

Credits: https://www.w3schools.com/REACT/react_props.asp

React Props

Props are arguments passed into React components.

Props are passed to components via HTML attributes.

`props` stands for properties.

React Props

React Props are like function arguments in JavaScript *and* attributes in HTML.

To send props into a component, use the same syntax as HTML attributes:

Example

Add a "brand" attribute to the Car element:

```
const myElement = <Car brand="Ford" />;
```

The component receives the argument as a `props` object:

Example

Use the brand attribute in the component:

```
function Car(props) {  
  return <h2>I am a { props.brand }!</h2>;  
}
```

Pass Data

Props are also how you pass data from one component to another, as parameters.

Example

Send the "brand" property from the Garage component to the Car component:

```
function Car(props) {  
  return <h2>I am a { props.brand }!</h2>;  
}  
  
function Garage() {  
  return (  
    <>  
      <h1>Who lives in my garage?</h1>  
      <Car brand="Ford" />  
    </>  
  );  
}  
  
const root = ReactDOM.createRoot(document.getElementById('root'));  
root.render(<Garage />);
```

If you have a variable to send, and not a string as in the example above, you just put the variable name inside curly brackets:

Example

Create a variable named `carName` and send it to the `Car` component:

```
function Car(props) {  
  return <h2>I am a { props.brand }!</h2>;  
}
```

```
function Garage() {  
  const carName = "Ford";  
  return (  
    <>  
    <h1>Who lives in my garage?</h1>  
    <Car brand={ carName } />  
    </>  
  );  
}  
  
const root = ReactDOM.createRoot(document.getElementById('root'));  
root.render(<Garage />);
```

Or if it was an object:

Example

Create an object named `carInfo` and send it to the `Car` component:

```
function Car(props) {  
  return <h2>I am a { props.brand.model }!</h2>;  
}  
  
function Garage() {  
  const carInfo = { name: "Ford", model: "Mustang" };  
  return (  
    <>  
    <h1>Who lives in my garage?</h1>  
    <Car brand={ carInfo } />  
    </>  
  );  
}
```

```
);  
}  
  
const root = ReactDOM.createRoot(document.getElementById('root'));  
root.render(<Garage />);
```

Note: React Props are read-only! You will get an error if you try to change their value.