

Namespace ASE_Assignment

Classes

▼ Filter by title

AppCanvas (ASE_Assignment.AppCanvas.html)

Initialises drawing surface and provides methods for drawing and also manages the drawing surface.

AppCanvas

(ASE_Assignment.AppCanvas.html)

AppCommandFactory (ASE_Assignment.AppCommandFactory.html)

AppCommandFactory
Factory class for creating instances of ASE_Assignment and BOOSE commands. BOOSE.CommandFactory

(ASE_Assignment.AppCommandFactory.html)

Circle

(ASE_Assignment.Circle.html)

Circle (ASE_Assignment.Circle.html)

Form1

Command to draw a circle on the canvas.

(ASE_Assignment.Form1.html)

MoveTo

(ASE_Assignment.MoveTo.html)

Form1 (ASE_Assignment.Form1.html)

PenColour

Represents the main form of the application, handling user input and the drawing canvas.

(ASE_Assignment.PenColour.html)

Rect (ASE_Assignment.Rect.html)

MoveTo (ASE_Assignment.MoveTo.html)

ASE_AssignmentTests
Command which moves the pen to specified (x,y) coordinates.

(ASE_AssignmentTests.html)

PenColour (ASE_Assignment.PenColour.html)

Command which sets the pen colour to draw with using RGB values.

Rect (ASE_Assignment.Rect.html)

Command to draw a rectangle on the canvas.

Class AppCanvas

Initialises drawing surface and provides methods for drawing and also manages the drawing surface.

▼ Filter by title

Inheritance

↳ **ASE Assignment**
(ASE_Assignment.html)

↳ AppCanvas
(ASE_Assignment.AppCanvas.html)

↳ ICanvas
(ASE_Assignment.AppCommandFac

Inherited Members

Canvas.BackgroundColor (ASE_Assignment.Circle.html)
Canvas.Fill (int, int) (https://learn.microsoft.com/dotnet/api/system.int32)
Canvas.FillRect (int, int, bool) (https://learn.microsoft.com/dotnet/api/system.int32)
Canvas.MoveTo
Canvas.Reset()
Canvas.WriteString (string) (https://learn.microsoft.com/dotnet/api/system.string)
Canvas.PenColour
Canvas.Xpos
Canvas.Ypos
Rect (ASE_Assignment.Rect.html)
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
+ **ASE AssignmentTests**
(ASE_AssignmentTests.html)
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

Namespace: ASE_Assignment (ASE_Assignment.html)

Assembly: ASE_Assignment.dll

Syntax

```
public class AppCanvas : Canvas, ICanvas
```

Constructors

AppCanvas(int, int)

Initialises an instance of the AppCanvas class using the width and height provided.

Declaration

```
public AppCanvas(int width, int height)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>width</i>	Width of the drawing surface
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>height</i>	Height of the drawing surface

(ASE_Assignment.html)

AppCanvas

(ASE_Assignment.AppCanvas.html)

AppCommandFactory

(ASE_Assignment.AppCommandFactory.html)

Circle

(ASE_Assignment.Circle.html)

Form1

Sets the pen colour used when drawing on the canvas.

(ASE_Assignment.Form1.html)

Declaration

MoveTo

(ASE_Assignment.MoveTo.html)

PenColour

```
public override object PenColour { get; set; }
```

(ASE_Assignment.PenColour.html)

Rect (ASE_Assignment.Rect.html)

Property Value

+ ASE_AssignmentTests

Type	Description
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object (<https://learn.microsoft.com/dotnet/api/system.object>)

Overrides

BOOSE.Canvas.PenColour

Methods

CheckWithinBounds(int, int)

Checks if parameters given are within drawing surface bounds and throws BOOSE.CommandException if not.

Declaration

```
public void CheckWithinBounds(int x, int y)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>x</i>	X position to be checked if within bounds.

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>y</i>	Y position to be checked if within bounds.

Exceptions

Type	Condition
CommandException	Thrown if X or Y provided are out of bounds.

- ASE_Assignment (ASE_Assignment.html)

Circle(int, bool)

(ASE_Assignment.AppCanvas.html)
Draws a circle from the current position with the specified radius, filled or unfilled.
AppCommandFactory

(ASE_Assignment.AppCommandFactory.html)
Declaration
Circle
(ASE_Assignment.Circle.html)
public override void Circle(int radius, bool filled)
Form1
(ASE_Assignment.Form1.html)

Parameters

Type	Name	Description
PenColour (ASE_Assignment.MoveTo.html)		
int (https://learn.microsoft.com/dotnet/api/system.int32) (ASE_Assignment.PenColour.html)	<i>radius</i>	Radius of the circle drawn
bool Rect (ASE_Assignment.Rect.html)	<i>filled</i>	Bool representing if the circle should be filled

+ ASE_AssignmentTests

(ASE_AssignmentTests.html)

Overrides

Canvas.Circle(int, bool) (<https://learn.microsoft.com/dotnet/api/system.int32>)

Clear()

Clears the canvas by filling it with the current background colour.

Declaration

```
public override void Clear()
```

Overrides

BOOSE.Canvas.Clear()

DrawTo(int, int)

Draws a line from the current position to the specified (x,y) coordinates and sets the current position to the (x,y) coordinates.

Declaration

```
public override void DrawTo(int x, int y)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>x</i>	X coordinate to draw to
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>y</i>	Y coordinate to draw to

ASE_Assignment (ASE_Assignment.html)

Overrides

AppCanvas
Canvas.DrawTo(int, int) (<https://learn.microsoft.com/dotnet/api/system.int32>)
(ASE_Assignment.AppCanvas.html)

AppCommandFactory

(ASE_Assignment.AppCommandFac

MoveTo(int, int)

Circle

(ASE_Assignment.Circle.html)

Moves pen position to given (x,y) coordinate.

Form1

(ASE_Assignment.Form1.html)

Declaration

MoveTo

```
public override void MoveTo(int x, int y)
```

PenColour

(ASE_Assignment.PenColour.html)

Parameters

Rect (ASE_Assignment.Rect.html)

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>x</i>	X position to move to.
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>y</i>	Y position to move to.

Overrides

Canvas.MoveTo(int, int) (<https://learn.microsoft.com/dotnet/api/system.int32>)

Rect(int, int, bool)

Draws a rectangle with the specified width and height, filled or unfilled.

Declaration

```
public override void Rect(int width, int height, bool filled)
```

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>width</i>	Width of the rectangle
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>height</i>	Height of the rectangle

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	<i>filled</i>	Bool representing if the rectangle should be filled

▽
Overrides

Canvas.Rect(int, int, bool) (<https://learn.microsoft.com/dotnet/api/system.int32>)

- **ASE_Assignment**

(ASE_Assignment.html)

Set(int, int)

AppCanvas

Initialises then sets the default conditions of the canvas, such as background colour and pen colour.

AppCommandFactory

Declaration

(ASE_Assignment.AppCommandFac

Circle

public override void Set(int width, int height)

Form1

(ASE_Assignment.Form1.html)

Parameters

MoveTo

Type	Name	Description
PenColour (https://learn.microsoft.com/dotnet/api/system.int32) (ASE_Assignment.PenColour.html)	<i>width</i>	Width of the drawing surface
int (https://learn.microsoft.com/dotnet/api/system.int32) (ASE_Assignment.Rect.html)	<i>height</i>	Height of the drawing surface

+ **ASE_AssignmentTests**

Overrides

(ASE_AssignmentTests.html)

Canvas.Set(int, int) (<https://learn.microsoft.com/dotnet/api/system.int32>)

SetColour(int, int, int)

Sets the pen colour using RGB values.

Declaration

public override void SetColour(int red, int green, int blue)

Parameters

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>red</i>	Red value of pen colour
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>green</i>	Green value of pen colour
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>blue</i>	Blue value of pen colour

Overrides

Canvas.SetColour(int, int, int) (<https://learn.microsoft.com/dotnet/api/system.int32>)

getBitmap()

Used to retrieve the bitmap of the AppCanvas drawing surface

Declaration

