



Passing Data via Props

Props in React

- Short for **properties**
- Mechanism for **passing data**.
- **Read-only** by default

Usage

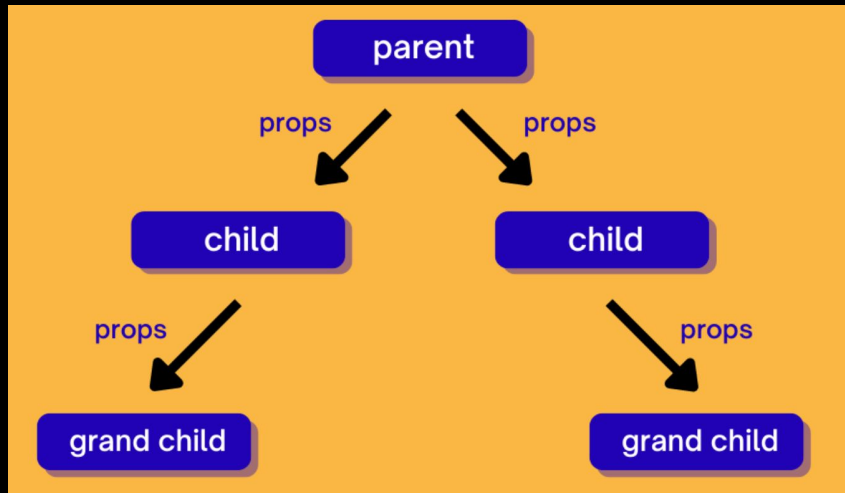
- Pass data from **parent to child component**.
- Makes components **reusable**.
- Defined as **attributes** in JSX.

Key Points

- Data flows **one-way** (downwards).
- Props are **immutable**.
- Used for **communication between components**.

Examples

```
<Header title="My App" />
```





React

Using Props

```
function Heading(props) {  
  return <h1>{props.text}</h1>;  
}  
  
function Paragraph(props) {  
  return <p>{props.content}</p>;  
}  
  
function Button(props) {  
  return <button>{props.label}</button>;  
}
```

```
<>  
  <Heading text="Welcome to My Website" />  
  <Paragraph content="This is a simple  
    paragraph." />  
  <Button label="Click Me" />  
</>
```

1. **Purpose:** Parameters (props) are used to pass data from a parent component to a child component in React.
2. **Access:** In a component, you access these parameters via props.
3. **Dynamic Content:** Props allow components to render dynamic content based on the passed data.



React

Using Props

```
import Button from "../Button";
```

```
const Post = () => {  
  const handleClick = () => {  
    alert("Button clicked!");  
  };  
  
  return (  
    <div>  
      <h2>Post Title</h2>  
      <p>This is a post content.</p>  
      <Button text="Click Me" type="success-btn"  
        onClick={handleClick} />  
    </div>  
  );  
};
```

```
export default Post;
```

```
import "../Button.css";
```

```
const Button = ({ text, type, onClick }) => {  
  return (  
    <button className={type} onClick={onClick}>  
      {text}  
    </button>  
  );  
};
```

```
export default Button;
```

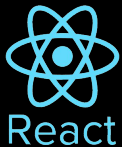




What is Bootstrap

1. **Responsive:** **Mobile-first** design for all device sizes.
2. **Components:** **Pre-styled elements** like buttons and navbars.
3. **Customizable:** **Modify** default styles as needed.
4. **Cross-Browser:** **Consistent** look across browsers.
5. **Open-Source:** **Free** with community support.





Including Bootstrap



Get started any way you want

Jump right into building with Bootstrap—use the CDN, install it via package manager, or download the source code.

[Read installation docs](#) →



Install via package manager

Install Bootstrap's source Sass and JavaScript files via npm, RubyGems, Composer, or Meteor. Package managed installs don't include documentation or our full build scripts. You can also [use any demo from our Examples repo](#) to quickly jumpstart Bootstrap projects.

```
$ npm install bootstrap@5.3.3
```



```
$ gem install bootstrap -v 5.3.3
```



[Read our installation docs](#) for more info and additional package managers.



Include via CDN

When you only need to include Bootstrap's compiled CSS or JS, you can use [jsDelivr](#). See it in action with our simple [quick start](#), or [browse the examples](#) to jumpstart your next project. You can also choose to include Popper and our JS [separately](#).

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist" 
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dis" 
```



Including Bootstrap with CRA

1. Install:

```
npm i bootstrap@5.3.3
```

2. import

```
import 'bootstrap/dist/css/bootstrap.min.css';
```





```
function App() {  
  return (  
    <>  
      <div>hello how are you doing</div>  
      <button className="btn btn-primary">Primary Button</button>  
      <button className="btn btn-secondary">Secondary Button</button>  
      <div className="alert alert-success" role="alert">  
        This is a success alert!  
      </div>  
      <div className="card" style={{ width: '18rem' }}>  
        <div className="card-body">  
          <h5 className="card-title">Card Title</h5>  
          <p className="card-text">Some quick example text to  
            build on the card title and make up the bulk of the  
            card's content.</p>  
          <a href="#" className="btn btn-primary">Go somewhere</a>  
        </div>  
      </div>  
    </>  
  )  
}
```

hello how are you doing

Primary Button

Secondary Button

This is a success alert!

Card Title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere