

MINI WORKSHOP

HIGHER ORDER COMPONENT

REPOSITORY

- ▶ <https://github.com/aofleejay/higher-order-component-workshop>
- ▶ ``npm install`` or ``yarn``
- ▶ ``npm start`` or ``yarn start``

WHAT IS HIGHER ORDER COMPONENT

- ▶ Function that takes a component and returns new components
- ▶ `const NewComponent = HOC(WrappedComponent)`

WHY HOC?

- ▶ Separate logic and component
- ▶ Reuse HOC logic

EXAMPLE USAGE

- ▶ react-cookie - withCookies
- ▶ NewComponent = withCookies(WrappedComponent)

EXAMPLE USAGE

- ▶ Redux - connect
- ▶ `ConnectedComponent = connect(
 mapStateToProps,
 mapDispatchToProps,
)(WrappedComponent)`

WORKSHOP

▶ `WithLoadingComponent = withLoadingHOC(Component)`

EXPORT COMPONENT WITH HOC

► src/components/CommentList.js

```
import React, { Component } from 'react'
import withLoading from '../hocs/withLoading'

class CommentList extends Component {
  render() {
    return (
      ...
    )
  }
}

export default withLoading(CommentList)
```


CREATE WITH LOADING HOC

► src/hocs/withLoading.js

```
import React, { Component } from 'react'
import Loading from '../components/Loading'

const withLoading = (WrappedComponent) => {
  return class ComponentWithLoading extends Component {
    render() {
      return this.props.comments.length === 0 ? <Loading /> :
<WrappedComponent {...this.props} />
    }
  }
}

export default withLoading
```

BUT WE CAN'T REUSE HOC

► src/hocs/withLoading.js

```
import React, { Component } from 'react'
import Loading from '../components/Loading'

const withLoading = (WrappedComponent) => {
  return class ComponentWithLoading extends Component {
    render() {
      return this.props.comments.length === 0 ? <Loading /> :
<WrappedComponent {...this.props} />
    }
  }
}

export default withLoading
```

MAKE HOC REUSABLE

► src/components/CommentList.js

```
export default withLoading('comments')(CommentList)
```

MAKE HOC REUSABLE

► src/hocs/withLoading.js

```
const withLoading = (propName) => (WrappedComponent) => {  
  return class ComponentWithLoading extends Component {  
    render() {  
      return this.props[propName].length === 0 ? <Loading /> :  
      <WrappedComponent {...this.props} />  
    }  
  }  
}
```

FEEDBACK

- ▶ https://docs.google.com/forms/d/1N2pAXowPhpCHF2NUERb-O42Us-Fmuh5IE1Eu3sAP_kU/edit