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.focused?view=netcore-3.1#System_Windows_Forms_ComboBox_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) |
| [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.forecolor?view=netcore-3.1#System_Windows_Forms_ComboBox_ForeColor) | [FormatInfo](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatinfo?view=netcore-3.1#System_Windows_Forms_ListControl_FormatInfo) | [FormatString](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatstring?view=netcore-3.1#System_Windows_Forms_ListControl_FormatString) | [FormattingEnabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formattingenabled?view=netcore-3.1#System_Windows_Forms_ListControl_FormattingEnabled) |
| [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemode?view=netcore-3.1#System_Windows_Forms_Control_ImeMode) |
| [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [IntegralHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.integralheight?view=netcore-3.1#System_Windows_Forms_ComboBox_IntegralHeight) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) |
| [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [ItemHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.itemheight?view=netcore-3.1#System_Windows_Forms_ComboBox_ItemHeight) |
| [Items](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.items?view=netcore-3.1#System_Windows_Forms_ComboBox_Items) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) |
| [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) | [MaxDropDownItems](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.maxdropdownitems?view=netcore-3.1#System_Windows_Forms_ComboBox_MaxDropDownItems) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.maximumsize?view=netcore-3.1#System_Windows_Forms_ComboBox_MaximumSize) | [MaxLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.maxlength?view=netcore-3.1#System_Windows_Forms_ComboBox_MaxLength) |
| [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.minimumsize?view=netcore-3.1#System_Windows_Forms_ComboBox_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.padding?view=netcore-3.1#System_Windows_Forms_ComboBox_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) |
| [PreferredHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.preferredheight?view=netcore-3.1#System_Windows_Forms_ComboBox_PreferredHeight) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) |
| [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) |
| [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [SelectedIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectedindex?view=netcore-3.1#System_Windows_Forms_ComboBox_SelectedIndex) |
| [SelectedItem](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selecteditem?view=netcore-3.1#System_Windows_Forms_ComboBox_SelectedItem) | [SelectedText](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectedtext?view=netcore-3.1#System_Windows_Forms_ComboBox_SelectedText) | [SelectedValue](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.selectedvalue?view=netcore-3.1#System_Windows_Forms_ListControl_SelectedValue) | [SelectionLength](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectionlength?view=netcore-3.1#System_Windows_Forms_ComboBox_SelectionLength) |
| [SelectionStart](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectionstart?view=netcore-3.1#System_Windows_Forms_ComboBox_SelectionStart) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) |
| [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [Sorted](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.sorted?view=netcore-3.1#System_Windows_Forms_ComboBox_Sorted) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) | [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstop?view=netcore-3.1#System_Windows_Forms_Control_TabStop) |
| [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.text?view=netcore-3.1#System_Windows_Forms_ComboBox_Text) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) | [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) |
| [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [ValueMember](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.valuemember?view=netcore-3.1#System_Windows_Forms_ListControl_ValueMember) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) |
| [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |  |  |

U tabeli 30 su date sve metode za kontrolu *ComboBox*.

#### **Tabela 30.** Tabela metoda za kontrolu ComboBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessi bleEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acces sibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [AddItemsCore(Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.additemscore?view=netcore-3.1#System_Windows_Forms_ComboBox_AddItemsCore_System_Object___) |
| [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) | [BeginInvoke(Delegate,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___)  [Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BeginUpdate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.beginupdate?view=netcore-3.1#System_Windows_Forms_ComboBox_BeginUpdate) |
| [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) | [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_ComboBox_CreateAccessibilityInstance) |
| [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) | [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) |
| [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.createhandle?view=netcore-3.1#System_Windows_Forms_ComboBox_CreateHandle) | [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) |
| [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dispose?view=netcore-3.1#System_Windows_Forms_ComboBox_Dispose_System_Boolean_) |
| [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) | [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) |
| [EndUpdate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.endupdate?view=netcore-3.1#System_Windows_Forms_ComboBox_EndUpdate) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FilterItemOnProperty(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.filteritemonproperty?view=netcore-3.1#System_Windows_Forms_ListControl_FilterItemOnProperty_System_Object_) |
| [FilterItemOnProperty(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.filteritemonproperty?view=netcore-3.1#System_Windows_Forms_ListControl_FilterItemOnProperty_System_Object_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.filteritemonproperty?view=netcore-3.1#System_Windows_Forms_ListControl_FilterItemOnProperty_System_Object_System_String_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) | [FindString(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.findstring?view=netcore-3.1#System_Windows_Forms_ComboBox_FindString_System_String_) |
| [FindString(String, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.findstring?view=netcore-3.1#System_Windows_Forms_ComboBox_FindString_System_String_System_Int32_) | [FindStringExact(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.findstringexact?view=netcore-3.1#System_Windows_Forms_ComboBox_FindStringExact_System_String_) | [FindStringExact(String, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.findstringexact?view=netcore-3.1#System_Windows_Forms_ComboBox_FindStringExact_System_String_System_Int32_) |
| [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [2)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) |
| [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) |
| [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetItemHeight(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.getitemheight?view=netcore-3.1#System_Windows_Forms_ComboBox_GetItemHeight_System_Int32_) | [GetItemText(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.getitemtext?view=netcore-3.1#System_Windows_Forms_ListControl_GetItemText_System_Object_) |
| [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) | [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) |
| [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) |
| [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) |
| [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) |

|  |  |  |
| --- | --- | --- |
| [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) |
| [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) |
| [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Cont rol, PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.isinputkey?view=netcore-3.1#System_Windows_Forms_ComboBox_IsInputKey_System_Windows_Forms_Keys_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnBackColorChanged_System_EventArgs_) |
| [OnBackgroundImageChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutCh anged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnBindingContextChanged_System_EventArgs_) |
| [OnCausesValidationChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) |
| [OnClientSizeChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlEv entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDataSourceChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondatasourcechanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDataSourceChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondatasourcechanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDataSourceChanged_System_EventArgs_) | [OnDisplayMemberChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondisplaymemberchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDisplayMemberChanged_System_EventArgs_) |
| [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) | [OnDpiChangedAfterParent(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) |
| [OnDpiChangedBeforeParent(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) | [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) |
| [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) | [OnDrawItem(DrawItemEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondrawitem?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDrawItem_System_Windows_Forms_DrawItemEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondrawitem?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDrawItem_System_Windows_Forms_DrawItemEventArgs_) |
| [OnDropDown(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondropdown?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDropDown_System_EventArgs_) | [OnDropDownClosed(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondropdownclosed?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDropDownClosed_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondropdownclosed?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDropDownClosed_System_EventArgs_) | [OnDropDownStyleChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ondropdownstylechanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnDropDownStyleChanged_System_EventArgs_) |
| [OnEnabledChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onfontchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnForeColorChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnForeColorChanged_System_EventArgs_) | [OnFormat(ListControlConvertE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformat?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormat_System_Windows_Forms_ListControlConvertEventArgs_) | [OnFormatInfoChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatinfochanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatInfoChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatinfochanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatInfoChanged_System_EventArgs_) |
| [OnFormatStringChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatstringchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatStringChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformatstringchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormatStringChanged_System_EventArgs_) | [OnFormattingEnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformattingenabledchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormattingEnabledChanged_System_EventArgs_)  [(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onformattingenabledchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnFormattingEnabledChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ongotfocus?view=netcore-3.1#System_Windows_Forms_ComboBox_OnGotFocus_System_EventArgs_) | [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onhandlecreated?view=netcore-3.1#System_Windows_Forms_ComboBox_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_ComboBox_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_ComboBox_OnHandleDestroyed_System_EventArgs_) |
| [OnHelpRequested(HelpEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) | [OnImeModeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) |
| [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onkeydown?view=netcore-3.1#System_Windows_Forms_ComboBox_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onkeypress?view=netcore-3.1#System_Windows_Forms_ComboBox_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onkeypress?view=netcore-3.1#System_Windows_Forms_ComboBox_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) |
| [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) |
| [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onlostfocus?view=netcore-3.1#System_Windows_Forms_ComboBox_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMeasureItem(MeasureIte mEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onmeasureitem?view=netcore-3.1#System_Windows_Forms_ComboBox_OnMeasureItem_System_Windows_Forms_MeasureItemEventArgs_) |
| [OnMouseCaptureChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDown(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onmouseenter?view=netcore-3.1#System_Windows_Forms_ComboBox_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) |
| [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onmouseleave?view=netcore-3.1#System_Windows_Forms_ComboBox_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseWheel(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) |
| [OnPaddingChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaint?view=netcore-3.1#System_Windows_Forms_Control_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) |
| [OnParentBackColorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnParentBackColorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageCh anged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) |
| [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) |
| [OnParentFontChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) |
| [OnParentVisibleChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(PreviewKe yDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) |
| [OnQueryContinueDrag(QueryCo ntinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onresize?view=netcore-3.1#System_Windows_Forms_ComboBox_OnResize_System_EventArgs_) |
| [OnRightToLeftChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) | [OnSelectedIndexChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselectedindexchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectedIndexChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselectedindexchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectedIndexChanged_System_EventArgs_) | [OnSelectedItemChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselecteditemchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectedItemChanged_System_EventArgs_) |
| [OnSelectedValueChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselectedvaluechanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectedValueChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselectedvaluechanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectedValueChanged_System_EventArgs_) | [OnSelectionChangeCommitted](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselectionchangecommitted?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectionChangeCommitted_System_EventArgs_)  [(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onselectionchangecommitted?view=netcore-3.1#System_Windows_Forms_ComboBox_OnSelectionChangeCommitted_System_EventArgs_) | [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) |
| [OnTabStopChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ontextchanged?view=netcore-3.1#System_Windows_Forms_ComboBox_OnTextChanged_System_EventArgs_) | [OnTextUpdate(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.ontextupdate?view=netcore-3.1#System_Windows_Forms_ComboBox_OnTextUpdate_System_EventArgs_) |
| [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.onvalidating?view=netcore-3.1#System_Windows_Forms_ComboBox_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnValueMemberChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onvaluememberchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnValueMemberChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.onvaluememberchanged?view=netcore-3.1#System_Windows_Forms_ListControl_OnValueMemberChanged_System_EventArgs_) |
| [OnVisibleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_) | [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) |
| [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) | [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) |
| [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) | [ProcessCmdKey(Message,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.processcmdkey?view=netcore-3.1#System_Windows_Forms_ComboBox_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_)  [Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.processcmdkey?view=netcore-3.1#System_Windows_Forms_ComboBox_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) |
| [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) | [ProcessKeyEventArgs(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_ComboBox_ProcessKeyEventArgs_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_ComboBox_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) |
| [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processmnemonic?view=netcore-3.1#System_Windows_Forms_Control_ProcessMnemonic_System_Char_) | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) |
| [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) |
| [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) |
| [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) | [RefreshItem(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.refreshitem?view=netcore-3.1#System_Windows_Forms_ComboBox_RefreshItem_System_Int32_) | [RefreshItems()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.refreshitems?view=netcore-3.1#System_Windows_Forms_ComboBox_RefreshItems) |
| [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) |
| [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.resettext?view=netcore-3.1#System_Windows_Forms_ComboBox_ResetText) | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(ContentAl ignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | [RtlTranslateAlignment(Horizon talAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(ContentAlig nment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | [RtlTranslateHorizontal(Horizon talAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(Bit map)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.scalecontrol?view=netcore-3.1#System_Windows_Forms_ComboBox_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.scalecontrol?view=netcore-3.1#System_Windows_Forms_ComboBox_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) |
| [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | [Select(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.select?view=netcore-3.1#System_Windows_Forms_ComboBox_Select_System_Int32_System_Int32_) [SelectAll()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectall?view=netcore-3.1#System_Windows_Forms_ComboBox_SelectAll) |
| [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  Boolean, Boolean, Bo[olean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) | [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | [SetAutoSizeMode(AutoSizeM ode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) |
| [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.setboundscore?view=netcore-3.1#System_Windows_Forms_ComboBox_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) |
| [SetClientSizeCore(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) | [SetItemCore(Int32, Object)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.setitemcore?view=netcore-3.1#System_Windows_Forms_ComboBox_SetItemCore_System_Int32_System_Object_) | [SetItemsCore(IList)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.setitemscore?view=netcore-3.1#System_Windows_Forms_ComboBox_SetItemsCore_System_Collections_IList_) |
| [SetStyle(ControlStyles, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) |
| [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) |
| [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.tostring?view=netcore-3.1#System_Windows_Forms_ComboBox_ToString) | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) |
| UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | UpdateBounds(Int32, Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) |
| [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.wndproc?view=netcore-3.1#System_Windows_Forms_ComboBox_WndProc_System_Windows_Forms_Message__) |  |