```
public override object getBitmap()
```

References

Type	Description
AppCanvas (ASE_Assignment.html) object (https://learn.microsoft.com/dotnet/api/system.object) (ASE_Assignment.AppCanvas.html)	Object of the drawing surface

Overrides

- AppCommandFactory
(ASE_Assignment.AppCommandFactory.html)
- BOOSE.Canvas.getBitmap()
Circle
(ASE_Assignment.Circle.html)

Implements

- Form1
(ASE_Assignment.Form1.html)
- BOOSE.Canvas
MoveTo
(ASE_Assignment.MoveTo.html)
- PenColour
(ASE_Assignment.PenColour.html)
- Rect (ASE_Assignment.Rect.html)

+ ASE_AssignmentTests (ASE_AssignmentTests.html)

Class AppCommandFactory

Factory class for creating instances of ASE_Assignment and BOOSE commands. BOOSE.CommandFactory

▼ Filter by title

Inheritance

Object (https://learn.microsoft.com/dotnet/api/system.object)
ASE_Assignment
(ASE_Assignment.html)

AppCommandFactory
AppCanvas
Implements
AppCommandFactory
ICommandFactory
(ASE_Assignment.AppCommandFac

Inherited Members
Circle
(ASE_Assignment.Circle.html)
object.Equals(Object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
Form1
(ASE_Assignment.Form1.html)
object.Equals(Object, Object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
MoveTo
(ASE_Assignment.MoveTo.html)
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
PenColour
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
(ASE_Assignment.PenColour.html)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
Rect
(ASE_Assignment.Rect.html)
object.ReferenceEquals(Object, Object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)

+ ASE_AssignmentTests

Namespace: ASE_Assignment (ASE_Assignment.html)
(ASE_AssignmentTests.html)

Assembly: ASE_Assignment.dll

Syntax

```
public class AppCommandFactory : CommandFactory, ICommandFactory
```

Methods

MakeCommand(string)

Creates an instance of specified command based on commandType provided.

Declaration

```
public override ICommand MakeCommand(string commandType)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	<i>commandType</i>	String correlating to class constructor to be initialised. If commandType is not recognised BOOSE.CommandFactory is called to determine if the command exists within BOOSE library.



Returns

Type	Description
- ASE_Assignment (ASE_Assignment.html) ICommand AppCanvas	Returns ICommand object corresponding to the commandType

(ASE_Assignment.AppCanvas.html)

Overrides

AppCommandFactory

CommandFactory.MakeCommand(string) (<https://learn.microsoft.com/dotnet/api/system.string>)

(ASE_Assignment.AppCommandFactory.html)

See Also

Circle
(ASE_Assignment.Circle.html)

ICommand

Form1

(ASE_Assignment.Form1.html)

Implements

MoveTo
(ASE_Assignment.MoveTo.html)

BOOSE.ICommandFactory

PenColour

(ASE_Assignment.PenColour.html)

Rect (ASE_Assignment.Rect.html)

+ ASE_AssignmentTests

(ASE_AssignmentTests.html)

Class Circle

Command to draw a circle on the canvas.

▼ Filter by title

Inheritance

Object (https://learn.microsoft.com/dotnet/api/system.object)
(ASE_Assignment.html)

CanvasCommand
AppCanvas
CommandOneParameter
(ASE_Assignment.AppCanvas.html)
AppCommandFactory
(ASE_Assignment.AppCommandFactory.html)

Implements
Circle
ICommand
(ASE_Assignment.Circle.html)

Inherited Members

(ASE_Assignment.Form1.html)
CommandOneParameter.param1
MoveTo
CommandOneParameter.param1unprocessed
(ASE_Assignment.MoveTo.html)
CanvasCommand.yPos
BenColour
(ASE_Assignment.BenColour.html)
CanvasCommand.canvas
Rect (ASE_Assignment.Rect.html)
CanvasCommand.Canvas

Command.program
Command.parameterList
(ASE_AssignmentTests.html)
Command.parameters

Command.paramsint
Command.Set(StoredProgram, string) (https://learn.microsoft.com/dotnet/api/system.string)
Command.Compile()
Command.ProcessParameters(string) (https://learn.microsoft.com/dotnet/api/system.string)
Command.ToString()
Command.Program
Command.Name
Command.ParameterList
Command.Parameters
Command.Paramsint
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: ASE_Assignment (ASE_Assignment.html)

Assembly: ASE_Assignment.dll

Syntax

```
public class Circle : CommandOneParameter, ICommand
```

Constructors



Circle() - ASE_Assignment

Initialises new instance of Circle (ASE_Assignment.Circle.html) with no parameters.

Declaration
AppCanvas
(ASE_Assignment.AppCanvas.html)
AppCommandFactory
public Circle()
(ASE_Assignment.AppCommandFac
Circle
(ASE_Assignment.Circle.html)

Circle(Canvas, int) Form1 (ASE_Assignment.Form1.html)

Initialises new instance of Circle (ASE_Assignment.Circle.html) with a specified canvas and radius.

MoveTo
(ASE_Assignment.MoveTo.html)
Declaration
PenColour
(ASE_Assignment.PenColour.html)
public Circle(Canvas c, int radius)
Rect (ASE_Assignment.Rect.html)

+ ASE_AssignmentTests

Parameters
(ASE_AssignmentTests.html)

Type		Name	Description
Canvas		<i>c</i>	Canvas that the circle is to be drawn on.
int (https://learn.microsoft.com/dotnet/api/system.int32)		<i>radius</i>	The radius of the circle that will be drawn.

Methods

CheckParameters(string[])

Checks if Circle command has been called with the correct amount of parameters.

