

React.js: Getting Started

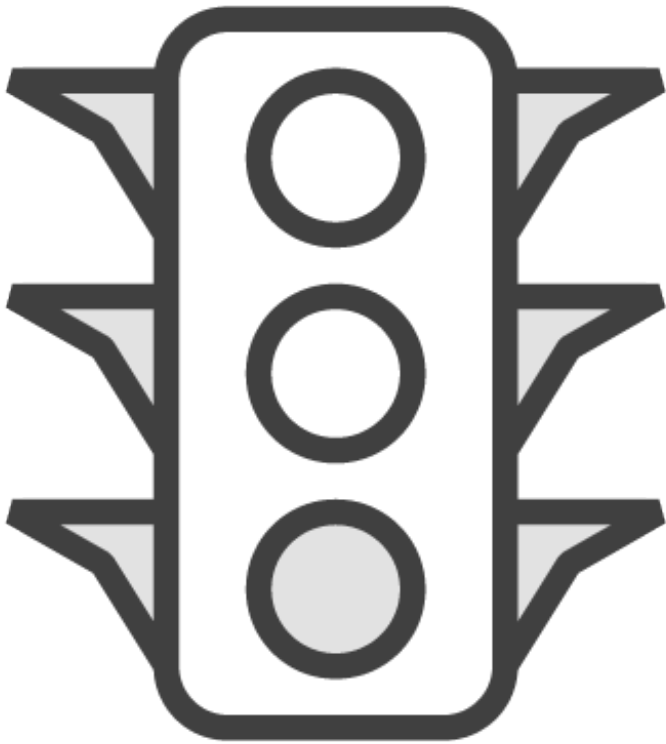
INTRODUCTION



Samer Buna

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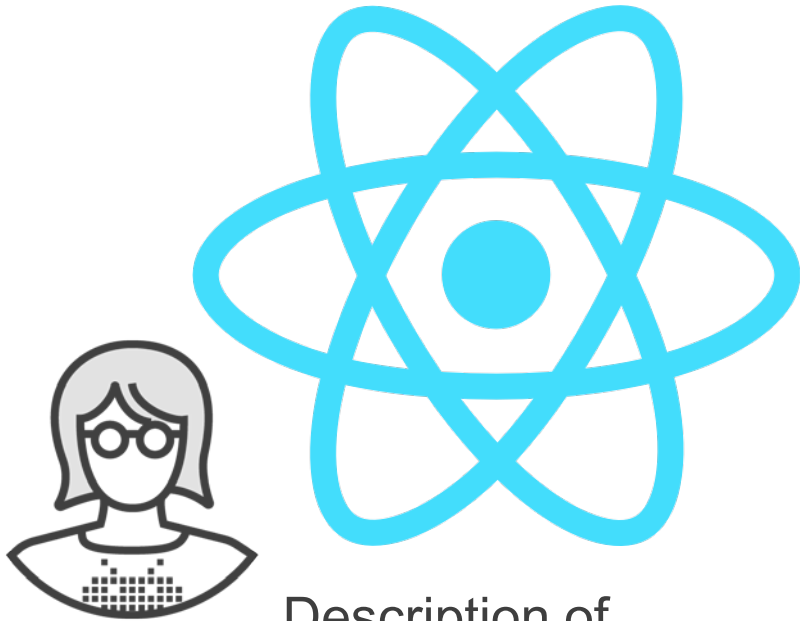


