

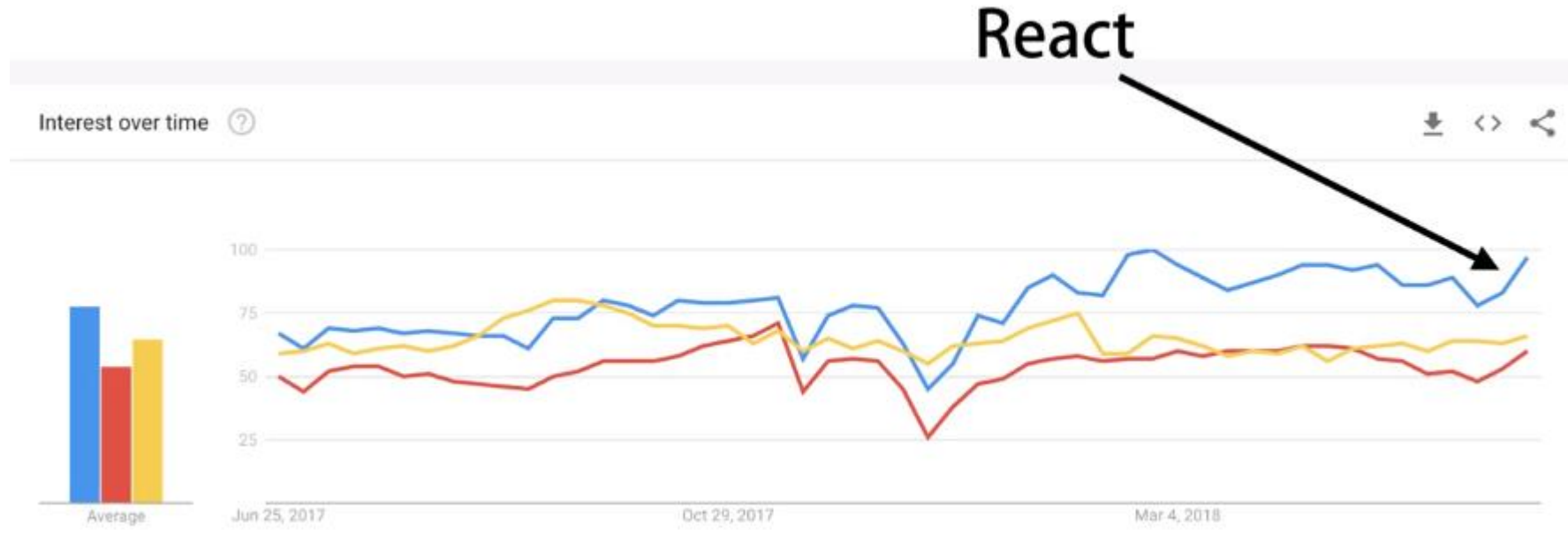
# React

---

A FRONTEND LIBRARY

# REACT- A FrontEnd Library

Developed By Google @ 2009

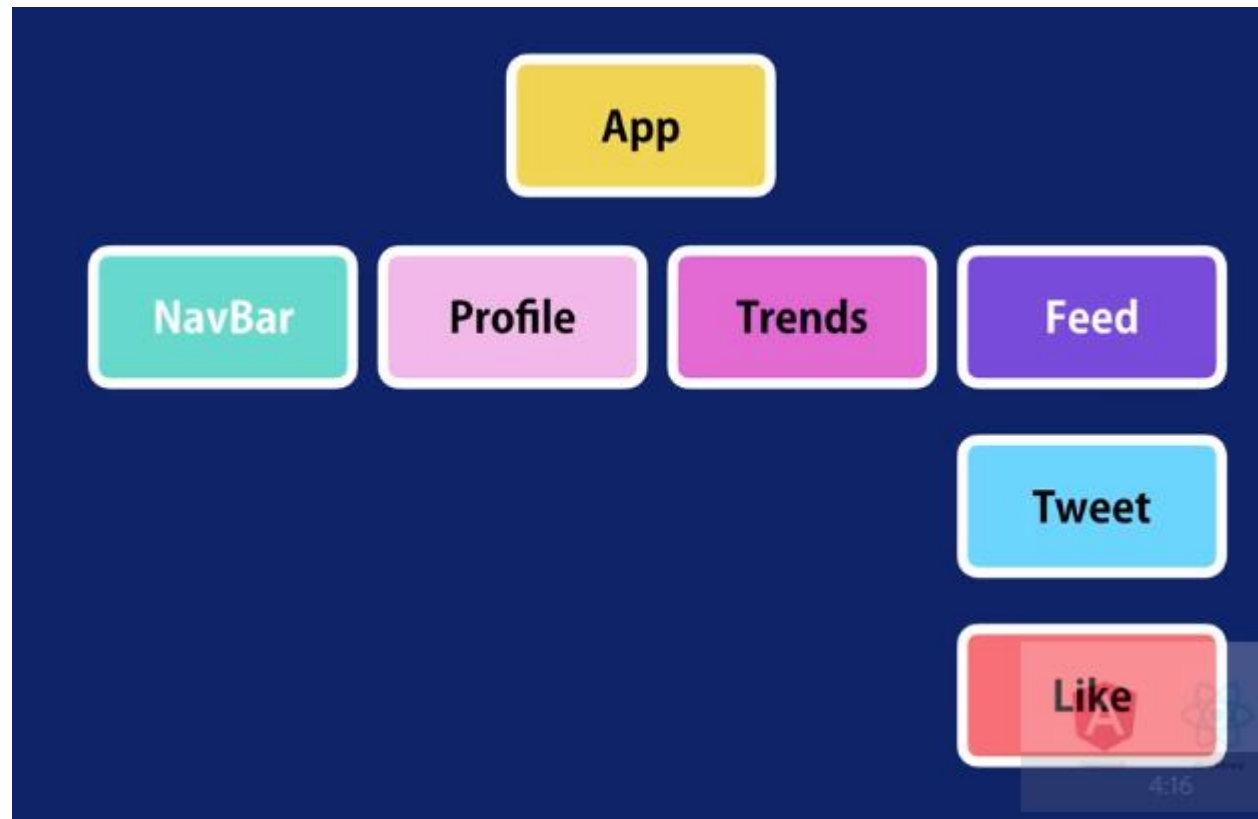


# React Heart



# Components

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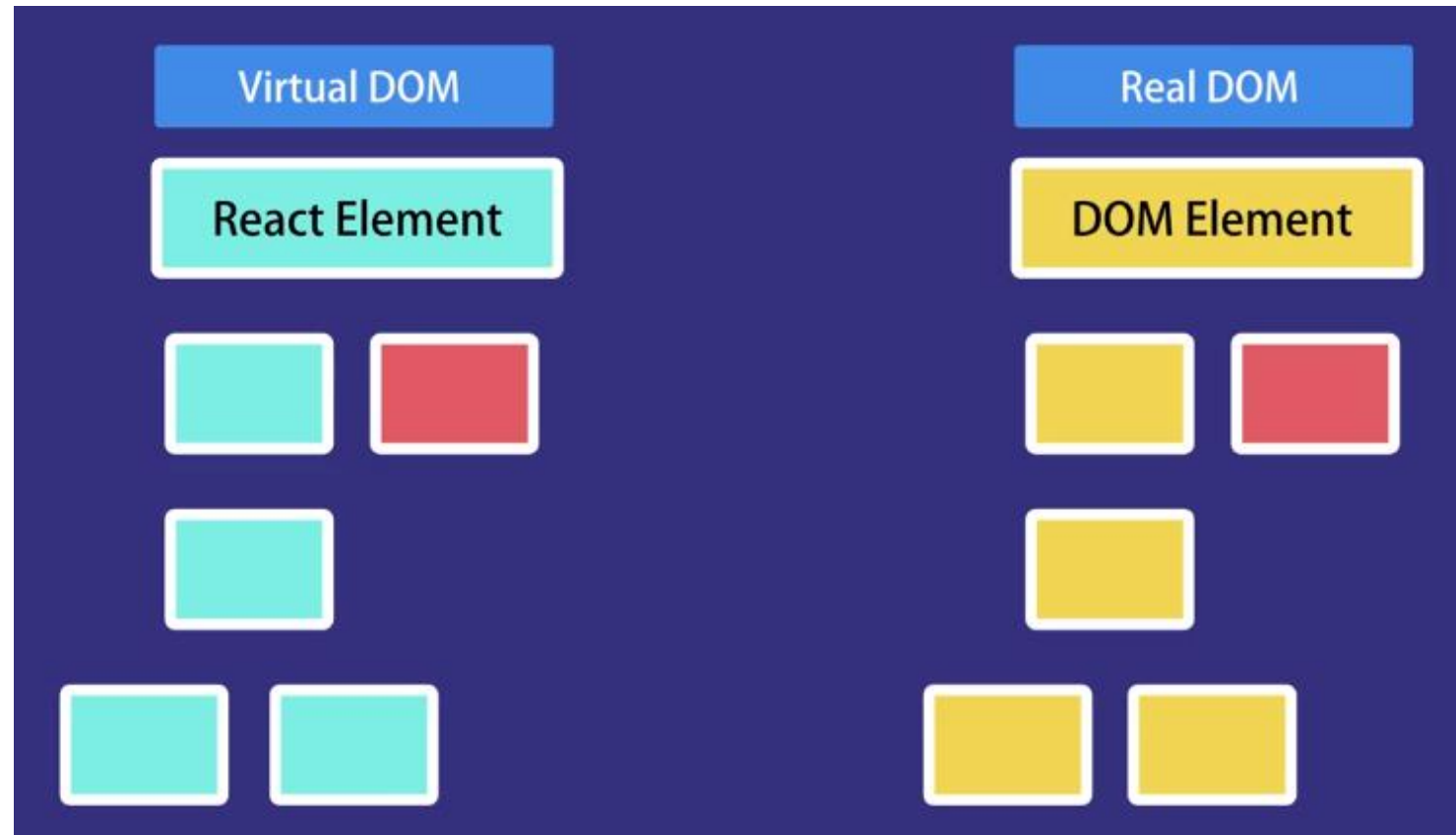
# React Component

---

```
import React from 'react'  
const Tweet = () => {  
  return ( <div>  
    </div> );  
}  
export default Tweet;
```

# Virtual DOM

---



# We Don't Do This

---

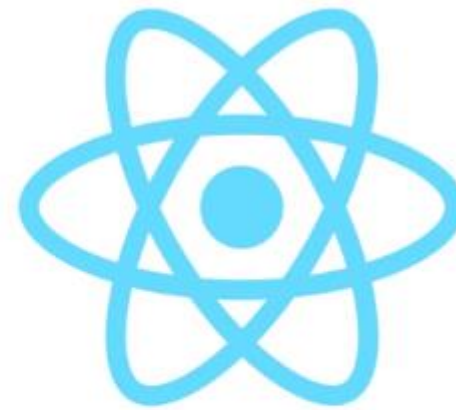
```
const element = document.querySelector();  
element.classList.add();  
element.addEventListener();
```

# React Vs Angular

---



**Framework**



**View Library**



# Development Setup

---

Install Node, Visual Code

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

```
> cd my-first-react-app
```

```
> npm start
```

Or use Vite

```
> npm create vite@latest my-app --template react
```

```
> cd my-app
```

```
> npm install
```

```
> npm run dev
```