U tabeli 31 su dati svi događaji za kontrolu *ComboBox*.

#### **Tabela 31.** Tabela događaja za kontrolu ComboBox [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backgroundimagelayoutchanged?view=netcore-3.1)  [d](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [DataSourceChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.datasourcechanged?view=netcore-3.1) |
| [DisplayMemberChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.displaymemberchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) | [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) |
| [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) | [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) |
| [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) | [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) |
| [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [DrawItem](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.drawitem?view=netcore-3.1) | [DropDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dropdown?view=netcore-3.1) |
| [DropDownClosed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dropdownclosed?view=netcore-3.1) | [DropDownStyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.dropdownstylechanged?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [Format](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.format?view=netcore-3.1) | [FormatInfoChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatinfochanged?view=netcore-3.1) | [FormatStringChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formatstringchanged?view=netcore-3.1) |
| [FormattingEnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.formattingenabledchanged?view=netcore-3.1) | [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) |
| [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) | [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) |
| [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodechanged?view=netcore-3.1) | [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keydown?view=netcore-3.1) |
| [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keypress?view=netcore-3.1) | [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) |
| [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) | [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) |
| [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) | [MeasureItem](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.measureitem?view=netcore-3.1) | [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) |
| [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) | [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) |
| [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) | [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) |
| [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) | [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) |
| [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.paddingchanged?view=netcore-3.1) | [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.paint?view=netcore-3.1) |
| [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) | [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) |
| [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) | [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) |
| [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SelectedIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectedindexchanged?view=netcore-3.1) | [SelectedValueChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.selectedvaluechanged?view=netcore-3.1) |
| [SelectionChangeCommitted](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.selectionchangecommitted?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) | [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) |
| [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) | [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) |
| [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) | [TextUpdate](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.combobox.textupdate?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) |
| [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [ValueMemberChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.listcontrol.valuememberchanged?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |

### 6.9.9. Kontrola PictureBox

Obično se [PictureBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox?view=netcore-3.1) (kontrola broj 4 sa slike 26) koristi za prikazivanje grafike iz bitmap, metafile, ikone, JPEG, GIF ili PNG datoteka.

Pomoću *PictureBox* kontrole sa svojstvom *Image* slika se može prikazati u vreme projektovanja ili u toku rada. Može alternativno da se odredi slika koja se postavlja svojstvom *ImageLocation* i sinhrono učitava slika metodom *Load* ili asinhrono korist metodu *LoadAsync*.

Svojstvo SizeMode, koje je postavljeno na vrednosti *PictureBoxSizeMode*, kontroliše isecanje i pozicioniranje slike u prikaznom području (tj. *PictureBox*-u). Može da se promeni veličina područja prikaza tokom vremena izvođenja pomoću svojstva *ClientSize*.

Podrazumevano se kontrola *PictureBox* prikazuje bez ikakvih okvira. Može se dati standardni ili trodimenzionalni okvir koristeći svojstvo *BorderStile* da bi se razlikovao okvir za slike od ostatka forme, čak i ako on ne sadrži sliku. *PictureBox* nije kontrola koja se može birati, što znači da ne može da primi ulazni fokus.

U tabeli 32 su data sva svojstva za kontrolu *PictureBox*.

#### **Tabela 32.** Tabela svojstava za kontrolu PictureBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultAction](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription)  [Description](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.allowdrop?view=netcore-3.1#System_Windows_Forms_PictureBox_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) |
| [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autosize?view=netcore-3.1#System_Windows_Forms_Control_AutoSize) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolor?view=netcore-3.1#System_Windows_Forms_Control_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimage?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImage) | [BackgroundImageLa](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout)  [yout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout) |
| [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BorderStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.borderstyle?view=netcore-3.1#System_Windows_Forms_PictureBox_BorderStyle) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) |
| [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) |
| [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.causesvalidation?view=netcore-3.1#System_Windows_Forms_PictureBox_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) | [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) |
| [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) |
| [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.createparams?view=netcore-3.1#System_Windows_Forms_PictureBox_CreateParams) |
| [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) | [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.defaultimemode?view=netcore-3.1#System_Windows_Forms_PictureBox_DefaultImeMode) |
| [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) |
| [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.defaultsize?view=netcore-3.1#System_Windows_Forms_PictureBox_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.displayrectangle?view=netcore-3.1#System_Windows_Forms_Control_DisplayRectangle) |
| [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) |
| [ErrorImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.errorimage?view=netcore-3.1#System_Windows_Forms_PictureBox_ErrorImage) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.font?view=netcore-3.1#System_Windows_Forms_PictureBox_Font) |
| [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.forecolor?view=netcore-3.1#System_Windows_Forms_PictureBox_ForeColor) | [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) |
| [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [Image](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.image?view=netcore-3.1#System_Windows_Forms_PictureBox_Image) | [ImageLocation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.imagelocation?view=netcore-3.1#System_Windows_Forms_PictureBox_ImageLocation) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.imemode?view=netcore-3.1#System_Windows_Forms_PictureBox_ImeMode) |
| [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InitialImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.initialimage?view=netcore-3.1#System_Windows_Forms_PictureBox_InitialImage) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) | [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) |
| [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) | [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) |
| [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) | [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) |
| [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) | [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) |
| [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) | [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) |
| [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) | [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) |
| [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.righttoleft?view=netcore-3.1#System_Windows_Forms_PictureBox_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) | [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) |
| [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [SizeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.sizemode?view=netcore-3.1#System_Windows_Forms_PictureBox_SizeMode) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.tabindex?view=netcore-3.1#System_Windows_Forms_PictureBox_TabIndex) |
| [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.tabstop?view=netcore-3.1#System_Windows_Forms_PictureBox_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.text?view=netcore-3.1#System_Windows_Forms_PictureBox_Text) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) |
| [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) | [WaitOnLoad](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.waitonload?view=netcore-3.1#System_Windows_Forms_PictureBox_WaitOnLoad) |
| [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |  |

U tabeli 33 su date sve metode za kontrolu *PictureBox*.

