

C# Essentials

Common Data Types

int char float double
decimal bool string

Variable Declaration

data-type variable-name = value

Array Declaration

data-type[] array-name =
{ value, value, value }

Comments

// Single-line comment
/*
Multi-line comment
*/

Arithmetic Operators

+ Add (or concatenate strings)
- Subtract
* Multiply
/ Divide
% Modulus
++ Increment
-- Decrement

Comparison Operators

== Equal
!= Not equal
< Less than
<= Less or equal
> Greater than
>= Greater or equal

Logical Operators

&& Logical AND
|| Logical OR
! Logical NOT

Assignment Operators

= Assign
+= Add and assign
-= Subtract and assign
*= Multiply and assign
/= Divide and assign
%= Modulus and assign

Ternary Operator

(condition) ? statement : statement

If Else

```
if( condition )
{ statements }
else
{ statements }
```

Switch

```
switch( expression )
{
case value : statements ; break ;
case value : statements ; break ;
default : statements ; break ;
}
```

While Loop

```
while( condition )
{ statements }
```

Do While Loop

```
do
{ statements } while( condition )
```

For Loop

```
for( initialize , condition , update )
{ statements }
```

Foreach Loop

```
foreach( data-type variable in collection )
{ statements }
```

Error Handling

```
try
{ statements }
catch( Exception error )
{ statements }
```

Method

```
public void method-name ( parameters )
{
statements
}
```

Class

```
access-specifier class Name
{
member variables
member methods
}
```

The syntax highlighting of the C# code in the book is the same as the default colors in the Visual Studio editor: Default Code Color: Black

Keywords: Blue

String Literals: Red

Class Objects: Light Blue

Comments: Green

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