JavaScript Arrays

Storing lots of data at once

- The variables I have used to this point store a single piece of information
 - O Number, String, Boolean, or Object
- What do you do if you want multiple, *related* pieces of information?
- Store them in arrays



Declaring An Array

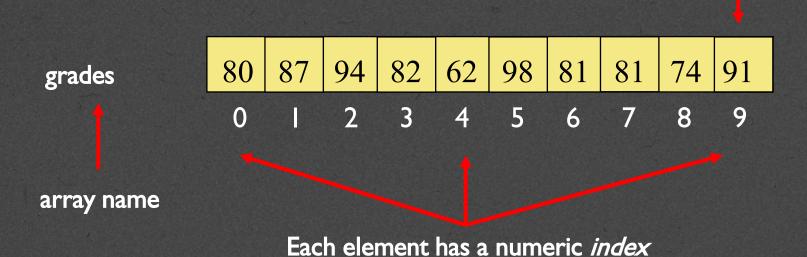
Declaring an array

```
var grades= [80, 87, 94, 82, 62, 98, 81, 81, 74, 91]
var foods = ['bananas', 'apples', 'pizza']
var images= document.getElementsByClassName['imgs']
var listItems = document.getElementsByTagName['li']
```

element



An array is a collection of values





Accessing An Array

- Each value is called an element
- Elements are referenced by index
 grades[0] refers to the value 80 (Ist value)
 grades[4] refers to the value 62 (5th value)





Arrays

 The elements in the array DON'T have to be all the same type

var info= ["Colleen", 1715, "Walnut", 44004]

JavaScript Arrays are Objects

- They have attributes and methods
- grades.length
- grades.sort()
- grades.push(element)
 - o grades[grades.length] = element



Review

- Learning to declare and manipulate arrays will make your code more powerful
- We can now play with new API methods:
 - getElementsByTagName('t')
 - getElementsByClassName('c');



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