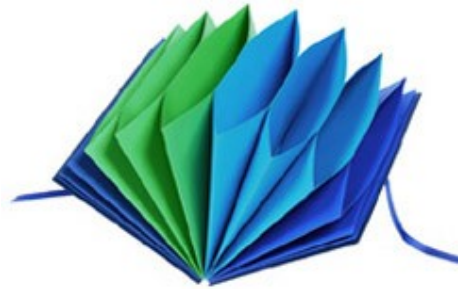# FEWD - ARRAYS

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Interactive Developer - MRY

AGENDA

- Collection Of Data
- Manipulating Collections

ARRAYS COLLECTIONS

ARRAYS

What if we had a collection of images that we wanted to display to the screen one at a time?

How could we store all the images?

ARRAYS

What is an array?

DECLARING ARRAYS

var myArr = new Array();

- declaring an empty array using the Array constructor.

DECLARING ARRAYS

var myArr = [ ];

- declaring an empty array using literal notation.

DECLARING ARRAYS
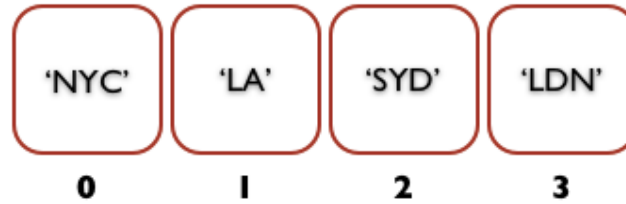
myArr = ['Hello', 54.3, true];

- Arrays are filled with elements: i.e. myArr3 = [element, anotherElement];
- Elements can contain strings, numbers, booleans, and more.

DECLARING ARRAYS

If you leave a blank spot in an array it creates a blank shelf space (undefined) placeholder.

ARRAYS INDEXING

'NYC'	'LA'	'SYD'	'LDN'
0	1	2	3

ARRAYS INDEXING

Array elements can be fetched by their index number (starts from 0).

```javascript
myArr = ['Hello', , 54.3, true];

console.log(myArr[0]); //prints Hello
console.log(myArr[1]); //prints undefined
console.log(myArr[2]); //prints 54.3
console.log(myArr[3]); //prints true
```

ARRAYS INDEXING

We can insert new values into any space in the array using the positions index.

```
myArr[1] = 'Stuff';
```

ARRAYS INDEXING

We can overwrite all the elements of an array simply by giving the array new values or by setting an array equal to a different array.

```
var fruits = ['Apples', 'Oranges', 'Pears', 'Bananas'];
var myArr=[1,2,3];
myArr = fruits;

console.log(myArr); //prints Apples, Oranges, Pears, Bananas
```

ARRAY LENGTH

What if I would like to know how long my array is (how many elements)?

```
console.log(myArr.length); //prints 4
```

CODE ALONG

ARRAYS

ITERATE OVER ARRAY

Allows you to run code using each element from the array as a value Syntax:

```
Array.forEach
```

ARRAYS

ITERATE OVER ARRAYS

```javascript
var fruits=["Banana","Apple","Pear"]
    fruits.forEach(function(element,index){
    console.log(element,index);
});
```

MORE ON ARRAYS

For many more Array methods
see:https://developer.mozilla.org/en-
US/docs/JavaScript/Reference/Global_Objects/Array

CAROUSEL