

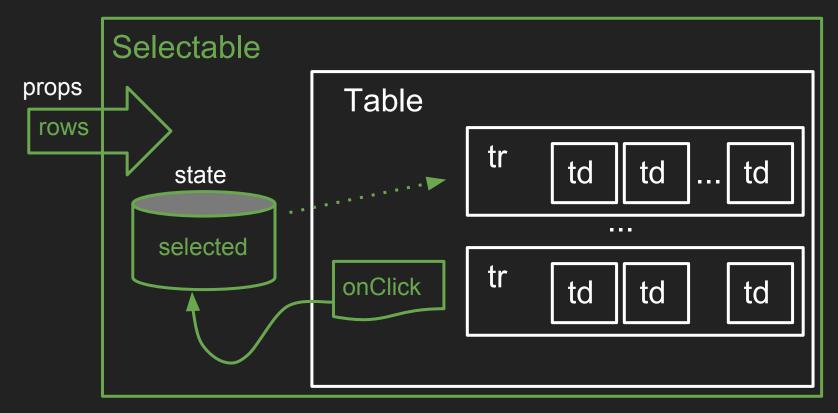
Picanteverde (aka Alejandro Hernández)





# Assignment





### Props

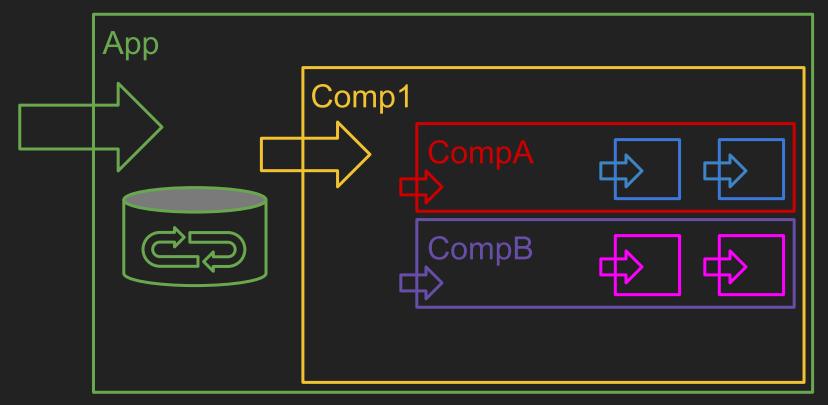
### State



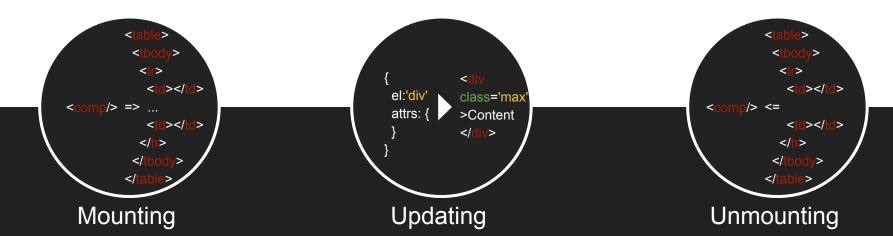
- Data coming the parent element
- As attributes in JSX
- Changes not necessarily trigger a re render
- All data needed (optional props)

- Data that changes overtime
- Every change triggers a re render
- Minimal amount of data





### Component Lifecycle

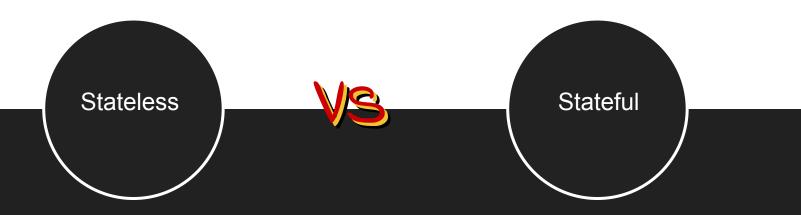


- insert into the DOM
- getInitialState()
- componentWillMount()
- componentDidMount()

- Re rendering to VDOM
- componentWillReceiveProps(nextProps)
- shouldComponentUpdate(nextProps, nextState)
- componentWillUpdate(nextProps, nextState)
- componentDidUpdate(prevProps, prevState)

- removing from the DOM
- componentWillUnmount()

### Components



- Simpler
- Only receive Props
- changing the props trigger a re render

- Complex
- have State
- changes in the state trigger a re render
- keep props and state in synch



# Forms

### Form elements props

```
<input type="text" value={val} /> <textarea value={val} />
<input type="checkbox" checked={true} />
<input type="radio" checked={true} />
<select>
 <option selected={true} /></option>
</select>
```

Form elements on Change event

```
<input type="text" onChange={handleOnChange} />
handleOnChange(evt){
  console.log(evt.target.value);
}
```

### Form Components



- control the value
- onChange
- act between the event and the value

- maintain their own internal state
- onChange



# Refs

# React.js

Getting references to my instances with the ref attribute

```
<AddNewForm ref={(ref) => {
    this.myInstanceRef = ref;
}} />
```

Allows me to call methods defined on the class



### Server side



# This is not a node.js course

but...



### Ajax?

- XMLHttpRequest
- jQuery.ajax
- Fetch API https://developer.mozilla.org/en-US/docs/Web/API/Fetch\_API
- Axios (get used to Promises)



Axios

\$ npm install --save axios

import axios from 'axios';

```
axios.post(url, data).then((response) => {
  console.log(response.data);
});
```



When?

For initialization - componentDidMount

On every change





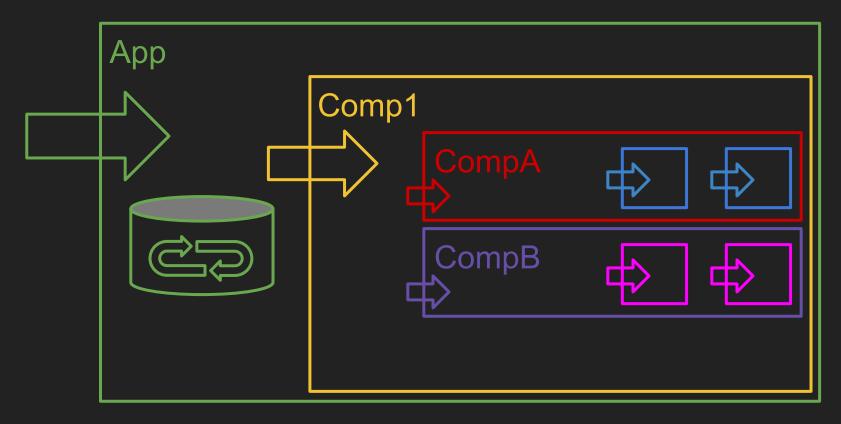
- Allow us to render a component depending on the browser's route
- Parse parameters and inject them as props
- browser history API

```
$ npm install --save react-router
import { Router, Route, hashHistory } from 'react-router';
```

```
ReactDom.render(
     <Router history={hashHistory}>
          <Route path='/' component={App} />
           </Router>, document.getElementById('start'));
```

We could add more screens like this





```
<div>
{this.props.children}
</div>
```

```
<Link
to={op.url}
activeStyle={{ color: 'red' }}
>
{op.label}
</Link>
```

```
contextTypes: {
 router: PropTypes.object.isRequired
edit: function () {
 let route = '/edit/' + this.state.selected;
 this.context.router.push(route);
```