

Debugging TypeScript

TypeScript code is not processed by browsers that work with JavaScript code. Therefore to be executed, TypeScript code has to be translated into JavaScript. This operation is referred to as *transpilation* and the tools that perform it are called *transpilers*.

For more details about using *transpilers* in IntelliJ IDEA, see the section [Using File Watchers](#).

To debug TypeScript code, perform these general steps:

1. [Transpile the TypeScript code into Javascript](#).
2. In the editor, open the HTML files with the TypeScript references.
3. Manually replace the references to the TypeScript files with the references to the JavaScript files that were generated through the *transpilation*.
4. [Configure the JavaScript debugger](#).
5. [Configure and set breakpoints](#) in the TypeScript code. Although actually debugging will be performed against the generated JavaScript, IntelliJ IDEA will emulate TypeScript debugging using the generated source-maps that set correspondence between lines in the the TypeScript and in the JavaScript code.
6. Proceed as if you were debugging JavaScript:
 1. Initiate a debugging session. For details about *local* and *remote* debugging, about debugging single files and entire applications, see [Debugging JavaScript](#).
 2. If you are using Chrome, install and configure the *JetBrains Chrome Extension*. For details, see [Using JetBrains Chrome Extension](#).
 3. [Step through the program](#), [stop and resume](#) program execution, [examine it when suspended](#), etc.

Because JavaScript debugging is supported in *Firefox* or *Google Chrome* only, TypeScript can also be debugged only in these browsers.

See Also

Concepts:

- [Running, Debugging and Testing](#)

Procedures:

- [Running and Debugging JavaScript](#)
- [Debugging](#)
- [TypeScript Support](#)

Reference:

- [Debug Tool Window](#)

External Links:

- http://wiki.jetbrains.net/intellij/Debugging_JavaScript_with_IntelliJ_IDEA 

Web Resources:

- [Developer Community](#) 