React

A FRONTEND LIBRARY

REACT- A FrontEnd Library

Developed By Google @ 2009
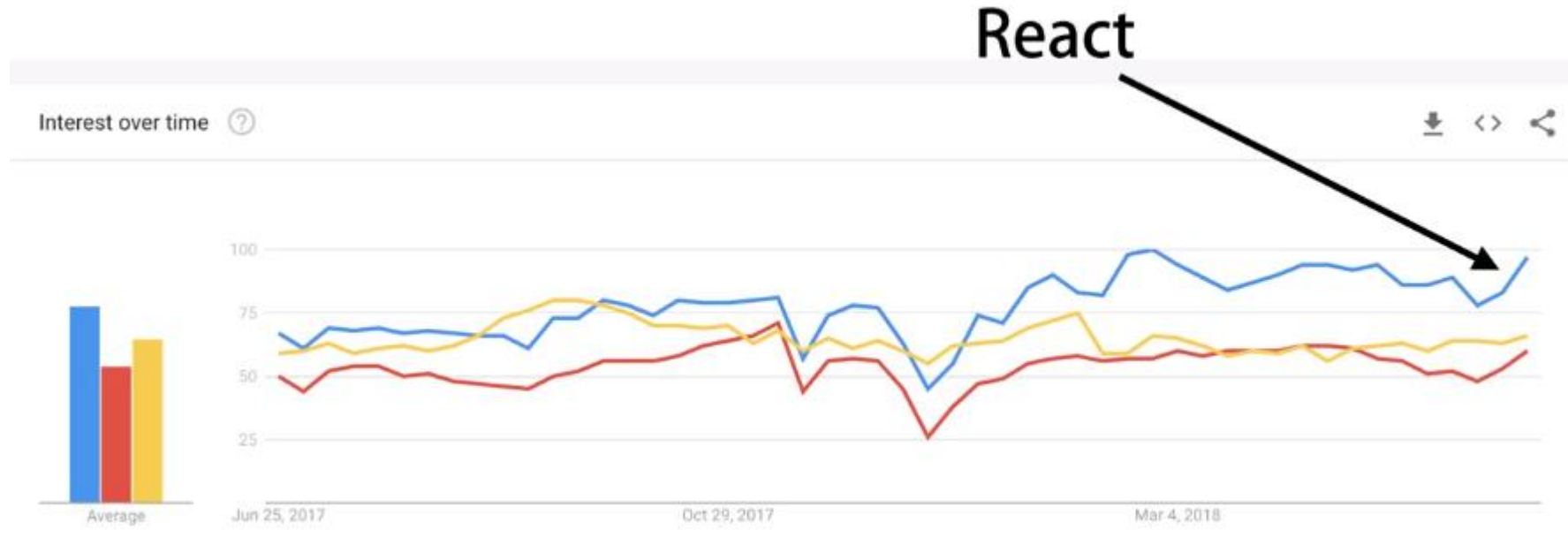
