React is a library for building user interfaces

React runs on the client as Single Page application , but can be used to build

full stack apps by communicating with a server/API

React is often referred to as a front-end framework because it is capable

and directly comparable to a framework such as angular and vue

Q. react is a framework or library:

<https://www.freecodecamp.org/news/is-react-a-library-or-a-framework/#:~:text=While%20React%20itself%20is%20just%20a%20library%2C%20many,projects%20faster%20without%20needing%20as%20many%20third-party%20libraries>.

Good source to learn react in details :

[Reed Barger - freeCodeCamp.org](https://www.freecodecamp.org/news/author/reed)

Why would you use react ?

* Structure the ‘view’layer of your application
* Reusable components with their own state
* Jsx -dynamic markup
* Interactive UI with virtual Dom
* Performance & testing
* Very popular in the industry

Components : functions vs classes

**insert image 1**

components render/return JSX

Components can also take in “props”

**working with state :**

components can have “state” which is an object that determines how a components

renders and behaves

“App” or “global” state refers to state that is available to the entire UI,

not just a single component

**note :** prior to react 16.8 we had to use clss based components ot use state.

Now we can use functional components with hooks

**React HOOKS :**

React hooks are functions that let us hook into the react state and lifecucle features from function components

* useState L returns a satetful value and function tupupdate it
* useEffect : perform side effects in function components
* -useContext , useReducer , useRef

We can also create our custom hooks