

### Data Types

Name	Example
bool	bool flag = True
char	char c = '#'
string	string text = "cake is great"
int	int x = 29
double	double a = 3.14

### Casting and Type Conversions

From	To	Use
double	int	(int)x
string	int	int.Parse(x)

x means the original variable that you are converting.

example: a = (int)7.2

### Arrays

#### Initialization

```
datatype[] name = new
```

```
datatype[size]
```

example: int[] arr = new int[2]

```
datatype[] name = {value1, value2, ...}
```

example: string[] names = {"Bob", "Jack", ...}

#### Multi-Dimensional Arrays

```
datatype[,] name = new
```

```
datatype[size0, size1]
```

example: int[,] arr = new int[2, 4]

### Flow Control

Branching	Looping
if (condition) { (statments) }	while (condition) { (statments) }
elseif (condition) { (statments) }	do { (statments) } while (condition)
else { (statments) }	for (initialization; condition; step) { (statments) }

### Boolean Logic Operators

Operator	Meaning
&&	and
	or
!	not

### Console I/O

Line Input	Console.ReadLine()
Line Output	Console.WriteLine()



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Published 28th July, 2016.  
Last updated 28th July, 2016.  
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