

# Passing Data with Props

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In this lecture, we will learn how to pass data to components using props. Props allow components to be dynamic and reusable.

## What are Props?

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Props (short for “properties”) are a way of passing data from a parent component to a child component. They make components more flexible because the same component can display different content depending on the props it receives.

## Example: Card Component

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Let’s create a simple `Card` component inside the `src` folder:

```
function Card(props) {  
  return (  
    <div style={{ border: "1px solid gray", padding: "10px", margin: "10px" }}>  
      <h3>{props.title}</h3>  
      <p>{props.description}</p>  
    </div>  
  )  
}  
  
export default Card
```

Here, `Card` accepts `title` and `description` as props and displays them.

## Using the Card Component

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Now open `App.jsx` and use the `Card` component:

```
import Card from "../Card"

function App() {
  return (
    <div>
      <Card title="React Basics" description="Learn the fundamentals of React." />
      <Card title="Props in React" description="Understand how to pass data into
components." />
    </div>
  )
}

export default App
```

Each `Card` is the same component, but it displays different content based on the props passed.

## Props Are Read-Only

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It's important to note that props are **read-only**. A component should never change its props. Instead, they should be used to display or work with the data received from the parent component.

## Recap

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- Props allow you to pass data into components.
- Props make components reusable and dynamic.
- Props are read-only and should not be modified inside the component.