2nd April, 2022

React Basics

// ReactDOM.render(<h1>Hello, React!</h1>, document.getElementById("root"))

/\*

Challenge - recreate the above line of code in vanilla JS by creating and

appending an h1 to our div#root (without using innerHTML).

- Create a new h1 element

- Give it some textContent

- Give it a class name of "header"

- append it as a child of the div#root

\*/

const h1 = document.createElement("h1")

h1.textContent = "This is an imperative way to program"

h1.className = "header"

document.getElementById("root").append(h1)

const h2 = document.createElement("h2")

h2.textContent = "This is Joe Lartey doing his own thing"

h2.className = "footer"

document.getElementById("root").append(h2)

const page = (

<div>

<h1 className="header">This is JSX</h1>

<p>This is a paragraph</p>

</div>

)

console.log()

ReactDOM.render(

page,

document.getElementById("root")

)

import React from "react"

import ReactDOM from "react-dom"

const navbar = (

<nav>

<h1>Bob's Bistro</h1>

<ul>

<li>Menu</li>

<li>About</li>

<li>Contact</li>

</ul>

</nav>

)

ReactDOM.render(navbar, document.getElementById("root"))

3RD APRIL 2022

1. Why do we need to `import React from "react"` in our files?

React is what defines JSX

2. If I were to console.log(page) in index.js, what would show up?

A JavaScript object. React elements that describe what React should

eventually add to the real DOM for us.

3. What's wrong with this code:

```

const page = (

<h1>Hello</h1>

<p>This is my website!</p>

)

```

We need our JSX to be nested under a single parent element

4. What does it mean for something to be "declarative" instead of "imperative"?

Declarative means I can tell the computer WHAT to do

and expect it to handle the details. Imperative means I need

to tell it HOW to do each step.

5. What does it mean for something to be "composable"?

We have small pieces that we can put together to make something

larger/greater than the individual pieces.

Quiz!

1. What is a React component?

A function that returns React elements. (UI)

2. What's wrong with this code?

```

function MyComponent() {

return (

<small>I'm tiny text!</small>

)

}

```

3. What's wrong with this code?

```

function Header() {

return (

<header>

<nav>

<img src="./react-logo.png" width="40px" />

</nav>

</header>

)

}

ReactDOM.render(<Header />, document.getElementById("root"))

```