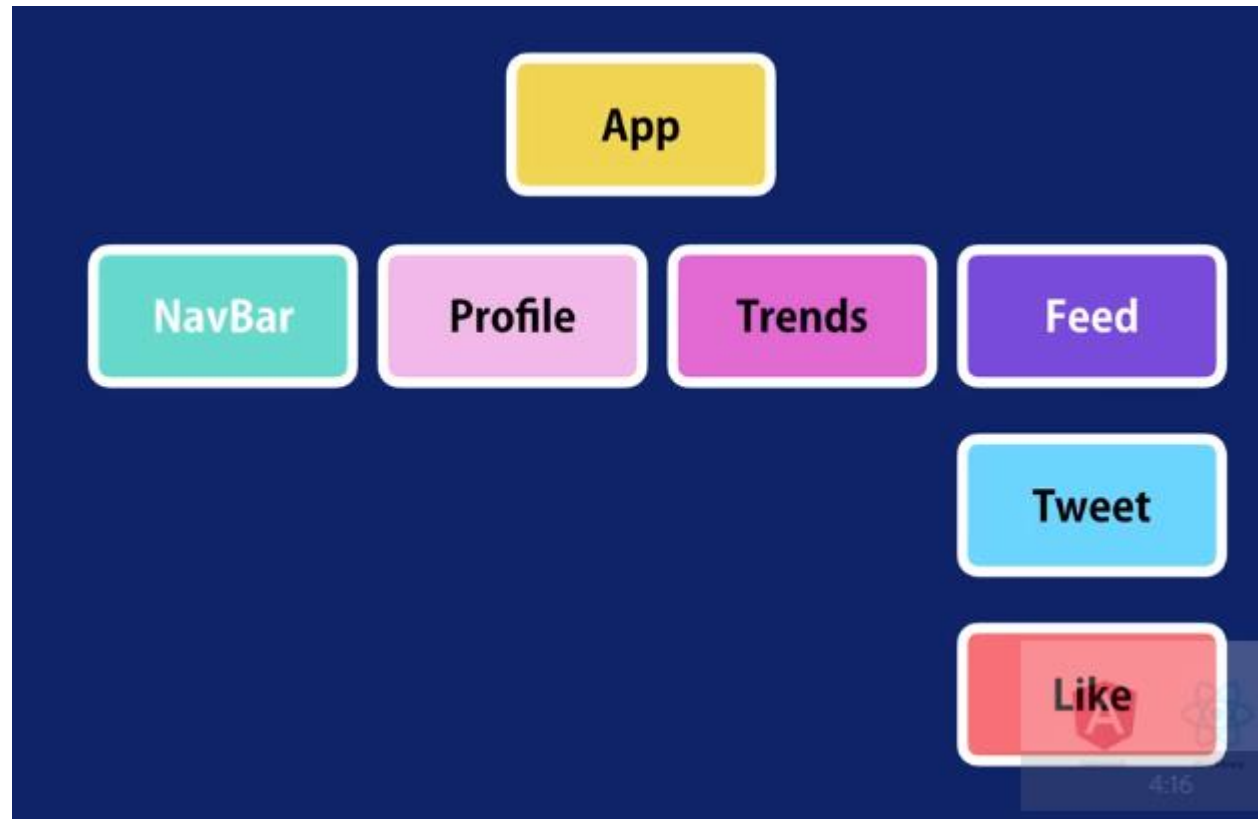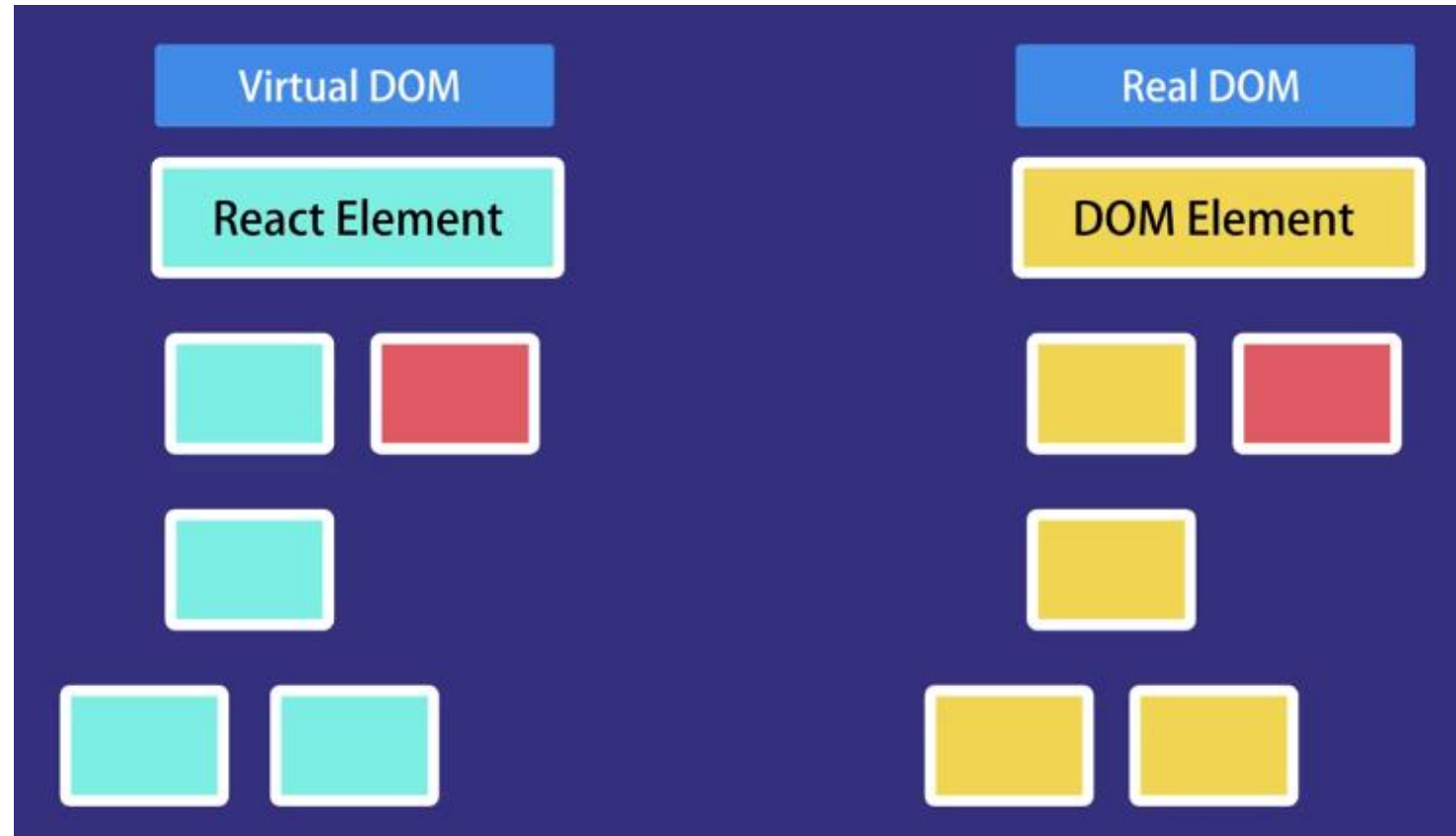# React Heart

