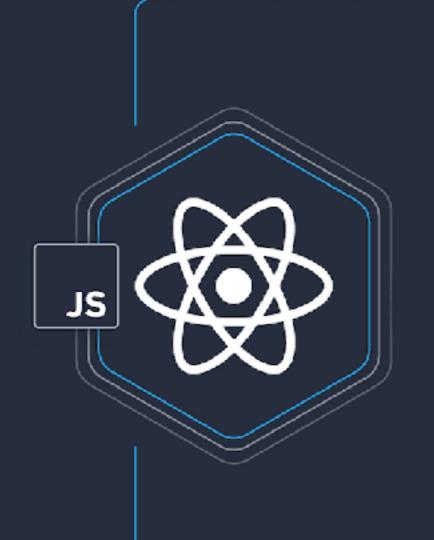
# LECTURE 1





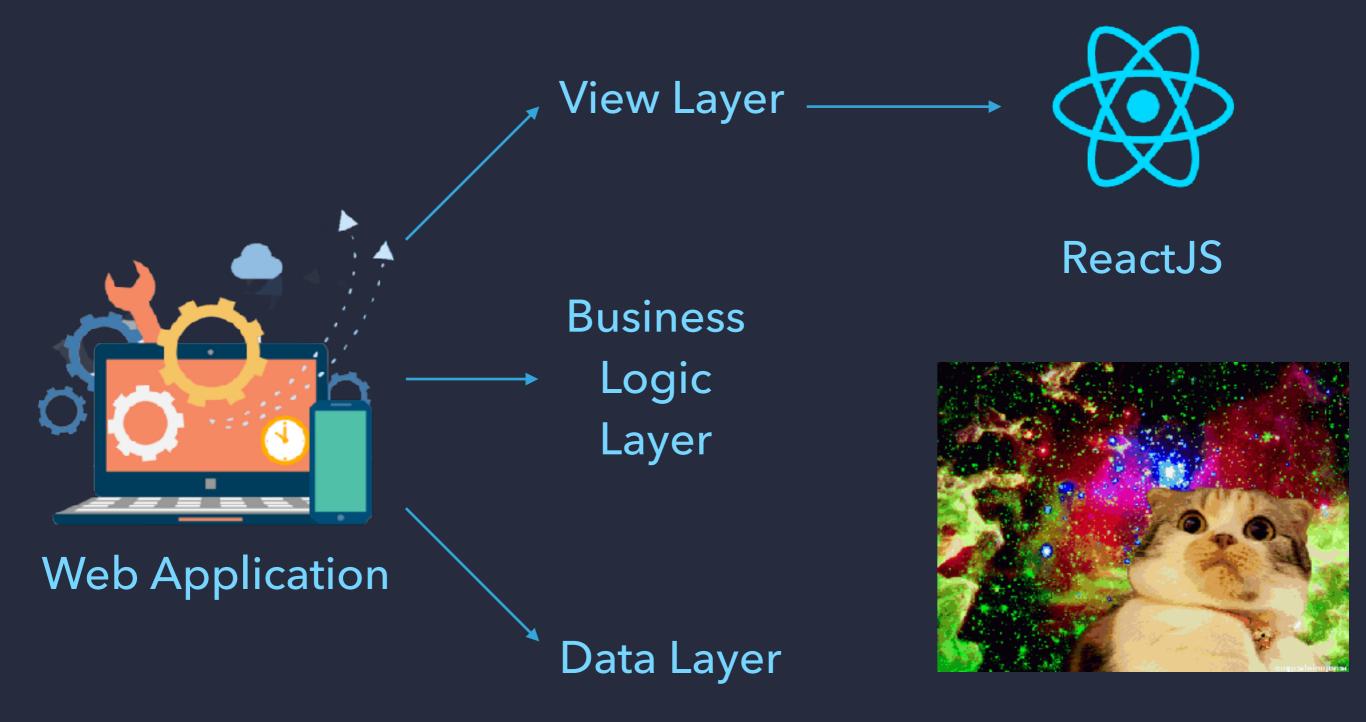
What is ReactJS?

What the heck is JSX?