# Visual Code Extensions

---

Simple React Snippets

Prettier

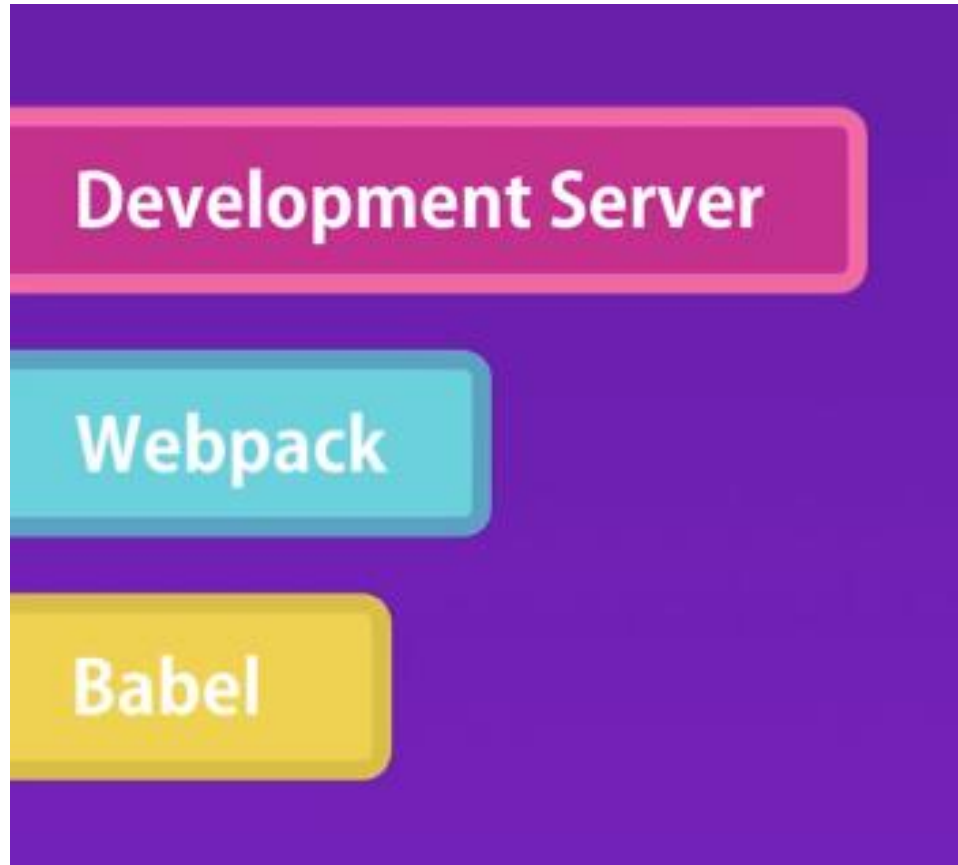
"editor.formatOnSave": true,

- 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>
```

# React Component

---

```
import React from 'react'
```

```
const Tweet = () => {
```

```
  return ( <div>
```

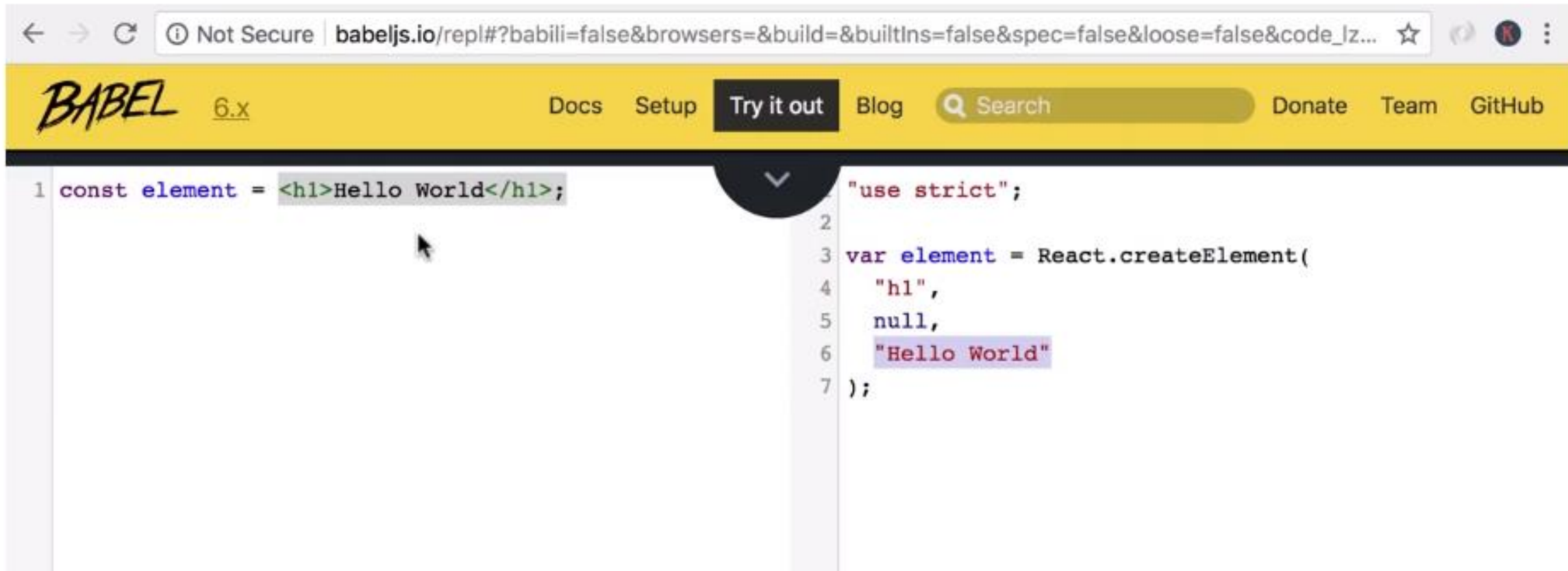
```
    </div> );
```

