



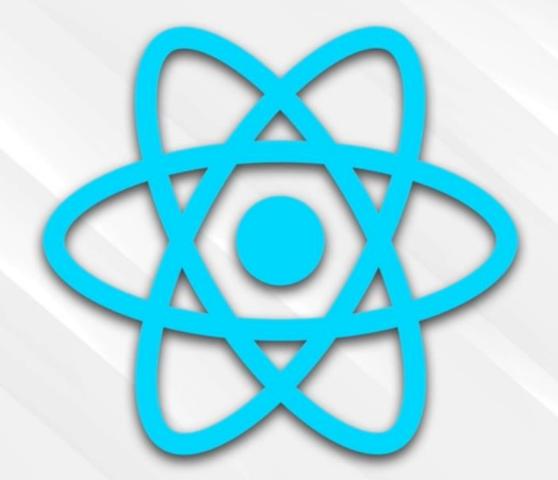
LECTURE 1

Key Concepts

Before React

Why React?

UI Layer



Declarative

Unidirectional Data Flow

Component Architecture

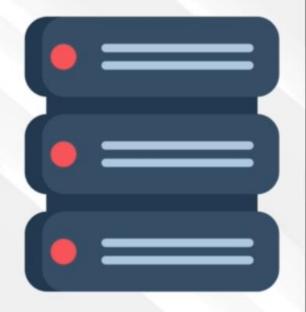
TRADITIONALLY...





TRADITIONALLY...





TRADITIONALLY...



