

General C# Cheat Sheet

by Veyleria via cheatography.com/99177/cs/21007/

Data Types			
byte	8-bit unsigned integer	0 to 255	byte value = 255;
int	32-bit signed integer	-2,147,483,648 to 2,147,483,647	int value = 3;
float	32-bit Single-precision floating point type	-3.402823e38 to 3.402823e38	<pre>float value = 6.3F;</pre>
char	16-bit single Unicode character	Any valid character, e.g. a,*, \x0058 (hex), or\u0058 (Unicode)	<pre>char value = 'H';</pre>
bool	8-bit logical true/false value	True or false.	bool value = true;
string	A sequence of Unicode characters	Combination of characters.	<pre>string value = "Hel- lo";</pre>

Type Conversion Methods

Convert.ToBoolean(variable);

Convert.ToByte(variable);

Convert.ToChar(variable);

Convert.ToDateTime(variable);

Convert.ToInt32(variable);

Convert.ToString(variable(;

Naming	Convensions

Class MyClass

Method MyMethod

Local variable myLocalVariable

Private variable __myPrivateVariable

Constant MyConstant

Statements

if-else	if (true) {} else if (true) {} else {}
switch	<pre>switch (var) { case 1: break; default: break; }</pre>
for	for (int i =1; i < 5; i++) {}
foreach	<pre>foreach (int item in array) {}</pre>
while	while (true) {}
do-while	<pre>do {} while (true);</pre>
try-catch-finally	try {} catch (Exception e) {} catch {} finally {}



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Arrays and Methods	
int[] array = new int[] {1, 2, 3};	Defines a new array.
int[] array = {1, 2, 3};	Defines a new array.
<pre>var array = new int[] {1, 2, 3};</pre>	Defines a new array.
<pre>int[] array = new int[3];</pre>	Defines a new array.
<pre>int[,] array2D = new int[,] { { 1, 2 }, { 3, 4 }, { 5, 6 }, { 7, 8 } };</pre>	Defines a new two dimensional array.
<pre>int[,] array2Da = new int[4, 2] { { 1, 2 }, { 3, 4 }, { 5, 6 }, { 7, 8 } };</pre>	Defines a new two dimensional array with dimensions specified.
<pre>int[, ,] array3D = new int[,,] { { { 1, 2, 3 }, { 4, 5, 6 } }, { { 7, 8, 9 }, { 10, 11, 12 } };</pre>	Defines a new three dimensional array.
<pre>int[, ,] array3Da = new int[2, 2, 3] { { { 1, 2, 3 }, { 4, 5, 6 } }, { { 7, 8, 9 }, { 10, 11, 12 } } };</pre>	Defines a new three dimensional array with dimensions specified.
array.GetLength(int32)	Gets a 32-bit integer that represents the number of elements in the specified dimension of the Array.

Classes		
Class	<pre>public class Animal {}</pre>	Makes a new class named Animal.
Inheritance	<pre>public class Dog:Animal {}</pre>	Inherits from a class. Example every animal has a size, but not every animal is the same size.
Constructor (no parameters)	<pre>public Dog() {}</pre>	Method in a class that activates when the class is instanciated.
Constructor (one parameter)	<pre>public Dog (string var) {}</pre>	Method in a class that activates when the class is instanciated with parameters.
Deconstructor (cannot have parameters)	~Dog () {}	Method in a class that activates when the class is destroyed.
Call method	<pre>MethodName();</pre>	Calls a custom or already existing method.



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Lists and Methods	
List <type> listName = new</type>	Declares a new list.
List <t>();</t>	
listName.Count	Gets the number of elements contained in the List <t>.</t>
<pre>listName.Add(T);</pre>	Adds an object to the end of the List <t>.</t>
<pre>listName.Clear();</pre>	Removes all elements from the List <t>.</t>
<pre>listName.Contains(T);</pre>	Determines whether an element is in the List <t>.</t>
<pre>listName.Equals(Object);</pre>	Determines whether the specified object is equal to the current object.
<pre>listName.IndexOf(T);</pre>	Searches for the specified object and returns the zero-based index of the first occurrence within the
	entire List <t>.</t>
<pre>listName.Remove(T);</pre>	Removes the first occurrence of a specific object from the List <t>.</t>
<pre>listName.RemoveAt(Int32);</pre>	Removes the element at the specified index of the List <t>.</t>

Access Modifiers		
public	Accessible by any other code in the same assembly or another assembly that references it.	public int;
private	Only accessible by code in the same class or struct.	private int;
protected	Only accessible by code in the same class or struct, or in a derived class	protected int;

Other Modifiers		
abstract	Indicates that a class is intended only to be a base class of other classes.	abstract class Shape { }
async	Indicates that the modified method, lambda expression, or anonymous method is asynchronous. (This is used if a function needs to have an delay or await)	<pre>private async void Task() { }</pre>
const	Specifies that the value of the field or the local variable cannot be modified. (You cannot say $X = 1$; later in the program if it's a const)	<pre>const int X = 0;</pre>
event	Declares an event. Mostly used in combination with an delegate.	<pre>public event SampleEventHandler SampleEvent;</pre>
delegate	Declares a delegate. Mostly used in combination with an event.	<pre>public delegate void SampleEventHand- ler(object sender, SampleEventArgs e;</pre>
new	The new operator creates a new instance of a type.	<pre>public Random random = new Random();</pre>



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Other Modifiers (cont)		
override	Provides a new implementation of a virtual member inherited from a base class.	<pre>public override void ToString() { }</pre>
readonly	Declares a field that can only be assigned values as part of the declaration or in a constructor in the same class. (Same as const, you cannot change the value later)	<pre>private readonly int value = 6;</pre>
static	Declares a member that belongs to the type itself instead of to a specific object.	static int = 7;

Assigment Operators	
=	Simple assignment.
+=	Addition assignment.
-=	Subtraction assignment.
*=	Multiplication assignment.
/=	Division assignment.
%=	Remainder assignment.
&=	AND assignment.
=	OR assignment.

Comparison Operators	
<	Less than.
<	Greater than.
<=	Less than or equal to.
>=	Greater than or equal to.
==	Equal to.
!=	Not equal to

Arithmetic Operators	
+	Add numbers.
-	Subtract numbers.
*	Multiply numbers.
/	Devide numbers.
%	Compute remainder of division of numbers.
++	Increases integer value by 1.
	Decreases integer value by 1.



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Logical Operators	
&&	Logical AND.
	Logical OR.
!	Logical NOT.

Other Operators

- & Returns the address of a variable.
- * Pointer to a variable.
- ?: Conditional expression. is this condition true ? yes : no;
- is Determines whether an object is of a specific type.
- as Cast without raising an exception if the cast fails.

Console

<pre>Console.Clear();</pre>	Clears the console buffer and corresponding console window of display information.
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Console.ReadKey(); Obtains the next character or function key pressed by the user. The pressed key is displayed in the console

window.

 ${\tt Console.ReadLine} \ () \ ; \qquad {\tt Reads} \ the \ next \ line \ of \ characters \ from \ the \ standard \ input \ stream.$

Console.WriteL- Writes the current line terminator to the standard output stream.

ine();

Misc

// Adds a comment.

#region RegionName - #endregion Makes a region (for code colapsing) and ends it with endregion.



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