#### **Tabela 33.** Tabela metoda za kontrolu PictureBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessib leEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acc essibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) |
| [BeginInvoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [CancelAsync()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.cancelasync?view=netcore-3.1#System_Windows_Forms_PictureBox_CancelAsync) |
| [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) | [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) |
| [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) | [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) |
| [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) |
| [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.dispose?view=netcore-3.1#System_Windows_Forms_PictureBox_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) |
| [DrawToBitmap(Bitmap, Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) | [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) |
| [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) | [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) |
| [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) | [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) |
| [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) |
| [GetNextControl(Control, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) | [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) |
| [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) |
| [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) |
| [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) | [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) |
| [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) | [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) |
| [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) | [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) |
| [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Cont rol, PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) |
| [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) | [Load()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.load?view=netcore-3.1#System_Windows_Forms_PictureBox_Load) | [Load(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.load?view=netcore-3.1#System_Windows_Forms_PictureBox_Load_System_String_) |
| [LoadAsync()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.loadasync?view=netcore-3.1#System_Windows_Forms_PictureBox_LoadAsync) | [LoadAsync(String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.loadasync?view=netcore-3.1#System_Windows_Forms_PictureBox_LoadAsync_System_String_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnBackgroundImageChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) |
| [OnCausesValidationChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) |
| [OnClientSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) |
| [OnDpiChangedAfterParent(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) |
| [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) |
| [OnEnabledChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onenabledchanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongotfocus?view=netcore-3.1#System_Windows_Forms_Control_OnGotFocus_System_EventArgs_) |
| [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onhandlecreated?view=netcore-3.1#System_Windows_Forms_PictureBox_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_PictureBox_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_PictureBox_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) |
| [OnImeModeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) | [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) |
| [OnKeyPress(KeyPressEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) | [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) |
| [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLoadCompleted(AsyncCo mpletedEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onloadcompleted?view=netcore-3.1#System_Windows_Forms_PictureBox_OnLoadCompleted_System_ComponentModel_AsyncCompletedEventArgs_) | [OnLoadProgressChanged(Pro gressChangedEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onloadprogresschanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnLoadProgressChanged_System_ComponentModel_ProgressChangedEventArgs_) |
| [OnLocationChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) | [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) |
| [OnMouseCaptureChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDown(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseenter?view=netcore-3.1#System_Windows_Forms_Control_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) |
| [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseleave?view=netcore-3.1#System_Windows_Forms_Control_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseWheel(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) |
| [OnPaddingChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onpaint?view=netcore-3.1#System_Windows_Forms_PictureBox_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnParentBackColorChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) |
| [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onparentchanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) |
| [OnParentFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) |
| [OnParentVisibleChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(Preview](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [KeyDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) |
| [OnQueryContinueDrag(QueryCon tinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onresize?view=netcore-3.1#System_Windows_Forms_PictureBox_OnResize_System_EventArgs_) |
| [OnRightToLeftChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) | [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnSizeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onsizemodechanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnSizeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onsizemodechanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnSizeModeChanged_System_EventArgs_) |
| [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) | [OnTabIndexChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) |
| [OnTabStopChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTextChanged_System_EventArgs_) | [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) |
| [OnValidating(CancelEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnVisibleChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnVisibleChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_PictureBox_OnVisibleChanged_System_EventArgs_) | [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) |
| [PerformLayout(Control, String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) | [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) |
| [PreProcessControlMessage(Messa](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [ge)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | [PreProcessMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) | [ProcessCmdKey(Message,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_)  [Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) |
| [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) | [ProcessKeyEventArgs(Messag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__)  [e)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) |
| [ProcessKeyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) | [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processmnemonic?view=netcore-3.1#System_Windows_Forms_Control_ProcessMnemonic_System_Char_) |
| [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) | [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) |
| [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) | [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) |
| [RectangleToScreen(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) | [RescaleConstantsForDpi(Int3](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [2, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) |
| [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) | [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) |
| [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) | [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) |
| [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) | [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) |
| [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) | [RtlTranslateAlignment(Conte ntAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) |
| [RtlTranslateAlignment(Horizontal](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) | [RtlTranslateContent(Content](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) |
| [RtlTranslateHorizontal(Horizontal](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_)  [Alignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) | [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) |
| [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) | [ScaleBitmapLogicalToDevice(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__)  [Bitmap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) |
| [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecontrol?view=netcore-3.1#System_Windows_Forms_Control_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) | [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) |
| [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean, Boolean, Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) | [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) |
| [SetAutoSizeMode(AutoSizeMode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) |
| [SetBoundsCore(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | [SetClientSizeCore(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) | [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) |
| [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) | [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) |
| [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) | [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.tostring?view=netcore-3.1#System_Windows_Forms_PictureBox_ToString) |
| [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) | UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [UpdateBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) | [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) |
| [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.wndproc?view=netcore-3.1#System_Windows_Forms_Control_WndProc_System_Windows_Forms_Message__) |  |  |

U tabeli 34 su dati svi događaji za kontrolu *PictureBox*.

#### **Tabela 34.** Tabela događaja za kontrolu PictureBox [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChan](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1)  [ged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.leave?view=netcore-3.1) |
| [LoadCompleted](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.loadcompleted?view=netcore-3.1) | [LoadProgressChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.loadprogresschanged?view=netcore-3.1) | [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) |
| [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) | [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) |
| [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) | [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) |
| [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) | [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) |
| [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) | [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) |
| [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) | [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) |
| [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) | [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) |
| [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) | [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) |
| [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) | [SizeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.sizemodechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.picturebox.textchanged?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) |
| [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |  |

### 6.9.10. Kontrola GroupBox

[GroupBox](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox?view=netcore-3.1) prikazuje okvir oko grupe kontrola sa ili bez natpisa (kontrola broj 6 sa slike 26). Kontrola *GroupBox* se koristi da logički grupiše kolekciju kontrola na formi. *GroupBox* je kontrola koja se koristi za grupisanje grupe kontrola.

Tipična upotreba za *GroupBox* je da sadrži logičku grupu *RadioButton* ili *ChackBox* kontrola.

Kontrole u *GroupBox* se mogu dodati korišćenjem metode *Add* iz klase *Controls*.

Ako je potrebna kontrola slična *GroupBox*-u, može se koristiti kontrola panel, koju ćemo obraditi sledeću u okviru ovog poglavlja.

U tabeli 35 su data sva svojstva za kontrolu *GroupBox*.

#### **Tabela 35.** Tabela svojstava za kontrolu GroupBox [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultActionD escription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.allowdrop?view=netcore-3.1#System_Windows_Forms_GroupBox_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) |
| [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.autosize?view=netcore-3.1#System_Windows_Forms_GroupBox_AutoSize) | [AutoSizeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.autosizemode?view=netcore-3.1#System_Windows_Forms_GroupBox_AutoSizeMode) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolor?view=netcore-3.1#System_Windows_Forms_Control_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimage?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImage) |
| [BackgroundImageLa](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout)  [yout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) |
| [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) | [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) |
| [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) | [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) | [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) |
| [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) |
| [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) | [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.createparams?view=netcore-3.1#System_Windows_Forms_GroupBox_CreateParams) |
| [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) | [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) | [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultimemode?view=netcore-3.1#System_Windows_Forms_Control_DefaultImeMode) |
| [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) | [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.defaultpadding?view=netcore-3.1#System_Windows_Forms_GroupBox_DefaultPadding) |
| [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.defaultsize?view=netcore-3.1#System_Windows_Forms_GroupBox_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.displayrectangle?view=netcore-3.1#System_Windows_Forms_GroupBox_DisplayRectangle) |
| [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) |
| [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [FlatStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.flatstyle?view=netcore-3.1#System_Windows_Forms_GroupBox_FlatStyle) | [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) |
| [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolor?view=netcore-3.1#System_Windows_Forms_Control_ForeColor) | [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) |
| [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemode?view=netcore-3.1#System_Windows_Forms_Control_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) |
| [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) | [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) |
| [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) |
| [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) |
| [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) |
| [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) |
| [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) |
| [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) |
| [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.tabstop?view=netcore-3.1#System_Windows_Forms_GroupBox_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.text?view=netcore-3.1#System_Windows_Forms_GroupBox_Text) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) |
| [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UseCompatibleTextRende](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.usecompatibletextrendering?view=netcore-3.1#System_Windows_Forms_GroupBox_UseCompatibleTextRendering)  [ring](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.usecompatibletextrendering?view=netcore-3.1#System_Windows_Forms_GroupBox_UseCompatibleTextRendering) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) |
| [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |  |

U tabeli 36 su date sve metode za kontrolu *GroupBox*.

#### **Tabela 36.** Tabela metoda za kontrolu GroupBox [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessib leEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acc essibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) |
| [BeginInvoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) | [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) |
| [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_GroupBox_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) | [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) |
| [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) | [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) |
| [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) |
| [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dispose?view=netcore-3.1#System_Windows_Forms_Control_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) | [DrawToBitmap(Bitmap,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_)  [Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) |
| [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) |
| [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) | [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) |
| [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) | [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) |
| [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) | [GetNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) |
| [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) |
| [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) | [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) |
| [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) |
| [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) | [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) |
| [Invalidate(Rectangle, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) | [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) |
| [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) | [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeOnClick(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [InvokePaintBackground(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) |
| [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) | [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) |
| [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) | [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) |
| [OnBackColorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) | [OnBackgroundImageChange](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnBindingContextChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) | [OnCausesValidationChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) |
| [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) | [OnClientSizeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) |
| [OnContextMenuStripChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) | [OnControlAdded(ControlEve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) |
| [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) | [OnCursorChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) |
| [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) | [OnDpiChangedAfterParent(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) |
| [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) | [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) |
| [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) | [OnEnabledChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) |
| [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.onfontchanged?view=netcore-3.1#System_Windows_Forms_GroupBox_OnFontChanged_System_EventArgs_) | [OnForeColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) |
| [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongotfocus?view=netcore-3.1#System_Windows_Forms_Control_OnGotFocus_System_EventArgs_) | [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandlecreated?view=netcore-3.1#System_Windows_Forms_Control_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_) |
| [OnHelpRequested(HelpEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) | [OnImeModeChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) |
| [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) | [OnKeyPress(KeyPressEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) |
| [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlayout?view=netcore-3.1#System_Windows_Forms_Control_OnLayout_System_Windows_Forms_LayoutEventArgs_) | [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) |
| [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) | [OnMarginChanged(EventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMouseCaptureChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) |
| [OnMouseClick(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDoubleClick(Mouse](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDown(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseenter?view=netcore-3.1#System_Windows_Forms_Control_OnMouseEnter_System_EventArgs_) | [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) | [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseleave?view=netcore-3.1#System_Windows_Forms_Control_OnMouseLeave_System_EventArgs_) |
| [OnMouseMove(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) | [OnMouseUp(MouseEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_) | [OnMouseWheel(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousewheel?view=netcore-3.1#System_Windows_Forms_Control_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) |
| [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) | [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) | [OnPaddingChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_Control_OnPaddingChanged_System_EventArgs_) |
| [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.onpaint?view=netcore-3.1#System_Windows_Forms_GroupBox_OnPaint_System_Windows_Forms_PaintEventArgs_) | [OnPaintBackground(PaintEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaintbackground?view=netcore-3.1#System_Windows_Forms_Control_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) | [OnParentBackColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnParentBackgroundImageChang ed(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) | [OnParentBindingContextCha nged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) | [OnParentChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentChanged_System_EventArgs_) |
| [OnParentCursorChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) | [OnParentEnabledChanged(Ev entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) | [OnParentFontChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) |
| [OnParentForeColorChanged(Even](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) | [OnParentRightToLeftChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) | [OnParentVisibleChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) |
| [OnPreviewKeyDown(PreviewKeyD ownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) | [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) | [OnQueryContinueDrag(Quer yContinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) |
| [OnRegionChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) | [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onresize?view=netcore-3.1#System_Windows_Forms_Control_OnResize_System_EventArgs_) | [OnRightToLeftChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRightToLeftChanged_System_EventArgs_) |
| [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Eve ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) |
| [OnTabIndexChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) | [OnTabStopChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTextChanged_System_EventArgs_) |
| [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnVisibleChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnVisibleChanged_System_EventArgs_) |
| [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) |
| [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(M essage)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | [PreProcessMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) |
| [ProcessCmdKey(Message, Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) |
| [ProcessKeyEventArgs(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) |
| [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.processmnemonic?view=netcore-3.1#System_Windows_Forms_GroupBox_ProcessMnemonic_System_Char_) | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) |
| [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) |
| [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) |
| [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) |
| [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(ContentAli gnment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | [RtlTranslateAlignment(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(ContentAlign ment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | [RtlTranslateHorizontal(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(Bitm ap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.scalecontrol?view=netcore-3.1#System_Windows_Forms_GroupBox_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.scalecontrol?view=netcore-3.1#System_Windows_Forms_GroupBox_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalecore?view=netcore-3.1#System_Windows_Forms_Control_ScaleCore_System_Single_System_Single_) |
| [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) | [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean, Boolean, Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) |
| [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) | [SetAutoSizeMode(AutoSizeM ode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| SetBounds(Int32, Int32, Int32,  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | [SetClientSizeCore(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) |
| [SetStyle(ControlStyles, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) | [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) |
| [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) | [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) |
| [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.tostring?view=netcore-3.1#System_Windows_Forms_GroupBox_ToString) | [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) |
| [UpdateBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) | UpdateBounds(Int32, Int32,  [Int32, Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) |
| [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) | [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.wndproc?view=netcore-3.1#System_Windows_Forms_GroupBox_WndProc_System_Windows_Forms_Message__) |  |

U tabeli 37 su dati svi događaji za kontrolu *GroupBox*.

