**Example tsconfig.json & Deep Dive**

The tsconfig.json file can be scary! Over all those years, dozens of options and settings have been added - and trying to make sense of them all is almost impossible.

Thankfully, you really don't need to understand them all, though!

Very often, you'll be working in a project created with build tools like [Vite](https://vite.dev/) which create a fitting tsconfig.json file for you.

If you DO want to understand some of the settings you see in those generated tsconfig.json files, the [official reference](https://www.typescriptlang.org/tsconfig) can be helpful.

And if you need a basic tsconfig.json file because you're working in a project that doesn't come with one, you can consider using this one (also available [here](https://gist.github.com/mschwarzmueller/2ba4a82da34298d7a545269256ed6acf)):

{

"target": "ES2022", // Good for modern browsers or Node.js

"compilerOptions": {

"esModuleInterop": true, // Ensures ESM and CJS imports work together well

"skipLibCheck": true, // Ensures .d.ts files from 3rd libraries are not type-checked

"target": "es2022", // Sets a relatively modern ECMAScript version as compilation target

"allowJs": true, // Allows importing .js files into .ts (helpful when migrating projects)

"strict": true, // Ensures strict type checking (i.e., noImplicitAny etc)

"noUncheckedIndexedAccess": true, // Adds undefined as a value when accessing by index

// "noImplicitOverride": true, // Enable this when working with classes & inheritance

"noUnusedLocals": true, // to avoid unused variables

"module": "NodeNext", // Supports both ESM & CJS modules / imports

"outDir": "dist", // Store compiled files in "dist" folder

"sourceMap": true, // Enables source maps for easier debugging

"lib": ["es2022", "dom", "dom.iterable"] // Or without "dom" libs when building for Node

}

}

The above configuration will likely **NOT work** when using third-party build tools or bundlers - but, again, if you are using such tools, you'll typically also use them or some helper tools to create projects with a pre-defined tsconfig.json file.