

Introduction to React React Session-1

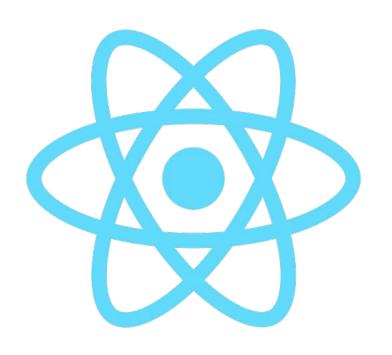




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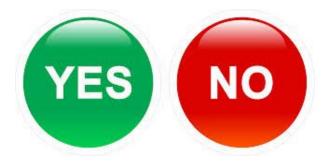


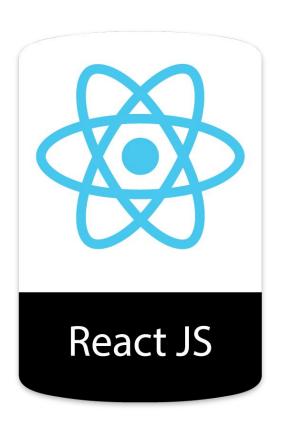
- What is React?
- Who uses React?
- Why should I use React?
- How does React work?
- Setup Development Environment





Did you finish
React
pre-class
material?









1200=





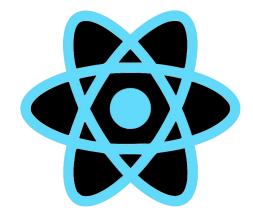
Is React a framework?

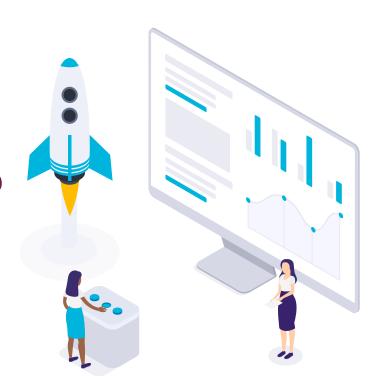






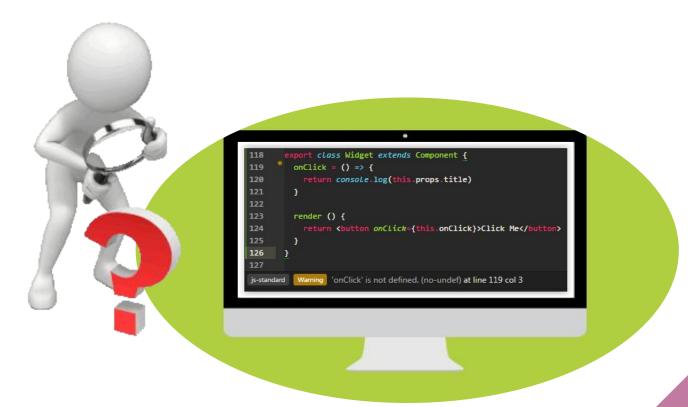
















React is a view layer library, not a framework like Angular etc.

Developed by Facebook at 2011.

You can't use React to build a fully-functional web app.

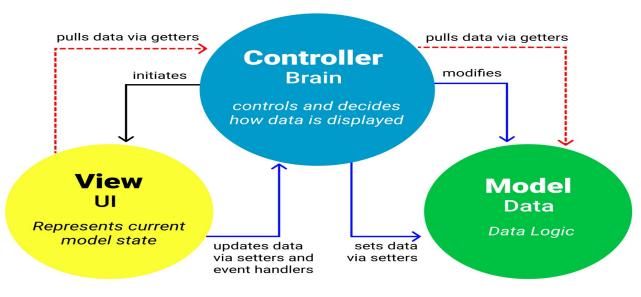






MVC Architecture Pattern

MVC



V: ReactJS



2

Who uses React?





Who uses React?



8739 companies reportedly use **React** in their tech stacks, including **Uber**, **Airbnb**, and **Facebook**.

















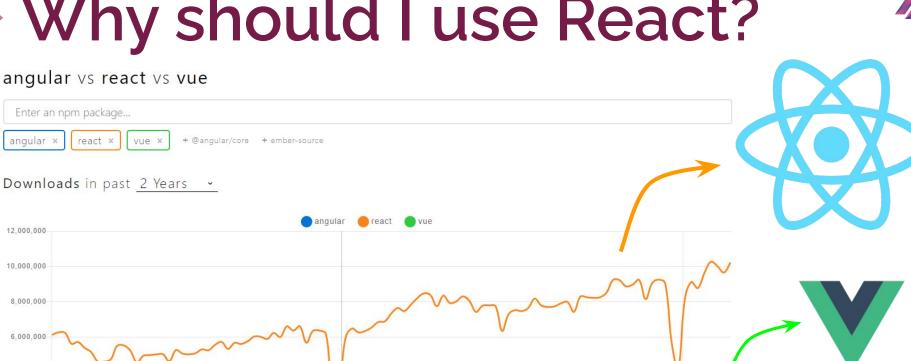


Why should I use React?



Why should I use React?

2020





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2.000.000

2021





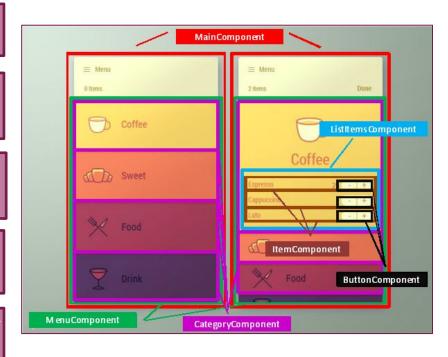
Easy to read and understand views

Concept of components is the **future** of web development

If your page uses a lot of fast updating data or real time data - React is the way to go

Once you and your team is over the React's learning curve, developing your app will become a lot faster

It is maintained by Facebook and a community of individual developers and companies.







