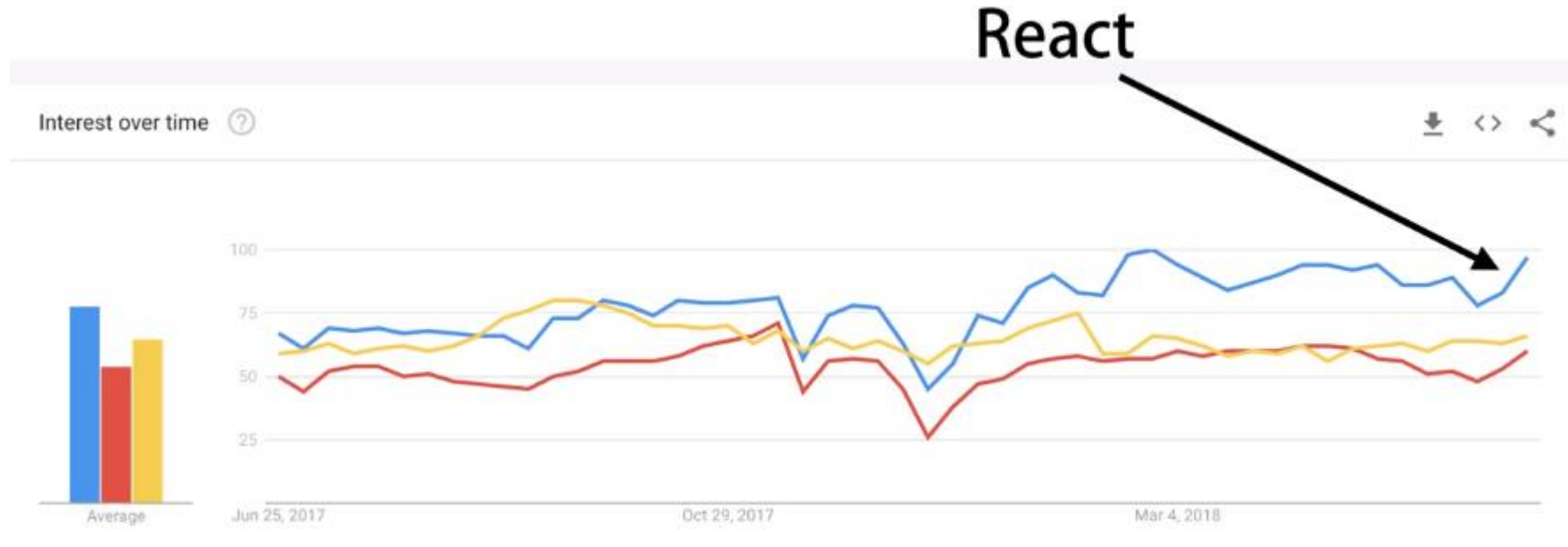


React

A FRONTEND LIBRARY

REACT- A FrontEnd Library

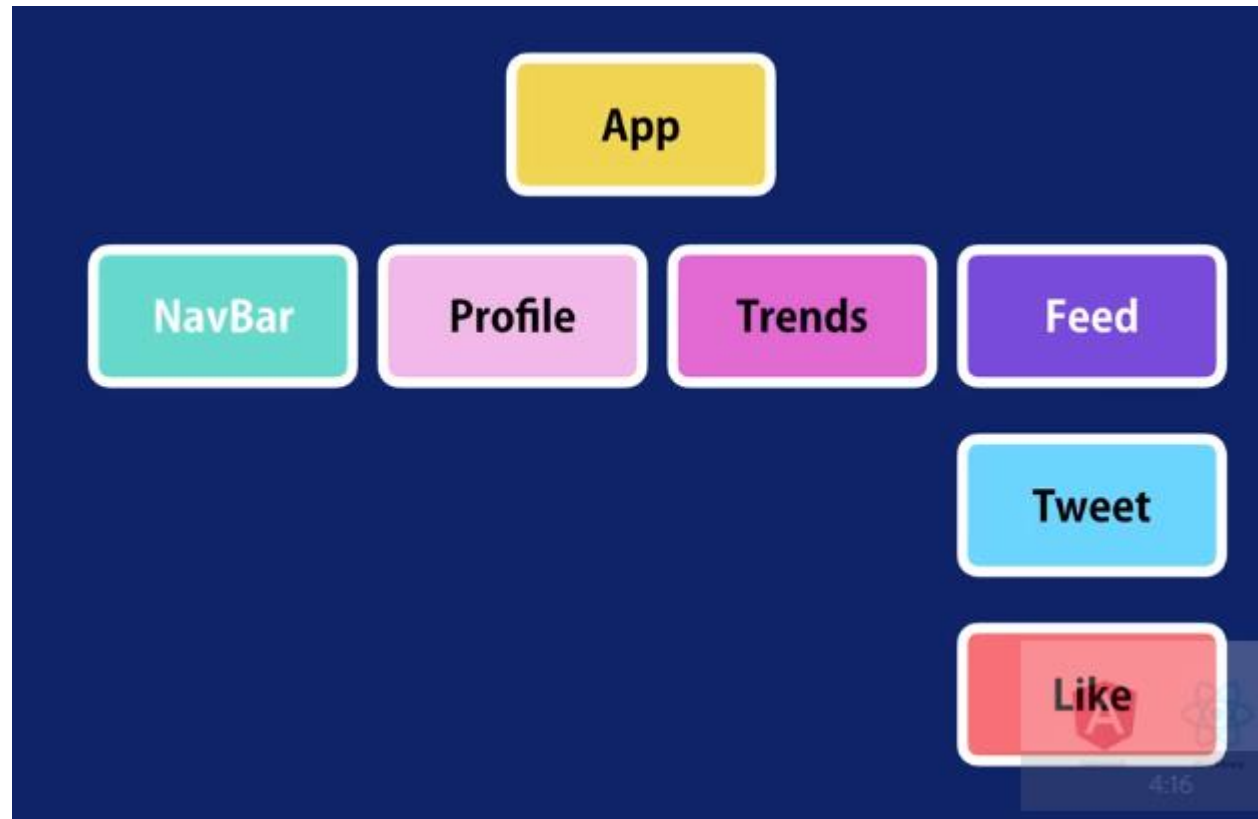
Developed By Google @ 2009



React Heart



Components



React Component

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

Adding React to Existing HTML Page

```
<!-- ... existing HTML ... -->
```

```
<div id="like_button_container"></div>
```

```
<!-- ... existing HTML ... -->
```

Load React same as JQuery

```
<!-- Load React. -->
```

```
<!-- Note: when deploying, replace "development.js" with  
"production.min.js". -->
```

```
<script src="https://unpkg.com/react@16/umd/react.development.js"  
crossorigin></script>
```

```
<script src="https://unpkg.com/react-dom@16/umd/react-  
dom.development.js" crossorigin></script>
```

```
<!-- Load our React component. -->
```

```
<script src="like_button.js"></script>
```

LikeButton is Your component

// ... the starter code you pasted ...

```
const domContainer =  
document.querySelector('#like_button_container');  
ReactDOM.render(e(LikeButton), domContainer);
```

[Like Button Code](#)