Virtual DOM and Reconciliation

A&D

# WEB APPLICATION STRUCTURE





React JS



Library

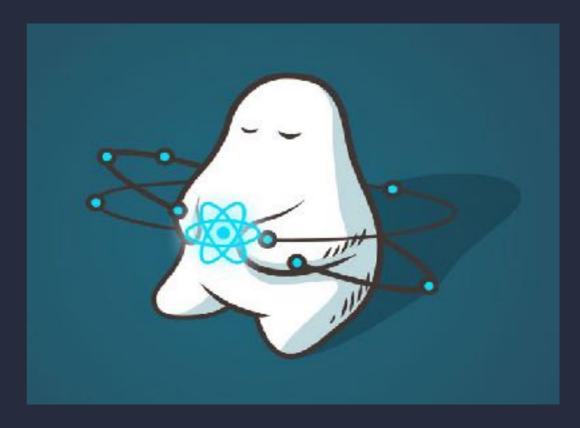
#

# Angular

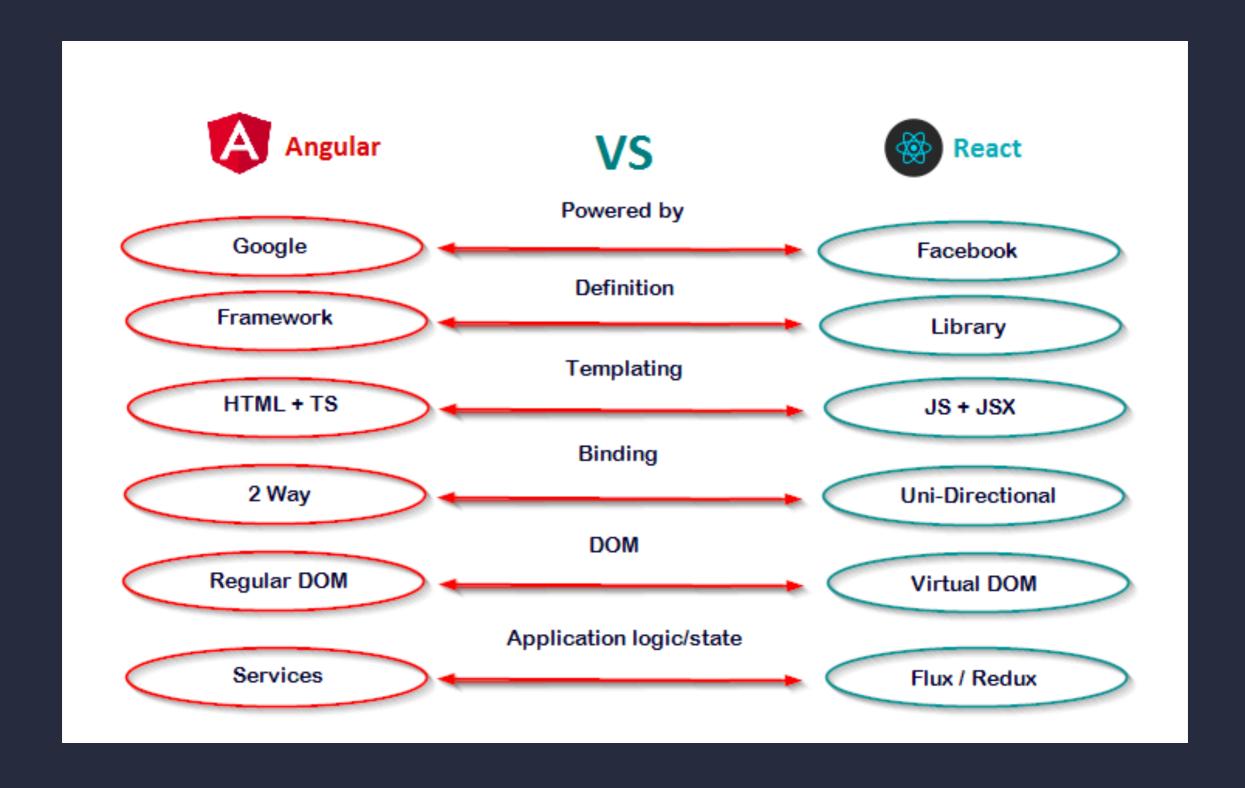


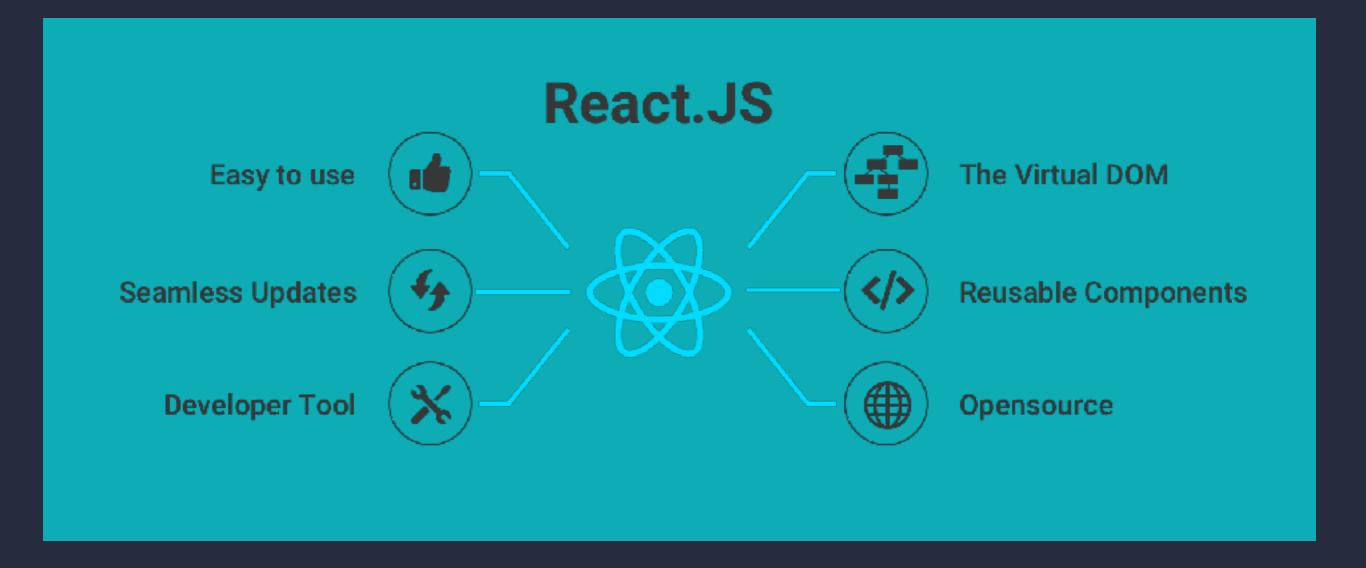
Framework