- Real DOM is slow but React uses
 Virtual and Virtual DOM and Virtual
 DOM is fast
- Easy to understand what a component will render.
- Easy to mix HTML and JS (JSX)
- Uses full power of JS







How does React work?



How does React work?



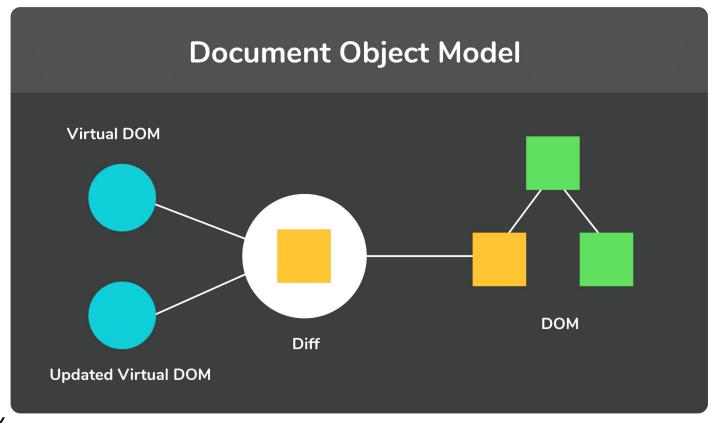
React creates a VIRTUAL DOM in memory.

React only changes what needs to be changed!



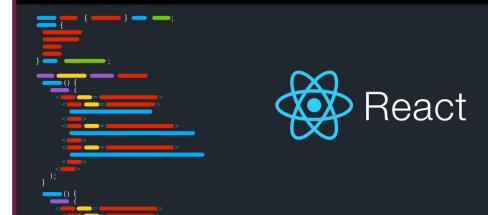














- Download and install (Already everybody did it.)
- Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
- We will install packages via



create-react-app is a project aimed at getting you up to speed with React in no time. It provides a ready-made React application starter, so you can dive into building your app without having to deal with **Webpack** and **Babel** configurations.







 Create React App doesn't handle backend logic or databases; it just creates a frontend build pipeline, so you can use it with any backend you want. Under the hood, it uses Babel and webpack, but you don't need to know anything about them.







- npx create-react-app my-first-app
- cd my-first-app
- npm start



- yarn start
- Yarn is a new secure dependency management client for JavaScript. Yarn is an <u>open source collaboration</u> between **Facebook**, **Exponent**, **Google**, and **Tilde**.







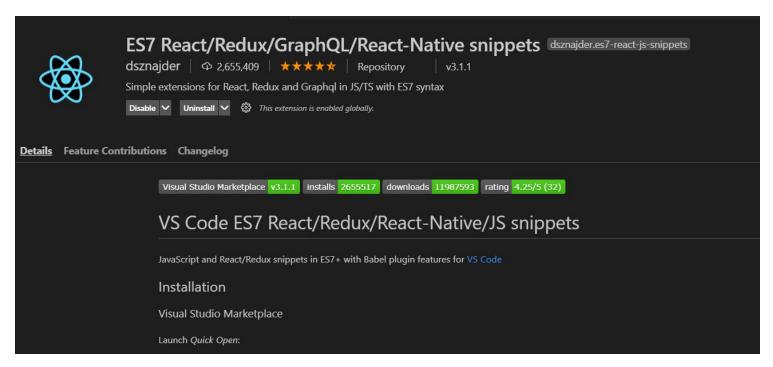


If you see this page on your screen, you have installed ReactJS app successfully. Congrats! 🥫









ES7 React/ Redux/ GraphQL/ React-Native



Folder-File Schema

For the project to build, these files must exist with exact filenames:

- public/index.html is the page template;
- src/index.js is the JavaScript entry point.

You can delete or rename the other files.



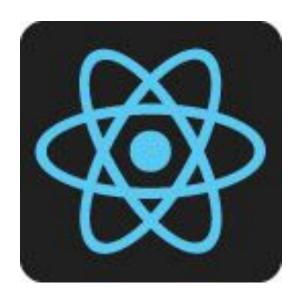
- ▶ node_modules
- public
 - * favicon.ico
 - index.html
- {} manifest.json
- # App.css
- JS App.js
- JS App.test.js
- # index.css
- Js index.js
- 🐿 logo.svg
- JS registerServiceWorker.js
- gitignore
- {} package-lock.json
- {} package.json
- ① README.md



Chrome Extensions For React



React Developer Tools



Redux DevTools





Last Notes...



 You should install or prepared a ReactJS project before every lesson.

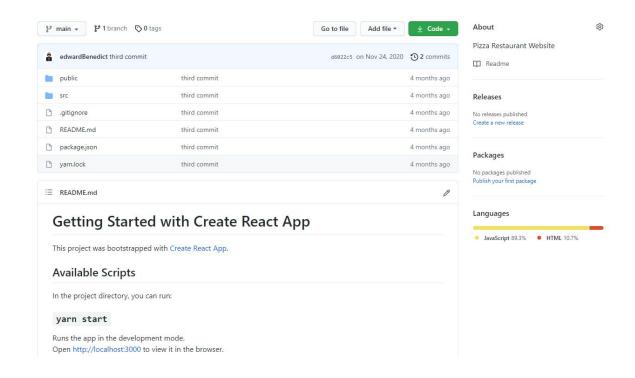
 In this way, we don't wait anybody for installing new project.





Last Notes...

You can access in-class codes in our github. You can copy from there.







THANKS! > 1

Any questions?



