

Understand Higher Order Functions First

```
//Function Creation
function add (a, b) {
  return a + b
}
function higherOrder(a, addReference) {
  return addReference(a, 20)
}
//Function call
higherOrder(30, add) // 50
```

The function you are passing (**add**), is called a callback function, and the function where you are passing the callback function(**higherOrder**) is called a higher-order(HOCs) function.

Higher Order Component example

HOC.js

```
import React, {Component} from 'react';

export default function Hoc(HocComponent){
  return class extends Component{
    render(){
      return (
        <div>
          <HocComponent> </HocComponent>
        </div>
      );
    }
  }
}
```

App.js

```
import React, { Component } from 'react';
import Hoc from './HOC';

class App extends Component {
  render() {
    return (
      <div>
        <h2>HOC Example</h2>
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      </div>
    )
  }
}

App = Hoc(App);
export default App;
```