Array - Manipulation Javascript I

Today's Agenda JS - Array Manipulation

- Adding Elements
- Removing Elements
- Locating Elements
- Slicing
- Reversing
- Sorting
- Converting between strings and array
 - Splitting
 - Joining



Adding Elements

Unshift()

 Adds the element at the START of an array.

Basic Syntax:

```
arrayName.unshift(element1, element2, ...)
```

push()

Adds the element at the END of an array.

```
arrayName.push(element1, element2, ...)
```

Unshift()

```
arrayName.unshift(element1, element2, ...)
```

push()

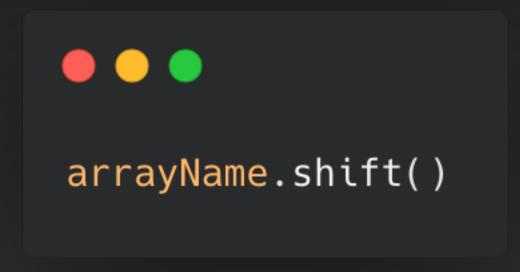
```
arrayName.push(element1, element2, ...)
```

Removing Elements

shift()

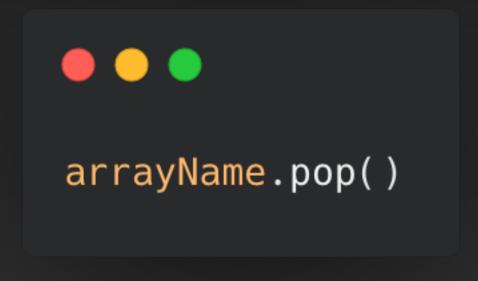
 Removes the element at the START of an array.

Basic Syntax:

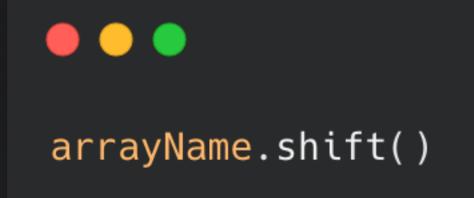


pop()

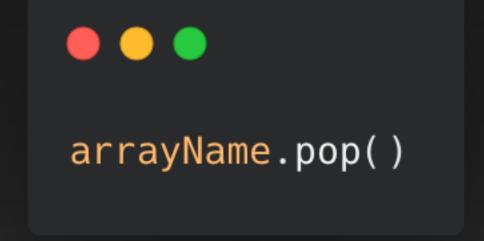
 Removes the element at the END of an array.



shift()



pop()





Locating Elements

indexOf()

- Search for the element starting at the BEGINNING of the array
- Returns index

Basic Syntax:

```
arrayName.indexOf(element);
```

lastIndexOf()

- Search for the element starting at the END of the array
- Returns index

```
arrayName.lastIndexOf(element);
```

indexOf() & lastIndexOf()

