

Week 14 Research

By: Patrick Corcoran

Unidirectional data flow is where the data in a react app moves in only one direction from parent components to child components. Data sent to the child is known as props and the unidirectional flow means that the child component cannot change the data, just make use of it. This also effects states, in that the state is set at a certain component level and child components are unable to make changes to that state. Call back functions must instead be used. Unidirectional flow is important since it makes debugging easier since the location of the initial state and props are known, it gives the developer more control over data flow to reduce errors and is much more efficient, leading to less wasted resources.

React components render when called by the parent components upon loading of the app. React components rerender when there is a change in the state or a change in the props that are in the component. Child components will also rerender when the parent component is rerendered.

<https://www.educative.io/answers/what-is-unidirectional-data-flow-in-react>

<https://www.geeksforgeeks.org/re-rendering-components-in-reactjs/>