

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

Ezequiel Torres

July 7, 2024

# Table of contents

## Variables

- Variables Example

- Javascript Calculator Example

- Javascript Calculator Example cont.

- Variables and Typescript

## Arrays

- Arrays Example

- Arrays Example

- Other sum array examples

# 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) => {  
    </div>  
  });  
}
```