

# TypeScript Introduction

## Chapter-1



# Explore



What is Typescript ??



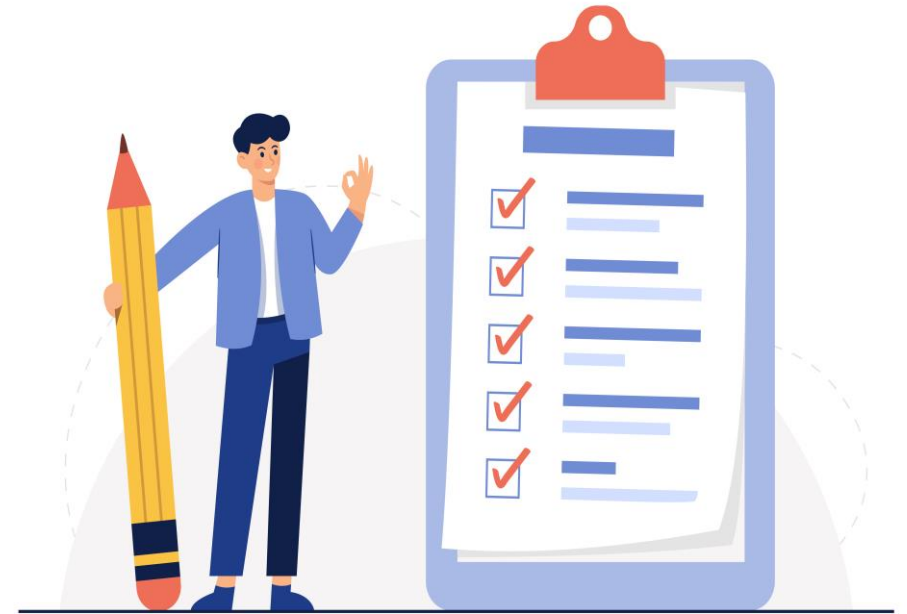
Javascript Vs Typescript ??



Features of Typescript ??



Typescript Environment setup



# What is Typescript ??

TypeScript is a statically typed, object oriented, compiled language.

Designed by Anders Hejlsberg (designer of C#) at Microsoft



TypeScript is a free open source programming language developed by Microsoft.

TypeScript is a superset of JavaScript that provides typed nature to your code.



# Typescript Features



Cross-Platform

Object -Oriented  
Language

{OOPS}  
Object Oriented Programming

DOM  
Manipulation

Static Type  
checking

ES6 Features



# Typescript Vs Javascript

Javascript is dynamically typed Language.

Javascript directly run on the browser.

It is a scripting language.

Typescript is statically typed language.

Typescript is not directly run on the browser.

Typescript is a programming language.

# Why Use Typescript?



**Compile-Time Errors**



**Runs Everywhere**



**Object Oriented Programming**



**Static Typing**

# Typescript Environment



Download and install Node.js and npm from the official Node.js website: <https://nodejs.org/>



Install TypeScript globally on your system using npm.



```
npm install -g typescript
```

# Typescript Environment



Compile your TypeScript code into JavaScript using the TypeScript compiler (tsc). This will generate JavaScript output files based on your TypeScript code and configuration.



Run the compiled JavaScript code using Node.js.

