

Higher Order Components

What is that?

A component that takes in another component as an argument.
Just **like higher order functions** take in other functions as an argument.

Syntax:

```
const NewComponent = higherOrderComponent(WrappedComponent);
```

Why?

- You can pass another component inside as argument to **re-use** functions or render something again, without having to recreate another component
- Encourages reusability

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.