Corey Gumbs
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Sprint-React-Wars

What is React JS and what problems does it try and solve? Support your answer with concepts introduced in class and from your personal research on the web.

React JS is a JavaScript front-end frame-work that tries to solve the problem of building scalable web applications that utilize dynamic data, giving them faster response times. It does this by using a reusable components structure.

What does it mean to *think* in react?

To think in react means to break each UI element down into components, this make handling large applications easy to maintain and change. It also means to think of data and state utilization from a "top down" perspective in which data is passed down from a parent to child component and is manipulated in the parent.

Describe state.

State is a javascript object that holds information that influence the output of a render of a react component.

Describe props.

Props are also javascript objects like state. They perform almost the same thing as State, in that they influence the rendering of output in a component. However, they differ because props are used to transport State data from the parent to the proper child component for rendering within the component. They do not pass information back up to the parent component from child component.

What are side effects, and how do you sync effects in a React component to state or prop changes?

Side-effects is anything that affect something outside the scope of the function being executed. We use the useEffect hook to sync effects in a react component to state or prop changes.