

React is a JavaScript library for building user interfaces in a fastest way, created by Jordan Walke, it is supported by Facebook and a big community, initial release dated May 29, 2013.

React manages a Virtual DOM and updates the real DOM of the application (reconciliation) when an event occurs (component state or prop is changed, or a component is mounted/unmounted).

Component is the unit of react with markup and logic,
can be nested and the argument prop allows it to
receive data from components above.

COMPONENT

```
class App extends React.Component {  
  render() {  
    return (  
      <div>  
        <p>Hello World.</p>  
      </div>  
    );  
  }  
}
```

A good practice to write React components is using ES6 and JSX that is an extension to the JavaScript language syntax and similar in appearance to HTML.

JSX

```
<div id="myReactApp001"></div>
<script>
  function Hello(props) { //FUNCTION RETURN JSX
    return <h1>{props.salute}</h1>
  }
  var App = <Hello salute="Hello World!" />; //VAR CONTAINS JSX
  ReactDOM.render(App,
    document.getElementById( 'myReactApp001' ));
</script>
```

INDEX.JS

```
import React from 'react';
import ReactDOM from 'react-dom';

class MyApp extends React.Component {
  render() {
    return (
      <div>
        <h1>Example of index.js!</h1>
        <p>Info...</p>
      </div>
    );
  }
}

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

The three phases of Componet's LifeCycle are:
Mounting, Updating, and Unmounting.

Conclusion: ReactJS allows developers to focus on view logic to give a better experience to the users. Developers efficiently can modify DOM without writing a lot of lines of code that makes it more difficult to maintain view section on the project.

REACTJS WEBPAGE:

<https://reactjs.org/>