

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:

Example to run in html Page directly:-

```
<!DOCTYPE html>

<html>

  <head>

    <script src="https://unpkg.com/react@18/umd/react.development.js"
crossorigin></script>

    <script src="https://unpkg.com/react-dom@18/umd/react-
dom.development.js" crossorigin></script>

    <script
src="https://unpkg.com/@babel/standalone/babel.min.js"></script>

  </head>

  <body>

<div id="root"></div>

<script type="text/babel">

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 />);

</script>
</body>
</html>
```

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:

```
import React from 'react';
import ReactDOM from 'react-dom/client';
```

```
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 />);
```

in html code page directly :-

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script src="https://unpkg.com/react@18/umd/react.development.js" crossorigin></script>
```

```
<script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"
crossorigin></script>
```

```
<script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>
```

```
</head>
```

```
<body>
```

```
<div id="root"></div>
```

```
<script type="text/babel">
```

```
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 />);
</script>

```

```
</body>
```

```
</html>
```

Or if it was an object:

Example

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

```

import React from 'react';
import ReactDOM from 'react-dom/client';

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 />);
```

or directly urn in html page code example :-

```
<!DOCTYPE html>

<html>

  <head>

    <script src="https://unpkg.com/react@18/umd/react.development.js" crossorigin></script>

    <script src="https://unpkg.com/react-dom@18/umd/react-dom.development.js"
crossorigin></script>

    <script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>

  </head>

  <body>

    <div id="root"></div>

    <script type="text/babel">
```

```
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 />);
```

```
</script>
```

```
</body>
```

```
</html>
```