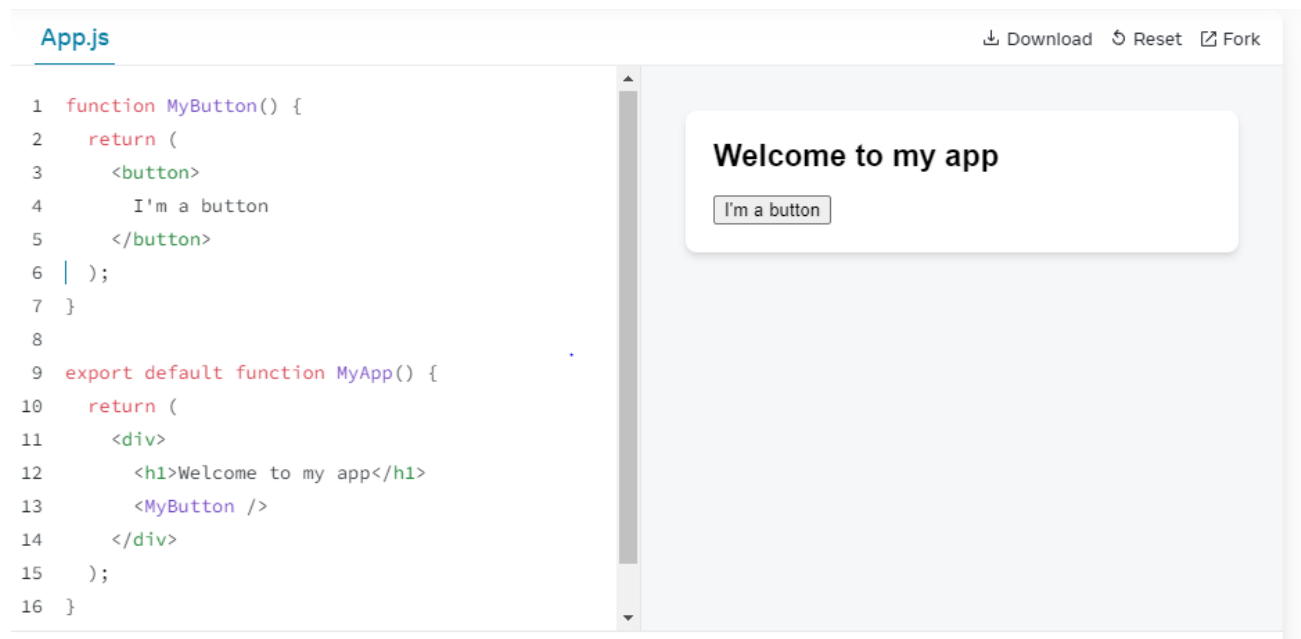# **Learn React:**

Quick Start/Introduction:

- React apps consist of components. "A component is a piece of the UI (user interface) that has its own logic and appearance. A component can be as small as a button, or as large as an entire page."

- What these components specifically are **Javascript functions** that return markup. Markup just means the design/layout/content of a web page or UI.

In the demo below, we can see two react components. We can also see the component "MyButton" was created and was then able to be nested into another component "MyApp"An important note - React components must always start with a capital letter, whilst HTML tags must always be lowercase

App.js   ⬇ Download ↺ Reset ⤢ Fork

```
1  function MyButton() {
2    return (
3      <button>
4        I'm a button
5      </button>
6   );
7  }
8
9  export default function MyApp() {
10   return (
11     <div>
12       <h1>Welcome to my app</h1>
13       <MyButton />
14     </div>
15   );
16 }
```

Welcome to my app

[I'm a button]

DESCRIBING THE UI

https://react.dev/learn/describing-the-ui

COMPONENTS:

HOW TO BUILD A COMPONENT:

1) Export the Component

   - This step is not labor/knowledge intensive at all. `export default` is basic javascript syntax that marks the main function in a file so that it could be later imported by other files.

2) Define the Function

   - As stated earlier, react components are just Javascript functions - `function Profile`, `function Gif` are functions called "Profile" and "Gif", respectively.

   - React components (aka the function name) must be CAPITALIZED

3) Add Markup

   The Markup Language that React utilizes is JSX.

- JSX is a syntax extension for javascript. It essentially combines html, css, and javascript into usable javascript code. JSX documentation can be found here: https://react.dev/learn/writing-markup-with-jsx

-

Everything after is built upon the information above in the "describing the UI" section of the react documentation.

Adding Interactivity:

I feel like learning components and JSX markup should be priorities before adding interactivity, so this section will be updated once we get more familiar with purely components and markup.