```
}
```

```
export default Tweet;
```

 Strange ?

# JSX- JavaScript XML



The screenshot shows the Babel REPL website. The browser's address bar displays the URL: `babeljs.io/repl#?babili=false&browsers=&build=&builtIns=false&spec=false&loose=false&code_lz...`. The website's header is yellow and contains the Babel logo, the version `6.x`, and navigation links for `Docs`, `Setup`, `Try it out` (which is highlighted), `Blog`, a search bar, `Donate`, `Team`, and `GitHub`. The main area is split into two panels. The left panel shows the input code: 

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

. The right panel shows 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`

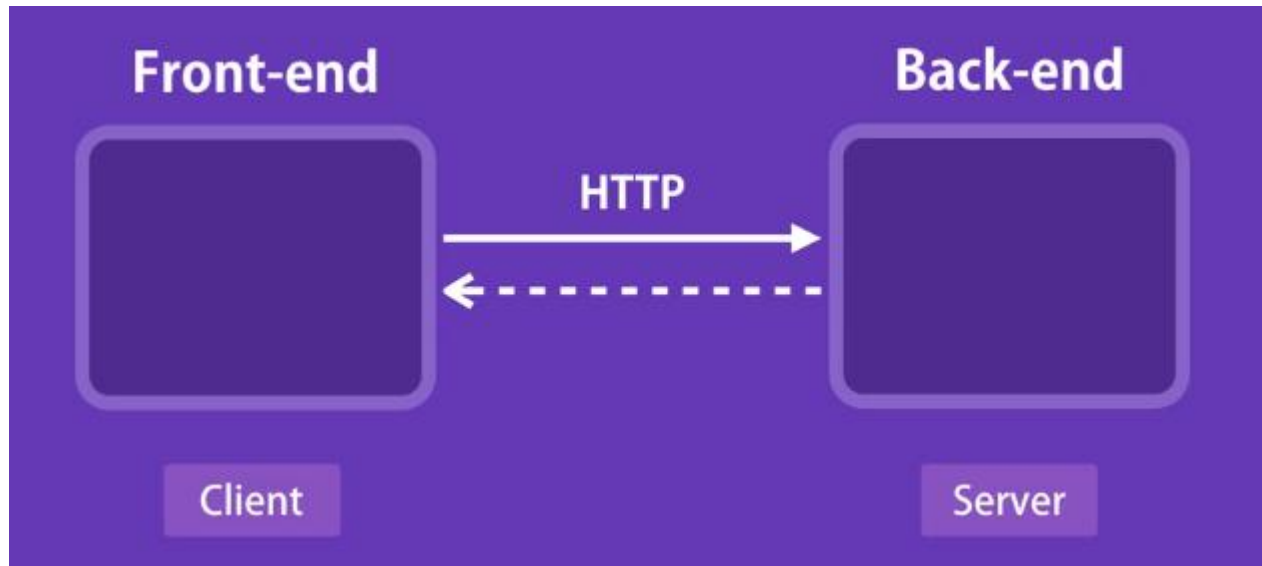
# Index.js Modified

---

