

COMP220/COMP285 SVN/Mail example build

Ant SVN and Email integration

The ideal build will not build from local copies, but always be able to keep itself up to date from the source files stored in SVN or git repository.

The example build file, shows how you can

Use SVN from Ant to update your project from the repository

Use a customized logger

Send an email at the end of your build with the status of the build and an attachment of the build log file.

Setting up SVN, mail and Ant contrib

To run the build, you need the correct paths first, try editing the file setp.bat to make it point to the correct directory (where you unzipped the build example).

Now run setp.bat: type **setp** at the command line.

To run the build type runsvn, this runs the runsvn.bat, this contains the correct command line sequence for the file. To change the Ant target, just edit this file or copy to another file and edit.

To send an email to yourself, you will have to edit build.xml to change the destination email address, look for the <mail> task. Note this is configured to use a gmail test account set up for this example, it will be better to configure your own account.

To build the customized logger, type ant makelogger, you can edit the logger and see what happens as you change it, edit com\loggers\JavacFileLogger.java.

Most of the files are present in the zip file but this configuration is for Windows see on the next page where to get the resources you may need.

The logger allows you to decide what you will and won't record in the output log file.

When debugging the build, it is sometimes better to log to the console, try running consolebuild.bat.

For this to work, Ant needs the following

JavaMail

This is a set of Java™ API's available from

<http://www.oracle.com/technetwork/java/javamail/index.html>

Once these are downloaded, put them somewhere easy to find and use the classpath when running the Ant build to get access to them.

SVN command line command

There are many different SVN command line packages, e.g. TortoiseSVN or Visual SVN, once you have installed a package, make sure that the bin directory for the package is in your path.

<http://www.visualsvn.com/visualsvn>
(Free for community use)

Ant contrib extensions

These are extensions to the standard Ant build, which support the **if then else** tasks.

Download from here

<http://ant-contrib.sourceforge.net/>

Copy the jar file ant-contrib-0.3.jar into the ant lib directory.