Declaration

```
public override void CheckParameters(string[] parameterList)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	<i>parameterList</i>	String array to be checked to ensure the correct number of parameters has been passed.

Overrides

ASE_Assignment
CommandOneParameter.CheckParameters(string[]) (<https://learn.microsoft.com/dotnet/api/system.string>)

(ASE_Assignment.html)

Exceptions

Type	Condition
AppCanvas (ASE_Assignment.AppCanvas.html)	
AppCommandException (ASE_Assignment.AppCommandFac	Thrown if the number of parameters is not 1.

Circle

(ASE_Assignment.Circle.html)

Execute()

(ASE_Assignment.Form1.html)
Calls BOOSE.Command.Execute(), then draws a circle with specified radius.

MoveTo

(ASE_Assignment.MoveTo.html)

Declaration

PenColour
(ASE_Assignment.PenColour.html)

Rect (ASE_Assignment.Rect.html)

ASE_AssignmentTests

BOOSE.AssignmentTests (ASE_AssignmentTests.html)

Implements

BOOSE.ICommand

See Also

CommandOneParameter

Class Form1

Represents the main form of the application, handling user input and the drawing canvas.

▼ Filter by title

Inheritance

ASE Assignment

↳ Object (<https://learn.microsoft.com/dotnet/api/system.object>)
(ASE_Assignment_Object.html)
↳ MarshalByRefObject (<https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject>)
↳ Component (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component>)
AppCanvas
(ASE_Assignment_AppCanvas.html)
↳ Control (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control>)
AppCommandFactory
(ASE_Assignment_AppCommandFactory.html)
↳ ScrollableControl (<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol>)
(ASE_Assignment_ScrollableControl.html)
↳ ContainerControl (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol>)
Circle
↳ Form (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form>)
(ASE_Assignment_Form1.html)
Form1

Implements

(ASE_Assignment_Form1.html)
IDropTarget (<https://learn.microsoft.com/dotnet/api/system.windows.forms.idroptarget>)
MoveTo
ISynchronizeInvoke (<https://learn.microsoft.com/dotnet/api/system.componentmodel.isynchronizeinvoke>)
(ASE_Assignment_MoveTo.html)
IWin32Window (<https://learn.microsoft.com/dotnet/api/system.windows.forms.iwin32window>)
PenColour
IBindableComponent (<https://learn.microsoft.com/dotnet/api/system.windows.forms.ibindablecomponent>)
(ASE_Assignment_PenColour.html)
IComponent (<https://learn.microsoft.com/dotnet/api/system.componentmodel.icomponent>)
Rect (ASE_Assignment_Rect.html)
IDisposable (<https://learn.microsoft.com/dotnet/api/system.idisposable>)
IContainerControl (<https://learn.microsoft.com/dotnet/api/system.windows.forms.iconcontainercontrol>)

ASE AssignmentTests

(ASE_AssignmentTests.html)

Form.SetVisibleCore(bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.setvisiblecore>)
Form.Activate() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.activate>)
Form.ActivateMdiChild(Form)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.activatemdichild>)
Form.AddOwnedForm(Form) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.addownedform>)
Form.AdjustFormScrollbars(bool)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.adjustformscrollbars>)
Form.Close() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.close>)
Form.CreateAccessibilityInstance()
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.createaccessibilityinstance>)
Form.CreateControlsInstance()
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.createcontrolsinstance>)
Form.CreateHandle() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.createhandle>)
Form.DefWndProc(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.defwndproc>)
Form.ProcessMnemonic(char)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.processmnemonic>)
Form.CenterToParent() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.centertoparent>)
Form.CenterToScreen() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.centertoscreen>)
Form.LayoutMdi(MdiLayout) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.layoutmdi>)
Form.OnActivated(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onactivated>)
Form.OnBackgroundImageChanged(EventArgs)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onbackgroundimagechanged>)

Form.OnBackgroundImageLayoutChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onbackgroundimagelayoutchanged>)

Form.OnClosing(CancelEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onclosing>)

Form.OnClosed(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onclosed>)

Form.OnFormClosing(FormClosingEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onformclosing>)

Form.OnFormClosed(FormClosedEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onformclosed>)

Form.OnHandleCreated(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onhandlecreated>)

Form.OnHandleDestroyed(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onhandledestroyed>)

Form.OnHelpButtonClicked(CancelEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onhelpbuttonclicked>)

Form.OnLayout(LayoutEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onlayout>)

Form.OnLoad(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onload>)

Form.OnMaximizedBoundsChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onmaximizedboundschanged>)

Form.OnMaximumSizeChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onmaximumsizechanged>)

Form.OnMinimumSizeChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onminimumsizechanged>)

Form.OnInputLanguageChanged(InputLanguageChangedEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.oninputlanguagechanged>)

Form.OnInputLanguageChanging(InputLanguageChangingEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.oninputlanguagechanging>)

Form.OnVisibleChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onvisiblechanged>)

Form.OnMdiChildActivate(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onmdichildactivate>)

Form.OnMenuStart(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onmenustart>)

Form.OnMenuComplete(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onmenucomplete>)

Form.OnPaint(PaintEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onpaint>)

Form.OnResize(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onresize>)

Form.OnDpiChanged(DpiChangedEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.ondpichanged>)

Form.OnGetDpiScaledSize(int, int, ref Size) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.ongetdpiscaledsize>)

Form.OnRightToLeftLayoutChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onrighttoleftlayoutchanged>)

Form.OnShown(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onshown>)

Form.OnTextChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.ontextchanged>)

Form.ProcessCmdKey(ref Message, Keys) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.processcmdkey>)

Form.ProcessDialogKey(Keys) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.processdialogkey>)

Form.ProcessDialogChar(char) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.processdialogchar>)

ASE Assignment (ASE Assignment.html)

Form.ProcessKeyPreview(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.processkeypreview>)

AppCanvas

Form.ProcessTabKey(bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.processtabkey>)

(ASE Assignment.AppCanvas.html)

Form.RemoveOwnedForm(Form) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.removeownedform>)

AppCommandFactory

Form.Select(bool, bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.select>)

(ASE Assignment.AppCommandFactory.html)

Circle

Form.ScaleMinMaxSize(float, float, bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.scaleminmaxsize>)

(ASE Assignment.Circle.html)

Form1

Form.GetScaledBounds(Rectangle, SizeF, BoundsSpecified) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.getscaledbounds>)

(ASE Assignment.Form1.html)

MoveTo

Form.ScaleControl(SizeF, BoundsSpecified) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.scalecontrol>)

(ASE Assignment.MoveTo.html)

PenColour

Form.SetBoundsCore(int, int, int, int, BoundsSpecified) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.setboundscore>)

(ASE Assignment.PenColour.html)

Rect (ASE Assignment.Rect.html)

Form.SetClientSizeCore(int, int) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.setclientsizecore>)

ASE Assignment Tests (ASE AssignmentTests.html)

Form.SetDesktopBounds(int, int, int, int) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.setdesktopbounds>)

Form.SetDesktopLocation(int, int) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.setdesktoplocation>)

Form.ShowDialog(IWin32Window) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.show>)

Form.ShowDialog() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.showdialog#system-windows-forms-form-showdialog>)

Form.ShowDialog(IWin32Window) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.form.showdialog#system-windows-forms-form-showdialog\(system-windows-forms-iwin32window\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.form.showdialog#system-windows-forms-form-showdialog(system-windows-forms-iwin32window)))

Form.ToString() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.tostring>)

Form.UpdateDefaultButton() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.updatedefaultbutton>)

Form.OnResizeBegin(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onresizebegin>)

Form.OnResizeEnd(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onresizeend>)

Form.OnStyleChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.onstylechanged>)

Form.ValidateChildren() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.validatechildren#system-windows-forms-form-validatechildren>)

Form.ValidateChildren(ValidationConstraints) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.form.validatechildren#system-windows-forms-form-validatechildren\(system-windows-forms-validationconstraints\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.form.validatechildren#system-windows-forms-form-validatechildren(system-windows-forms-validationconstraints)))

Form.WndProc(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.wndproc>)

Form.AcceptButton (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.acceptbutton>)

Form.ActiveForm (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.activeform>)

Form.ActiveMdiChild (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.activemdichild>)

Form.AllowTransparency (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.allowtransparency>)

Form.AutoScroll (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.autoscroll>)

Form.AutoSize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.autosize>)

Form.AutoSizeMode (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.autosizemode>)

Form.AutoValidate (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.autovalidate>)

Form.BackColor (ASE Assignment) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.backcolor>)

Form.FormBorderStyle (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.formborderstyle>)

Form.CancelButton (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.cancelbutton>)

Form.ClientSize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.clientsize>)

Form.ControlBox (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.controlbox>)

Form.CreateParams (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.createparams>)

Form.DefaultImeMode (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.defaultimeMode>)

Form.DefaultSize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.defaultsize>)

Form.DesktopBounds (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.desktopbounds>)

Form.DesktopLocation (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.desktoplocation>)

Form.DialogResult (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.dialogresult>)

Form.HelpButton (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.helpbutton>)

Form.Icon (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.icon>)

Form.IsMdiChild (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.ismdichild>)

Form.IsMdiContainer (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.ismdicontainer>)

Form.IsRestrictedWindow (ASE Assignment Tests) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.isrestrictedwindow>)

Form.KeyPreview (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.keypreview>)

Form.Location (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.location>)

Form.MaximizedBounds (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.maximizedbounds>)

Form.MaximumSize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.maximumsize>)

Form.MainMenuStrip (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.mainmenustrip>)

Form.MinimumSize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.minimumsize>)

Form.MaximizeBox (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.maximizeBox>)

Form.MdiChildren (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.mdichildren>)

Form.MdiChildrenMinimizedAnchorBottom (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.mdichildrenminimizedanchorbottom>)

Form.MdiParent (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.mdiparent>)

Form.MinimizeBox (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.minimizeBox>)

Form.Modal (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.modal>)

Form.Opacity (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.opacity>)

Form.OwnedForms (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.ownedforms>)

Form.Owner (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.owner>)

Form.RestoreBounds (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.restorebounds>)

Form.RightToLeftLayout (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.righttoleftlayout>)

Form.ShowInTaskbar (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.showintaskbar>)

Form.ShowIcon (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.showicon>)

Form.ShowWithoutActivation (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.showwithoutactivation>)

Form.Size (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.size>)

Form.SizeGripStyle (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.sizegripstyle>)

Form.StartPosition (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.startposition>)

Form.Text (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.text>)

Form.TopLevel (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.toplevel>)

Form.TopMost (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.topmost>)

Form.TransparencyKey (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.transparencykey>)

Form.WindowState (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.windowstate>)

Form.AutoSizeChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.autosizechanged>)

Form.AutoValidateChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.autovalidatechanged>)

Form.HelpButtonClicked (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.helpbuttonclicked>)

Form.MaximizedBoundsChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.maximizedboundschanged>)

Form.MaximumSizeChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.maximumsizechanged>)

Form.MinimumSizeChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.minimumsizechanged>)

Form.Activated (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.activated>)

Form.Deactivate (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.deactivate>)

Form.FormClosing (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.formclosing>)

Form.FormClosed (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.formclosed>)

Form.Load (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.load>)

Form.MdiChildActivate (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.mdichildactivate>)

Form.MenuComplete (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.menucomplete>)

Form.MenuStart (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.menustart>)

Form.InputLanguageChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.inputlanguagechanged>)

Form.InputLanguageChanging (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.inputlanguagechanging>)

Form.RightToLeftLayoutChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.righttoleftlayoutchanged>)

Form.Shown (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.shown>)

Form.DpiChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.dpchanged>)

Form.ResizeBegin (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.resizebegin>)

Form.ResizeEnd (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.resizeend>)

ContainerControl.OnAutoValidateChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.onautovalidatechanged>)

ContainerControl.OnMove(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.onmove>)

ContainerControl.OnParentChanged(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.onparentchanged>)

ContainerControl.PerformAutoScale() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.performautoscale>)

ContainerControl.RescaleConstantsForDpi(int, int) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.rescaleconstantsfordpi>)

ContainerControl.Validate() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.validate#system-windows-forms-containercontrol-validate>)

ContainerControl.Validate(bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.validate#system-windows-forms-containercontrol-validate>)

containercontrol.validate(system-boolean))

ContainerControl.AutoScaleDimensions

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.autoscaledimensions>)

ContainerControl.AutoScaleFactor

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.autoscalefactor>)

ContainerControl.AutoScaleMode

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.autoscalemode>)

ContainerControl.BindingContext

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.bindingcontext>)

ContainerControl.CanEnableIme

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.canenableime>)

AppCanvas

ContainerControl.ActiveControl

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.activecontrol>)

ContainerControl.CurrentAutoScaleDimensions

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.currentautoscaledimensions>)

ContainerControl.ParentForm

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol.parentform>)

ScrollableControl.ScrollStateAutoScrolling

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrollstateautoscrolling>)

ScrollableControl.ScrollStateHScrollVisible

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrollstatehscrollvisible>)

ScrollableControl.ScrollStateVScrollVisible

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrollstatevscrollvisible>)

ScrollableControl.ScrollStateUserHasScrolled

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrollstateuserhasscrolled>)

ScrollableControl.ScrollStateFullDrag

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrollstatefulldrag>)

ScrollableControl.GetScrollState(int)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.getscrollstate>)

ScrollableControl.OnMouseWheel(MouseEventArgs)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.onmousewheel>)

ScrollableControl.OnRightToLeftChanged(EventArgs)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.onrighttoleftchanged>)

ScrollableControl.OnPaintBackground(PaintEventArgs)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.onpaintbackground>)

ScrollableControl.OnPaddingChanged(EventArgs)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.onpaddingchanged>)

ScrollableControl.SetDisplayRectLocation(int, int)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.setdisplayrectlocation>)

ScrollableControl.ScrollControlIntoView(Control)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrollcontrolintoview>)

ScrollableControl.ScrollToControl(Control)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scrolltocontrol>)

ScrollableControl.OnScroll(ScrollEventArgs)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.onscroll>)

ScrollableControl.SetAutoScrollMargin(int, int)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.setautoscrollmargin>)

ScrollableControl.SetScrollState(int, bool)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.setscrollstate>)

ScrollableControl.AutoScrollMargin

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.autoscrollmargin>)

ScrollableControl.AutoScrollPosition

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.autoscrollposition>)

ScrollableControl.AutoScrollMinSize

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.autoscrollminsize>)

ScrollableControl.DisplayRectangle

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.displayrectangle>)

ScrollableControl.HScroll (<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.hscroll>)

ScrollableControl.HorizontalScroll

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.horizontalscroll>)

ScrollableControl.VScroll

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.vscroll>)

ScrollableControl.VerticalScroll

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.verticalscroll>)

ScrollableControl.Scroll

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.scrollablecontrol.scroll>)

Control.GetAccessibilityObjectById(int)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getaccessibilityobjectbyid>)