Basics of JavaScript

- Variables (const/let)
- Classes and functions
- Loops and conditionals

Interactive Labs

- jscomplete.com/learn-javascript

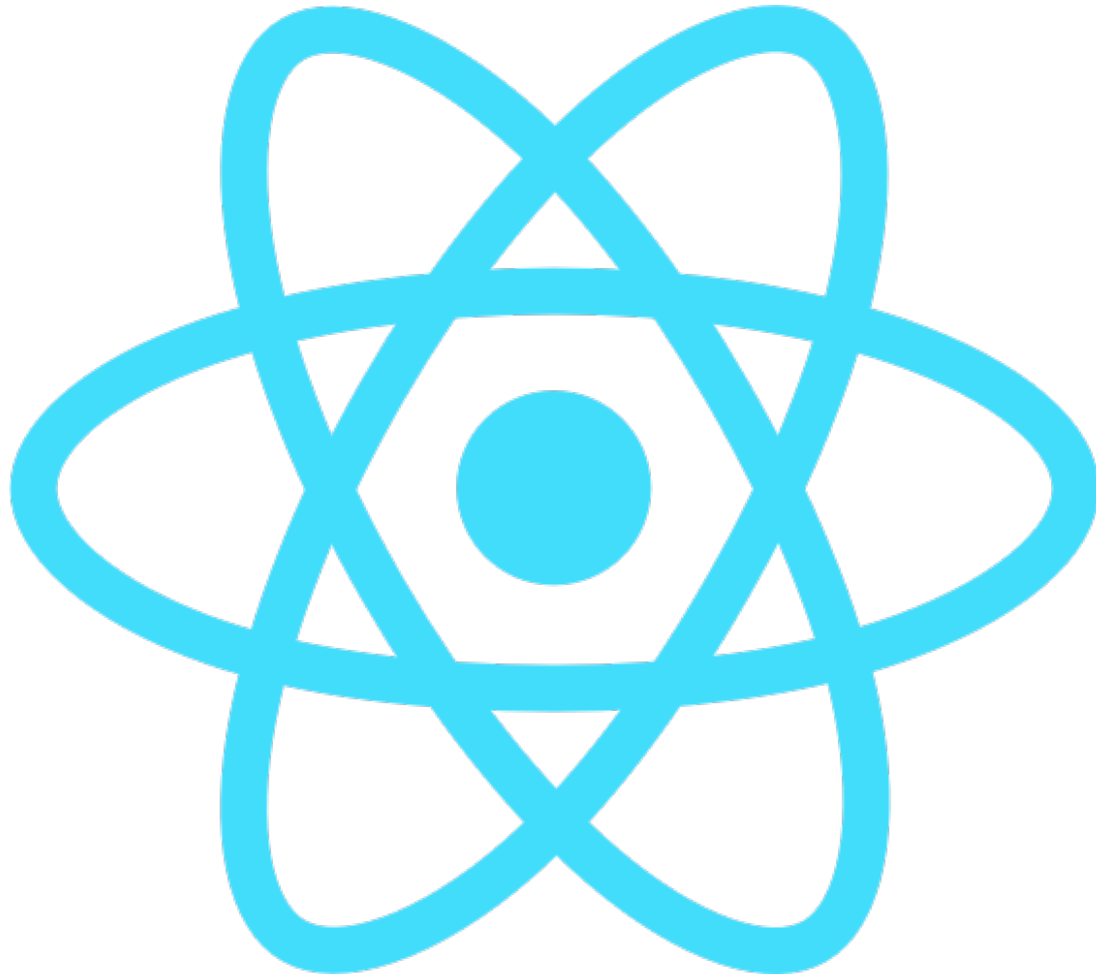


Description of
User Interface

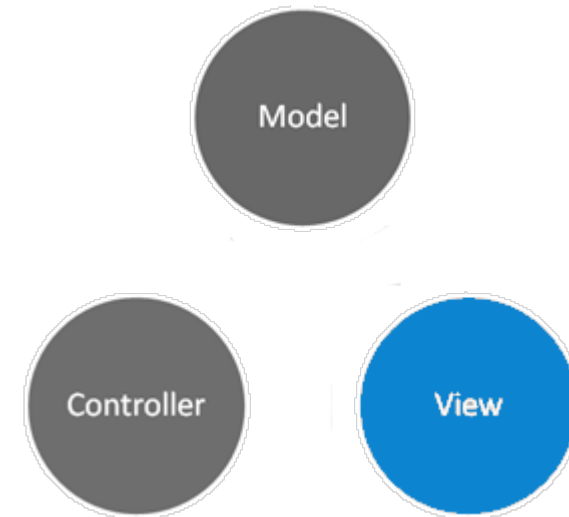
Actual User Interface

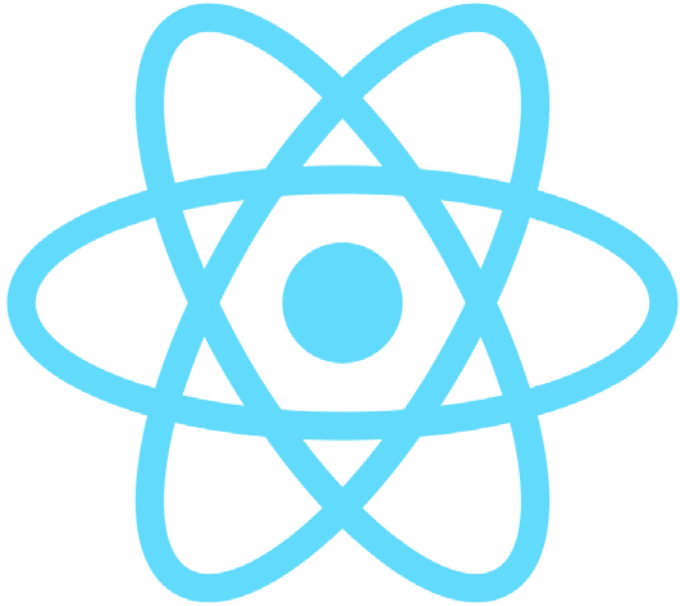


React.js



A JAVASCRIPT LIBRARY
FOR BUILDING USER
INTERFACES





Components

- Like functions
- Reusable and composable
- Can manage a private state

Reactive updates

- React will react
- Take updates to the browser

Virtual views in memory

- Write HTML in JavaScript
- Tree reconciliation

React Components

Function Component

Class Component



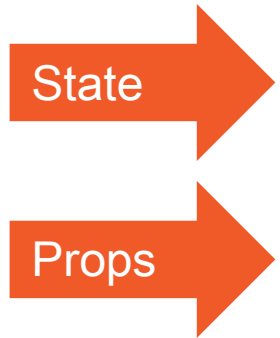
Function Component



```
const MyComponent = (props) => {  
  return (  
    <elementOrComponent ../>  
  );  
}
```



Class Component



```
class MyComponent extends React.Component {  
  render () {  
    return (  
      <elementOrComponent ../>  
    );  
  }  
}
```



Virtual DOM and JSX

```
class Hello extends React.Component {  
  
  render () {  
  
    return (  
  
      <div className="container">  
  
        <h1>Getting Started</h1>  
  
      </div>  
  
    );  
  
  }  
  
}
```

ReactDOM.render(<Hello />, mountNode);

```
class Hello extends React.Component {  
  
  render () {  
  
    return (  
  
      React.createElement("div",  
  
        { className: "container"},  
  
      React.createElement("h1", null, "Getting Started")  
  
    )  
  
  };  
  
}  
  
}
```

ReactDOM.render(React.createElement(Hello, null), mountNode);



Summary



jsComplete Playground

Components

- props
- state

JSX and the Virtual DOM

Function and class components

ReactDOM.render(..., mountNode)

React Events

