

Dynamic Web



Reintroduction to JavaScript

But First....

Let's talk about the articles I sent for you to read...

Can a Social-Justice App Be Art? - The New Yorker

How Bail Bloc works - New Inquiry

Standard Objects

Object

String

Array

Number

Date

NaN

undefined

null

Strings (again)

```
1  let sampleString = `Sample String`;
2  let stringLength = sampleString.length; // 13
3  let coolNumber = 100020394; // 100020394
4  let numberLength = coolNumber.length; // hmmm....
5  let numToString = coolNumber.toString(); // '100020394'
6  let lowerString = sampleString.toLowerCase(); // 'sample string'
7
```

Arrays (again)

```
1  let coolArray = ['dogs', 'cats', 'frogs'];
2
3  ✓ function addCoolAnimal(currentArray, val) {
4    |   return currentArray.push(val);
5    | }
6
7  coolArray = addCoolAnimal(coolArray, 'zebra');
8  coolArray = addCoolAnimal(coolArray, 'elephant');
9
10 console.log('Some cool animals?', coolArray);
11 //--- Outputs ['dogs', 'cats', 'frogs', 'zebra', 'elephant']
```

Arrays (again)

```
1  const coolArray = ['dogs', 'cats', 'frogs'];
2
3  function makeArrayString(arrayConst = []) {
4    // Dunno why you'd do this but...
5    let stringToMake;
6    arrayConst.map(item => {
7      stringToMake = stringToMake + item + ', ';
8    });
9  }
10
11 function doesArrayContain(arr = [], val = '') {
12   return arr.includes(val) ? true : false;
13 }
14
15 console.log(
16   'Array Into a String?',
17   makeArrayString(coolArray)
18 );
19
20 console.log(
21   'Does Array Contain Horses?',
22   doesArrayContain(coolArray, 'horses')
23 );
24
```

Applying this to React

```
1  const sampleData = [  
2    { title: 'Words', text: 'More Words' },  
3    { title: 'Words', text: 'More Words' },  
4    { title: 'Words', text: 'More Words' }  
5  ];  
6  
7  export default function DisplayText(props) {  
8    return (  
9      <div>  
10        {sampleData.map((item, i) => (  
11          <div>  
12            <h2>{item.title}</h2>  
13            <p>{item.text}</p>  
14          </div>  
15        ))}  
16      </div>  
17    );  
18  }  
19
```

Dates...

Dates can be VERY complicated... but they don't have to be.

Ask these questions:

1. What format is my date coming in as?
2. What format do I want my date to be in?
3. What do I do with my date after it is formatted correctly?

Dates Formats

'December 17, 1995 03:24:00' 🤔

'1995-12-17T03:24:00' 🤔

'Sun, 31 Dec 1899 00:00:00 GMT' 🤔

Dates Formats

'December 17, 1995 03:24:00' - **ISO Long Date** (don't use this)

'1995-12-17T03:24:00' - **ISO String**

'Sun, 31 Dec 1899 00:00:00 GMT' - **UTC**

Getting Data Out of a Date

```
1  const nowdate = new Date(); //--- creates a new date object from right now.  
2  const date = new Date(dateFromData);  
3  
4  const m = date.getMonth() + 1;  
5  const d = date.getDate();  
6  const yyyy = date.getFullYear();  
7
```