Control.SetAutoSizeMode(AutoSizeMode)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.setautosizemode>)

Control.GetAutoSizeMode()

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getautosizemode>)

Control.GetPreferredSize(Size)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getpreferredsize>)

Control.AccessibilityNotifyClients(AccessibleEvents, int)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibilitynotifyclients#system-windows-forms-control-accessibilitynotifyclients\(system-windows-forms-accessibleevents-system-int32\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibilitynotifyclients#system-windows-forms-control-accessibilitynotifyclients(system-windows-forms-accessibleevents-system-int32)))

Control.AccessibilityNotifyClients(AccessibleEvents, int, int)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibilitynotifyclients#system-windows-forms-control-accessibilitynotifyclients\(system-windows-forms-accessibleevents-system-int32-system-int32\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibilitynotifyclients#system-windows-forms-control-accessibilitynotifyclients(system-windows-forms-accessibleevents-system-int32-system-int32)))

Control.BeginInvoke(Delegate)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.begininvoke#system-windows-forms-control-begininvoke\(system-delegate\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.begininvoke#system-windows-forms-control-begininvoke(system-delegate)))

Control.BeginInvoke(Action)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.begininvoke#system-windows-forms-control-begininvoke\(system-action\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.begininvoke#system-windows-forms-control-begininvoke(system-action)))

Control.BeginInvoke(Delegate, params object[])

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.begininvoke#system-windows-forms-control-begininvoke\(system-delegate-system-object\[\]\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.begininvoke#system-windows-forms-control-begininvoke(system-delegate-system-object[])))

Control.BringToFront() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.bringtofront>)

Control.Contains(Control) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.contains>)

Control.CreateGraphics() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.creategraphics>)

Control.CreateControl() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.createcontrol>)

Control.DestroyHandle() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.destroyhandle>)

Control.DoDragDrop(object, DragDropEffects)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop\(system-object-system-windows-forms-dragdropeffects\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop(system-object-system-windows-forms-dragdropeffects)))

Control.DoDragDrop(object, DragDropEffects, Bitmap, Point, bool)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop\(system-object-system-windows-forms-dragdropeffects-bitmap-point-bool\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop(system-object-system-windows-forms-dragdropeffects-bitmap-point-bool)))

Control.DoDragDrop(object, DragDropEffects, Bitmap, Point, bool)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop\(system-object-system-windows-forms-dragdropeffects-bitmap-point-bool\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop(system-object-system-windows-forms-dragdropeffects-bitmap-point-bool)))

Control.DoDragDrop(object, DragDropEffects, Bitmap, Point, bool)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop\(system-object-system-windows-forms-dragdropeffects-bitmap-point-bool\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dodragdrop#system-windows-forms-control-dodragdrop(system-object-system-windows-forms-dragdropeffects-bitmap-point-bool)))

control-dodragdrop(system-object-system-windows-forms-dragdropeffects-system-drawing-bitmap-system-drawing-point-system-boolean))

Control.DrawToBitmap(Bitmap, Rectangle)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.drawtobitmap>)

Control.EndInvoke(IAsyncResult)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.endinvoke>)

Control.FindForm() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.findform>)

Control.GetTopLevel() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.gettoplevel>)

Control.RaiseKeyEvent(object, KeyEventArgs)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.raisekeyevent>)

Control.RaiseMouseEvent(object, MouseEventArgs)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.raisemouseevent>)

Control.Focus() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.focus>)

Control.FromChildHandle(IntPtr)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.fromchildhandle>)

Control.FromHandle(IntPtr) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.fromhandle>)

Control.GetChildAtPoint(Point, GetChildAtPointSkip)
([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getchildatpoint#system-windows-forms-control-getchildatpoint\(system-drawing-point-system-windows-forms-getchildatpointskip\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getchildatpoint#system-windows-forms-control-getchildatpoint(system-drawing-point-system-windows-forms-getchildatpointskip)))

Control.GetChildAtPoint(Point)
([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getchildatpoint#system-windows-forms-control-getchildatpoint\(system-drawing-point\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getchildatpoint#system-windows-forms-control-getchildatpoint(system-drawing-point)))

Control.GetContainerControl()
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getcontainercontrol>)

Control.GetNextControl() (Control, bool)
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getnextcontrol>)

Control.GetStyle(ControlStyles) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.getstyle>)

Control.Hide() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.hide>)

Control.InitLayout() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.initlayout>)

Control.Invalidate(Region)
([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate\(system-drawing-region\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate(system-drawing-region)))

Control.Invalidate(Region, bool)
([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate\(system-drawing-region-system-boolean\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate(system-drawing-region-system-boolean)))

Control.Invalidate() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate>)

Control.Invalidate(bool) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate\(system-boolean\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate(system-boolean)))

Control.Invalidate(Rectangle)
([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate\(system-drawing-rectangle\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate(system-drawing-rectangle)))

Control.Invalidate(Rectangle, bool)
([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate\(system-drawing-rectangle-system-boolean\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidate#system-windows-forms-control-invalidate(system-drawing-rectangle-system-boolean)))

Control.Invoke(Action) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke\(system-action\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke(system-action)))

Control.Invoke(Delegate) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke\(system-delegate\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke(system-delegate)))

Control.Invoke(Delegate, params object[])
[https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke\(system-delegate-system-object\(\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke(system-delegate-system-object())))

Control.Invoke<T>(Func<T>)
[https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke-1\(system-func\(\(-0\)\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invoke#system-windows-forms-control-invoke-1(system-func((-0)))))

Control.InvokePaint(Control, PaintEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invokepaint>)

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<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invokepaintbackground>)
(ASE_Assignment.html)

Control.IsKeyLocked(Keys) <https://learn.microsoft.com/dotnet/api/system.windows.forms.control.iskeylocked>)

AppCanvas
Control.IsInputChar(char) <https://learn.microsoft.com/dotnet/api/system.windows.forms.control.isinputchar>)
(ASE_Assignment.AppCanvas.html)

Control.IsInputKey(Keys) <https://learn.microsoft.com/dotnet/api/system.windows.forms.control.isinputkey>)

AppCommandFactory
Control.IsMnemonic(char, string)
(ASE_Assignment.AppCommandFac
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ismnemonic>)

Circle
Control.LogicalToDeviceUnits(int)
(ASE_Assignment.Circle.html)
[https://learn.microsoft.com/dotnet/api/system.windows.forms.control.logicaltodeviceunits#system-windows-forms-control-logicaltodeviceunits\(system-int32\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.logicaltodeviceunits#system-windows-forms-control-logicaltodeviceunits(system-int32)))

Form1
Control.LogicalToDeviceUnits(Size)
(ASE_Assignment.Form1.html)

MoveTo
[https://learn.microsoft.com/dotnet/api/system.windows.forms.control.logicaltodeviceunits#system-windows-forms-control-logicaltodeviceunits\(system-drawing-size\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.logicaltodeviceunits#system-windows-forms-control-logicaltodeviceunits(system-drawing-size)))

PenColour
Control.ScaleBitmapLogicalToDevice(ref Bitmap)
(ASE_Assignment.PenColour.html)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.scalebitmaplogicaltodevice>)

Rect **(ASE_Assignment.Rect.html)**
Control.NotifyInvalidade(Rectangle)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.notifyinvalidate>)

ASE_AssignmentTests
(ASE_AssignmentTests.html)
Control.InvokeOnClick(Control, EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invokeonclick>)

Control.OnAutoSizeChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onautosizechanged>)

Control.OnBackColorChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onbackcolorchanged>)

Control.OnBindingContextChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onbindingcontextchanged>)

Control.OnCausesValidationChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.oncausesvalidationchanged>)

Control.OnContextMenuStripChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.oncontextmenustripchanged>)

Control.OnCursorChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onsursorchanged>)

Control.OnDataContextChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondatacontextchanged>)

Control.OnDockChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondockchanged>)

Control.OnForeColorChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onforecolorchanged>)

Control.OnNotifyMessage(Message)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onnotifymessage>)

Control.OnParentBackColorChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentbackcolorchanged>)

Control.OnParentBackgroundImageChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentbackgroundimagechanged>)

Control.OnParentBindingContextChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentbindingcontextchanged>)

Control.OnParentCursorChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentcursorchanged>)

Control.OnParentDataContextChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentdatacontextchanged>)

Control.OnParentEnabledChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentenabledchanged>)

Control.OnParentFontChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentfontchanged>)

Control.OnParentForeColorChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentforecolorchanged>)

Control.OnParentRightToLeftChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentrighttoleftchanged>)

Control.OnParentVisibleChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onparentvisiblechanged>)

Control.OnPrint(PaintEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onprint>)

Control.OnTabIndexChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ontabindexchanged>)

Control.OnTabStopChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ontabstopchanged>)

Control.OnClick(EventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onclick>)

Control.OnClientSizeChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onclientsizechanged>)

Control.OnControlAdded(ControlEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.oncontroladded>)

Control.OnControlRemoved(ControlEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.oncontrolremoved>)

Control.OnLocationChanged(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onlocationchanged>)

Control.OnDoubleClick(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondoubleclick>)

Control.OnDragEnter(DragEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondragenter>)

Control.OnDragOver(DragEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondragover>)

Control.OnDragLeave(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondragleave>)

Control.OnDragDrop(DragEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondragdrop>)

Control.OnGiveFeedback(GiveFeedbackEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ongivefeedback>)

Control.InvokeGotFocus(Control, EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invokegotfocus>)

Control.OnHelpRequested(HelpEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onhelprequested>)

Control.OnInvalidated(InvalidateEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.oninvalidated>

Control.OnKeyDown(KeyEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onkeydown>

Control.OnKeyPress(KeyPressEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onkeypress>

Control.OnKeyUp(KeyEventArgs) <https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onkeyup>

Control.OnLeave(EventEventArgs) <https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onleave>

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Control.OnLostFocus(Control, EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invokelostfocus>

Control.OnLostFocus(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onlostfocus>

AppCanvas
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Control.OnMarginChanged(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmarginchanged>

AppCommandFactory
(ASE_Assignment.AppCommandFactory.html)
Control.OnMouseDoubleClick(MouseEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmousedoubleclick>

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(ASE_Assignment.Circle.html)
Control.OnMouseClicked(MouseEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmouseclick>

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Control.OnMouseCaptureChanged(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmousecapturechanged>

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Control.OnMouseDown(MouseEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmousedown>

PenColour
(ASE_Assignment.PenColour.html)
Control.OnMouseEnter(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmouseenter>

Rect **(ASE_Assignment.Rect.html)**
Control.OnMouseLeave(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmouseleave>

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Control.OnDpiChangedBeforeParent(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondpichangedbeforeparent>

Control.OnDpiChangedAfterParent(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ondpichangedafterparent>

Control.OnMouseHover(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmouseover>

Control.OnMouseMove(MouseEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmousemove>

Control.OnMouseUp(MouseEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onmouseup>

Control.OnQueryContinueDrag(QueryContinueDragEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onquerycontinuedrag>

Control.OnRegionChanged(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onregionchanged>

Control.OnPreviewKeyDown(PreviewKeyDownEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onpreviewkeydown>

Control.OnSizeChanged(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onsizechanged>

Control.OnChangeUICues(UICuesEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onchangeuicues>

Control.OnSystemColorsChanged(EventEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onsystemcolorschanged>

Control.OnValidating(CancelEventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onvalidating>)

Control.OnValidated(EventArgs)
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onvalidated>)

Control.PerformLayout()
<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.performlayout#system-windows-forms-control-performlayout>)

Control.PerformLayout(Control, string)
[https://learn.microsoft.com/dotnet/api/system.windows.forms.control.performlayout#system-windows-forms-control-performlayout\(system-windows-forms-control-system-string\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.performlayout#system-windows-forms-control-performlayout(system-windows-forms-control-system-string)))

Control.PointToClient(Point) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.pointtoclient>)

Control.PointToScreen(Point) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.pointtoscreen>)

Control.PreProcessMessage(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.preprocessmessage>)

Control.PreProcessControlMessage(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.preprocesscontrolmessage>)

Control.ProcessKeyEventArgs(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.processkeyeventargs>)

Control.ProcessKeyMessage(ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.processkeymessage>)

Control.RaiseDragEvent(object, DragEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.raisedragevent>)

Control.RaisePaintEvent(object, PaintEventArgs) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.raisepaintevent>)

Control.RecreateHandle() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.recreatehandle>)

Control.RectangleToClient(Rectangle) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rectangletoclient>)

Control.RectangleToScreen(Rectangle) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rectangletoscreen>)

Control.ReflectMessage(nint, ref Message) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.reflectmessage>)

Control.Refresh() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.refresh>)

Control.ResetMouseEventArgs() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resetmouseeventargs>)

Control.ResetText() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resettext>)

Control.ResumeLayout() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resumelayout#system-windows-forms-control-resumelayout>)

Control.ResumeLayout(bool) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resumelayout#system-windows-forms-control-resumelayout\(system-boolean\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resumelayout#system-windows-forms-control-resumelayout(system-boolean)))

Control.Scale(SizeF) ([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.scale#system-windows-forms-control-scale\(system-drawing-sizef\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.scale#system-windows-forms-control-scale(system-drawing-sizef)))

Control.Select() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.select#system-windows-forms-control-select>)

Control.SelectNextControl(Control, bool, bool, bool, bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.selectnextcontrol>)

Control.SendToBack() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.sendtoback>)

Control.SetBounds(int, int, int, int)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.setbounds#system-windows-forms-control-setbounds\(system-int32-system-int32-system-int32-system-int32\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.setbounds#system-windows-forms-control-setbounds(system-int32-system-int32-system-int32-system-int32))))

Control.SetBounds(int, int, int, int, BoundsSpecified)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.setbounds#system-windows-forms-control-setbounds\(system-int32-system-int32-system-int32-system-int32-system-windows-forms-boundsspecified\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.setbounds#system-windows-forms-control-setbounds(system-int32-system-int32-system-int32-system-int32-system-windows-forms-boundsspecified))))

Control.SizeFromClientSize(Size)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.sizefromclientsize>)

Control.SetStyle(ControlStyles bool)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.setstyle>)

Control.SetTopLevel(bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.settoplevel>)

Control.RtlTranslateAlignment(HorizontalAlignment)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatealignment#system-windows-forms-control-rtltranslatealignment\(system-windows-forms-horizontalalignment\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatealignment#system-windows-forms-control-rtltranslatealignment(system-windows-forms-horizontalalignment))))

