

Generating Java Code from XML Schema

This topic describes how to get a Java Representation of an [XML Schema](#), which involves mapping the elements of the XML Schema to members of a Java class. With IntelliJ IDEA, this transformation can be done using one of the following data binders:

- **JAXB** generates classes and groups them in Java packages. A package consists of a Java class name and an `ObjectFactory` class. The latter is a factory that is used to return instances of a bound Java class.
- **XmlBeans** converts an XML Schema into a Java class, compiles it, and places in the specified output `.jar` file.

To generate a Java class from an XML schema using jaxb

1. In the active editor tab, open the desired Schema (`.xsd`) file or an XML document which contains the desired Schema. Then choose **Tools | JAXB | Generate Java Code From XML Schema Using JAXB** on the main menu.
2. In the [Generate Java from Xml Schema using JAXB](#) dialog box that opens configure the generation procedure:
 - In the **Schema/DTD/WSDL Path** drop-down list, specify the file to be used as the basis for code generation. By default, the field shows the full path to the current file. Accept this suggestion or click the **Browse** button  and select the desired file in the **Select XML Schema File for JAXB Generation** that opens.
 - From the **Output Path** drop-down list, select the module source directory to place the generated Java class in.
 - In the **Package Prefix** drop-down list, specify the package to include the generated stubs in.
 - Using the check boxes, configure additional options, such as generating annotation, setting the *read-only* status, downloading and installing additional libraries.

To generate and compile a Java class from an XML schema using xmlbeans

1. In the active editor tab, open the desired Schema (`.xsd`) file or an XML document which contains the desired Schema. Then choose **Tools | XmlBeans | Generate Java Code From XML Schema Using XmlBeans** on the main menu.
2. In the [Generate Java Code From XML Schema using XmlBeans](#) dialog box that opens configure the generation procedure:
 - In the **Schema Path** drop-down list, specify the file to be used as the basis for code generation. By default, the field shows the full path to the current file. Accept this suggestion or click the **Browse** button  and select the desired file in the **Select XML Schema /WSDL File for Generation** dialog box that opens.
 - In the **Output Path** drop-down list, specify the name of the `.jar` file to place the generated and compiled Java code in. By default, IntelliJ IDEA suggests to create a new file `types.jar`. To overwrite an existing file, click the **Browse** button  and choose the desired file in the **Select XML Schema / WsdL File for generation** dialog box that opens.
 - To have missing libraries downloaded and installed automatically, select the **Add necessary libraries in order for generated code compile and work** check box.

See Also

Concepts:

- [Markup Languages and Style Sheets](#)
- [Web Services](#)
- [Web Service Clients](#)

- [Plugins](#)

Procedures:

- [Markup Languages and Style Sheets](#)
- [Generating XML Schema from Instance Document](#)
- [Enabling and Disabling Plugins](#)
- [Web Services](#)
- [Web Service Clients](#)

Reference:

- [Generate Java from XML Schema Using JAXB Dialog](#)
- [Generate Java Code from XML Schema Using XmlBeans Dialog](#)
- [Generate Schema from Instance Document Dialog](#)
- [XML-Java Binding Reference](#)

Web Resources:

- [Developer Community](#) 