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Download TypeScript

TypeScript can be installed through three installation routes depending on how you intend to use it: an npm module, a NuGet package or a Visual Studio Extension.

If you are using Node.js, you want the npm version. If you are using MSBuild in your project, you want the NuGet package or Visual Studio extension.

TypeScript in Your Project

Having TypeScript set up on a per-project basis lets you have many projects with many different versions of TypeScript, this keeps each project working consistently.

via npm

TypeScript is available as a package on the npm registry available as `"typescript"`.

You will need a copy of Node.js as an environment to run the package. Then you use a dependency manager like [npm](npm), yarn

with Visual Studio

For most project types, you can get TypeScript as a package in Nuget for your MSBuild project app.

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or pnpm to download TypeScript into your project.

```
npm install typescript --save-dev
```

| npm | yarn | pnpm |

All of these dependency managers support lockfiles, ensuring that everyone on your team is using the same version of the language. You can then run the TypeScript compiler using one of the following commands:

```
npx tsc
```

| npm | yarn | pnpm |

When using Nuget, you can install TypeScript through Visual Studio using:

- The Manage NuGet Packages window (which you can get to by right-clicking on a project node)

- The Nuget Package Manager Console (found in Tools > NuGet Package Manager > Package Manager Console) and then running:
  ```
  Install-Package Microsoft.TypeScript.MSBuild
  ```

For project types which don't support Nuget, you can use the TypeScript Visual Studio extension. You can install the extension using `Extensions > Manage Extensions` in Visual Studio.

The examples below are for more advanced use cases.

Globally Installing TypeScript

It can be handy to have TypeScript available across all projects, often to test one-off ideas. Long-term project-wide installation over a global install so that they can benefit from reproducible builds across

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via npm

You can use npm to install TypeScript globally, this means that you can use the `tsc` command anywhere in your terminal.

To do this, run `npm install -g typescript`. This will install the latest version (currently 5.6).

via Visual Studio Marketplace

You can install TypeScript as a Visual Studio extension, which will allow you to use TypeScript across many MSBuild projects in Visual Studio.

The latest version is available [in the Visual Studio Marketplace](#).

Working with TypeScript-compatible transpilers

There are other tools which convert TypeScript files to JavaScript files. You might use these tools for speed or consistency with your existing build tooling.

Each of these projects handle the file conversion, but do not handle the type-checking aspects of the TypeScript compiler. So it's likely that you will still need to keep the above TypeScript dependency around, and you will want to enable [isolatedModules](#).

Babel

[Babel](#) is a very popular JavaScript transpiler which supports TypeScript

swc

[swc](#) is a fast transpiler created in Rust which supports many of Babel's features including TypeScript.

Sucrase

[Sucrase](#) for usin support

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files via the plugin [@babel/plugin-transform-typescript](#).

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