

React Roadmap

why learn react js?

- hype, job, trend, build UI
- make it easy to manage and build a complex frontend (best reason to say in the interview)

when should you learn react js?

- after mastering the js(means that the same work you can do with js but you are making it easy and fast with react js) (refer js by chai with code)
- most projects don't need to react in the initial phase (don't use for easy projects)

why react was created?

- phantom (ghost)problem on Facebook
- notification number was not cleaned even when the user read the message.
- problem: state (variable) in js and ui (dom) was not syncing and no consistency in UI
- react was developed by a team with a team lead den
- 1st Examples to use react: Khan Academy and Unsplash

don't learn react if :

- if you don't know how js works and dom manipulation

React Learning process :

two ways to learn

1. Go in-depth: babel, fiber, virtual dom, diff algo, hydration

2. by making projects (one topic at a time): todo app, calculator, GitHub API (**preferable**)

- React is a library

framework vs library :

- framework means military means in this more emphasis is given to rules.
- library means cool dude: no hard and fast rules and relatively small

Topics to learn :

- the core of react (State or UI manipulation, JSX (js with html))
- Component reusability
- reusing of components (props: properties (objects properties in js))
- how to propagate changes(hooks)

Additional add-on to react :

- Router (React doesn't have a router)
- state management (react doesn't have state management) (when ui seems complex and hard to manage the UI then we use state management)
- - > Redux, redux toolkit, zustand, context API
- Class-based component (react uses functional-based component)
- - > legacy code
- BASS apps (Backend As A Service)
- > social media clone, e-commerce apps.....

After React :

- react is not a complete solution in most cases:
- - > No SEO(generate bad code which is not SEO friendly),browser rendering of js(browser convert js into HTML and CSS which takes time) ,no routing
- next framework to learn:
- Next js,(can write frontend and backend both using one frame) Gatsby and remix