Control.RtlTranslateAlignment(LeftRightAlignment)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatealignment#system-windows-forms-control-rtltranslatealignment\(system-windows-forms-leftrightalignment\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatealignment#system-windows-forms-control-rtltranslatealignment(system-windows-forms-leftrightalignment))))

Control.RtlTranslateAlignment(ContentAlignment)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatealignment#system-windows-forms-control-rtltranslatealignment\(system-drawing-contentalignment\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatealignment#system-windows-forms-control-rtltranslatealignment(system-drawing-contentalignment))))

Control.RtlTranslateHorizontal(HorizontalAlignment)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatehorizontal>)

Control.RtlTranslateLeftRight(LeftRightAlignment)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslateleftright>)

Control.RtlTranslateContent(ContentAlignment)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.rtltranslatecontent>)

Control.Show() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.show>)

Control.SuspendLayout() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.suspendlayout>)

Control.Update() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.update>)

Control.UpdateBounds()

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatebounds#system-windows-forms-control-updatebounds>)

Control.UpdateBounds(int, int, int, int)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatebounds#system-windows-forms-control-updatebounds\(system-int32-system-int32-system-int32-system-int32\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatebounds#system-windows-forms-control-updatebounds(system-int32-system-int32-system-int32-system-int32))))

Control.UpdateBounds(int, int, int, int, int, int)

([https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatebounds#system-windows-forms-control-updatebounds\(system-int32-system-int32-system-int32-system-int32-system-int32-system-int32\)\)](https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatebounds#system-windows-forms-control-updatebounds(system-int32-system-int32-system-int32-system-int32-system-int32-system-int32))))

Control.UpdateZOrder() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatezorder>)

Control.UpdateStyles() (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.updatestyles>)

Control.OnImeModeChanged(EventArgs)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.onimemodechanged>)

Control.AccessibilityObject

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibilityobject>)

Control.AccessibleDefaultActionDescription

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibledefaultactiondescription>)

Control.AccessibleDescription

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessibledescription>)

Control.AccessibleName (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessiblename>)

Control.AccessibleRole (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.accessiblerole>)

Control.AllowDrop (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.allowdrop>)

Control.Anchor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.anchor>)

Control.AutoScrollOffset (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.autoscrolloffset>)

Control.LayoutEngine (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.layoutengine>)

Control.DataContext (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.datacontext>)

Control.BackgroundImage (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.backgroundimage>)

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Control.BackgroundImageLayout (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.backgroundimagelayout>)

AppCanvas
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Control.Bottom (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.bottom>)

Control.Bounds (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.bounds>)

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Control.CanFocus (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.canfocus>)

Control.CanRaiseEvents (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.canraiseevents>)

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Control.CanSelect (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.canselect>)

Control.Capture (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.capture>)

Form1
([ASE Assignment.Form1.html](#))

Control.CausesValidation (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.causesvalidation>)

Control.CheckForIllegalCrossThreadCalls
([ASE Assignment.MoveTo.html](#))

Control.ClientRectangle (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.clientrectangle>)

PenColour
([ASE Assignment.PenColour.html](#))

Control.CompanyName (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.companyname>)

Control.ContainsFocus (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.containsfocus>)

Rect ([ASE Assignment.Rect.html](#))

Control.ContextMenuStrip (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.contextmenustrip>)

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Control.Controls (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.controls>)

Control.Created (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.created>)

Control.Cursor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.cursor>)

Control.DataBindings (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.databindings>)

Control.DefaultBackColor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultbackcolor>)

Control.DefaultCursor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultcursor>)

Control.DefaultFont (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultfont>)

Control.DefaultForeColor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultforecolor>)

Control.DefaultMargin (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultmargin>)

Control.DefaultMaximumSize
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultmaximumsize>)

Control.DefaultMinimumSize
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultminimumsize>)

Control.DefaultPadding (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.defaultpadding>)

Control.DeviceDpi (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.devicedpi>)

Control.IsDisposed (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.isdisposed>)

Control.Disposing (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.disposing>)

Control.Dock (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dock>)

Control.DoubleBuffered (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.doublebuffered>)

Control.Enabled (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.enabled>)

Control.Focused (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.focused>)

Control.Font (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.font>)

Control.FontHeight (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.fontheight>)

Control.ForeColor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.forecolor>)

Control.Handle (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.handle>)

Control.HasChildren (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.haschildren>)

Control.Height (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.height>)

Control.IsHandleCreated (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ishandlecreated>)

Control.InvokeRequired (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invokerequired>)

Control.IsAccessible (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.isaccessible>)

Control.IsAncestorSiteInDesignMode
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.isancestorsiteindesignmode>)

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(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.ismirrored>)

Control.Left (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.left>)

Control.Margin (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.margin>)

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Control.ModifierKeys (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.modifierkeys>)

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Control.MouseButtons (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousebuttons>)

AppCommandFactory
Control.MousePosition (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseposition>)

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Control.Name (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.name>)

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Control.Parent (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.parent>)

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Control.ProductName (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.productname>)

Form1
Control.ProductVersion (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.productversion>)

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Control.RecreatingHandle
MoveTo
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.recreatinghandle>)

(ASE Assignment MoveTo.html)
Control.Region (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.region>)

PenColour
Control.RenderRightToLeft
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.renderrighttopleft>)

Rect (ASE Assignment Rect.html)
Control.ResizeRedraw (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resizedraw>)

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(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.right>)

Control.RightToLeft (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.righttopleft>)

(ASE Assignment Tests.html)
Control.ScaleChildren (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.scalechildren>)

Control.Site (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.site>)

Control.TabIndex (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.tabindex>)

Control.TabStop (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.tabstop>)

Control.Tag (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.tag>)

Control.Top (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.top>)

Control.TopLevelControl (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.toplevelcontrol>)

Control.ShowKeyboardCues
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.showkeyboardcues>)

Control.ShowFocusCues (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.showfocuscues>)

Control.UseWaitCursor (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.usewaitcursor>)

Control.Visible (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.visible>)

Control.Width (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.width>)

Control.PreferredSize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.preferredsize>)

Control.Padding (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.padding>)

Control.ImeMode (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.imebase>)

Control.ImeModeBase (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.imemodebase>)

Control.PropagatingImeMode
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.propagatingimemode>)

Control.BackColorChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.backcolorchanged>)

Control.BackgroundImageChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.backgroundimagechanged>)

Control.BackgroundImageLayoutChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.backgroundimagelayoutchanged>)

Control.BindingContextChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.bindingcontextchanged>)

Control.CausesValidationChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.causesvalidationchanged>)

Control.ClientSizeChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.clientsizechanged>)

Control.ContextMenuStripChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.contextmenustripchanged>)

Control.CursorChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.cursorchanged>)

Control.DockChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dockchanged>)

Control.EnabledChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.enabledchanged>)

Control.FontChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.fontchanged>)

Control.ForeColorChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.forecolorchanged>)

Control.LocationChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.locationchanged>)

Control.MarginChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.marginchanged>)

Control.RegionChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.regionchanged>)

Control.RightToLeftChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.righttoleftchanged>)

Control.SizeChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.sizechanged>)

Control.TabIndexChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.tabindexchanged>)

Control.TabStopChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.tabstopchanged>)

Control.TextChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.textchanged>)

Control.VisibleChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.visiblechanged>)

Control.Click (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.click>)

Control.ControlAdded (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.controladded>)

Control.ControlRemoved (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.controlremoved>)

Control.DataContextChanged
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.datacontextchanged>)

Control.DragDrop (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dragdrop>)

Control.DragEnter (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dragenter>)

Control.DragOver (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dragover>)

Control.DragLeave (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dragleave>)

Control.GiveFeedback (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.givefeedback>)

Control.HandleCreated (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.handlecreated>)

Control.HandleDestroyed (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.handledestroyed>)

Control.HelpRequested (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.helprequested>)

Control.Invalidated (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.invalidated>)

Control.PaddingChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.paddingchanged>)

Control.Paint (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.paint>)

Control.QueryContinueDrag
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.querycontinuedrag>)

Control.QueryAccessibilityHelp
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.queryaccessibilityhelp>)

Control.DoubleClick (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.doubleclick>)

Control.Enter (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.enter>)

Control.GotFocus (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.gotfocus>)

Control.KeyDown (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.keydown>)

Control.KeyPress (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.keypress>)

Control.KeyUp (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.keyup>)

Control.Layout (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.layout>)

Control.Leave (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.leave>)

Control.LostFocus (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.lostfocus>)

Control.MouseClick (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseclick>)

Control.MouseDown (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousedown>)

ASE Assignment
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousedown>)

Control.MouseDoubleClick (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousedoubleclick>)

Control.MouseCaptureChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousecapturechanged>)

AppCanvas (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousecapturechanged>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousecapturechanged>)

Control.MouseDown (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousedown>)

AppCommandFactory (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousedown>)

Control.MouseEnter (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseenter>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseenter>)

Control.MouseLeave (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseleave>)

Circle (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseleave>)

Control.DpiChangedBeforeParent (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dpichangedbeforeparent>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dpichangedbeforeparent>)

Form1 (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dpichangedbeforeparent>)

Control.DpiChangedAfterParent (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dpichangedafterparent>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dpichangedafterparent>)

MoveTo (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.dpichangedafterparent>)

Control.MouseHover (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousehover>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousehover>)

Control.MouseMove (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousemove>)

PenColour (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousemove>)

Control.MouseUp (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseup>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mouseup>)

Control.MouseWheel (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousewheel>)

Rect (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.mousewheel>)

Control.Move (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.move>)

Control.PreviewKeyDown (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.previewkeydown>)

ASE Assignment Tests
(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.previewkeydown>)

Control.Resize (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.resize>)

Control.ChangeUICues (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.changeuicues>)

Control.StyleChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.stylechanged>)

Control.SystemColorsChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.systemcolorschanged>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.systemcolorschanged>)

Control.Validating (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.validating>)

Control.Validated (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.validated>)

Control.ParentChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.parentchanged>)

Control.ImeModeChanged (<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.imemodechanged>)

(<https://learn.microsoft.com/dotnet/api/system.windows.forms.control.imemodechanged>)

Component.Dispose() (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.dispose#system-componentmodel-component-dispose>)

(<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.dispose#system-componentmodel-component-dispose>)

Component.GetService(Type) (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.getservice>)

(<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.getservice>)

Component.Container (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.container>)

Component.DesignMode (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.designmode>)

(<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.designmode>)

Component.Events (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.events>)

Component.Disposed (<https://learn.microsoft.com/dotnet/api/system.componentmodel.component.disposed>)

MarshalByRefObject.GetLifetimeService() (<https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject.getlifetimeservice>)

(<https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject.getlifetimeservice>)

MarshalByRefObject.InitializeLifetimeService() (<https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject.initializelifetimeservice>)

(<https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject.initializelifetimeservice>)

MarshalByRefObject.MemberwiseClone(bool)

(<https://learn.microsoft.com/dotnet/api/system.marshalbyrefobject.memberwiseclone>)

object.Equals(object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object\)](https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object)))

object.Equals(object, object) ([https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals\(system-object-system-object\)](https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object)))

object.GetHashCode() (<https://learn.microsoft.com/dotnet/api/system.object.gethashcode>)

object.GetType() (<https://learn.microsoft.com/dotnet/api/system.object.gettype>)

object.MemberwiseClone() (<https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone>)

object.ReferenceEquals(object, object) (<https://learn.microsoft.com/dotnet/api/system.object.referenceequals>)

Namespace: ASE_Assignment (ASE_Assignment.html)

Assembly: ASE_Assignment.AppCanvas.html

Syntax

AppCanvas

Circle

public class Form1 : Form, IDropTarget, ISynchronizeInvoke, IWin32Window, IBindableComponent, IComponent, IDisposable, IContainerControl

Form1

(ASE_Assignment.Form1.html)

MoveTo

Constructors

PenColour

(ASE_Assignment.PenColour.html)

Form1()

Rect (ASE_Assignment.Rect.html)

Initializes a new instance of Form1 (ASE_Assignment.Form1.html) class. Initialises the application and sets up the canvas

Declaration

