

Javascript Chapter 4: Variables, Arrays, and Javascript in React

Ezequiel Torres

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Basics of Javascript

Now that we have styles and html, we want to start writing code for the front end

Basics of Javascript cont.

Let's start with the basics, variables

Javascript Calculator Example

```
function sumTwoNumbers(a: number, b: number): number {  
    return a + b  
}
```

Javascript Calculator Example cont.

```
export default function Home(){  
  return (  
    <div className={styles.main}>  
      {sumTwoNumbers(10, 5)}  
    </div>  
  );  
}
```

Variables and Typescript

Now we have a webpage with a simple 15. Notice how we have parameters, inputs for our functions, with a colon and it's type (a number). This is typescript, letting our future selfs know the types of these variables

Arrays

When we want to have a collection of data, we can utilize javascript arrays. Let's change our example to sum all the numbers in an array

Arrays Example

```
function sumNumbers(a: number[]) {  
    let sum: number = 0  
    for (let item of a){  
        sum += item  
    }  
    return sum  
}
```

Arrays Example cont.

```
export default function Home(){  
  return (  
    <div className={styles.main}>  
      {sumNumbers([5, 10, 15])}  
    </div>  
  );  
}
```

Other sum array examples

There are multiple ways to solve the above problem.

Sum using reduce

```
export default function Home(){  
  return (  
    <div className={styles.main}>  
      {[5, 10, 15].reduce((sum, element) => {return sum + element}, 0)}  
    </div>  
  );  
}
```