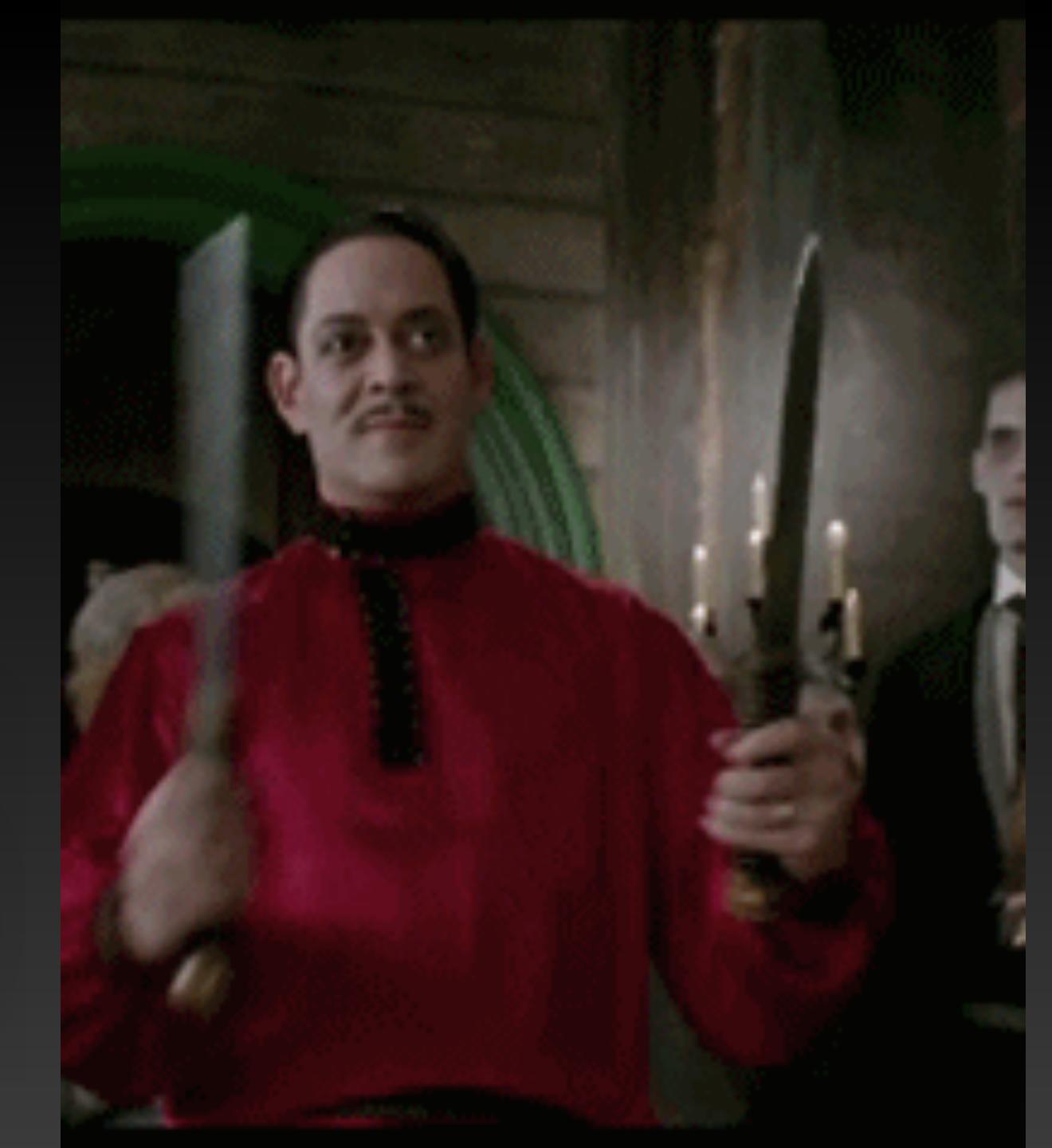


Slicing

indexOf()

- Allows us to copy a portion of an array
- Returns a new array

```
arrayName.slice(startIndex, endIndex);
```



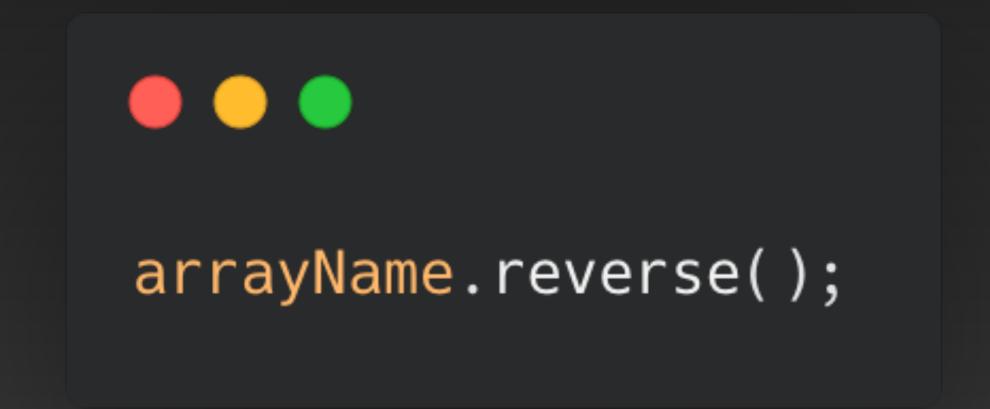
slice()



Reverse

reverse()

- Reverse the array by making the last item first, and first item last
- Will modify the array





reverse()

Reversible

SORTING

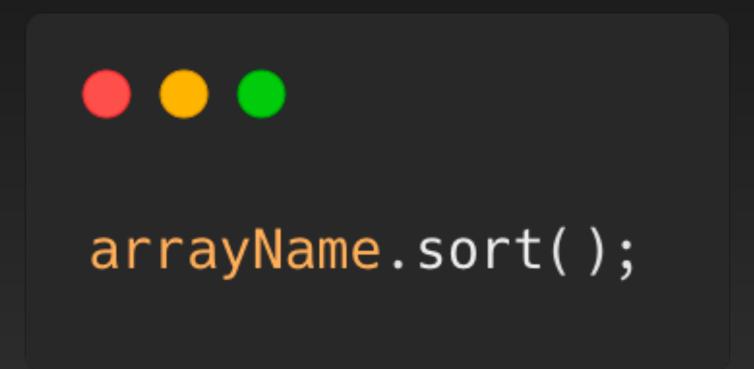
sorting()