```
public Form1()
```

Methods

Dispose(bool)

Clean up any resources being used.

Declaration

```
protected override void Dispose(bool disposing)
```

Parameters

Type	Name	Description
bool (https://learn.microsoft.com/dotnet/api/system.boolean)	<i>disposing</i>	true if managed resources should be disposed; otherwise, false.

▽
Overrides

Form.Dispose(bool) (<https://learn.microsoft.com/dotnet/api/system.windows.forms.form.dispose>)

- ASE_Assignment

([ASE_Assignment.html](#))

UpdatePictureBox()

AppCanvas

Initializes a new instance of the AppCanvas class by invalidating its current state.

AppCommandFactory

Declaration

([ASE_Assignment.AppCommandFactory.html](#))

Circle

public void HidePictureBox()

Form1

([ASE_Assignment.Form1.html](#))

MoveTo

Implements

([ASE_Assignment.MoveTo.html](#))

IDropTarget (<https://learn.microsoft.com/dotnet/api/system.windows.forms.idroptarget>)

PenColor ([ASE_Assignment.PenColor.html](#))

ISynchronizeInvoke (<https://learn.microsoft.com/dotnet/api/system.componentmodel.isynchronizeinvoke>)

Rect ([ASE_Assignment.Rect.html](#))

IWin32Window (<https://learn.microsoft.com/dotnet/api/system.windows.forms.iwin32window>)

IBindableComponent (<https://learn.microsoft.com/dotnet/api/system.windows.forms.ibindablecomponent>)

IComponent (<https://learn.microsoft.com/dotnet/api/system.componentmodel.icomponent>)

([ASE_AssignmentTests.html](#))

IDisposable (<https://learn.microsoft.com/dotnet/api/system.idisposable>)

IContainerControl (<https://learn.microsoft.com/dotnet/api/system.windows.forms.containercontrol>)

Class MoveTo

Command which moves the pen to specified (x,y) coordinates.

▼ Filter by title

Inheritance

Object (https://learn.microsoft.com/dotnet/api/system.object)
(ASE_Assignment.html)

CanvasCommand
AppCanvas
(ASE_Assignment.AppCanvas.html)
CommandOneParameter
AppCommandFactory
(ASE_Assignment.AppCommandFac

Implements

Circle
(ASE_Assignment.Circle.html)

ICommand

Form1

Inherited Members

(ASE_Assignment.Form1.html)

MoveTo
CommandTwoParameters.param2

(ASE_Assignment.MoveTo.html)

CommandTwoParameters.param2Unprocessed

CommandTwoParameters.CheckParameters(string[]) (https://learn.microsoft.com/dotnet/api/system.string)

(ASE_Assignment.PenColour.html)

CommandOneParameter.param1

Rect (ASE_Assignment.Rect.html)

CommandOneParameter.param1Unprocessed

CanvasCommand.yPos

CanvasCommand.xPos

CanvasCommand.canvas

CanvasCommand.Canvas

Command.program

Command.parameterList

Command.parameters

Command.paramsint

Command.Set(StoredProgram, string) (https://learn.microsoft.com/dotnet/api/system.string)

Command.Compile()

Command.ProcessParameters(string) (https://learn.microsoft.com/dotnet/api/system.string)

Command.ToString()

Command.Program

Command.Name

Command.ParameterList

Command.Parameters

Command.Paramsint

object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))

object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))

object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)

object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)

object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

+ ASE Assignment Tests

(ASE_AssignmentTests.html)

Namespace: ASE_Assignment (ASE_Assignment.html)

Assembly: ASE_Assignment.dll

Syntax

