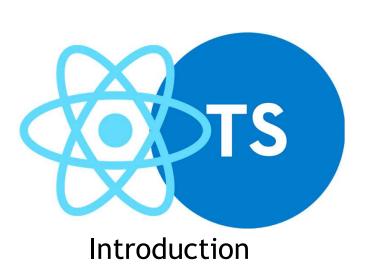


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TS

Introduction to React and TypeScript

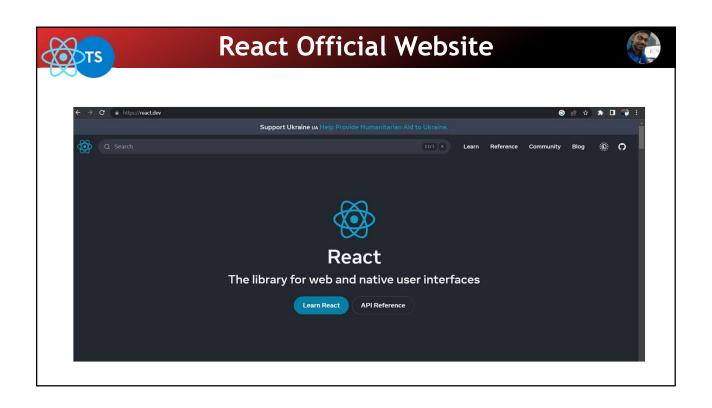


- ✓ React is a free and open-source front-end JavaScript library for building user interfaces based on components.
- √ TypeScript is a strongly typed programming language that builds on JavaScript, giving you better tooling at any scale.
- ✓ It is a **strict syntactical superset of JavaScript** and adds optional static typing to the language.
- ✓ It is designed for the development of large applications and transpiles to JavaScript.





Introduction to React TS TS React is a JavaScript User Interface Library for building web and mobile applications. Developed By Facebook It's Open Source It's released on 2013 Current Stable Version 18.2.0 Official Website: https://react.dev/ > Online Platforms to play with React: https://codesandbox.io/s/new https://stackblitz.com/fork/react https://codepen.io/pen https://vmtraining.netlify.app



