

Higher Order Components (HOC)

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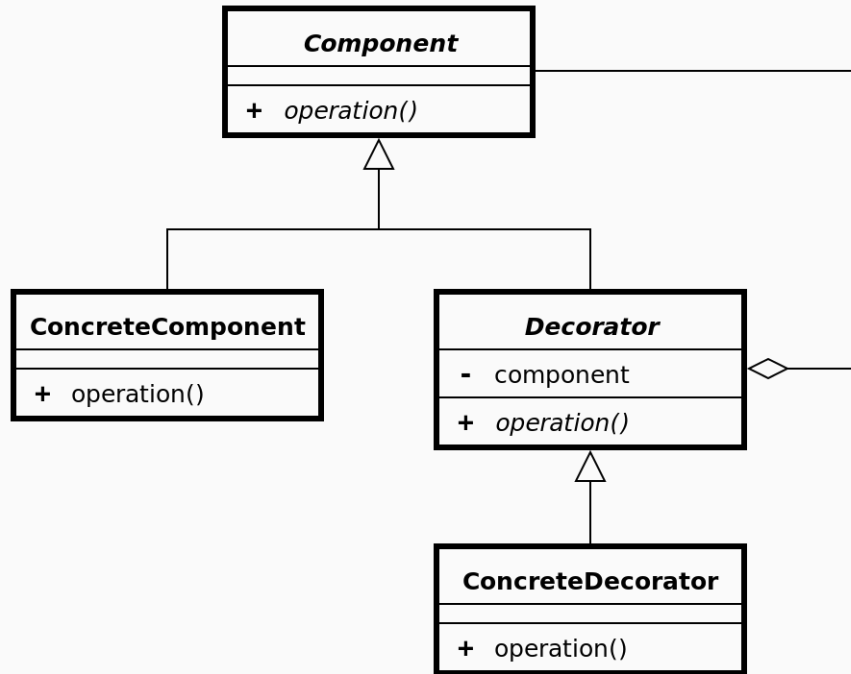
¿Qué son?

Composiciones

```
hocFactory:: W: React.Component => E: React.Component
```

W: Wrapped Component
E: Enhanced Component

¿Qué son?



¿Para qué englobar?

1. Props Proxy
2. Inheritance Inversion

Props Proxy

```
1 function ppHOC(WrappedComponent) {  
2   return class PP extends React.Component {  
3     render() {  
4       const newProps = {  
5         user: currentLoggedInUser  
6       }  
7       return <WrappedComponent {...this.props} {...newProps}/>  
8     }  
9   }  
10 }
```

pp.js hosted with ♥ by GitHub

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<https://gist.github.com/sebmarkbage/ef0bf1f338a7182b6775>

Inheritance Inversion

```
1 function iiHOC(WrappedComponent) {  
2   return class Enhancer extends WrappedComponent {  
3     render() {  
4       return super.render()  
5     }  
6   }  
7 }
```

ii.js hosted with ♥ by [GitHub](#)

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Inheritance Inversion

Render Hijacking: editar, eliminar, agregar props de Wrapped a componente nuevo, vs PropsProxy donde sólo pasamos o agregamos props a Wrapped

Manipulating State: leer, editar, eliminar el estado de los componentes

Tener en cuenta

Parent-Children:

- HOC: wrapped “sabe” lo que le pasan, no se crea hasta el final
- Child: no sabe lo que le pasan, se crea antes
- HOC: no usa cloneElement al agregar props porque no es necesario duplicar el elemento, no se ha creado
- HOC: puede ocurrir fuera de render

Naming

Usos reales de HOC

- Radium (inline styling), pseudo selectors, usa render hijacking para agregar EventListeners (nuevos props)
- Realestate.com.au
- Connect de React-Redux

Referencias

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- <http://natpryce.com/articles/000814.html>
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