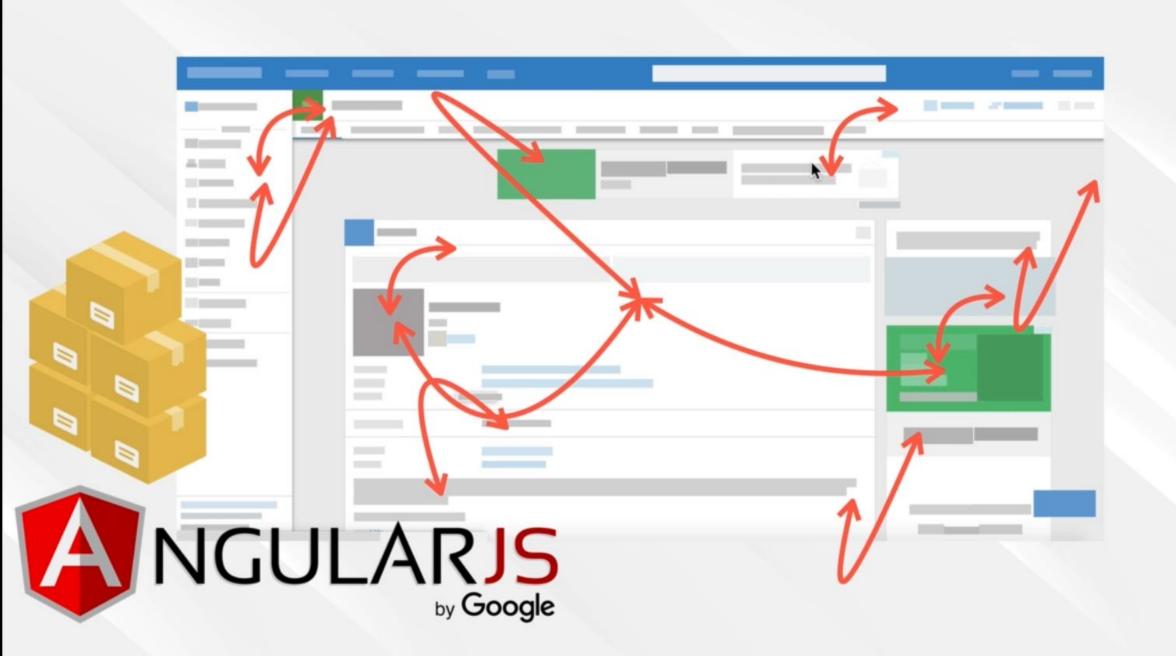




John Resig





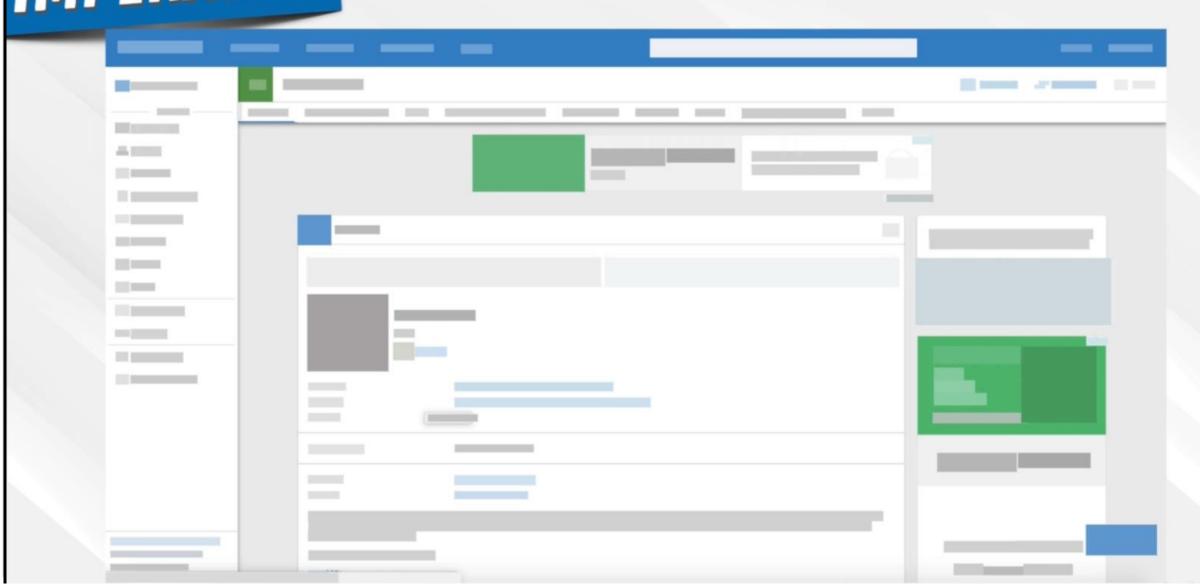


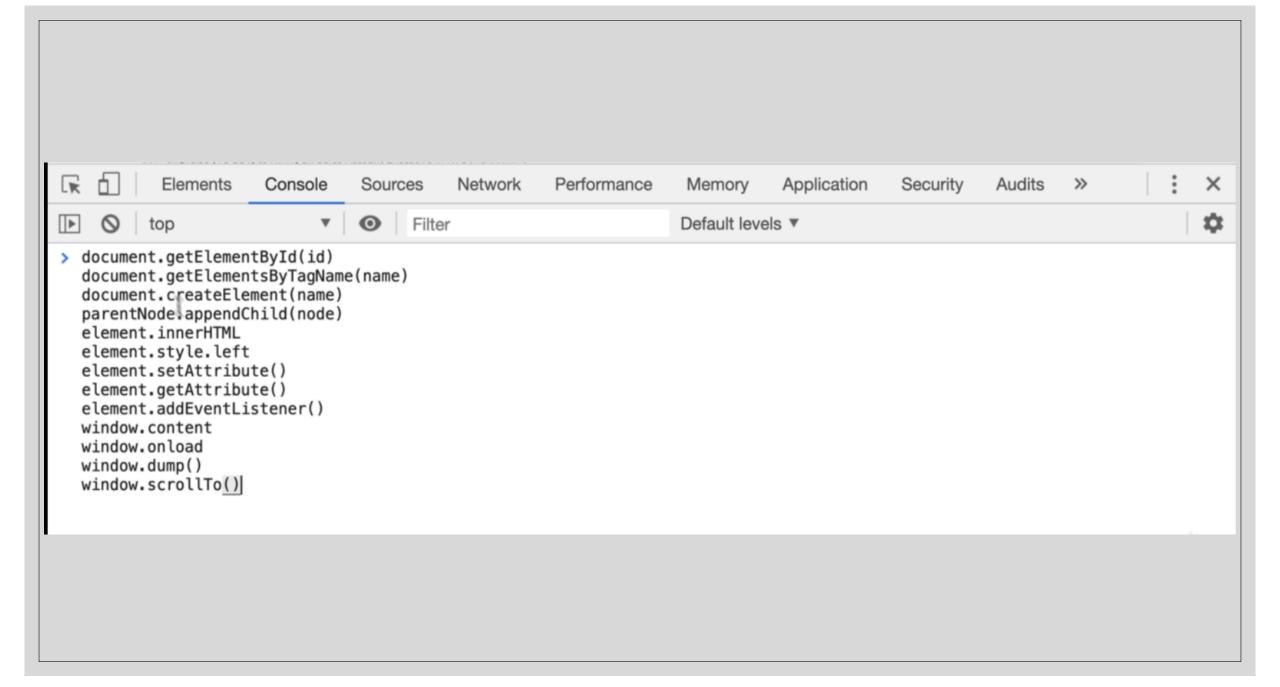


Why is React so popular?