Components

React Component

```
class Tweet extends Component {
  state = { }
  render() {
   return ( );
  }
}
```
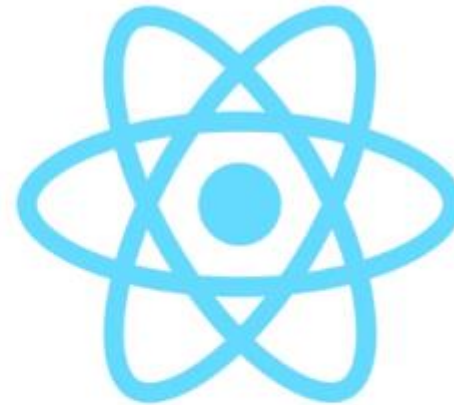
Virtual DOM

We Don't Do This

```
const element = document.querySelector();

element.classList.add();

element.addEventListener();
```

React Vs Angular

Framework

View Library

Development Setup

Install Node, Visual Code

>npm i –g create-react-app

>create-react-app my-first-react-app

>cd my-first-react-app

>npm start

Visual Code Extensions
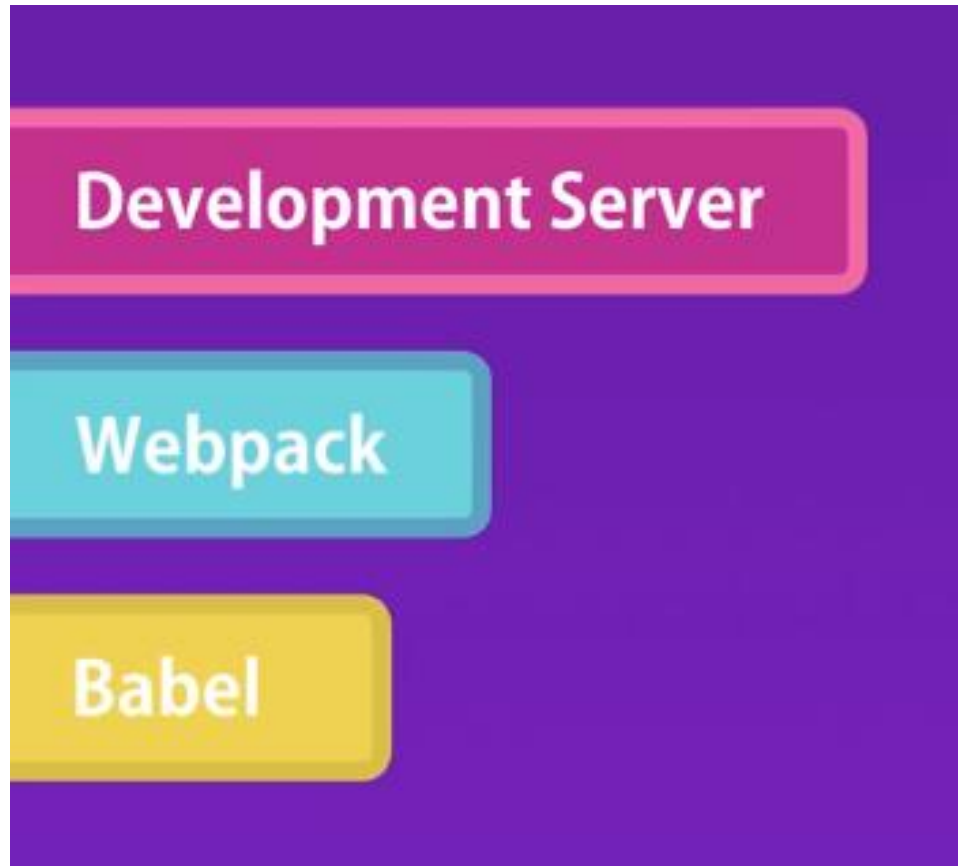
Simple React Snippets