#### React JS



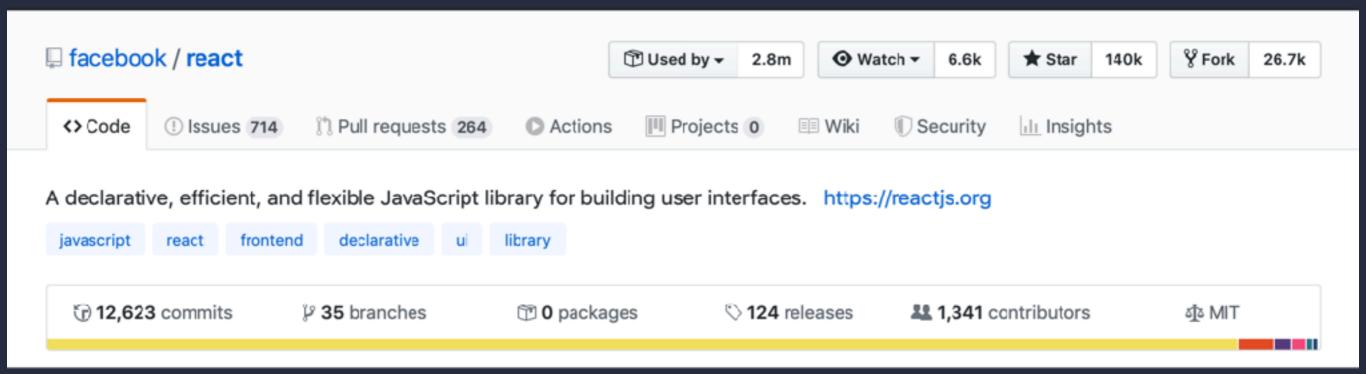
Library





# https://github.com/facebook/react





#### CREATE REACT APP

npm start

```
# npx create-react-app new-app
# cd new-app
```

#### WHAT THE HECK IS JSX?



JS + XML (syntax extension to JavaScript)