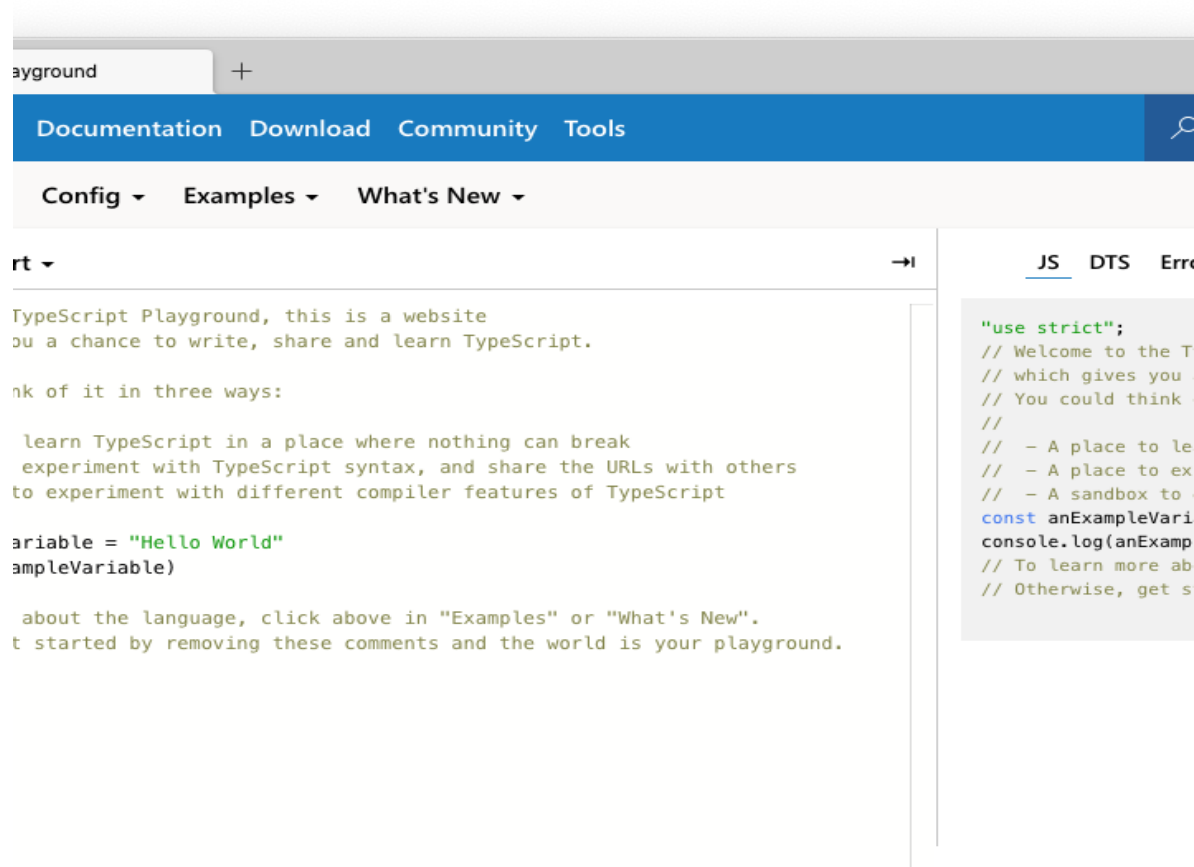


```
tsc job.ts
```

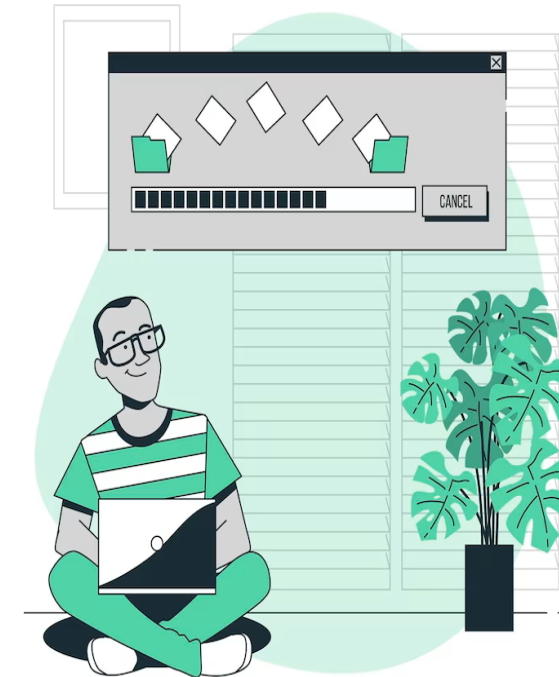
```
node job.js
```



# Online TypeScript editor



<https://www.typescriptlang.org/play>



# Any Questions?