Kick Start a React App

//npm

npm init react-app my-app

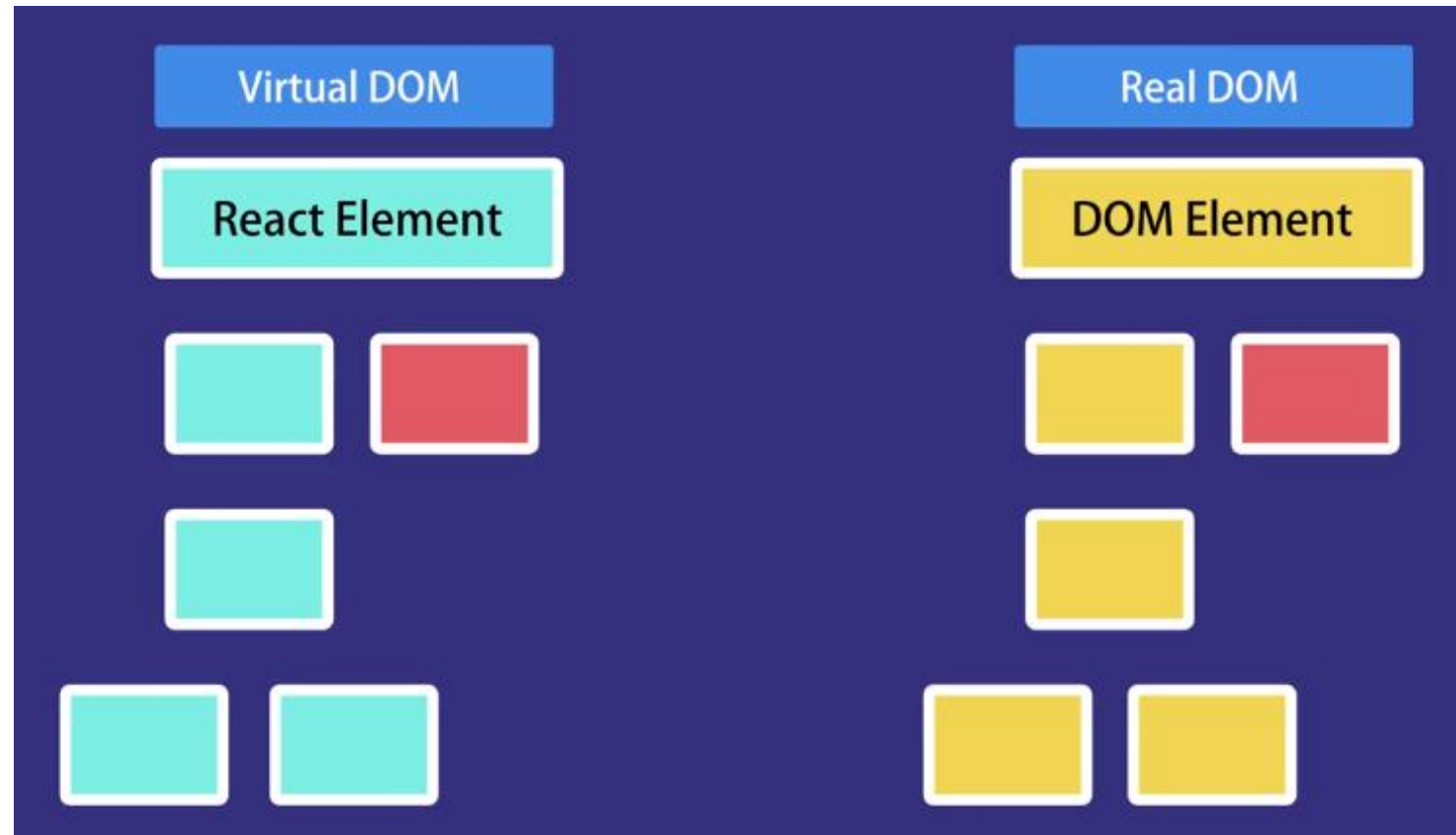
//npm init <initializer> is available in npm 6+

//Yarn

yarn create react-app my-app

//yarn create <starter-kit-package> is available in Yarn 0.25+

Virtual DOM



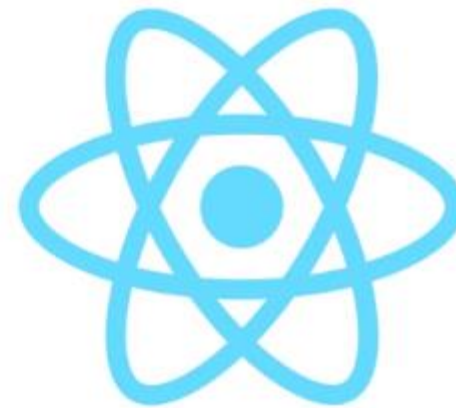
We Don't Do This

```
const element = document.querySelector();  
element.classList.add();  
element.addEventListener();
```

React Vs Angular



Framework



View Library

Development Setup

Install Node, Visual Code

```
>npm init react-app my-app
```

```
>cd my-app
```

```
>npm start
```

Resources

[Creating New App](#)

<https://reactjs.org/>

[Official Docs](#)