Prettier

"editor.formatOnSave": true,
- Add in User Settings

Ayu Mirage Theme "Dark One ☺"

create-react-app Manages

Use npm eject for Custom Configurations

Folder Structure

node_modules
- ◦ Node Packages

public
- ◦ Public Assets css, images, icons etc

src
- ◦ React Source Code

index.js
- ◦ Entry Point

src/index.js

```javascript
import React from 'react';
import ReactDOM from 'react-dom';
import './index.css';
import App from './App';
import * as serviceWorker from './serviceWorker';

ReactDOM.render(<App />, document.getElementById('root'));

// If you want your app to work offline and load faster, you can change
// unregister() to register() below. Note this comes with some pitfalls.
// Learn more about service workers: http://bit.ly/CRA-PWA
serviceWorker.unregister();
```

public/index.html

```html
<noscript>You need to enable JavaScript to run this app.</noscript>
<div id="root"></div>
```

```jsx
import React, { Component } from 'react';
import './App.css';
class App extends Component {
  render() {
    return (
      <div className="App">
        From App Component        ⟵  Strange ?
      </div>
    );
  }
}
export default App;
```

JSX- JavaScript XML

```
npm start
  Starts the development server.

npm run build
  Bundles the app into static files for production.

npm test
  Starts the test runner.

npm run eject
  Removes this tool and copies build dependencies, configuration files
  and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

cd react-app
npm start
```
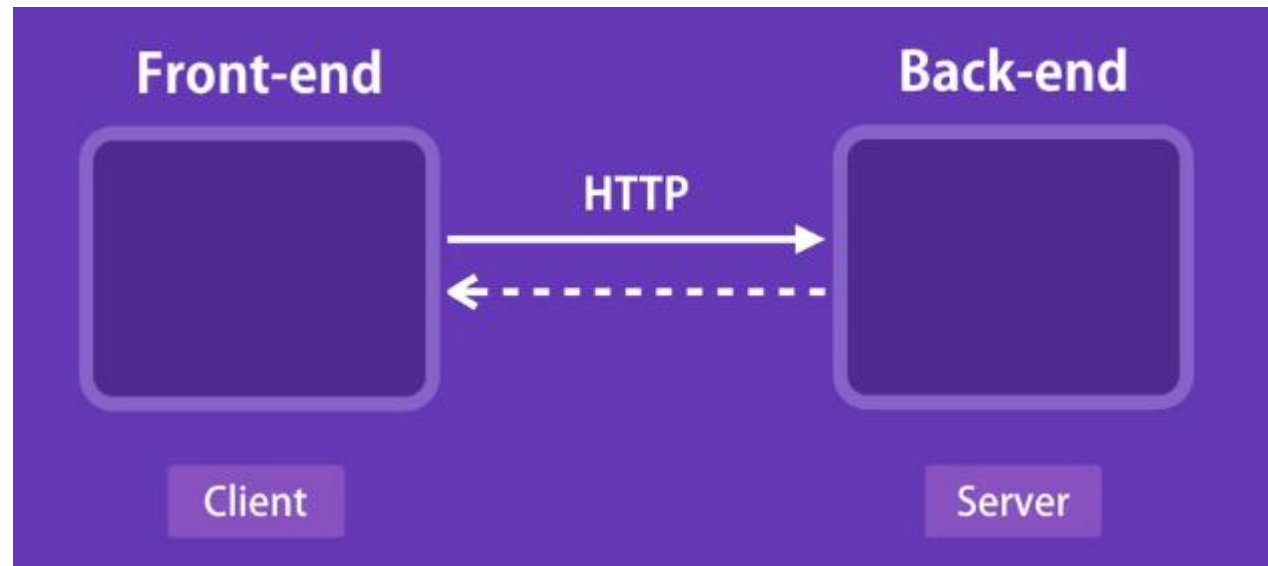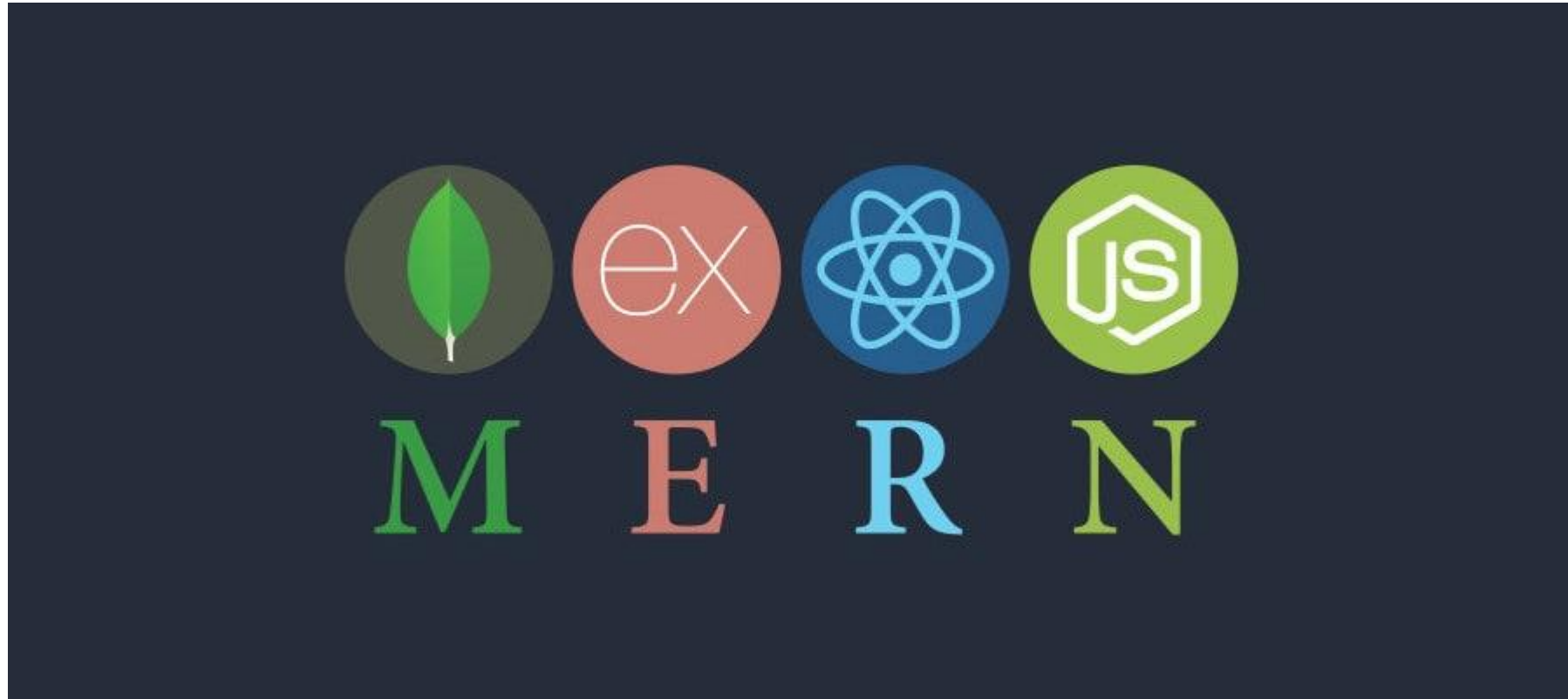
Index.js Modified

```
import React from 'react';

import ReactDOM from 'react-dom';

const element = <p>Hello My Class</p>

ReactDOM.render(element,
document.getElementById('root'));
```

Full Stack Architecture

MERN Stack
Mongo, Express, React, Node

https://scotch.io/@deityhub/getting-started-with-the-mern-stack