

11 Source Files and External Modules

TypeScript implements external modules that are closely aligned with those proposed for ECMAScript 6 and supports code generation targeting CommonJS and AMD module systems.

NOTE: TypeScript currently doesn't support the full proposed capabilities of the ECMAScript 6 import and export syntax. We expect to align more closely on the syntax as the ECMAScript 6 specification evolves.

11.1 Source Files

A TypeScript **program** consists of one or more source files that are either **implementation source files** or **declaration source files**. Source files with extension '.ts' are *ImplementationSourceFiles* containing statements and declarations. Source files with extension '.d.ts' are *DeclarationSourceFiles* containing declarations only. Declaration source files are a strict subset of implementation source files.

SourceFile:

ImplementationSourceFile

DeclarationSourceFile

ImplementationSourceFile:

ImplementationElements_{opt}

ImplementationElements:

ImplementationElement

ImplementationElements *ImplementationElement*

ImplementationElement:

ModuleElement

ExportAssignment

export_{opt} *ExternalImportDeclaration*

export_{opt} *AmbientDeclaration*

DeclarationSourceFile:

DeclarationElements_{opt}

DeclarationElements:

DeclarationElement

DeclarationElements *DeclarationElement*