Lastly Always come to me usmanlive.com

Visual Code Extensions

Simple React Snippets

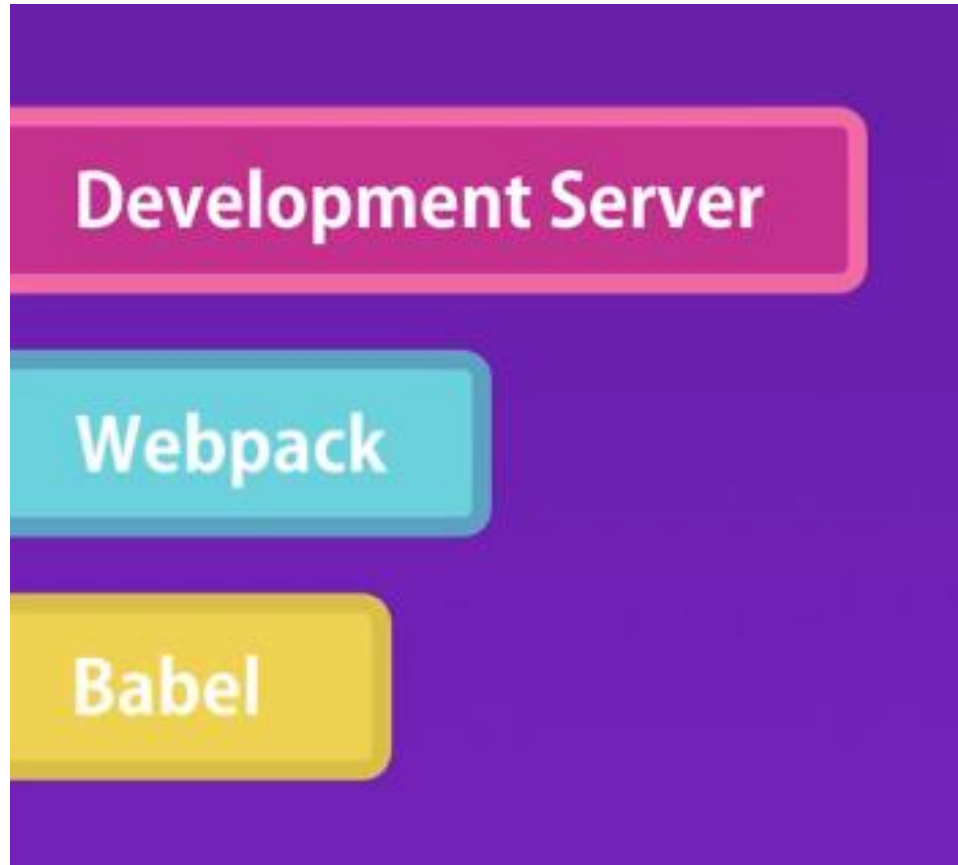
Prettier

"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

```
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

```
<noscript>You need to enable JavaScript to  
run this app.</noscript>
```

```
<div id="root"></div>
```

```
import React, { Component } from 'react';
```

```
import './App.css';
```

```
class App extends Component {
```

```
  render() {
```

```
    return (
```

```
      <div className="App">
```

```
        From App Component
```

```
      </div>
```

```
    );
```

```
  }
```

```
}
```

```
export default App;
```

← Strange ?

JSX- JavaScript XML



The screenshot shows the Babel REPL interface in a web browser. The address bar shows the URL `babeljs.io/repl#?babili=false&browsers=&build=&builtIns=false&spec=false&loose=false&code_lz...`. The Babel logo and version `6.x` are on the left. Navigation links for `Docs`, `Setup`, `Try it out` (highlighted), `Blog`, `Search`, `Donate`, `Team`, and `GitHub` are on the right. The main area is split into two panels. The left panel contains the input code:

```
1 const element = <h1>Hello World</h1>;
```

. The right panel contains the output code:

```
1 "use strict";  
2  
3 var element = React.createElement(  
4   "h1",  
5   null,  
6   "Hello World"  
7 );
```

`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:

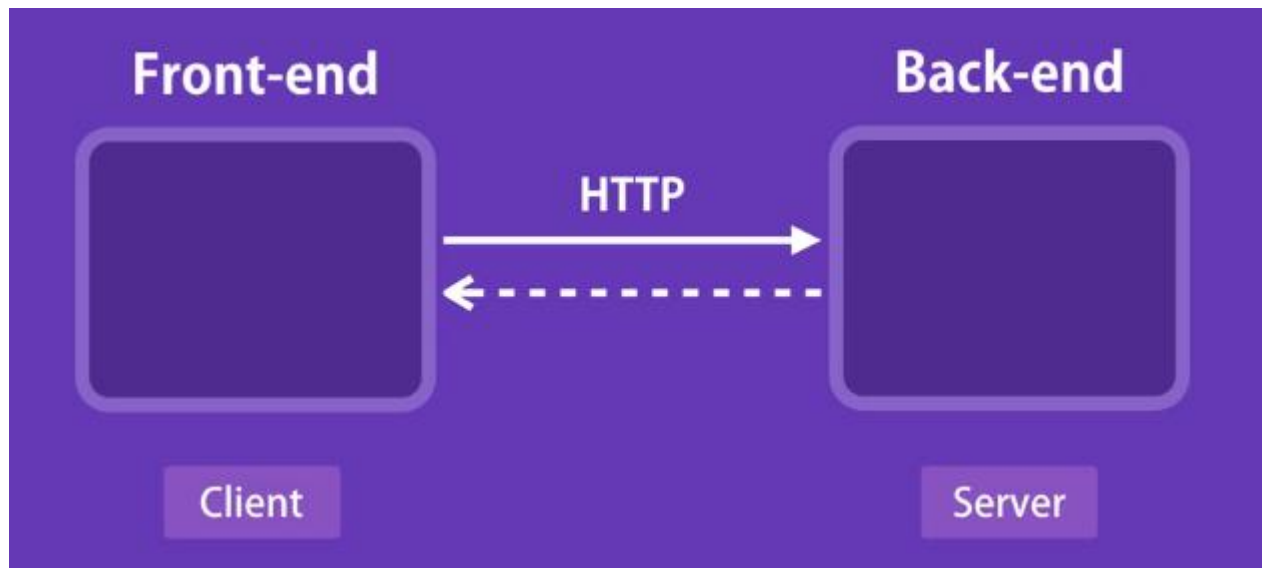
`cd react-app`

`npm start`

Index.js Modified

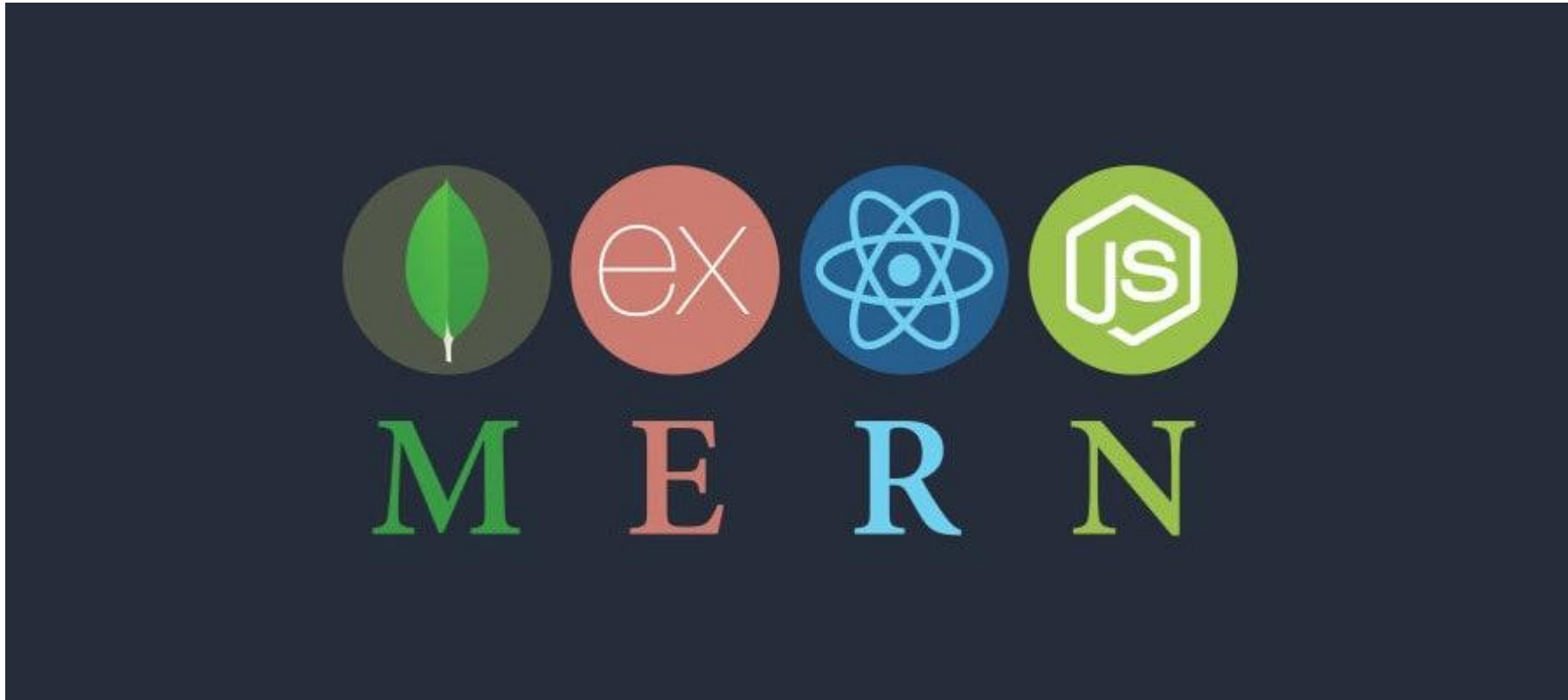
```
import React from 'react';  
import ReactDOM from 'react-dom';  
const element = <p>Hello My Class</p>  
ReactDOM.render(element,  
document.getElementById('root'));
```

Full Stack Architecture



MERN Stack

Mongo, Express, React, Node



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