

TechCarrel

PROPS

In React, "props" is a short form of "properties," and it refers to the mechanism for passing data from a parent component to a child component. Props are a fundamental concept in React and are used to make your components dynamic and reusable.

Understanding key points about props

1. **Passing Data:** Props allow you to pass data from a parent component to a child component. This data can be anything, such as values, objects, functions, or even other components.
2. **Immutable:** Props are read-only. Once you pass data to a child component through props, the child component cannot modify the data. This helps maintain data integrity and predictability.
3. **Component Configuration:** Props are used to configure child components. They determine how a component should render and behave based on the data passed in as props.

- **Using class component**

e.g. ParentComponent.js

```
import React from 'react';
import ChildComponent from './ChildComponent';
class ParentComponent extends React.Component {
  render() {
    const name = "naincy"
    const age = 21;
    return (
      <div>
        <ChildComponent name={name} age={age}/>
      </div>
    );
  }
}
export default ParentComponent;
```

ChildComponent.js

```
import React from 'react';
class ChildComponent extends React.Component {
  constructor(props) {
    super(props);
  }
  render() {
    return (
      <div>
        <p>Name: {this.props.name}</p>
        <p>Age: {this.props.age}</p>
      </div>
    );
  }
}
export default ChildComponent
```

- **Using Function Component**

e.g.

ParentComponent.js

```
import React from 'react';
import ChildComponent from './ChildComponent';
function ParentComponent() {
  const name = 'John';
  const age = 25;
  return <ChildComponent name={name} age={age} />;
}
```

Child Component.js

```
import React from 'react';
function ChildComponent(props) {
  return (
    <div>
      <p>Name: {props.name}</p>
      <p>Age: {props.age}</p>
    </div>
  );
}
```

- Sending images or videos

ParentComponent.js

```
import React from 'react';
import ChildComponent from './ChildComponent';
import v1 from './videos/2023-10-29 21-54-32.mp4'
function ParentComponent() {
  const name = 'John';
  const age = 25;
  return <>
    <ChildComponent name={name} age={age} video={v1}/>;
    <ChildComponent name={name} age={age} video={v1}/>;
  </>

}
export default ParentComponent;
```

ChildComponent.js

```
import React from 'react';
function ChildComponent(props) {
  return (
    <div>
      <p>Name: {props.name}</p>
      <p>Age: {props.age}</p>
      <video src={props.video} controls autoplay mute />
    </div>
  );
}
export default ChildComponent;
```