

AspectJ

IntelliJ IDEA's support for [AspectJ](#) is based on the following [plugins](#) that are bundled with the IDE:

- [Spring-AOP and @AspectJ Support](#).
- [AspectJ Support](#).

A dedicated AspectJ [facet](#) which you can add to your Java [modules](#) lets you specify the module-specific [aspectpath](#) thus overriding the [AspectJ compiler settings](#) defined at the project level.

On this page:

- [Overview of AspectJ support](#)
- [Overview of using AspectJ support](#)

In this section:

- [Enabling AspectJ Support Plugins](#)
- [Creating a Library for aspectjrt.jar](#)
- [Creating Aspects](#)
- [Using the Push ITDs In Refactoring](#)
- [Using the AspectJ \(ajc\) Compiler](#)

Overview of AspectJ support

AspectJ support in IntelliJ IDEA includes:

- Ability to create aspects in two forms: as `.aj` files and `.java` files containing classes annotated with `@Aspect`.
- Coding assistance (including [code completion](#)) when writing aspect code. For annotation-style aspects, the coding assistance is provided in full; for code-style aspects, the assistance is limited to [inter-type declarations](#).
- Ability to perform basic aspect refactorings such as [Rename](#) and [Move](#), and also the [Push ITDs In refactoring](#) for inter-type declarations.
- Integration with the AspectJ compiler `ajc` which you can run from within the IDE. (This compiler is part of AspectJ Development Kit (AJDK) which you can download from the [AspectJ website](#).)
- Ability to flexibly configure `ajc` at the project level with an option of redefining the main settings (`aspectpath`) at the module level.

Overview of using AspectJ support

Outlined below are the tasks that are specific to AspectJ. For general instructions, see [IntelliJ IDEA Usage Guidelines](#).

1. Make sure that the Spring-AOP and @AspectJ Support and the AspectJ Support plugins are enabled (see [Enabling AspectJ Support Plugins](#)).
2. [Download](#) and install the AspectJ Development Kit (AJDK).
3. Create a library containing `aspectjrt.jar` and add this library to dependencies of the modules in which you are going to develop your aspects. After the installation of AJDK, `aspectjrt.jar` can be found in `<AJDK installation directory>\lib`. See [Creating a Library for aspectjrt.jar](#).
4. [Create the aspect files](#) and develop the code. Note that code- and annotation-style aspects are supported.
5. If necessary, [refactor the aspect code](#).
6. If you are going to use the AspectJ compiler, [configure the compiler settings](#). The compiler (`ajc`) is in `aspectjtools.jar` which is located in `<AJDK installation directory>\lib`.
7. If you are going to use module-specific `aspectpath`, add AspectJ facets to the corresponding modules and [adjust the facet settings](#) accordingly.

See Also

Concepts:

- [Plugins](#)
- [Facet](#)

External Links:

- [AspectJ website](#)

Web Resources:

- [Developer Community](#)