

# REACT JS

## COMPLETE NOTES.

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→ What is ReactJS?

→ ReactJS is an open source Javascript library used for building interfaces. It focuses on creating dynamic interactive web applications by allowing developers to create reusable UI components.

→ Why we ReactJS?

→ Reacts is popular and widely used for several reasons:

### Component Based Architecture.

React allows you to break down your UI into reuse components. Making it easier to manage.

### Efficient Updates:

It uses Virtual DOM, which optimized rendering by updating only parts of pages that change improving performance.



## Large Ecosystem :

React has vast ecosystem of libraries and tools.

## Cross Platform:

React can be used for both web and mobile app development.

## PROS AND CONS OF REACTJS

### PROS :

**Component-based** React encourages a modular, component based approach to build user interfaces.

**Easy to learn and use :** React is much easier to learn and use. It comes with good supply of documentation.

**Reusable Components :** A ReactJS web application is made up of multiple components. Each component has its own logic.



Scope for testing Codes: ReactJS applications are extremely easy to test. It offers scope where developers can test and debug their codes with help of native tool.

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### CONS:

Poor Documentation React Technologies updating and accelerating so fast that there is no time to make proper documentation.

View Part ReactJS covers only UI layers of app & nothing else. so you still need to choose other technologies to get complete tooling set for development.

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# DIFFERENCE B/W REACTJS & ANGULAR

Field	ReactJS	Angular
used as	React js is a library (Javascript)	Angular is a framework.
Released	It was released in 2013.	It was released in 2010.
Written	Reactjs written in javascript.	Angular is written in microsoft's Typescript.
Routing	Routing is not easy in ReactJS.	Routing is easy compared to ReactJS.
Scalable	It is highly scalable.	It is less scalable.
Dom	It has a Virtual Dom.	It has regular Dom.
Testing	It supports unit testing	It support unit + integration testing.
Data Binding.	It supports uni directional	It supports bi directional.



## DIFFERENCE B/W REACTJS and REACTNATIVE

REACTJS	REACTNATIVE
<p><u>Installation Process</u></p> <p>React library is installed via npm package manager.</p>	<p><u>Installation Process.</u></p> <p>ReactNative is a command line interface tool requires both Node js and ReactNative CLI to be installed.</p>
<p><u>Efficiency</u></p> <p>ReactJS is more efficient interms of code reuse ability.</p>	<p><u>Efficiency.</u></p> <p>ReactNative is more efficient interms of Performance &amp; memory usage.</p>
<p><u>Technology Base</u></p> <p>ReactJS is Javascript library used for building user interfaces.</p>	<p><u>Technology Base.</u></p> <p>ReactNative is a cross platform mobile development.</p>
<p><u>Components</u></p> <p>ReactJS Components are typically written in HTML.</p>	<p><u>Components</u></p> <p>ReactNative Components are written in JSX.</p>



REACTJS	REACTNATIVE
<p><u>Storage</u></p> <p>ReactJS is a good choice for projects that require high performance</p>	<p><u>Storage</u></p> <p>It is a good choice for Projects that need to be able to scale easy.</p>
<p><u>Search engine friendly.</u></p> <p>It is more search engine friendly than React Native. <del>Platform</del>.</p>	<p><u>Search engine friendly</u></p> <p>It cannot be made search engine friendly.</p>
<p><u>Navigation.</u></p> <p>ReactJS uses traditional browser based approach.</p>	<p><u>Navigation.</u></p> <p>React Native relies on native platform.</p>
<p><u>Platform.</u></p> <p>React is a framework for building application using javascript.</p>	<p><u>Platform</u></p> <p>It allows building native and cross platform mobile apps.</p>
<p><u>Rendering</u></p> <p>Browser code is rendered through virtual DOM.</p>	<p><u>Rendering.</u></p> <p>It uses native API to render all components.</p>
<p><u>Syntax</u></p> <p>Makes use of HTML and its syntax flow.</p>	<p><u>Syntax.</u></p> <p>ReactNative uses Reactnative syntax.</p>



Key difference between React and Vue.

The main distinction between vue and React is how they approach application design.

While React focuses on creating reusable UI components vue takes approach by providing developers with frontend tools.

let now take a look at some particular differences.

VUE	REACT
It was single file components (SFC) to build different components.	It uses JSX as a component format.
It is used to develop web-based application.	It is used to develop web as well as mobile application.
State Management library is called <del>the</del> Vuex	State Management library is called Redux.



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