#### **Tabela 37.** Tabela događaja za kontrolu GroupBox [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChan](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1)  [ged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) |
| [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) | [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mousedoubleclick?view=netcore-3.1) |
| [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mousedown?view=netcore-3.1) | [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) |
| [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mouseleave?view=netcore-3.1) | [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.mouseup?view=netcore-3.1) |
| [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) | [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) |
| [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) | [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) |
| [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) | [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) |
| [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) | [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) |
| [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) | [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) |
| [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.groupbox.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.textchanged?view=netcore-3.1) | [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) |
| [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |  |

### 6.9.11. Kontrola Panel

[Panel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel?view=netcore-3.1) (kontrola broj 5 sa slike 26) je kontrola koja sadrži druge kontrole. *Panel* možete da koristite za grupisanje više kontrola, kao što je grupa kontrola *RadioButton*. Kao i kod ostalih kontrola, kao što je kontrola *GroupBox* (kontrola broj 6 sa slike 26), ako je svojstvo *Enabled* kontrole *Panel* postavljeno na false, kontrole sadržane na panelu, takođe će biti onemogućene.

Kontrola panel se prikazuje podrazumevano bez ikakvih graničnika.

Kontrola panel ne prikazuje natpis. Ako je potrebna kontrola slična panel-u, a koja treba da prikazuje natpise, onda se koristiti kontrola *GroupBox*.

U tabeli 38 su data sva svojstva za kontrolu *Panel*.

#### **Tabela 38.** Tabela svojstava za kontrolu Panel [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [AccessibilityObject](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilityobject?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityObject) | [AccessibleDefaultActionD escription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDefaultActionDescription) | [AccessibleDescription](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibledescription?view=netcore-3.1#System_Windows_Forms_Control_AccessibleDescription) | [AccessibleName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblename?view=netcore-3.1#System_Windows_Forms_Control_AccessibleName) |
| [AccessibleRole](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessiblerole?view=netcore-3.1#System_Windows_Forms_Control_AccessibleRole) | [AllowDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.allowdrop?view=netcore-3.1#System_Windows_Forms_Control_AllowDrop) | [Anchor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.anchor?view=netcore-3.1#System_Windows_Forms_Control_Anchor) | [AutoScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.autoscroll?view=netcore-3.1#System_Windows_Forms_ScrollableControl_AutoScroll) |
| [AutoScrollMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.autoscrollmargin?view=netcore-3.1#System_Windows_Forms_ScrollableControl_AutoScrollMargin) | [AutoScrollMinSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.autoscrollminsize?view=netcore-3.1#System_Windows_Forms_ScrollableControl_AutoScrollMinSize) | [AutoScrollOffset](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.autoscrolloffset?view=netcore-3.1#System_Windows_Forms_Control_AutoScrollOffset) | [AutoScrollPosition](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.autoscrollposition?view=netcore-3.1#System_Windows_Forms_ScrollableControl_AutoScrollPosition) |
| [AutoSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.autosize?view=netcore-3.1#System_Windows_Forms_Panel_AutoSize) | [AutoSizeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.autosizemode?view=netcore-3.1#System_Windows_Forms_Panel_AutoSizeMode) | [BackColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolor?view=netcore-3.1#System_Windows_Forms_Control_BackColor) | [BackgroundImage](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimage?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImage) |
| [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BackgroundImageLayout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayout?view=netcore-3.1#System_Windows_Forms_Control_BackgroundImageLayout) | [BindingContext](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontext?view=netcore-3.1#System_Windows_Forms_Control_BindingContext) | [BorderStyle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.borderstyle?view=netcore-3.1#System_Windows_Forms_Panel_BorderStyle) |
| [Bottom](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bottom?view=netcore-3.1#System_Windows_Forms_Control_Bottom) | [Bounds](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bounds?view=netcore-3.1#System_Windows_Forms_Control_Bounds) | [CanEnableIme](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canenableime?view=netcore-3.1#System_Windows_Forms_Control_CanEnableIme) | [CanFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canfocus?view=netcore-3.1#System_Windows_Forms_Control_CanFocus) |
| [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canraiseevents?view=netcore-3.1#System_Windows_Forms_Control_CanRaiseEvents) | [CanSelect](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.canselect?view=netcore-3.1#System_Windows_Forms_Control_CanSelect) | [Capture](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.capture?view=netcore-3.1#System_Windows_Forms_Control_Capture) | [CausesValidation](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidation?view=netcore-3.1#System_Windows_Forms_Control_CausesValidation) |
| [ClientRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientrectangle?view=netcore-3.1#System_Windows_Forms_Control_ClientRectangle) | [ClientSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsize?view=netcore-3.1#System_Windows_Forms_Control_ClientSize) | [CompanyName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.companyname?view=netcore-3.1#System_Windows_Forms_Control_CompanyName) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) |
| [ContainsFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.containsfocus?view=netcore-3.1#System_Windows_Forms_Control_ContainsFocus) | [ContextMenu](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenu?view=netcore-3.1#System_Windows_Forms_Control_ContextMenu) | [ContextMenuStrip](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustrip?view=netcore-3.1#System_Windows_Forms_Control_ContextMenuStrip) | [Controls](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controls?view=netcore-3.1#System_Windows_Forms_Control_Controls) |
| [Created](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.created?view=netcore-3.1#System_Windows_Forms_Control_Created) | [CreateParams](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.createparams?view=netcore-3.1#System_Windows_Forms_Panel_CreateParams) | [Cursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursor?view=netcore-3.1#System_Windows_Forms_Control_Cursor) | [DataBindings](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.databindings?view=netcore-3.1#System_Windows_Forms_Control_DataBindings) |
| [DefaultCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultcursor?view=netcore-3.1#System_Windows_Forms_Control_DefaultCursor) | [DefaultImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultimemode?view=netcore-3.1#System_Windows_Forms_Control_DefaultImeMode) | [DefaultMargin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmargin?view=netcore-3.1#System_Windows_Forms_Control_DefaultMargin) | [DefaultMaximumSi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize)  [ze](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultmaximumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMaximumSize) |
| [DefaultMinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultminimumsize?view=netcore-3.1#System_Windows_Forms_Control_DefaultMinimumSize) | [DefaultPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defaultpadding?view=netcore-3.1#System_Windows_Forms_Control_DefaultPadding) | [DefaultSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.defaultsize?view=netcore-3.1#System_Windows_Forms_Panel_DefaultSize) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) |
| [DeviceDpi](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.devicedpi?view=netcore-3.1#System_Windows_Forms_Control_DeviceDpi) | [DisplayRectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.displayrectangle?view=netcore-3.1#System_Windows_Forms_ScrollableControl_DisplayRectangle) | [Disposing](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.disposing?view=netcore-3.1#System_Windows_Forms_Control_Disposing) | [Dock](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dock?view=netcore-3.1#System_Windows_Forms_Control_Dock) |
| [DockPadding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.dockpadding?view=netcore-3.1#System_Windows_Forms_ScrollableControl_DockPadding) | [DoubleBuffered](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doublebuffered?view=netcore-3.1#System_Windows_Forms_Control_DoubleBuffered) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabled?view=netcore-3.1#System_Windows_Forms_Control_Enabled) | [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) |
| [Focused](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focused?view=netcore-3.1#System_Windows_Forms_Control_Focused) | [Font](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.font?view=netcore-3.1#System_Windows_Forms_Control_Font) | [FontHeight](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontheight?view=netcore-3.1#System_Windows_Forms_Control_FontHeight) | [ForeColor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolor?view=netcore-3.1#System_Windows_Forms_Control_ForeColor) |
| [Handle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handle?view=netcore-3.1#System_Windows_Forms_Control_Handle) | [HasChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.haschildren?view=netcore-3.1#System_Windows_Forms_Control_HasChildren) | [Height](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.height?view=netcore-3.1#System_Windows_Forms_Control_Height) | [HorizontalScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.horizontalscroll?view=netcore-3.1#System_Windows_Forms_ScrollableControl_HorizontalScroll) |
| [HScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.hscroll?view=netcore-3.1#System_Windows_Forms_ScrollableControl_HScroll) | [ImeMode](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemode?view=netcore-3.1#System_Windows_Forms_Control_ImeMode) | [ImeModeBase](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodebase?view=netcore-3.1#System_Windows_Forms_Control_ImeModeBase) | [InvokeRequired](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokerequired?view=netcore-3.1#System_Windows_Forms_Control_InvokeRequired) |
| [IsAccessible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isaccessible?view=netcore-3.1#System_Windows_Forms_Control_IsAccessible) | [IsDisposed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isdisposed?view=netcore-3.1#System_Windows_Forms_Control_IsDisposed) | [IsHandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ishandlecreated?view=netcore-3.1#System_Windows_Forms_Control_IsHandleCreated) | [IsMirrored](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ismirrored?view=netcore-3.1#System_Windows_Forms_Control_IsMirrored) |
| [LayoutEngine](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layoutengine?view=netcore-3.1#System_Windows_Forms_Control_LayoutEngine) | [Left](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.left?view=netcore-3.1#System_Windows_Forms_Control_Left) | [Location](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.location?view=netcore-3.1#System_Windows_Forms_Control_Location) | [Margin](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.margin?view=netcore-3.1#System_Windows_Forms_Control_Margin) |
| [MaximumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.maximumsize?view=netcore-3.1#System_Windows_Forms_Control_MaximumSize) | [MinimumSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.minimumsize?view=netcore-3.1#System_Windows_Forms_Control_MinimumSize) | [Name](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.name?view=netcore-3.1#System_Windows_Forms_Control_Name) | [Padding](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.padding?view=netcore-3.1#System_Windows_Forms_Control_Padding) |
| [Parent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parent?view=netcore-3.1#System_Windows_Forms_Control_Parent) | [PreferredSize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preferredsize?view=netcore-3.1#System_Windows_Forms_Control_PreferredSize) | [ProductName](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productname?view=netcore-3.1#System_Windows_Forms_Control_ProductName) | [ProductVersion](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.productversion?view=netcore-3.1#System_Windows_Forms_Control_ProductVersion) |
| [RecreatingHandle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatinghandle?view=netcore-3.1#System_Windows_Forms_Control_RecreatingHandle) | [Region](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.region?view=netcore-3.1#System_Windows_Forms_Control_Region) | [RenderRightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.renderrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_RenderRightToLeft) | [ResizeRedraw](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resizeredraw?view=netcore-3.1#System_Windows_Forms_Control_ResizeRedraw) |
| [Right](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.right?view=netcore-3.1#System_Windows_Forms_Control_Right) | [RightToLeft](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleft?view=netcore-3.1#System_Windows_Forms_Control_RightToLeft) | [ScaleChildren](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalechildren?view=netcore-3.1#System_Windows_Forms_Control_ScaleChildren) | [ShowFocusCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showfocuscues?view=netcore-3.1#System_Windows_Forms_Control_ShowFocusCues) |
| [ShowKeyboardCues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.showkeyboardcues?view=netcore-3.1#System_Windows_Forms_Control_ShowKeyboardCues) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.site?view=netcore-3.1#System_Windows_Forms_Control_Site) | [Size](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.size?view=netcore-3.1#System_Windows_Forms_Control_Size) | [TabIndex](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindex?view=netcore-3.1#System_Windows_Forms_Control_TabIndex) |
| [TabStop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.tabstop?view=netcore-3.1#System_Windows_Forms_Panel_TabStop) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tag?view=netcore-3.1#System_Windows_Forms_Control_Tag) | [Text](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.text?view=netcore-3.1#System_Windows_Forms_Panel_Text) | [Top](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.top?view=netcore-3.1#System_Windows_Forms_Control_Top) |
| [TopLevelControl](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.toplevelcontrol?view=netcore-3.1#System_Windows_Forms_Control_TopLevelControl) | [UseWaitCursor](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.usewaitcursor?view=netcore-3.1#System_Windows_Forms_Control_UseWaitCursor) | [VerticalScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.verticalscroll?view=netcore-3.1#System_Windows_Forms_ScrollableControl_VerticalScroll) | [Visible](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visible?view=netcore-3.1#System_Windows_Forms_Control_Visible) |
| [VScroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.vscroll?view=netcore-3.1#System_Windows_Forms_ScrollableControl_VScroll) | [Width](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.width?view=netcore-3.1#System_Windows_Forms_Control_Width) | [WindowTarget](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.windowtarget?view=netcore-3.1#System_Windows_Forms_Control_WindowTarget) |  |