```
public class MoveTo : CommandTwoParameters, ICommand
```



- ASE_Assignment

Methods

AppCanvas

(ASE_Assignment.AppCanvas.html)

Execute()

AppCommandFactory

(ASE_Assignment.AppCommandFactory.html)

Calls BOOSE.Command.Execute(), then moves the pen to specified (x,y) coordinates.

Circle

Declaration

(ASE_Assignment.Circle.html)

Form1

(ASE_Assignment.Form1.html)

MoveTo

(ASE_Assignment.MoveTo.html)

Overrides

PenColour

BOOSE.Command.Execute()

(ASE_Assignment.PenColour.html)

Rect (ASE_Assignment.Rect.html)

Implements

+ ASE_AssignmentTests

BOOSE.AssignmentTests.html)

See Also

CommandTwoParameters

Class PenColour

Command which sets the pen colour to draw with using RGB values.

▼ Filter by title

Inheritance

↳ **ASE Assignment**
(ASE_Assignment.html)
↳ Object (https://learn.microsoft.com/dotnet/api/system.object)

↳ CanvasCommand
AppCanvas
(ASE_Assignment.AppCanvas.html)
↳ CommandOneParameter
AppCommandFactory
(ASE_Assignment.AppCommandFactory.html)
↳ CommandTwoParameters
Circle
(ASE_Assignment.Circle.html)
↳ PenColour

Implements

ICommand
Form1
(ASE_Assignment.Form1.html)

Inherited Members

MoveTo
(ASE_Assignment.MoveTo.html)
CommandThreeParameters.param3
PenColour
CommandThreeParameters.param3unprocessed
(ASE_Assignment.PenColour.html)
CommandThreeParameters.CheckParameters(string[]) (https://learn.microsoft.com/dotnet/api/system.string)
Rect
(ASE_Assignment.Rect.html)
CommandTwoParameters.param2

CommandTwoParameters.param2unprocessed
CommandOneParameter.param1
(ASE_AssignmentTests.html)
CommandOneParameter.param1unprocessed

CanvasCommand.yPos
CanvasCommand.xPos
CanvasCommand.canvas
CanvasCommand.Canvas
Command.program
Command.parameterList
Command.parameters
Command.paramsint
Command.Set(StoredProgram, string) (https://learn.microsoft.com/dotnet/api/system.string)
Command.Compile()
Command.ProcessParameters(string) (https://learn.microsoft.com/dotnet/api/system.string)
Command.ToString()
Command.Program
Command.Name
Command.ParameterList
Command.Parameters
Command.Paramsint
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)

object.GetType() (<https://learn.microsoft.com/dotnet/api/system.object.gettype>)

object.MemberwiseClone() (<https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone>)

object.ReferenceEquals(object, object) (<https://learn.microsoft.com/dotnet/api/system.object.referenceequals>)

Namespace: ASE_Assignment (ASE_Assignment.html)

Assembly: ASE_Assignment.dll

Syntax

- ASE_Assignment
public class PenColour : CommandThreeParameters, ICommand

(ASE_Assignment.html)

AppCanvas

(ASE_Assignment.AppCanvas.html)

AppCommandFactory

(ASE_Assignment.AppCommandFactory.html)

Circle

(ASE_Assignment.Circle.html)

Execute()

Form1

Calls BOOSE.Command.Execute(), then sets the pen colour to the specified RGB values.

(ASE_Assignment.Form1.html)

Declaration

(ASE_Assignment.MoveTo.html)

PenColour

public override void Execute()
(ASE_Assignment.PenColour.html)

Rect (ASE_Assignment.Rect.html)

Overrides

+ ASE_AssignmentTests

BOOSE.Command.Execute()

(ASE_AssignmentTests.html)

Implements

BOOSE.ICommand

See Also

CommandThreeParameters

Class Rect

Command to draw a rectangle on the canvas.

▼ Filter by title

Inheritance

Object (https://learn.microsoft.com/dotnet/api/system.object)
(ASE_Assignment.html)

CanvasCommand
AppCanvas
CommandOneParameter
(ASE_Assignment.AppCanvas.html)
Rect
AppCommandFactory
(ASE_Assignment.AppCommandFactory.html)

Implements
Circle
ICommand
(ASE_Assignment.Circle.html)

Inherited Members

(ASE_Assignment.Form1.html)
CommandOneParameter.param1
MoveTo
CommandOneParameter.param1unprocessed
(ASE_Assignment.MoveTo.html)
CanvasCommand.yPos
CanvasCommand.xPos
PenColour
(ASE_Assignment.PenColour.html)
CanvasCommand.canvas
Rect (ASE_Assignment.Rect.html)
CanvasCommand.Canvas

Command.program
Command.parameterList
(ASE_AssignmentTests.html)
Command.parameters

Command.paramsint
Command.Set(StoredProgram, string) (https://learn.microsoft.com/dotnet/api/system.string)
Command.Compile()
Command.ProcessParameters(string) (https://learn.microsoft.com/dotnet/api/system.string)
Command.ToString()
Command.Program
Command.Name
Command.ParameterList
Command.Parameters
Command.Paramsint
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)

Namespace: ASE_Assignment (ASE_Assignment.html)

Assembly: ASE_Assignment.dll

Syntax