- **Sorting** is used when you want to sort an array in an <u>alphabetically</u>
- By default sort values as strings

```
arrayName.sort();
```



sort()



Converting String to Arrays & Arrays to Strings

split()

join()



split()

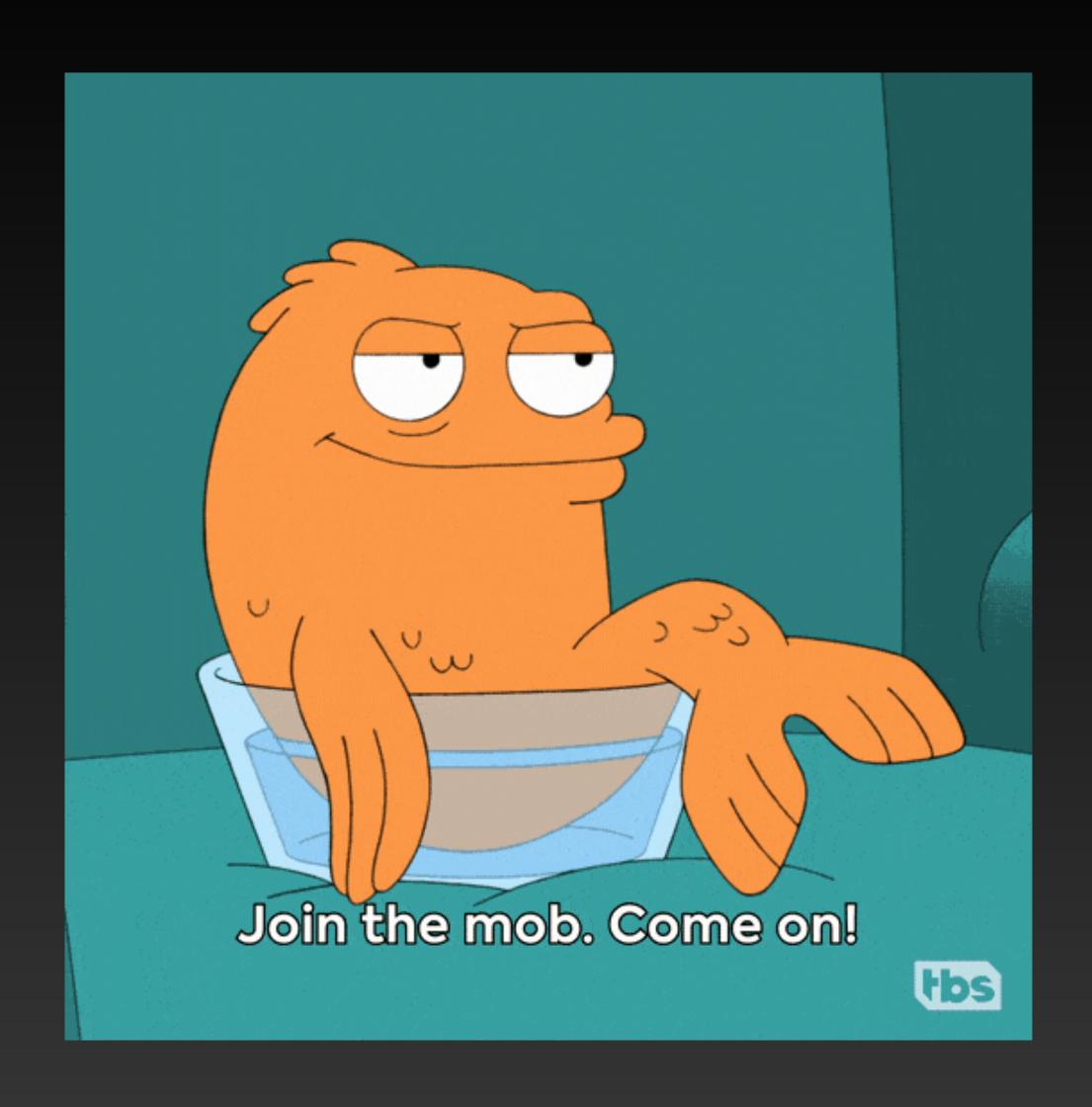
- Used to split a string into an array based on a specified delimiter
- Delimiters indicate where the string should split

Basic Syntax:



arrayName.split('separator');

split()



join()

- Used to create a string from an array
- Can specify a separator that will be placed between elements

Basic Syntax:



arrayName.join(separator);

join()

Further Reading

Exercise Time

JavaScript I - Manipulation