#### WHAT THE HECK IS JSX?

```
function formatName(user) {
  return user.firstName + ' ' + user.lastName;
const user = {
  firstName: 'Harper',
  lastName: 'Perez'
};
const element = (
 <h1>
   Hello, {formatName(user)}!
 </h1>
);
ReactDOM.render(
  element,
  document.getElementById('root')
```

# Babel compiles JSX to React.createElement()

```
const element = (
  <h1 className="greeting">
    Hello, world!
  </h1>
);
```

```
const element = React.createElement(
   'h1',
   {className: 'greeting'},
   'Hello, world!'
);
```

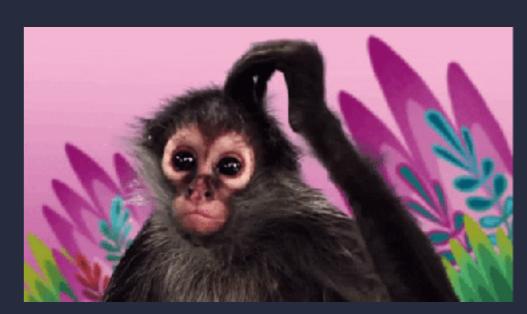
# Render from js variable

# Render list (array of data) using .map

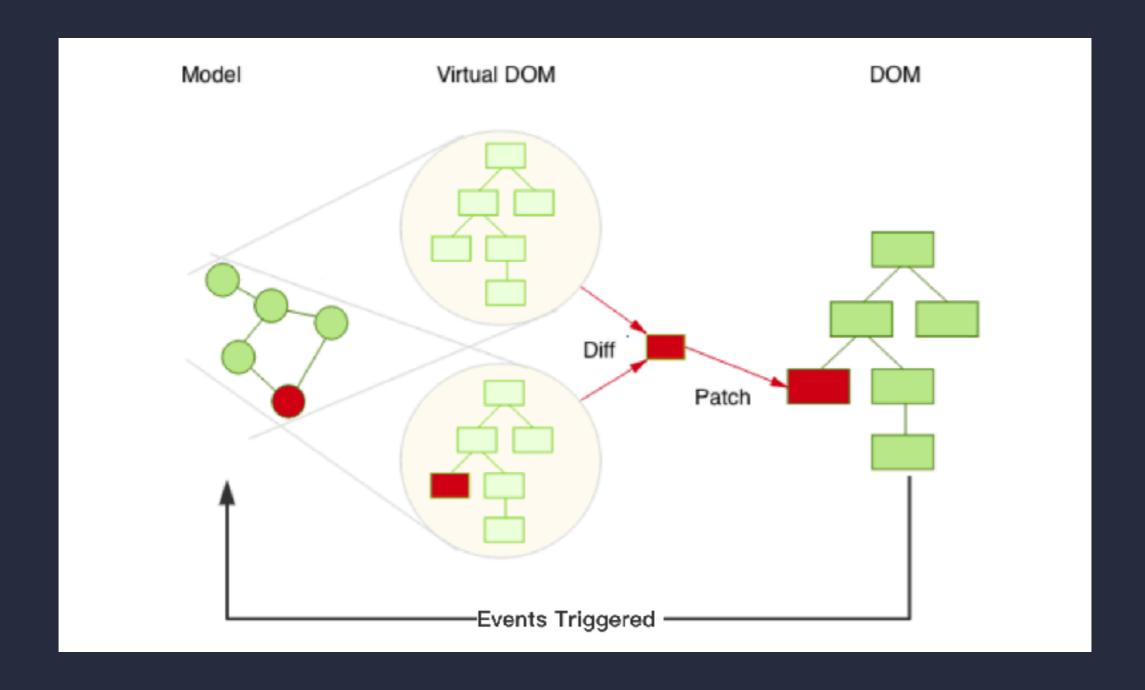
# Render using function

#### Render list of elements

# THE **REACT-DOM** PACKAGE PROVIDES DOM-SPECIFIC METHODS THAT CAN BE USED AT THE TOP LEVEL OF YOUR APP



# VIRTUAL DOM



# Time for external example



https://illustrated.dev/react-vdom

https://medium.com/@js\_tut/react-animated-tutorial-7a46fa3c2b96





#### RECONCILIATION - RECOMMENDED VIDEO

