



JavaScript Arrays

Storing lots of data at once

- The variables I have used to this point store a single piece of information
 - 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];
```

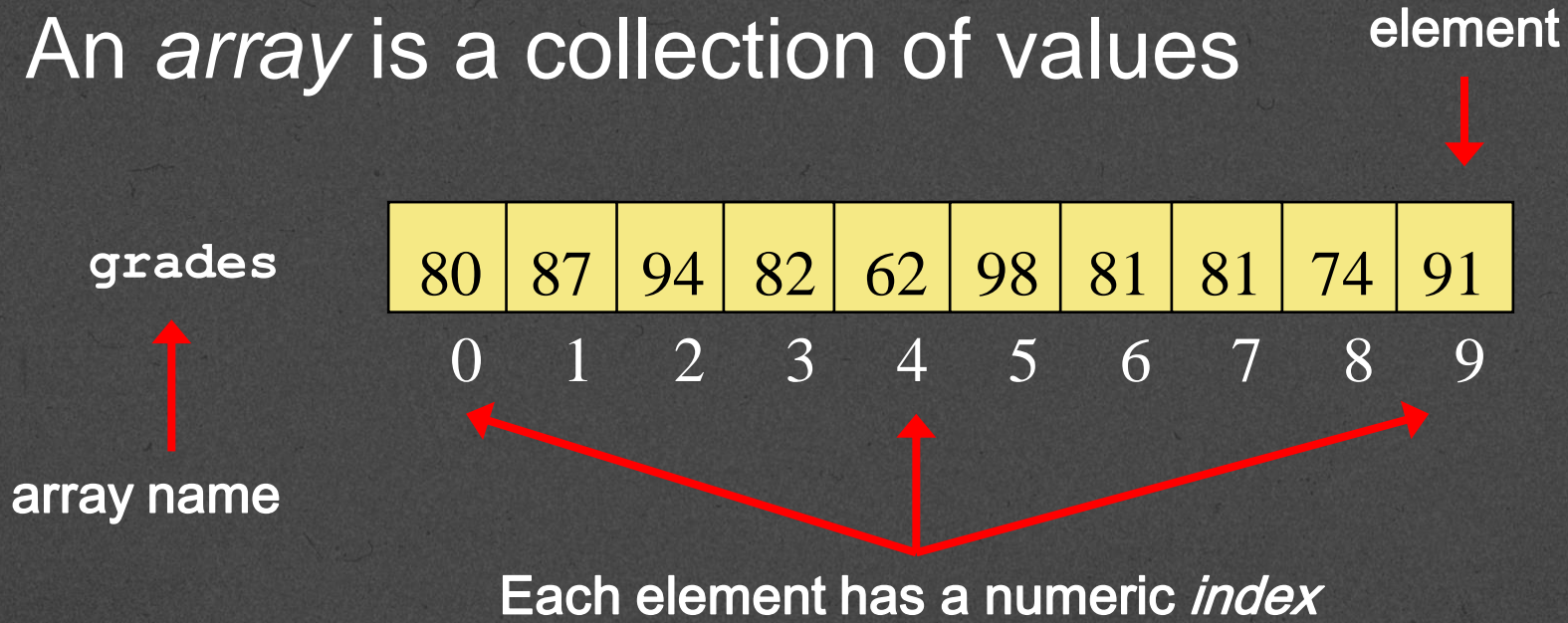
```
var foods = ['bananas', 'apples', 'pizza'];
```

```
var images= document.getElementsByClassName['imgs'];
```

```
var listItems = document.getElementsByTagName['li'];
```

Arrays

- An *array* is a collection of values



Accessing An Array

80	87	94	82	62	98	81	81	74	91
0	1	2	3	4	5	6	7	8	9

- Each value is called an element
- Elements are referenced by index

`grades[0]` refers to the value `80` (1st 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)`
 - `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');`

Acknowledgements/Contributions

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