Variable

7

Variable

7

Array

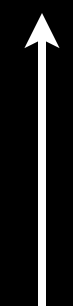| 4	8	15	16	23	42
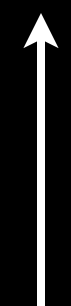
0   1   2   3   4   5

Variable

```
var number = 7
```

Array

```
var numbers = [4, 8, 15, 16, 23, 42]
```

Creating an empty array.

Create an empty array of a certain type.

```
var numbers = [Int]()
```

This example makes an empty array of Ints.

An alternative syntax, provides the same result.

```
var numbers: [Int] = []
```

How many elements are in the array?

```
numbers.count
```

count is a read-only property that indicates how many elements are in the array.

```
var numbers = [4, 8, 15, 16, 23, 42]
print(numbers.count)
// 6 will be output to the console
```

```
numbers.isEmpty
```

isEmpty returns true when count == 0

Add an element

```
numbers.append(75)
```

append is used to add a new element to the end of the array.

subscript syntax

```
numbers[0]
```

Use an index value to access any element in the array. The first element is at index 0.

```
numbers[0] = 77
```

Use subscript syntax to change an existing value at a given index.

Insert an element

```
numbers.insert(86, at: 0)
```

Insert an item into the array at a specified index.

Remove an element

```
numbers.remove(at: 0)
```

Remove an item from the array at a specified index.

Iterating over an array

```
for value in numbers {
    print(value)
}
```

Iterate over the entire set of values in an array.