1. Don't touch the DOM. I'll do it







DECLARATIVE

```
let state = {
                                                                                                      user: 'Andrei Neagoie',
    isLoggedIn: True,
   friends: ['Pavel', 'Matt', 'Joy']
                                     ---
                                     Page should look like this
```

1. Don't touch the DOM. I'll do it

2. Build websites like lego blocks

COMPONENTS

```
let state = {
   user: 'Andrei Neagoie',
                                                                                                                                _____
   isLoggedIn: True,
   friends: ['Pavel', 'Matt', 'Joy']
                                              ---
                                              function Welcome(props) {
                                                100
   return <h1 Hello, {props.name}</h1>;
class Welcome extends React.Component {
  render() {
    return <h1>Hello, {this.props.name}</h1>;
             GET 100 FREE LEADS NOW
```

1. Don't touch the DOM. I'll do it

2. Build websites like lego blocks

3. Unidirectional data flow

WHY REACT?

State

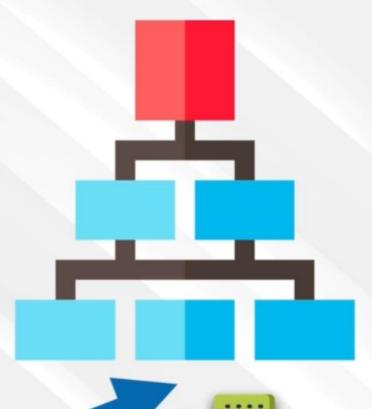
Components

<h2>Good to see you here.</h2>

VirtualDOM



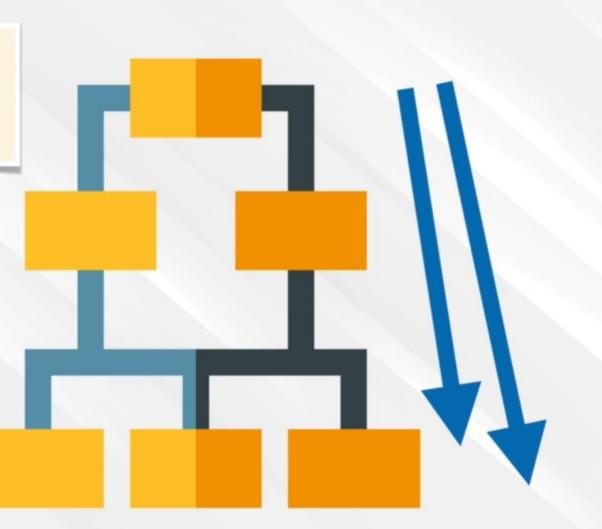
JSX



function React(state, components) {

ONE WAY DATA FLOW

```
let state = {
    user: 'Andrei Neagoie',
    isLoggedIn: True,
    friends: ['Pavel', 'Matt', 'Joy']
}
```



1. Don't touch the DOM. I'll do it

2. Build websites like lego blocks

3. Unidirectional data flow

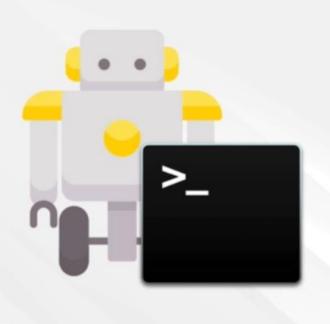
4. UI, The rest is up to you

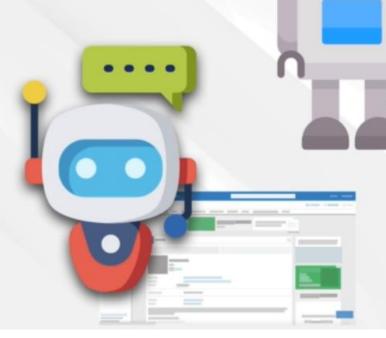
REACT EVERYWHERE











THE JOB OF A REACT DEVELOPER

1. Decide on Components



2. Decide the State and where it lives



3. What changes when state changes



Activity # 1