Introductory React.

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What is it?

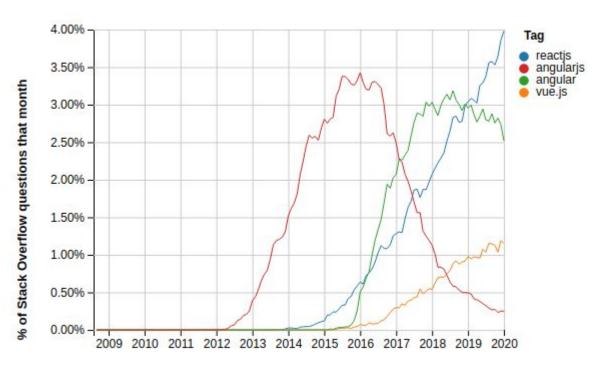
A Javascript library created by facebook to:

- Build fast and interactive user interfaces

- A front end technology (runs on the browser)

What is it?

- The most popular front-end framework



Year

Components

The building blocks



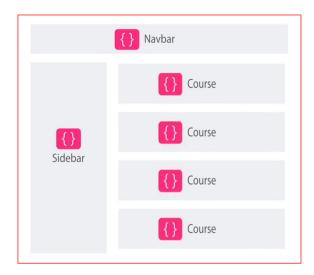
- A piece of the UI
- Independent
- Isolated
- Reusable

```
<div>
<NavBar></NavBar>
<Item></Item>
</div>
```

Complex UI with simple pieces



Root component



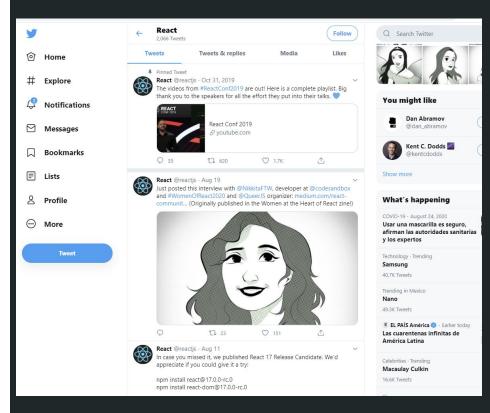
Every react app has at least one component called Root Component

Represents the entire application and contain other Child Components



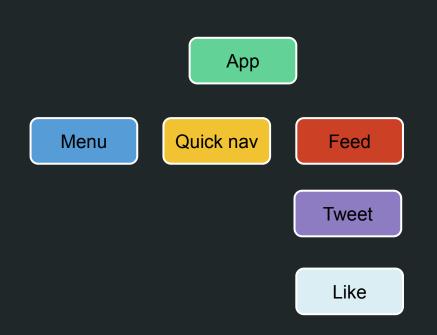
Every React app is basically a

Component Tree



Every React app is basically a

Component Tree



Class Component

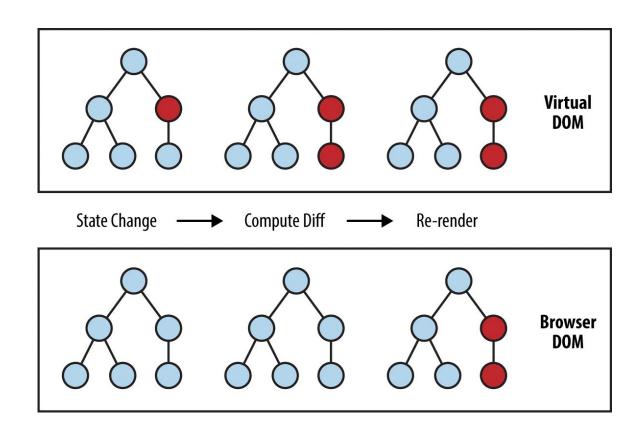
Implementation

```
import React, { Component } from 'react';
Unsaved changes (cannot determine recent change or authors)
class NavBar extends Component {
   render() {
       return (
           <nav className="navbar navbar-expan</pre>
              <l
                  Menu 1
                  Menu 2
                  Menu 3
              </nav>
export default NavBar;
```

Virtual DOM

Virtual DOM is in-memory representation of the Real DOM.

It is a lightweight JavaScript object which is a copy of the Real DOM.

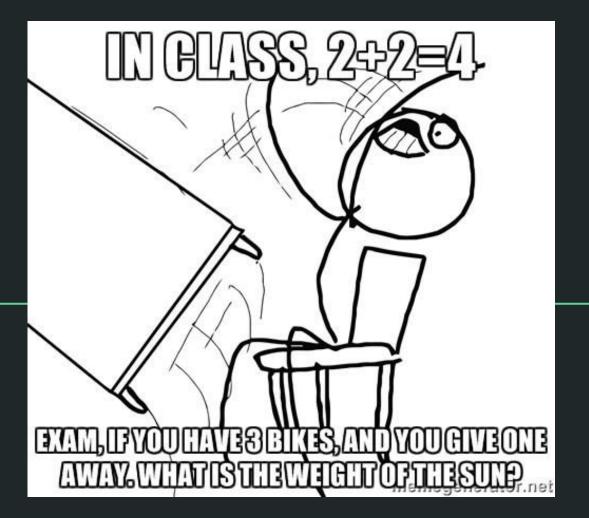


Virtual DOM

- No need to query DOM to access elements
 No more: document.getElementByIDI
- 2. Simple change the state of the components
- 3. And React will automatically update the DOM to match the state

The UI reacts to state changes

Time to practice



Implement

- Increase
- Decrease
- Don't allowed less than zero



Components lifecycle

Let hang from the hooks

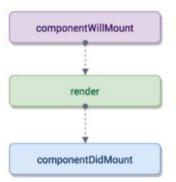
Initialization

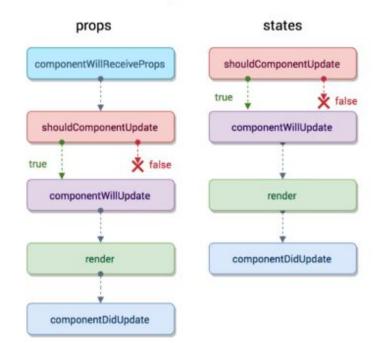
Mounting

Updation

Unmounting

setup props and state





componentWillUnmount