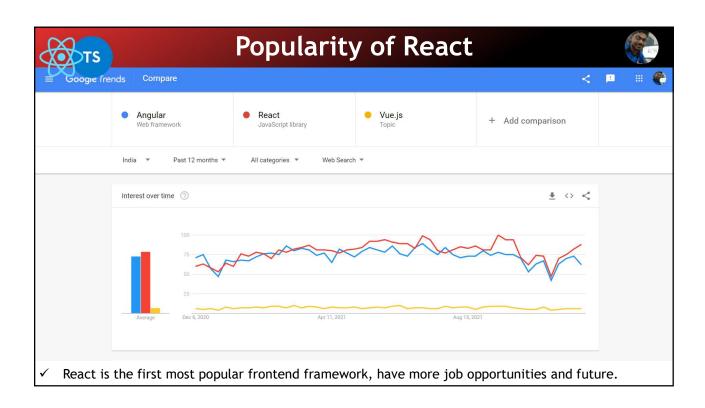


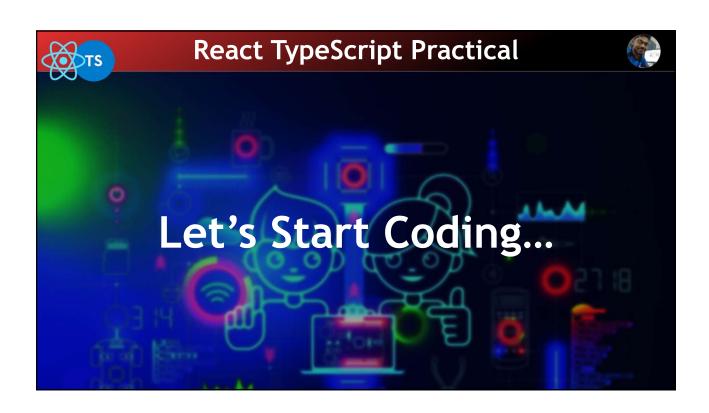
ReactJS vs React TypeScript

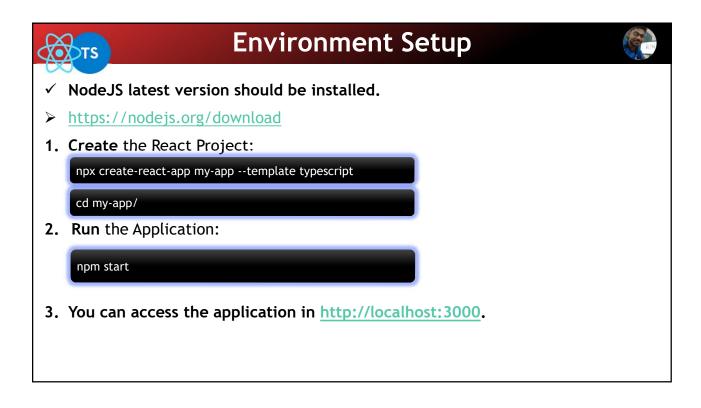


- ReactJS is by default a JavaScript based user interface library, which uses completely JavaScript only.
- ✓ React TypeScript is a TypeScript based user interface library, which supports both TypeScript as well as JavaScript, as TypeScript is superset of JavaScript.
- ✓ ReactJS doesn't have type checking feature, due to that we may get more runtime errors.
- ✓ React TypeScript has type checking feature, which checks type for each and every variable that we use.
- ✓ So, that if we assign any non-related data it will throw error which helps us to get very less to no runtime errors.

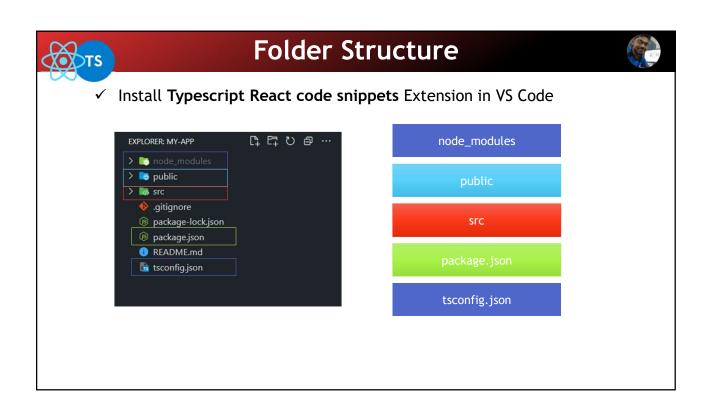
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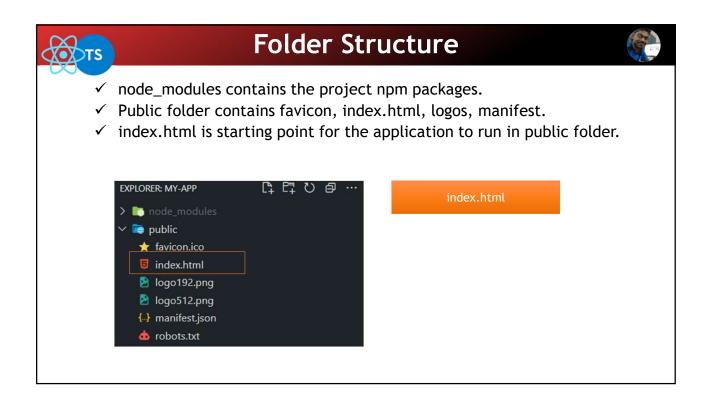


