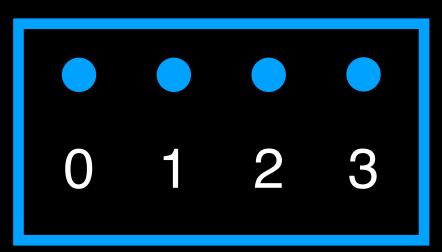
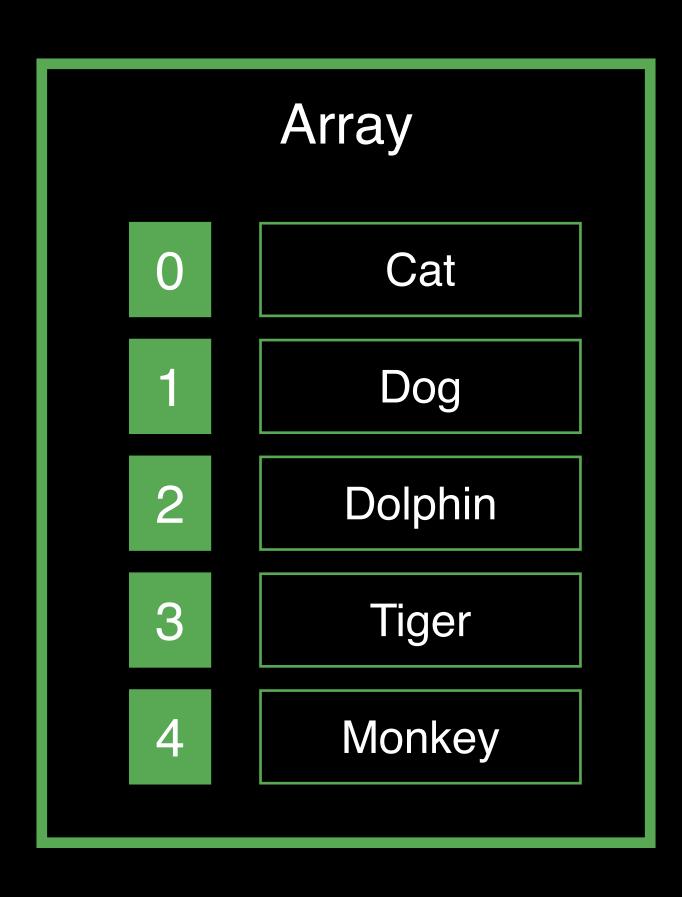
Unit 2—Lesson 5: Collections

Collection Types

Array is an ordered collection of values accessible by index



Collection Types



Arrays Defining

```
[value1, value2, value3]
```

```
var names: [String] = ["Anne", "Gary", "Keith"]
```

Arrays Defining

```
[value1, value2, value3]
```

```
var names = ["Anne", "Gary", "Keith"]
```

Arrays Defining

var numbers = [1, -3, 50, 72, -95, 115]

Arrays contains

```
let numbers = [4, 5, 6]
if numbers.contains(5) {
  print("There is a 5")
}
```

There is a 5

Working with arrays

["Anne", "Paul", "Keith"]

Accessing or setting a specific item

```
var names = ["Anne", "Gary", "Keith"]
let firstName = names[0]
print(firstName)

Anne

names[1] = "Paul"
print(names)
```

Working with arrays Appending

```
var names = ["Amy"]
names.append("Joe")
names += ["Keith", "Jane"]
print(names)
```

```
["Amy", "Joe", "Keith", "Jane"]
```

Working with arrays Inserting

```
var names = ["Amy", "Brad", "Chelsea", "Dan"]
names.insert("Bob", at: 0)
print(names)
```

```
["Bob", "Amy", "Brad", "Chelsea", "Dan"]
```

Working with arrays Removing

```
var names = ["Amy", "Brad", "Chelsea", "Dan"]
let chelsea = names.remove(at:2)
let dan = names.removeLast()
print(names)

["Amy", "Brad"]

names.removeAll()
print(names)
```

Working with arrays

var myNewArray = firstArray + secondArray

Working with arrays Arrays within arrays

[1, 2, 3]

```
let array1 = [1,2,3]
let array2 = [4,5,6]
let containerArray = [array1, array2]
let firstArray = containerArray[0]
let firstElement = containerArray[0][0]
print(containerArray)
print(firstArray)
print(firstElement)
[[1, 2, 3], [4, 5, 6]]
```

Unit 2—Lesson 5

Lab: Collections



Open and complete the exercises in Lab - Collections.playground