

# React-Components, State, Props

## 1. What is React Js?

React is a free and open-source front-end JavaScript library for building user interfaces based on components. It is maintained by Meta and a community of individual developers and companies. React can be used to develop single-page, mobile, or server-rendered applications with frameworks like Next.js.

## 2. What is NPM in React Js?

NPM is short for node package manager, an online directory that contains the various already registered open-source packages.

## 3. What is Role of Node Js in react Js?

Node.js enables the creation of scalable and quick back-end RESTful APIs. On the other hand, React is a front-end library that creates interactive user interfaces. With both tools, you can fast build complex and scalable web apps.

## 4. What is CLI command In React Js?

CLI is a command line program that accepts text input to execute operating system functions. In the 1960s, using only computer terminals, this was the only way to interact with computers. In the 1970s and 1980s, command line input was commonly used by Unix systems and PC systems like MS-DOS and Apple DOS.

## 5. What is Components in React Js?

Components are independent and reusable bits of code. They serve the same purpose as JavaScript functions, but work in isolation and return HTML. Components come in two types, Class components and Function components, in this tutorial we will concentrate on Function components.

## 6. What is Header and Content Components in React Js?

Headers are compositions that extend standard navbar functionalities. They contain additional components like a jumbotron, sub-navbar, or image covers which serve as containers for extra navigation elements - usually links, forms, or call-to-action buttons.

## 7. How to install React Js on Windows, Linux Operating System? How to Install NPM and How to check version of NPM?

- Install Node.js installer for windows.
- Open command prompt to check whether it is completely installed or not type the command `-> node -v`
- Now in the terminal run the command `-> npm install create-react-app`
- Now Create a new folder where you want to make your react app using the command `cd newfolder (your folder name)`
- Now inside this folder run the command `-> create-react-app reactfirst YOUR_APP_NAME`
- Now open the IDE of your choice for eg. Visual studio code and open the folder where you have installed the react app **newfolder** (in the above example) inside the folder you will see your app's name **reactapp** (In our example). Use the terminal and move inside your app name folder. Use command `cd reactapp` (your app name)
- To start your app run the command `npm start`.

- To Check the version of NPM Type the command `npm -v` or `npm --version` in your command prompt to see the given output.

#### 8. How to check version of React Js?

To check which React version is your project using you need to open the package. json. Take a look under the dependencies section. It should list all of the dependencies of your project and one of those should be React.

#### 9. How to change in components of React Js?

The state change can be from a prop or `setState` change to update a variable(say). The component gets the updated state and React re-renders the component to reflect the change on the app.