

# Running SWT (Standard Widget Toolkit) Sample Code

## Install Java 2 Platform

Please skip to the next section if you have a J2SE or J2EE SDK with at least the minimal release version required in AGI's configuration documentation. Otherwise:

1. Browse to URL <http://java.sun.com>
2. Download **J2EE SDK** .
3. Run the J2EE SDK install, accepting default options.
4. Make sure the J2EE SDK's bin directory path is included in such a way that it precedes all other Java SDK paths in the PATH environment variable, e.g. "C:\Sun\AppServer\jdk\bin" for the default install location.

## Install Eclipse's Java Development Tool

Please skip to the next section if you already have Eclipse installed. Otherwise:

1. Browse to URL <http://www.eclipse.org>
2. In the upper right-hand corner of the Eclipse Welcome page you will find a Getting Started box.
3. In the Getting Started box, click on Downloads.
4. Download the latest version of the Eclipse SDK.
5. When you finish the download procedure, extract the zip file to the location where you want Eclipse installed, such as C:\Program Files\. The extraction process will create an eclipse directory at that location. Remember this location for later steps.
6. After installation, you can launch the Eclipse IDE by browsing to the eclipse install directory and double-clicking on `eclipse.exe`. To save time later, right-click on `eclipse.exe` and create a shortcut to it.

**Note:** The above steps could change if Eclipse changes its Web site. However you should be able to download the latest install from somewhere on that site.

## Install SWT (Standard Widget Toolkit)

1. Browse to URL <http://www.eclipse.org/swt/>
2. Download the latest SWT stable release for your platform.
3. To install and use SWT, click the "How to develop SWT applications in Eclipse" link (under Articles) (<http://www.eclipse.org/swt/eclipse.php>) and follow the directions on that page.
4. The Workspace Launcher dialog box prompts for a workspace location. Browse the folders to the parent folder where your SWT samples folder is located, e.g., "<INSTALLDIR>\AGI\STK 7\Help\StkX\Samples\Java\SWT". If you choose a different workspace location, be sure to copy the SWT folder under the directory of the java project that you will create in your new workspace.
5. Close the Welcome screen if shown.
6. By now you should have 'org.eclipse.swt' imported.
7. Create a Java project by navigating File -> New -> Project...
8. Select "Java Project" and click *next*.
9. Enter a project name, e.g. "SWT", and click **next**.

10. Click on the "Projects" tab.
11. Click on the "Add" button and select "org.eclipse.swt".
12. Click on "Libraries" tab.
13. Click the "Add External JARS..." button.
14. In the **file open** dialog browse to <EclipseInstallDir>\plugins (usually C:\Program Files\eclipse\plugins). You will need to include 2 jar files.
15. Locate the core file org.eclipse.core.runtime\_3.1.2.jar and select it.
16. Locate the JFace jar file, for example "org.eclipse.jface\_3.1.1.jar" for JFace 3.1.1.
17. Select the JFace jar file also and click on **finish**.
18. Make sure there are no errors reported in the "Problems" pane below.
19. Your SWT sample code is compiled now.

## Compile & Run the AGI Sample Code

1. There are two samples in your SWT folder: (a) SWTTest.java and (b) JFaceTest.java
2. In the Package pane expand "SWT" project and navigate to the "SWTTest.java" file.
3. Select "SWTTest.java" and click the right mouse button to Run As -> SWT Application.
4. This should launch the "SWTTest.java" sample.
5. Repeat the above 3 steps for the "JFaceTest.java" sample to launch it.