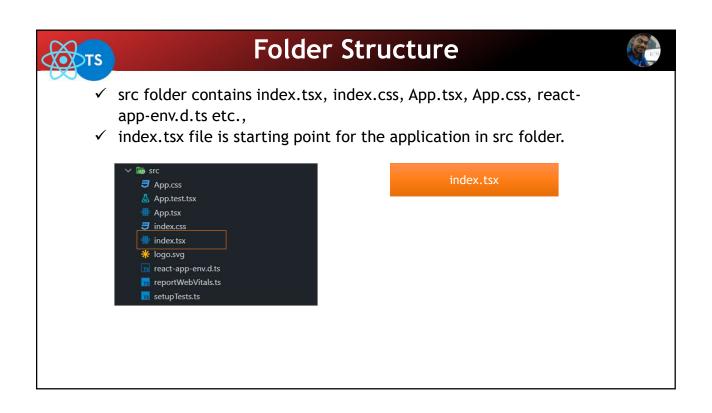


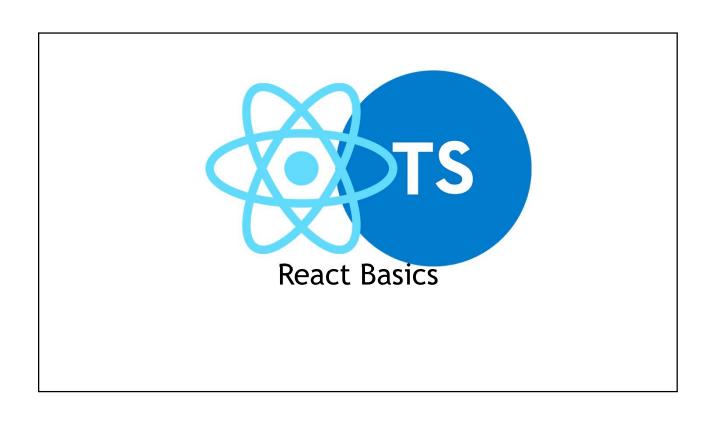


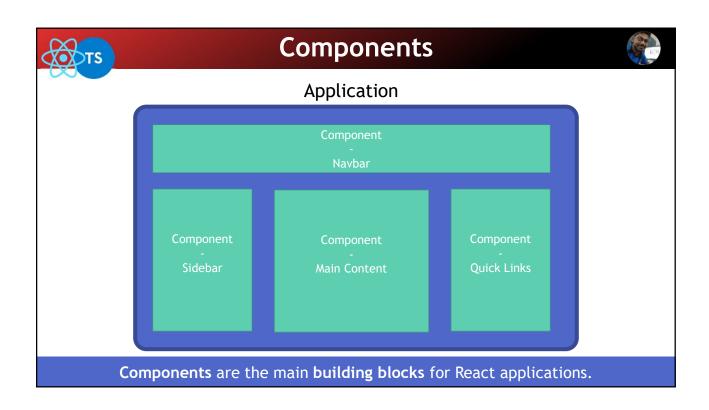




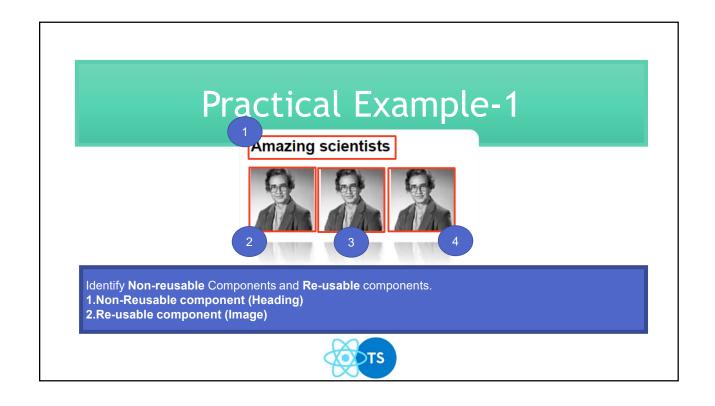


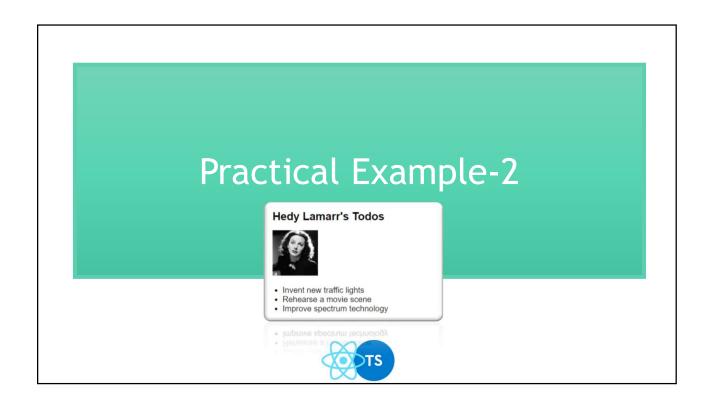


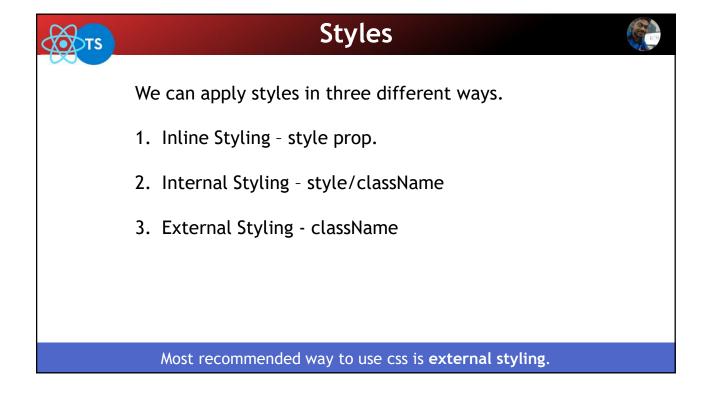












Practical Example-3 Gregorio Y. Zara's Todos Improve the videophone Prepare aeronaultos lectures Work on the alcohol-fuelled engine Mork ou par specific process guidane Indicate process guidane Mork ou par specific process guidane Mork ou par specific process guidane Mork ou par specific process guidane



Advantages and Disadvantages



- ✓ Advantages:
- ✓ Re-usable code
- ✓ Components
- ✓ TypeScript: better tooling, cleaner code, and higher scalability
- ✓ Medium Learning Curve
- \checkmark Both Web and Mobile Apps can be done with the similar code with minor changes.
- ✓ <u>Disadvantages:</u>
- ✓ No standard version yet, It keeps on updating the new features.
- √ No standard project structure.



Summary



- ✓ React is a free and open-source front-end JavaScript/TypeScript library for building user interfaces based on components.
- ✓ Easy to setup development environment.
- ✓ Easy to learn.
- ✓ Most trending framework for frontend developers.
- √ Have more job opportunities.

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