

First thing's first

Lets go back to our noughts and crosses board

Write an if statement that checks if the items on the top row meet a winning condition. So the top row are all 'o's or all 'x's.

Nation

JavaScript Fundamentals

Arrays

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Learning Objectives

- To understand the uses of arrays
- To understand the syntax of creating an array
- To use a variety of methods to work with arrays

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An array of

riches



Coding is all about data - storing it, retrieving it, doing stuff with it



In the real-world, we make lists



Let's see



Coffee order:

Alex-Cortado

Ben - Cortado

Charlie - whatever's new





We can do the same thing in JavaScript



```
let coffeeOrder = [
    "Alex - Cortado",
    "Ben - Cortado",
    "Charlie - Whatever's new"
console log(coffeeOrder);
```



Activity:

Make an array of your favourite songs.

3 of them.

Log to console.





Like any good list, we can access individual items



We use square brackets for that []



console log(coffeeOrder[2]);



console log(coffeeOrder[2]);



Charlie - whatever's new

But wasn't that the 3rd item?



JavaScript starts counting at 0, so 0, 1, 2 = our 3 items in coffeeOrder



Arrays can be updated like variables



```
let coffeeOrder = [
    "Alex - Cortado",
    "Ben - Cortado",
    "Charlie - Whatever's new"
1;
coffeeOrder[1] = "Ann - Vanilla latte";
```



Properties work, just like in variables.

Are you getting this yet?



```
let coffeeOrder = [
   "Alex - Cortado",
   "Ben - Cortado",
   "Charlie - Whatever's new"
];
```

console.log(coffeeOrder.length);



It will output the number of items in the array, not the number of characters



Have you ever gone shopping and just had to add those chocolate biscuits to the end of your list?



JavaScript's got you covered. The .push method.



```
let coffeeOrder = [
   "Alex - Cortado",
   "Ben - Cortado",
   "Charlie - Whatever's new"
];
```

coffeeOrder.push("Donna - espresso");



Have you ever thought you actually don't want that pointless broccoli?



JavaScript's got you covered. The .pop method, which removes the last item from your list (array)



```
let coffeeOrder = [
    "Alex - Cortado",
    "Ben - Cortado",
    "Charlie - Whatever's new"
];
```

coffeeOrder.pop();



Lots of methods available to use in arrays, from adding things, removing things, adding in certain places.



shift() unshift() slice() splice() so many...

Check out the Mozilla Developer Network for more.

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array

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Create a list of your favourite website (3 of them), and then add another two once you've created the list. Then remove the last website.

Activity(2):

Research on the following methods: shift(), unshift(), slice(), splice() (and many more). Create a program to demonstrate the uses of each method, some of these you may need more than one example. (Pay attention: not all methods would permanently updates/make changes to the arrays themselves.)



For more info:

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array