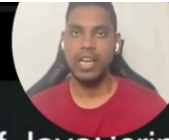


Type Script

What Is TypeScript?



TypeScript is an open source language and is a superset of JavaScript

- Offers additional features to JavaScript including static types
- Using types is completely **optional**
- Compiles down to regular JS
- Can be used for front-end JS as well as backend with Node.js
- Includes most features from ES6, ES7 (classes, arrow functions, etc)
- Types from 3rd party libraries can be added with **type definitions**



Compiling TypeScript



- TypeScript uses **.ts** and **.tsx** extensions
- **TSC** (TypeScript Compiler) is used to compile **.ts** files down to JS
- Can watch files and report errors at compile time
- Many tools include TS compilation by default
- Most IDEs have great support for TS
- The **tsconfig.json** file is used to configure how TypeScript works