U tabeli 39 su date sve metode za kontrolu *Panel*.

#### **Tabela 39.** Tabela metoda za kontrolu Panel [7]

|  |  |  |
| --- | --- | --- |
| [AccessibilityNotifyClients(Accessib leEvents, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_) | [AccessibilityNotifyClients(Acc essibleEvents, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.accessibilitynotifyclients?view=netcore-3.1#System_Windows_Forms_Control_AccessibilityNotifyClients_System_Windows_Forms_AccessibleEvents_System_Int32_System_Int32_) | [AdjustFormScrollbars(Boolea](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.adjustformscrollbars?view=netcore-3.1#System_Windows_Forms_ScrollableControl_AdjustFormScrollbars_System_Boolean_)  [n)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.adjustformscrollbars?view=netcore-3.1#System_Windows_Forms_ScrollableControl_AdjustFormScrollbars_System_Boolean_) |

|  |  |  |
| --- | --- | --- |
| [BeginInvoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_) | [BeginInvoke(Delegate,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___)  [Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.begininvoke?view=netcore-3.1#System_Windows_Forms_Control_BeginInvoke_System_Delegate_System_Object___) | [BringToFront()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bringtofront?view=netcore-3.1#System_Windows_Forms_Control_BringToFront) |
| [Contains(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contains?view=netcore-3.1#System_Windows_Forms_Control_Contains_System_Windows_Forms_Control_) | [CreateAccessibilityInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createaccessibilityinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateAccessibilityInstance) | [CreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrol?view=netcore-3.1#System_Windows_Forms_Control_CreateControl) |
| [CreateControlsInstance()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createcontrolsinstance?view=netcore-3.1#System_Windows_Forms_Control_CreateControlsInstance) | [CreateGraphics()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.creategraphics?view=netcore-3.1#System_Windows_Forms_Control_CreateGraphics) | [CreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.createhandle?view=netcore-3.1#System_Windows_Forms_Control_CreateHandle) |
| [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [DefWndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.defwndproc?view=netcore-3.1#System_Windows_Forms_Control_DefWndProc_System_Windows_Forms_Message__) | [DestroyHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.destroyhandle?view=netcore-3.1#System_Windows_Forms_Control_DestroyHandle) |
| [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dispose?view=netcore-3.1#System_Windows_Forms_Control_Dispose_System_Boolean_) | [DoDragDrop(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_)  [DragDropEffects)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dodragdrop?view=netcore-3.1#System_Windows_Forms_Control_DoDragDrop_System_Object_System_Windows_Forms_DragDropEffects_) |
| [DrawToBitmap(Bitmap, Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.drawtobitmap?view=netcore-3.1#System_Windows_Forms_Control_DrawToBitmap_System_Drawing_Bitmap_System_Drawing_Rectangle_) | [EndInvoke(IAsyncResult)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.endinvoke?view=netcore-3.1#System_Windows_Forms_Control_EndInvoke_System_IAsyncResult_) | [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) |
| [FindForm()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.findform?view=netcore-3.1#System_Windows_Forms_Control_FindForm) | [Focus()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.focus?view=netcore-3.1#System_Windows_Forms_Control_Focus) | [GetAccessibilityObjectById(In](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_)  [t32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid?view=netcore-3.1#System_Windows_Forms_Control_GetAccessibilityObjectById_System_Int32_) |
| [GetAutoSizeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getautosizemode?view=netcore-3.1#System_Windows_Forms_Control_GetAutoSizeMode) | [GetChildAtPoint(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_) | [GetChildAtPoint(Point,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_)  [GetChildAtPointSkip)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getchildatpoint?view=netcore-3.1#System_Windows_Forms_Control_GetChildAtPoint_System_Drawing_Point_System_Windows_Forms_GetChildAtPointSkip_) |
| [GetContainerControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getcontainercontrol?view=netcore-3.1#System_Windows_Forms_Control_GetContainerControl) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) |
| [GetNextControl(Control, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_GetNextControl_System_Windows_Forms_Control_System_Boolean_) | [GetPreferredSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getpreferredsize?view=netcore-3.1#System_Windows_Forms_Control_GetPreferredSize_System_Drawing_Size_) | [GetScaledBounds(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [SizeF, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getscaledbounds?view=netcore-3.1#System_Windows_Forms_Control_GetScaledBounds_System_Drawing_Rectangle_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) |
| [GetScrollState(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.getscrollstate?view=netcore-3.1#System_Windows_Forms_ScrollableControl_GetScrollState_System_Int32_) | [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetStyle(ControlStyles)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.getstyle?view=netcore-3.1#System_Windows_Forms_Control_GetStyle_System_Windows_Forms_ControlStyles_) |
| [GetTopLevel()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gettoplevel?view=netcore-3.1#System_Windows_Forms_Control_GetTopLevel) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [Hide()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.hide?view=netcore-3.1#System_Windows_Forms_Control_Hide) |
| [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) | [InitLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.initlayout?view=netcore-3.1#System_Windows_Forms_Control_InitLayout) | [Invalidate()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate) |
| [Invalidate(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Boolean_) | [Invalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_) | [Invalidate(Rectangle,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Rectangle_System_Boolean_) |
| [Invalidate(Region)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_) | [Invalidate(Region, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidate?view=netcore-3.1#System_Windows_Forms_Control_Invalidate_System_Drawing_Region_System_Boolean_) | [Invoke(Delegate)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_) |
| [Invoke(Delegate, Object[])](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invoke?view=netcore-3.1#System_Windows_Forms_Control_Invoke_System_Delegate_System_Object___) | [InvokeGotFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokegotfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeGotFocus_System_Windows_Forms_Control_System_EventArgs_) | [InvokeLostFocus(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokelostfocus?view=netcore-3.1#System_Windows_Forms_Control_InvokeLostFocus_System_Windows_Forms_Control_System_EventArgs_) |
| [InvokeOnClick(Control, EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokeonclick?view=netcore-3.1#System_Windows_Forms_Control_InvokeOnClick_System_Windows_Forms_Control_System_EventArgs_) | [InvokePaint(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaint?view=netcore-3.1#System_Windows_Forms_Control_InvokePaint_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) | [InvokePaintBackground(Cont rol, PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invokepaintbackground?view=netcore-3.1#System_Windows_Forms_Control_InvokePaintBackground_System_Windows_Forms_Control_System_Windows_Forms_PaintEventArgs_) |
| [IsInputChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputchar?view=netcore-3.1#System_Windows_Forms_Control_IsInputChar_System_Char_) | [IsInputKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.isinputkey?view=netcore-3.1#System_Windows_Forms_Control_IsInputKey_System_Windows_Forms_Keys_) | [LogicalToDeviceUnits(Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Int32_) |
| [LogicalToDeviceUnits(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.logicaltodeviceunits?view=netcore-3.1#System_Windows_Forms_Control_LogicalToDeviceUnits_System_Drawing_Size_) | [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) |
| [NotifyInvalidate(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.notifyinvalidate?view=netcore-3.1#System_Windows_Forms_Control_NotifyInvalidate_System_Drawing_Rectangle_) | [OnAutoSizeChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onautosizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnAutoSizeChanged_System_EventArgs_) | [OnBackColorChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackColorChanged_System_EventArgs_) |
| [OnBackgroundImageChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageChanged_System_EventArgs_) | [OnBackgroundImageLayoutC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbackgroundimagelayoutchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBackgroundImageLayoutChanged_System_EventArgs_) | [OnBindingContextChanged(E ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnBindingContextChanged_System_EventArgs_) |
