

# Conclusion

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# Executive Summary



**TypeScript is compiled with the tsc tool**

- Installed via **npm**
- Invoked by the command line

**Preferences are stored in tsconfig file**

- Output directory
- Intake files
- Desired output language (ES5, ES6)
- Much more

**Running the compiler in watch mode eliminates the need to manually build**

- Efficient but requires careful setup



# Executive Summary



## Project references allow job to be split up into smaller projects

- Saves compile time by using built `.js` files where possible
- Organizes the project logically

## Declaration files are used by the compiler and Intellisense

- Declarations from `npm` add code hints to libraries such as `express`
- Custom declarations allow us to use legacy files or define classes and interfaces

# Executive Summary



## **VSCode can debug TypeScript projects efficiently**

- Debugger for chrome for client-side code
- Debug panel and launch scripts for server-side code

## **ESLint is a simple and effective means of saving time and reducing errors**

- Only high-quality code is submitted
- Catches some obvious errors



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“The sea, the sea, the open sea;  
The blue, the fresh, the ever-free;”

**Barry Cornwall**



# Official TypeScript Resources to Explore



Fully documentation of every TypeScript feature  
<https://www.typescriptlang.org/docs>



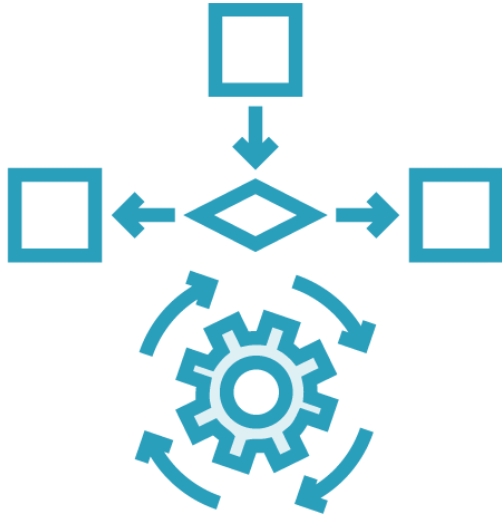
Customize and contribute at the GitHub repo  
<https://github.com/microsoft/TypeScript>



Complete TypeScript compiler options reference  
<https://www.typescriptlang.org/docs/handbook/compiler-options.html>

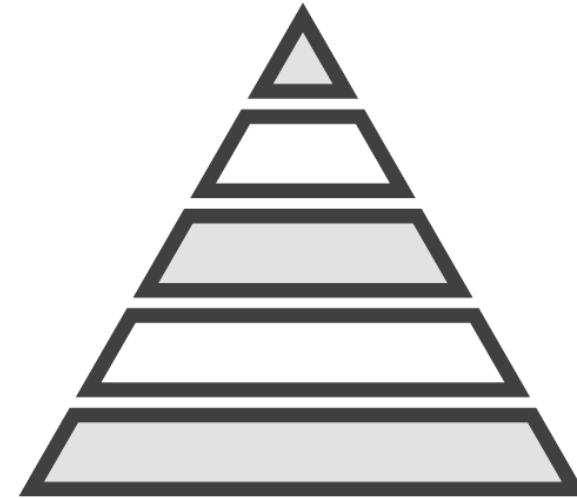


# Continue Your Education with Outstanding Courses



**Creating and Using Generics  
in TypeScript**

**By Brice Wilson**



**Using Specialized Types and  
Language Features in TypeScript**

**By Hendrik Swanepoel**





Thank you!

