

ANT - BUILD DOCUMENTATION

http://www.tutorialspoint.com/ant/ant_build_documentation.htm

Copyright © tutorialspoint.com

Documentation is a must in any project. Documentation plays a great role in the maintenance of a project. Java makes documentation easier by the use of the in-built **javadoc** tool. Ant makes it even easier by generating the documentation on demand.

As you know, the javadoc tool is highly flexible and allows a number of configuration options. Ant exposes these configuration options via the javadoc task. If you are unfamiliar with javadocs, we suggest that you start with this [Java Documentation Tutorial](#).

The following section lists the most commonly used javadoc options that are used in Ant.

Attributes

Source can be specified using **sourcepath**, **sourcepathref** or **sourcefiles**.

- **sourcepath** is used to point to the folder of the source files *e. g. srcfolder*.
- **sourcepathref** is used to refer a path that is referenced by the path attribute *e. g, delegates. src. dir*.
- **sourcefiles** is used when you want to specify the individual files as a comma separated list.

Destination path is specified using the **destdir** folder *e. gbuild. dir*.

You could filter the **javadoc** task by specifying the package names to be included. This is achieved by using the **packagenames** attribute, a comma separated list of package files.

You could filter the javadoc process to show only the public, private, package, or protected classes and members. This is achieved by using the **private**, **public**, **package** and **protected** attributes.

You could also tell the javadoc task to include the author and version information using the respective attributes.

You could also group the packages together using the **group** attribute, so that it becomes easy to navigate.

Putting it all together

Let us continue our theme of the **Hello world** Fax application. Let us add a documentation target to our Fax application project.

Given below is an example javadoc task used in our project. In this example, we have specified the javadoc to use the **src.dir** as the source directory, and **doc** as the target.

We have also customized the window title, the header, and the footer information that appear on the java documentation pages.

Also, we have created three groups:

- one for the utility classes in our source folder,
- one for the user interfaces classes, and
- one for the database related classes.

You may notice that the data package group has two packages -- faxapp.entity and faxapp.dao.

```
<target name = "generate-javadoc">
  <javadoc packagenames="faxapp.*" sourcepath="${src.dir}"
    destdir = "doc" version = "true" windowtitle = "Fax Application">

    <doctitle><![CDATA[= Fax Application =]]></doctitle>
```

```
<bottom>
  <![CDATA[Copyright © 2011. All Rights Reserved.]]>
</bottom>

<group title = "util packages" packages = "faxapp.util.*"/>
<group title = "web packages" packages = "faxapp.web.*"/>
<group title = "data packages" packages = "faxapp.entity.*:faxapp.dao.*"/>
</javadoc>

<echo message = "java doc has been generated!" />
</target>
```

Let us execute the javadoc Ant task. It generates and places the java documentation files in the doc folder.

When the **javadoc target** is executed, it produces the following outcome:

```
C:\>ant generate-javadoc
Buildfile: C:\build.xml

java doc has been generated!

BUILD SUCCESSFUL
Total time: 10.63 second
```

The java documentation files are now present in the **doc** folder.

Typically, the javadoc files are generated as a part of the release or package targets.

Loading [Mathjax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js