```
public class Rect : CommandOneParameter, ICommand
```

Constructors

Rect() - ASE_Assignment

Initialises a new instance of Rect (ASE_Assignment.Rect.html) with no parameters.

```
AppCanvas
(ASE_Assignment.AppCanvas.html)
AppCommandFactory
public Rect()
(ASE_Assignment.AppCommandFac
Circle
(ASE_Assignment.Circle.html)
```

Rect(int, int)

Initialises a new instance of Rect (ASE_Assignment.Rect.html) using specified width and height.

```
MoveTo
(ASE_Assignment.MoveTo.html)
Declaration
PenColour
(ASE_Assignment.PenColour.html)
public Rect(int width, int height)
Rect (ASE_Assignment.Rect.html)
```

+ ASE_AssignmentTests

Parameters (ASE_AssignmentTests.html)

Type	Name	Description
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>width</i>	Width of rectangle to be created
int (https://learn.microsoft.com/dotnet/api/system.int32)	<i>height</i>	Height of rectangle to be created

Methods

CheckParameters(string[])

Checks if the Rect command has been called with the correct amount of parameters.

Declaration

```
public override void CheckParameters(string[] parameterList)
```

Parameters

Type	Name	Description
string (https://learn.microsoft.com/dotnet/api/system.string)	<i>parameterList</i>	String array to be checked to ensure the correct number of parameters has been passed.

Overrides

ASE_Assignment
CommandOneParameter.CheckParameters(string[]) (<https://learn.microsoft.com/dotnet/api/system.string>)

([ASE_Assignment.html](#))

Exceptions

Type	Condition
AppCanvas (ASE_Assignment.AppCanvas.html)	
AppCommandException (ASE_Assignment.AppCommandFac)	Thrown if the number of parameters is not 1.

Circle

([ASE_Assignment.Circle.html](#))

Execute()

([ASE_Assignment.Form1.html](#))
Calls BOOSE.Command.Execute(), then draws a rectangle with specified width and height.

MoveTo

([ASE_Assignment.MoveTo.html](#))

PenColour

([ASE_Assignment.PenColour.html](#))

Rect ([ASE_Assignment.Rect.html](#))

ASE_AssignmentTests

([ASE_AssignmentTests.html](#))

Implements

BOOSE.ICommand

See Also

CommandOneParameter

Namespace ASE_AssignmentTests


Classes

▼ Filter by title

AppCanvasTests (ASE_AssignmentTests.AppCanvasTests.html)
+ ASE_Assignment (ASE_Assignment.html)

- ASE_AssignmentTests (ASE_AssignmentTests.html)
 - AppCanvasTests (ASE_AssignmentTests.AppCanvasT

Class AppCanvasTests

Inheritance	
 Filter by title	
↳ Object (https://learn.microsoft.com/dotnet/api/system.object)	
↳ AppCanvasTests	
ASE Assignment	
Inherited Members	
(ASE_Assignment.html)	
object.Equals(object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object))	
ASE_AssignmentTests	
(ASE_AssignmentTests.html)	
object.Equals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.equals#system-object-equals(system-object-system-object))	
object.GetHashCode() (https://learn.microsoft.com/dotnet/api/system.object.gethashcode)	
object.GetType() (https://learn.microsoft.com/dotnet/api/system.object.gettype)	
object.MemberwiseClone() (https://learn.microsoft.com/dotnet/api/system.object.memberwiseclone)	
object.ReferenceEquals(object, object) (https://learn.microsoft.com/dotnet/api/system.object.referenceequals)	
object.ToString() (https://learn.microsoft.com/dotnet/api/system.object.tostring)	
Namespace: ASE_AssignmentTests (ASE_AssignmentTests.html)	
Assembly: ASE_AssignmentTests.dll	
Syntax	
<pre>[TestClass] public class AppCanvasTests</pre>	

Methods

Setup()

Creates new canvas for testing purposes, uses specified width and height of 800px,800px.

Declaration

```
[TestInitialize]
public void Setup()
```

TestDrawTo_SetsPenPosition()

Test to ensure DrawTo command correctly sets pen X and Y position after drawing.

Declaration


```
[TestMethod]
public void TestDrawTo_SetsPenPosition()
```

▼ **TestMoveTo_SetsPenPosition()**

Test to ensure MoveTo command correctly sets pen X and Y position.

+ **ASE_Assignment**

(ASE_Assignment.html)

- **ASE_AssignmentTests**

[TestMethod]

(ASE_AssignmentTests.html)

```
public void TestMoveTo_SetsPenPosition()
```

```
AppCanvasTests
```

```
(ASE_AssignmentTests.AppCanvasT
```

TestMultilineProgram_NoRestrictions()

Test to ensure multiline programs can be run even if command parameters exceed BOOSE restrictions.

Declaration

```
[TestMethod]
public void TestMultilineProgram_NoRestrictions()
```

TestMultilineProgram_WithRestrictions()

Test to ensure multiline programs can be run with command parameters that don't exceed BOOSE restrictions.

Declaration

```
[TestMethod]
public void TestMultilineProgram_WithRestrictions()
```