| [OnCausesValidationChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncausesvalidationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCausesValidationChanged_System_EventArgs_) | [OnChangeUICues(UICuesEve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onchangeuicues?view=netcore-3.1#System_Windows_Forms_Control_OnChangeUICues_System_Windows_Forms_UICuesEventArgs_) | [OnClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclick?view=netcore-3.1#System_Windows_Forms_Control_OnClick_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnClientSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onclientsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnClientSizeChanged_System_EventArgs_) | [OnContextMenuChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenuchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuChanged_System_EventArgs_) | [OnContextMenuStripChange d(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontextmenustripchanged?view=netcore-3.1#System_Windows_Forms_Control_OnContextMenuStripChanged_System_EventArgs_) |
| [OnControlAdded(ControlEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontroladded?view=netcore-3.1#System_Windows_Forms_Control_OnControlAdded_System_Windows_Forms_ControlEventArgs_) | [OnControlRemoved(ControlE ventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncontrolremoved?view=netcore-3.1#System_Windows_Forms_Control_OnControlRemoved_System_Windows_Forms_ControlEventArgs_) | [OnCreateControl()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncreatecontrol?view=netcore-3.1#System_Windows_Forms_Control_OnCreateControl) |
| [OnCursorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oncursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnCursorChanged_System_EventArgs_) | [OnDockChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondockchanged?view=netcore-3.1#System_Windows_Forms_Control_OnDockChanged_System_EventArgs_) | [OnDoubleClick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnDoubleClick_System_EventArgs_) |
| [OnDpiChangedAfterParent(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedafterparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedAfterParent_System_EventArgs_) | [OnDpiChangedBeforeParent(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent?view=netcore-3.1#System_Windows_Forms_Control_OnDpiChangedBeforeParent_System_EventArgs_) | [OnDragDrop(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragdrop?view=netcore-3.1#System_Windows_Forms_Control_OnDragDrop_System_Windows_Forms_DragEventArgs_) |
| [OnDragEnter(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragenter?view=netcore-3.1#System_Windows_Forms_Control_OnDragEnter_System_Windows_Forms_DragEventArgs_) | [OnDragLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragleave?view=netcore-3.1#System_Windows_Forms_Control_OnDragLeave_System_EventArgs_) | [OnDragOver(DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ondragover?view=netcore-3.1#System_Windows_Forms_Control_OnDragOver_System_Windows_Forms_DragEventArgs_) |
| [OnEnabledChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnEnabledChanged_System_EventArgs_) | [OnEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onenter?view=netcore-3.1#System_Windows_Forms_Control_OnEnter_System_EventArgs_) | [OnFontChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnFontChanged_System_EventArgs_) |
| [OnForeColorChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnForeColorChanged_System_EventArgs_) | [OnGiveFeedback(GiveFeedba ckEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongivefeedback?view=netcore-3.1#System_Windows_Forms_Control_OnGiveFeedback_System_Windows_Forms_GiveFeedbackEventArgs_) | [OnGotFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ongotfocus?view=netcore-3.1#System_Windows_Forms_Control_OnGotFocus_System_EventArgs_) |
| [OnHandleCreated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandlecreated?view=netcore-3.1#System_Windows_Forms_Control_OnHandleCreated_System_EventArgs_) | [OnHandleDestroyed(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhandledestroyed?view=netcore-3.1#System_Windows_Forms_Control_OnHandleDestroyed_System_EventArgs_) | [OnHelpRequested(HelpEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onhelprequested?view=netcore-3.1#System_Windows_Forms_Control_OnHelpRequested_System_Windows_Forms_HelpEventArgs_) |
| [OnImeModeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onimemodechanged?view=netcore-3.1#System_Windows_Forms_Control_OnImeModeChanged_System_EventArgs_) | [OnInvalidated(InvalidateEven tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.oninvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnInvalidated_System_Windows_Forms_InvalidateEventArgs_) | [OnKeyDown(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnKeyDown_System_Windows_Forms_KeyEventArgs_) |
| [OnKeyPress(KeyPressEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeypress?view=netcore-3.1#System_Windows_Forms_Control_OnKeyPress_System_Windows_Forms_KeyPressEventArgs_) | [OnKeyUp(KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onkeyup?view=netcore-3.1#System_Windows_Forms_Control_OnKeyUp_System_Windows_Forms_KeyEventArgs_) | [OnLayout(LayoutEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onlayout?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnLayout_System_Windows_Forms_LayoutEventArgs_) |
| [OnLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onleave?view=netcore-3.1#System_Windows_Forms_Control_OnLeave_System_EventArgs_) | [OnLocationChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlocationchanged?view=netcore-3.1#System_Windows_Forms_Control_OnLocationChanged_System_EventArgs_) | [OnLostFocus(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onlostfocus?view=netcore-3.1#System_Windows_Forms_Control_OnLostFocus_System_EventArgs_) |
| [OnMarginChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmarginchanged?view=netcore-3.1#System_Windows_Forms_Control_OnMarginChanged_System_EventArgs_) | [OnMouseCaptureChanged(Ev](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_)  [entArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousecapturechanged?view=netcore-3.1#System_Windows_Forms_Control_OnMouseCaptureChanged_System_EventArgs_) | [OnMouseClick(MouseEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseClick_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseDoubleClick(MouseEven](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_)  [tArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedoubleclick?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDoubleClick_System_Windows_Forms_MouseEventArgs_) | [OnMouseDown(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousedown?view=netcore-3.1#System_Windows_Forms_Control_OnMouseDown_System_Windows_Forms_MouseEventArgs_) | [OnMouseEnter(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseenter?view=netcore-3.1#System_Windows_Forms_Control_OnMouseEnter_System_EventArgs_) |
| [OnMouseHover(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousehover?view=netcore-3.1#System_Windows_Forms_Control_OnMouseHover_System_EventArgs_) | [OnMouseLeave(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseleave?view=netcore-3.1#System_Windows_Forms_Control_OnMouseLeave_System_EventArgs_) | [OnMouseMove(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmousemove?view=netcore-3.1#System_Windows_Forms_Control_OnMouseMove_System_Windows_Forms_MouseEventArgs_) |
| [OnMouseUp(MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmouseup?view=netcore-3.1#System_Windows_Forms_Control_OnMouseUp_System_Windows_Forms_MouseEventArgs_) | [OnMouseWheel(MouseEvent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onmousewheel?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnMouseWheel_System_Windows_Forms_MouseEventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onmousewheel?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnMouseWheel_System_Windows_Forms_MouseEventArgs_) | [OnMove(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onmove?view=netcore-3.1#System_Windows_Forms_Control_OnMove_System_EventArgs_) |
| [OnNotifyMessage(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onnotifymessage?view=netcore-3.1#System_Windows_Forms_Control_OnNotifyMessage_System_Windows_Forms_Message_) | [OnPaddingChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnPaddingChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onpaddingchanged?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnPaddingChanged_System_EventArgs_) | [OnPaint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpaint?view=netcore-3.1#System_Windows_Forms_Control_OnPaint_System_Windows_Forms_PaintEventArgs_) |
| [OnPaintBackground(PaintEventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onpaintbackground?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnPaintBackground_System_Windows_Forms_PaintEventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onpaintbackground?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnPaintBackground_System_Windows_Forms_PaintEventArgs_) | [OnParentBackColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackcolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackColorChanged_System_EventArgs_) | [OnParentBackgroundImageC hanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBackgroundImageChanged_System_EventArgs_) |
| [OnParentBindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_)  [(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentBindingContextChanged_System_EventArgs_) | [OnParentChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentChanged_System_EventArgs_) | [OnParentCursorChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentcursorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentCursorChanged_System_EventArgs_) |
| [OnParentEnabledChanged(EventA](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_)  [rgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentenabledchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentEnabledChanged_System_EventArgs_) | [OnParentFontChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentfontchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentFontChanged_System_EventArgs_) | [OnParentForeColorChanged(](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_)  [EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentforecolorchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentForeColorChanged_System_EventArgs_) |

