

C# Development Cheat Sheet

by laurence via cheatography.com/42043/cs/12688/

| Data Types | |
|------------|--------------------------------------------------------------|
| bool | Boolean value |
| byte | 8-bit unsigned integer |
| char | 16-bit Unicode character |
| decimal | 128-bit precise decimal values with 28-29 significant digits |
| double | 64-bit double-precision floating point |
| float | 32-bit single-precision floating point |
| int | 32-bit signed integer |
| long | 64-bit signed integer |
| object | Base type for all other types |
| sbyte | 8-bit signed integer |
| short | 16-bit signed integer |
| string | String value |
| uint | 32-bit unsigned integer |
| ulong | 64-bit unsigned integer |
| ushort | 16-bit unsigned integer |

| Arrays | |
|---------------------------------|--|
| int[] array = new int[] {1,2,3} | |
| $int[] array = \{1,2,3\}$ | |
| var array = new int[] {1,2,3} | |
| int[] array = new int[3] | |

| Classes | | |
|--------------------------------------|----------------------------|-------------------------------------|
| Class | public class Dog {} | |
| Inheritance public class Dog: Pet {} | | et {} |
| Constructor (no parameters) | public Dog () {} | Constructors can co-exist |
| Constructor (one parameter) | public Dog (string var) {} | Constructors can co-exist |
| Field | public string name | |
| Static Class | public static class Dog {} | Must only have static members |
| Static Member | public static int = 1 | |
| Finalizer (destructor) | ~Dog () {} | Cannot have modifiers or parameters |

| Naming Conventions | | |
|--------------------|--------------------|--|
| Class | MyClass | |
| Method | MyMethod | |
| Local variable | myLocalVariable | |
| Private variable | _myPrivateVariable | |
| Constant | MyConstant | |

| Logical Operators | |
|-------------------|-----|
| && | and |
| | or |
| ! | not |
| ٨ | xor |

| Arithmetic Operators | |
|----------------------|------------------------------------------|
| + | Add numbers |
| - | Subtract numbers |
| * | Multiply numbers |
| / | Divide numbers |
| % | Compute remainder of division of numbers |

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

| Access Modifiers | |
|------------------|------------------------------------------------------------------------------------------|
| public | Accessible by any other code in the same assembly or another assembly that references it |
| private | Only accessible by code in the same class or struct |



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| Access Modifiers (cont) | |
|-------------------------|------------------------------------------------------------------------------------------|
| protected | Only accessible by code in the same class or struct, or in a derived class |
| internal | Accessible by any code in the same assembly, but not from another assembly |
| protected internal | Accessible by any code in the same assembly, or by any derived class in another assembly |

| Compari | Comparison Operators | |
|---------|--------------------------|--|
| < | Less than | |
| > | Greater than | |
| <= | Less than or equal to | |
| >= | Greater than or equal to | |
| == | Equal to | |
| != | Not equal to | |

| Other Mo | difiers |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| abstract | Indicates that a class is intended only to be a base class of other classes |
| async | Indicates that the modified method, lambda expression, or anonymous method is asynchronous |
| const | Specifies that the value of the field or the local variable cannot be modified |
| event | Declares an event |
| extern | Indicates that the method is implemented externally |
| new | Explicitly hides a member inherited from a base class |
| override | Provides a new implementation of a virtual member inherited from a base class |
| partial | Defines partial classes, structs and methods throughout the same assembly |
| readonly | Declares a field that can only be assigned values as part of the declaration or in a constructor in the same class |
| sealed | Specifies that a class cannot be inherited |
| static | Declares a member that belongs to the type itself instead of to a specific object |
| unsafe | Declares an unsafe context |
| virtual | Declares a method or an accessor whose implementation can be changed by an overriding member in a derived class |
| volatile | Indicates that a field can be modified in the program by something such as the operating system, the hardware, or a concurrently executing thread |



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