JavaScript Objects vs Arrays

Array Syntax

Array = []
x = [value0, value1, value2]

In arrays, you insert values which are then indexed

Object Syntax

Object = {}
x = {key0: value0, key1: value1, key2: value2}

In objects, you specify a key and add a value to that key

Representation of a Person

```
            Index      [0]     [1]      [2]
personName = ["Matt", "John", "Kate"]
personAge = [21, 23, 19]
```

```
                Key:    Value,  Key: Val
person0 = {name: "Matt", age: 21 }
person1 = {name: "John", age: 23 }
person2 = {name: "Kate", age: 19 }
```

Accessing Values

```
personName[0] = "Matt"
personAge[1] = 23
personName[2] = "Kate"
```

```
person0.name = "Matt"
person1.age = 23
person2.name = "Kate"
```

Storing Objects Together Inside Arrays

```
                            Array Index
People = [ { name: "Matt", age = 21 },  [0]      People[0].name = "Matt"
           { name: "John", age = 23 },  [1]      People[1].age = 23
           { name: "Kate", age = 19 } ] [2]      People[2].name = "Kate"
```

Objects

Things to Remember

Syntax

When you are working inside an object, there are similarities with declaring variables:

Declaring a Variable Outside an Object

x = "Hey how's it goin mate";
y = "Yeah nah mate, not too bad ey";

Use a comma where you'd normally use a semi-colon

Declaring a Variable Inside an Object

{ x: "Hey how's it goin mate",
  y: "Yeah nah mate, not too bad ey",
  z: "Yeah niice mate, nice" }

Use a colon where you'd normally use an equals sign

Note that similar to arrays, the final value in an object doesn't need a comma