|  |  |  |
| --- | --- | --- |
| [OnParentRightToLeftChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentRightToLeftChanged_System_EventArgs_) | [OnParentVisibleChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onparentvisiblechanged?view=netcore-3.1#System_Windows_Forms_Control_OnParentVisibleChanged_System_EventArgs_) | [OnPreviewKeyDown(Preview](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_)  [KeyDownEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onpreviewkeydown?view=netcore-3.1#System_Windows_Forms_Control_OnPreviewKeyDown_System_Windows_Forms_PreviewKeyDownEventArgs_) |
| [OnPrint(PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onprint?view=netcore-3.1#System_Windows_Forms_Control_OnPrint_System_Windows_Forms_PaintEventArgs_) | [OnQueryContinueDrag(Query](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_)  [ContinueDragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onquerycontinuedrag?view=netcore-3.1#System_Windows_Forms_Control_OnQueryContinueDrag_System_Windows_Forms_QueryContinueDragEventArgs_) | [OnRegionChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onregionchanged?view=netcore-3.1#System_Windows_Forms_Control_OnRegionChanged_System_EventArgs_) |
| [OnResize(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.onresize?view=netcore-3.1#System_Windows_Forms_Panel_OnResize_System_EventArgs_) | [OnRightToLeftChanged(Event](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnRightToLeftChanged_System_EventArgs_)  [Args)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onrighttoleftchanged?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnRightToLeftChanged_System_EventArgs_) | [OnScroll(ScrollEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onscroll?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnScroll_System_Windows_Forms_ScrollEventArgs_) |
| [OnSizeChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsizechanged?view=netcore-3.1#System_Windows_Forms_Control_OnSizeChanged_System_EventArgs_) | [OnStyleChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onstylechanged?view=netcore-3.1#System_Windows_Forms_Control_OnStyleChanged_System_EventArgs_) | [OnSystemColorsChanged(Eve](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_)  [ntArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onsystemcolorschanged?view=netcore-3.1#System_Windows_Forms_Control_OnSystemColorsChanged_System_EventArgs_) |
| [OnTabIndexChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabindexchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabIndexChanged_System_EventArgs_) | [OnTabStopChanged(EventAr](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_)  [gs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontabstopchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTabStopChanged_System_EventArgs_) | [OnTextChanged(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.ontextchanged?view=netcore-3.1#System_Windows_Forms_Control_OnTextChanged_System_EventArgs_) |
| [OnValidated(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidated?view=netcore-3.1#System_Windows_Forms_Control_OnValidated_System_EventArgs_) | [OnValidating(CancelEventArg](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_)  [s)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.onvalidating?view=netcore-3.1#System_Windows_Forms_Control_OnValidating_System_ComponentModel_CancelEventArgs_) | [OnVisibleChanged(EventArgs](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnVisibleChanged_System_EventArgs_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.onvisiblechanged?view=netcore-3.1#System_Windows_Forms_ScrollableControl_OnVisibleChanged_System_EventArgs_) |
| [PerformLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout) | [PerformLayout(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_)  [String)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.performlayout?view=netcore-3.1#System_Windows_Forms_Control_PerformLayout_System_Windows_Forms_Control_System_String_) | [PointToClient(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoclient?view=netcore-3.1#System_Windows_Forms_Control_PointToClient_System_Drawing_Point_) |
| [PointToScreen(Point)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.pointtoscreen?view=netcore-3.1#System_Windows_Forms_Control_PointToScreen_System_Drawing_Point_) | [PreProcessControlMessage(M](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__)  [essage)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocesscontrolmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessControlMessage_System_Windows_Forms_Message__) | [PreProcessMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.preprocessmessage?view=netcore-3.1#System_Windows_Forms_Control_PreProcessMessage_System_Windows_Forms_Message__) |
| [ProcessCmdKey(Message, Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processcmdkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessCmdKey_System_Windows_Forms_Message__System_Windows_Forms_Keys_) | [ProcessDialogChar(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogchar?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogChar_System_Char_) | [ProcessDialogKey(Keys)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processdialogkey?view=netcore-3.1#System_Windows_Forms_Control_ProcessDialogKey_System_Windows_Forms_Keys_) |
| [ProcessKeyEventArgs(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeyeventargs?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyEventArgs_System_Windows_Forms_Message__) | [ProcessKeyMessage(Message](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeymessage?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyMessage_System_Windows_Forms_Message__) | [ProcessKeyPreview(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processkeypreview?view=netcore-3.1#System_Windows_Forms_Control_ProcessKeyPreview_System_Windows_Forms_Message__) |
| [ProcessMnemonic(Char)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.processmnemonic?view=netcore-3.1#System_Windows_Forms_Control_ProcessMnemonic_System_Char_) | [RaiseDragEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_)  [DragEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisedragevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseDragEvent_System_Object_System_Windows_Forms_DragEventArgs_) | [RaiseKeyEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_)  [KeyEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisekeyevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseKeyEvent_System_Object_System_Windows_Forms_KeyEventArgs_) |
| [RaiseMouseEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_)  [MouseEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisemouseevent?view=netcore-3.1#System_Windows_Forms_Control_RaiseMouseEvent_System_Object_System_Windows_Forms_MouseEventArgs_) | [RaisePaintEvent(Object,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_)  [PaintEventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.raisepaintevent?view=netcore-3.1#System_Windows_Forms_Control_RaisePaintEvent_System_Object_System_Windows_Forms_PaintEventArgs_) | [RecreateHandle()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.recreatehandle?view=netcore-3.1#System_Windows_Forms_Control_RecreateHandle) |
| [RectangleToClient(Rectangle)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoclient?view=netcore-3.1#System_Windows_Forms_Control_RectangleToClient_System_Drawing_Rectangle_) | [RectangleToScreen(Rectangle](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_)  [)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rectangletoscreen?view=netcore-3.1#System_Windows_Forms_Control_RectangleToScreen_System_Drawing_Rectangle_) | [Refresh()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.refresh?view=netcore-3.1#System_Windows_Forms_Control_Refresh) |
| [RescaleConstantsForDpi(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rescaleconstantsfordpi?view=netcore-3.1#System_Windows_Forms_Control_RescaleConstantsForDpi_System_Int32_System_Int32_) | [ResetBackColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbackcolor?view=netcore-3.1#System_Windows_Forms_Control_ResetBackColor) | [ResetBindings()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetbindings?view=netcore-3.1#System_Windows_Forms_Control_ResetBindings) |
| [ResetCursor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetcursor?view=netcore-3.1#System_Windows_Forms_Control_ResetCursor) | [ResetFont()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetfont?view=netcore-3.1#System_Windows_Forms_Control_ResetFont) | [ResetForeColor()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetforecolor?view=netcore-3.1#System_Windows_Forms_Control_ResetForeColor) |
| [ResetImeMode()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetimemode?view=netcore-3.1#System_Windows_Forms_Control_ResetImeMode) | [ResetMouseEventArgs()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetmouseeventargs?view=netcore-3.1#System_Windows_Forms_Control_ResetMouseEventArgs) | [ResetRightToLeft()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resetrighttoleft?view=netcore-3.1#System_Windows_Forms_Control_ResetRightToLeft) |
| [ResetText()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resettext?view=netcore-3.1#System_Windows_Forms_Control_ResetText) | [ResumeLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout) | [ResumeLayout(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resumelayout?view=netcore-3.1#System_Windows_Forms_Control_ResumeLayout_System_Boolean_) |
| [RtlTranslateAlignment(ContentAli gnment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Drawing_ContentAlignment_) | [RtlTranslateAlignment(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateAlignment(LeftRig htAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatealignment?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateAlignment_System_Windows_Forms_LeftRightAlignment_) |
| [RtlTranslateContent(ContentAlign ment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatecontent?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateContent_System_Drawing_ContentAlignment_) | [RtlTranslateHorizontal(Horizo ntalAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslatehorizontal?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateHorizontal_System_Windows_Forms_HorizontalAlignment_) | [RtlTranslateLeftRight(LeftRigh tAlignment)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.rtltranslateleftright?view=netcore-3.1#System_Windows_Forms_Control_RtlTranslateLeftRight_System_Windows_Forms_LeftRightAlignment_) |
| [Scale(Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_) | [Scale(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Single_System_Single_) | [Scale(SizeF)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scale?view=netcore-3.1#System_Windows_Forms_Control_Scale_System_Drawing_SizeF_) |
| [ScaleBitmapLogicalToDevice(Bitm ap)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice?view=netcore-3.1#System_Windows_Forms_Control_ScaleBitmapLogicalToDevice_System_Drawing_Bitmap__) | [ScaleControl(SizeF,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.scalecontrol?view=netcore-3.1#System_Windows_Forms_ScrollableControl_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_)  [BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.scalecontrol?view=netcore-3.1#System_Windows_Forms_ScrollableControl_ScaleControl_System_Drawing_SizeF_System_Windows_Forms_BoundsSpecified_) | [ScaleCore(Single, Single)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.scalecore?view=netcore-3.1#System_Windows_Forms_ScrollableControl_ScaleCore_System_Single_System_Single_) |
| [ScrollControlIntoView(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.scrollcontrolintoview?view=netcore-3.1#System_Windows_Forms_ScrollableControl_ScrollControlIntoView_System_Windows_Forms_Control_) | [ScrollToControl(Control)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.scrolltocontrol?view=netcore-3.1#System_Windows_Forms_ScrollableControl_ScrollToControl_System_Windows_Forms_Control_) | [Select()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select) |
| [Select(Boolean, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.select?view=netcore-3.1#System_Windows_Forms_Control_Select_System_Boolean_System_Boolean_) | [SelectNextControl(Control,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean, Boolean, Boolean,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.selectnextcontrol?view=netcore-3.1#System_Windows_Forms_Control_SelectNextControl_System_Windows_Forms_Control_System_Boolean_System_Boolean_System_Boolean_System_Boolean_) | [SendToBack()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sendtoback?view=netcore-3.1#System_Windows_Forms_Control_SendToBack) |
| [SetAutoScrollMargin(Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.setautoscrollmargin?view=netcore-3.1#System_Windows_Forms_ScrollableControl_SetAutoScrollMargin_System_Int32_System_Int32_) | [SetAutoSizeMode(AutoSizeM ode)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setautosizemode?view=netcore-3.1#System_Windows_Forms_Control_SetAutoSizeMode_System_Windows_Forms_AutoSizeMode_) | [SetBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [SetBound](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_)s(Int32, Int32, Int32,  [Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setbounds?view=netcore-3.1#System_Windows_Forms_Control_SetBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | SetBoundsCore(Int32, Int32,  [Int32, Int32, BoundsSpecified)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setboundscore?view=netcore-3.1#System_Windows_Forms_Control_SetBoundsCore_System_Int32_System_Int32_System_Int32_System_Int32_System_Windows_Forms_BoundsSpecified_) | [SetClientSizeCore(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setclientsizecore?view=netcore-3.1#System_Windows_Forms_Control_SetClientSizeCore_System_Int32_System_Int32_) |
| [SetDisplayRectLocation(Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.setdisplayrectlocation?view=netcore-3.1#System_Windows_Forms_ScrollableControl_SetDisplayRectLocation_System_Int32_System_Int32_)  [Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.setdisplayrectlocation?view=netcore-3.1#System_Windows_Forms_ScrollableControl_SetDisplayRectLocation_System_Int32_System_Int32_) | [SetScrollState(Int32, Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.setscrollstate?view=netcore-3.1#System_Windows_Forms_ScrollableControl_SetScrollState_System_Int32_System_Boolean_) | [SetStyle(ControlStyles,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_)  [Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setstyle?view=netcore-3.1#System_Windows_Forms_Control_SetStyle_System_Windows_Forms_ControlStyles_System_Boolean_) |
| [SetTopLevel(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.settoplevel?view=netcore-3.1#System_Windows_Forms_Control_SetTopLevel_System_Boolean_) | [SetVisibleCore(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.setvisiblecore?view=netcore-3.1#System_Windows_Forms_Control_SetVisibleCore_System_Boolean_) | [Show()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.show?view=netcore-3.1#System_Windows_Forms_Control_Show) |
| [SizeFromClientSize(Size)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizefromclientsize?view=netcore-3.1#System_Windows_Forms_Control_SizeFromClientSize_System_Drawing_Size_) | [SuspendLayout()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.suspendlayout?view=netcore-3.1#System_Windows_Forms_Control_SuspendLayout) | [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.tostring?view=netcore-3.1#System_Windows_Forms_Panel_ToString) |
| [Update()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.update?view=netcore-3.1#System_Windows_Forms_Control_Update) | [UpdateBounds()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds) | UpdateBounds(Int32, Int32,  [Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_) |
| [UpdateBounds(Int32, Int32, Int32,](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_)  [Int32, Int32, Int32)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatebounds?view=netcore-3.1#System_Windows_Forms_Control_UpdateBounds_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_System_Int32_) | [UpdateStyles()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatestyles?view=netcore-3.1#System_Windows_Forms_Control_UpdateStyles) | [UpdateZOrder()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.updatezorder?view=netcore-3.1#System_Windows_Forms_Control_UpdateZOrder) |
| [WndProc(Message)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.wndproc?view=netcore-3.1#System_Windows_Forms_ScrollableControl_WndProc_System_Windows_Forms_Message__) |  |  |

U tabeli 40 su dati svi događaji za kontrolu *Panel*.