```
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

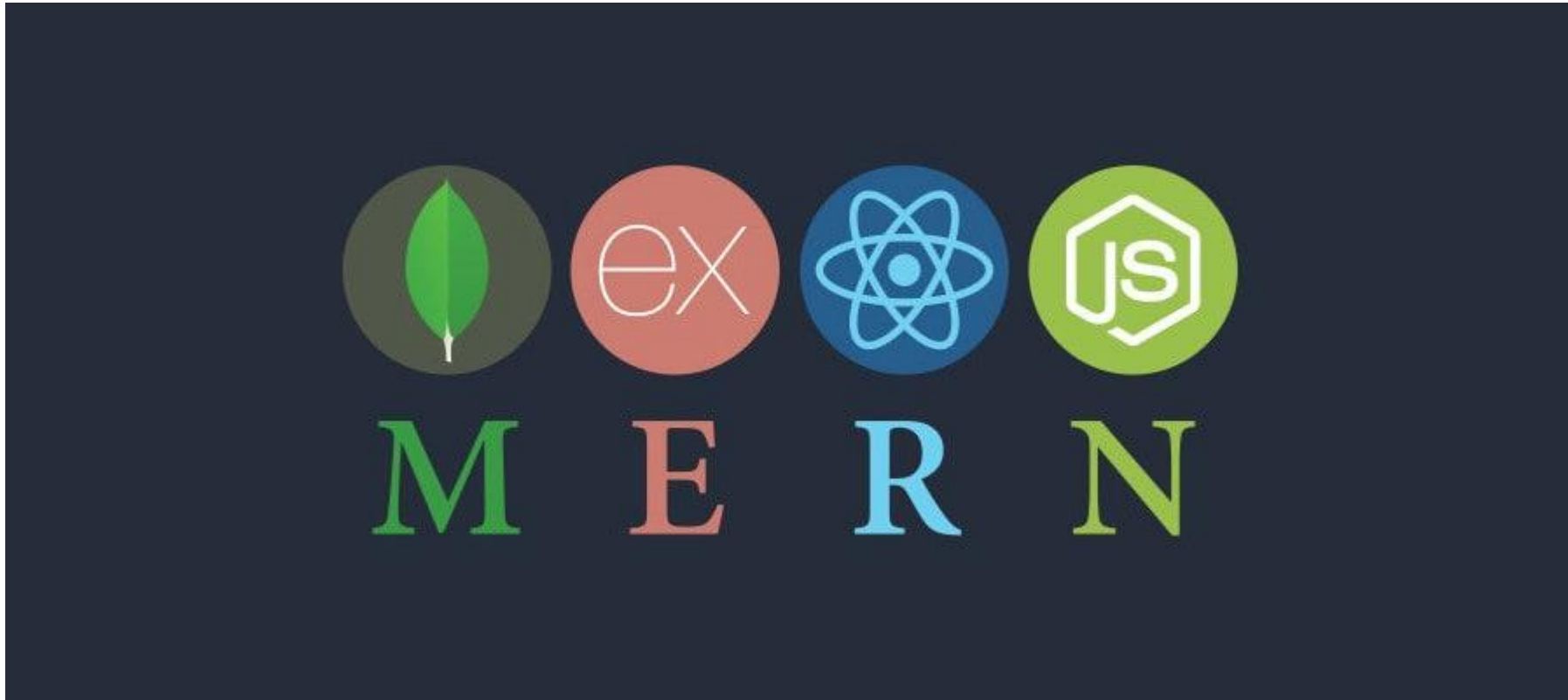
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# MERN Stack

## Mongo, Express, React, Node

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