

How to run a TypeScript Script

There are several ways to run a TypeScript script.

Compile and Run with tsc (TypeScript Compiler)

Compile the TypeScript file:

```
tsc index.ts
```

This will generate a JavaScript file, typically `index.js`.

Run the generated JavaScript file:

```
node index.js
```

Using ts-node

Project setup

```
npm init -y  
touch tsconfig.json
```

tsconfig.json

```
{  
  "compilerOptions": {  
    "module": "commonjs",  
    "target": "es6",  
    "strict": true  
  }  
}
```

Make sure you have **ts-node** and **typescript** installed.

```
npm install ts-node typescript
```

Run the script

```
npx ts-node ./index.ts  
// Or  
  
./node_modules/.bin/ts-node index.ts
```

Use **tsx** for Running TypeScript

tsx is a modern, fast alternative to ts-node. It automatically runs TypeScript files without the need for compiling them first.

Install tsx:

```
npm install -g tsx
```

Run the TypeScript script:

```
tsx index.ts
```

Use **esbuild** to Compile and Run

esbuild is an ultra-fast bundler and compiler. It can also execute TypeScript files.

Install esbuild:

```
npm install -g esbuild
```

Run the TypeScript file:

```
esbuild index.ts --bundle --outfile=out.js  
&& node out.js
```

This compiles the TypeScript file and outputs a bundled out.js, which is then executed with Node.js.

5. Using Babel with TypeScript

Babel can also be used to transpile TypeScript into JavaScript, though it doesn't check types (it just strips them).

Install Babel along with TypeScript preset:

```
npm install --save-dev @babel/core
@babel/cli @babel/preset-typescript
```

Create a `.babelrc` file:

```
{
  "presets": ["@babel/preset-typescript"]
}
```

Then, compile and run the script:

```
npx babel index.ts --out-file index.js
node index.js
```

Compile **ts** and run output file

```
npm i nodemon
npm i ts-node
nodemon --watch src/**/*.*ts --exec 'ts-
node' src/index.ts

// --watch : Watches your TypeScript files
in the src directory.
// --exec Runs the TypeScript files using
ts-node
// index.ts: The entry file you want to
run.
```

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Bringing over 15 years of software industry experience, I use my full-stack skills to deliver scalable, user-friendly web and mobile applications that align with both user needs and business goals.



My Skills

- Next.js
- React.js
- Node.js
- Flutter
- Laravel

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