#### **Tabela 40.** Tabela događaja za kontrolu Panel [7]

|  |  |  |
| --- | --- | --- |
| [AutoSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.autosizechanged?view=netcore-3.1) | [BackColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backcolorchanged?view=netcore-3.1) | [BackgroundImageChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagechanged?view=netcore-3.1) |
| [BackgroundImageLayoutChan](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1)  [ged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged?view=netcore-3.1) | [BindingContextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.bindingcontextchanged?view=netcore-3.1) | [CausesValidationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.causesvalidationchanged?view=netcore-3.1) |
| [ChangeUICues](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.changeuicues?view=netcore-3.1) | [Click](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.click?view=netcore-3.1) | [ClientSizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.clientsizechanged?view=netcore-3.1) |
| [ContextMenuChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenuchanged?view=netcore-3.1) | [ContextMenuStripChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.contextmenustripchanged?view=netcore-3.1) | [ControlAdded](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controladded?view=netcore-3.1) |
| [ControlRemoved](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.controlremoved?view=netcore-3.1) | [CursorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.cursorchanged?view=netcore-3.1) | [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) |
| [DockChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dockchanged?view=netcore-3.1) | [DoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.doubleclick?view=netcore-3.1) | [DpiChangedAfterParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedafterparent?view=netcore-3.1) |
| [DpiChangedBeforeParent](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dpichangedbeforeparent?view=netcore-3.1) | [DragDrop](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragdrop?view=netcore-3.1) | [DragEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragenter?view=netcore-3.1) |
| [DragLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragleave?view=netcore-3.1) | [DragOver](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.dragover?view=netcore-3.1) | [EnabledChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enabledchanged?view=netcore-3.1) |
| [Enter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.enter?view=netcore-3.1) | [FontChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.fontchanged?view=netcore-3.1) | [ForeColorChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.forecolorchanged?view=netcore-3.1) |
| [GiveFeedback](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.givefeedback?view=netcore-3.1) | [GotFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.gotfocus?view=netcore-3.1) | [HandleCreated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handlecreated?view=netcore-3.1) |
| [HandleDestroyed](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.handledestroyed?view=netcore-3.1) | [HelpRequested](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.helprequested?view=netcore-3.1) | [ImeModeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.imemodechanged?view=netcore-3.1) |
| [Invalidated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.invalidated?view=netcore-3.1) | [KeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.keydown?view=netcore-3.1) | [KeyPress](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.keypress?view=netcore-3.1) |
| [KeyUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.keyup?view=netcore-3.1) | [Layout](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.layout?view=netcore-3.1) | [Leave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.leave?view=netcore-3.1) |
| [LocationChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.locationchanged?view=netcore-3.1) | [LostFocus](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.lostfocus?view=netcore-3.1) | [MarginChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.marginchanged?view=netcore-3.1) |
| [MouseCaptureChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousecapturechanged?view=netcore-3.1) | [MouseClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseclick?view=netcore-3.1) | [MouseDoubleClick](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedoubleclick?view=netcore-3.1) |
| [MouseDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousedown?view=netcore-3.1) | [MouseEnter](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseenter?view=netcore-3.1) | [MouseHover](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousehover?view=netcore-3.1) |
| [MouseLeave](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseleave?view=netcore-3.1) | [MouseMove](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousemove?view=netcore-3.1) | [MouseUp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mouseup?view=netcore-3.1) |
| [MouseWheel](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.mousewheel?view=netcore-3.1) | [Move](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.move?view=netcore-3.1) | [PaddingChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paddingchanged?view=netcore-3.1) |
| [Paint](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.paint?view=netcore-3.1) | [ParentChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.parentchanged?view=netcore-3.1) | [PreviewKeyDown](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.previewkeydown?view=netcore-3.1) |
| [QueryAccessibilityHelp](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.queryaccessibilityhelp?view=netcore-3.1) | [QueryContinueDrag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.querycontinuedrag?view=netcore-3.1) | [RegionChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.regionchanged?view=netcore-3.1) |
| [Resize](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.resize?view=netcore-3.1) | [RightToLeftChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.righttoleftchanged?view=netcore-3.1) | [Scroll](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.scrollablecontrol.scroll?view=netcore-3.1) |
| [SizeChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.sizechanged?view=netcore-3.1) | [StyleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.stylechanged?view=netcore-3.1) | [SystemColorsChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.systemcolorschanged?view=netcore-3.1) |
| [TabIndexChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabindexchanged?view=netcore-3.1) | [TabStopChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.tabstopchanged?view=netcore-3.1) | [TextChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.panel.textchanged?view=netcore-3.1) |
| [Validated](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validated?view=netcore-3.1) | [Validating](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.validating?view=netcore-3.1) | [VisibleChanged](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.control.visiblechanged?view=netcore-3.1) |

### 6.9.12. Kontrola Timer

Tajmer ili [Timer](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer?view=netcore-3.1) se koristi za događaje koji se dešavaju u nekom intervalu. Intervale trajanja nekog događaja definiše korisnik.

Kada se koristi komponenta tajmer, koristi se događaj *Tick* da bi se izvršio određeni događaj. Kad god je svojstvo *Enabled* postavljeno na true, a svojstvo *Interval* veće od nule, događaj *Tick* se postavlja u intervalima na osnovu postavke svojstva *Interval*.

Klasa *Timer* pruža metode za podešavanje intervala i pokretanje i zaustavljanje tajmera.

U tabeli 41 su data sva svojstva za kontrolu *Timer*.

#### **Tabela 41.** Tabela svojstava za kontrolu Timer [7]

|  |  |  |  |
| --- | --- | --- | --- |
| [CanRaiseEvents](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.canraiseevents?view=netcore-3.1#System_ComponentModel_Component_CanRaiseEvents) | [Container](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.container?view=netcore-3.1#System_ComponentModel_Component_Container) | [DesignMode](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.designmode?view=netcore-3.1#System_ComponentModel_Component_DesignMode) | [Enabled](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.enabled?view=netcore-3.1#System_Windows_Forms_Timer_Enabled) |
| [Events](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.events?view=netcore-3.1#System_ComponentModel_Component_Events) | [Interval](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.interval?view=netcore-3.1#System_Windows_Forms_Timer_Interval) | [Site](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.site?view=netcore-3.1#System_ComponentModel_Component_Site) | [Tag](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.tag?view=netcore-3.1#System_Windows_Forms_Timer_Tag) |

U tabeli 42 su date sve metode za kontrolu *Timer*.

#### **Tabela 42.** Tabela metoda za kontrolu Timer [7]

|  |  |  |
| --- | --- | --- |
| [CreateObjRef(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.createobjref?view=netcore-3.1#System_MarshalByRefObject_CreateObjRef_System_Type_) | [Dispose()](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.dispose?view=netcore-3.1#System_ComponentModel_Component_Dispose) | [Dispose(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.dispose?view=netcore-3.1#System_Windows_Forms_Timer_Dispose_System_Boolean_) |
| [Equals(Object)](https://docs.microsoft.com/en-us/dotnet/api/system.object.equals?view=netcore-3.1#System_Object_Equals_System_Object_) | [GetHashCode()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gethashcode?view=netcore-3.1#System_Object_GetHashCode) | [GetLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.getlifetimeservice?view=netcore-3.1#System_MarshalByRefObject_GetLifetimeService) |
| [GetService(Type)](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.getservice?view=netcore-3.1#System_ComponentModel_Component_GetService_System_Type_) | [GetType()](https://docs.microsoft.com/en-us/dotnet/api/system.object.gettype?view=netcore-3.1#System_Object_GetType) | [InitializeLifetimeService()](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.initializelifetimeservice?view=netcore-3.1#System_MarshalByRefObject_InitializeLifetimeService) |
| [MemberwiseClone()](https://docs.microsoft.com/en-us/dotnet/api/system.object.memberwiseclone?view=netcore-3.1#System_Object_MemberwiseClone) | [MemberwiseClone(Boolean)](https://docs.microsoft.com/en-us/dotnet/api/system.marshalbyrefobject.memberwiseclone?view=netcore-3.1#System_MarshalByRefObject_MemberwiseClone_System_Boolean_) | [OnTick(EventArgs)](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.ontick?view=netcore-3.1#System_Windows_Forms_Timer_OnTick_System_EventArgs_) |
| [Start()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.start?view=netcore-3.1#System_Windows_Forms_Timer_Start) | [Stop()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.stop?view=netcore-3.1#System_Windows_Forms_Timer_Stop) | [ToString()](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.tostring?view=netcore-3.1#System_Windows_Forms_Timer_ToString) |

Komponenta tajmer ima samo dva događaja, i to su: [Disposed](https://docs.microsoft.com/en-us/dotnet/api/system.componentmodel.component.disposed?view=netcore-3.1) i [Tick.](https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms.timer.tick?view=netcore-3.1)

# LITERATURA

1. C# Programski jezik, Materijali sa Univeziteta Metropolitan, Beograd sa sajta: <http://digis.edu.rs/course/view.php?id=86> (7.7.2020)
2. Nikola Bošković, Programiranje III, materijali sa nastave u elektronskoj formi, ITHS, 2019/2020. godina
3. Svetlana Anđelić, VISUAL C#.NET PROGRAMIRANJE, Zbirka rešenih zadataka, Visoka škola strukovnih studija za informacione tehnologije ITS, Beograd, 2015.
4. Goran Agatonović, Objektno programiranje, Beogradska poslovna škola, Beograd, 2010.
5. Jesse Liberty, Programiranje na jeziku C#, prevod četvrtog izdanja, Mikro knjiga, Beograd, 2007.
6. Zoran Ćirović, Ivan Dunđerski, Tehnike vizuelnog programiranja C#, Visoka elektrotehnička škola, Beograd, 2005.
7. https://docs.microsoft.com/en-us/dotnet/api/system.windows.forms?view=netcore-3.1 (7.7.2020)