

WorkstationJ Installation Instructions (Windows only)
(September 27, 2010)

- A. The first step in the installation process is to obtain the Java JDK from Sun (it also contains the JRE). The latest version can be obtained from:
<http://www.oracle.com/technetwork/java/javase/downloads/jdk6-jsp-136632.html>. As of September 27, 2010, the latest version was JDK 6 Update 21. Select the "Download" button to go to page where you select your platform (operating system).
1. If you are running a 32-bit version (the usual) of Windows XP, Vista, or 7, select "Windows" from the drop-down box and then select Download.
 2. If you are running a 64-bit version of Windows, you can select "Windows x64" to get the 64-bit version of Java instead.
 3. Run the installer that you downloaded in step 1 or 2. You can just follow the default options in the installer. Registration at the end of the installation is optional.
- B. The second step in the installation process is to obtain the *ImageJ* installer for Windows. It can be downloaded at: <http://rsbweb.nih.gov/ij/download/win32/ij143-nojre-setup.exe>. **NOTE: You will need Administrator privileges to install and update both *ImageJ* and *WorkstationJ*.** Depending on your choice of installation location, you may need only Power User privileges.
1. Run the installer that you downloaded. It will prompt you for the location to install *ImageJ*.
 2. For Windows XP, the default location is "C:\Program Files\ImageJ". Alternative locations would be "C:\Documents and Settings\All Users\ImageJ" or "C:\ImageJ". These locations do not require Administrator privileges to run *ImageJ*, but you will need Power User or Administrator privileges to update *ImageJ*.
 3. For Windows Vista or Windows 7, the preferred location is "C:\Users\Public\ImageJ". This location does not require Administrator privileges to run *ImageJ*, but you will need Power User or Administrator privileges to update *ImageJ*.
 4. After the installer finishes, run *ImageJ* (a desktop shortcut and Start menu item are created by the installer). A configuration file is automatically created for you. **Exit and restart ImageJ before attempting to install WorkstationJ.**
 5. If you installed the 64-bit version of Java, you may receive a warning dialog indicating that it cannot find the Java runtime environment (javaw.exe) the first time you attempt to start *ImageJ*. You will be given the option of browsing for the file. It will be located at "C:\Program Files\Java\jdk1.6.0_21\bin\javaw.exe". By default, the installer will look in "C:\Program Files(x86)\Java\jdk1.6.0_21\bin\javaw.exe". This folder will not exist unless you have also installed the 32-bit JVM as well. If you have installed a version of Java newer than Update 21, you will need to modify the "_21" portion of the URL to correspond with the version you installed.
- C. The third step in the installation process is to obtain the *WorkstationJ* installer for Windows from the Medical Image Perception Laboratory website at <http://perception.radiology.uiowa.edu>. You will need to register and agree to license terms on the site to obtain the installer.
1. Copy the "wj_installer.jar" file to the *ImageJ* plugins folder. On an XP machine, this will likely be "C:\Program Files\ImageJ\plugins" if you used the installer defaults, or "C:\Documents and Settings\All Users\ImageJ" or "C:\ImageJ" if you followed

the instructions above. On a Vista/7 machine, it will be "C:\Users\Public\ImageJ\plugins" if you followed the instructions above.

2. From the menu bar select **Plugins -> WorkstationJ -> Install -> WorkstationJ Installer**. The installer plugin will download the latest version of *WorkstationJ* (consisting of *wj.jar* and *WorkstationJ_plugins.jar* files), modify the "ImageJ.cfg" configuration file to accommodate *WorkstationJ*, and create the "C:\WJ_Data" and "C:\WJ_Raw_Logs" folders that are used by *WorkstationJ*. The installer will also close *ImageJ*.
3. When you restart *ImageJ*, the **Plugins -> WorkstationJ** submenu should contain several additional *WorkstationJ*-specific plugins.

Manual Configuration of ImageJ.cfg for *WorkstationJ* (only necessary if automatic configuration fails)

The following shows the contents of ImageJ.cfg after installing *ImageJ* and before installing *WorkstationJ*:

```
.  
C:\Program Files\Java\jdk1.6.0_21\bin\javaw.exe  
-Xmx640m -cp C:\PROGRA~1\Java\JDK16~1.0_2\lib\tools.jar;ij.jar ij.ImageJ
```

To manually configure the configuration file, modify the classpath specification to include the *wj.jar* file. Your configuration file should then contain: (changes are highlighted)

```
.  
C:\Program Files\Java\jdk1.6.0_21\bin\javaw.exe  
-Xmx640m -cp C:\PROGRA~1\Java\JDK16~1.0_2\lib\tools.jar;ij.jar;wj.jar ij.ImageJ
```

Uninstalling *WorkstationJ*

To uninstall *WorkstationJ* from *ImageJ*:

1. Remove the *wj.jar* file from the classpath specification in the ImageJ.cfg file.
2. Delete the *wj.jar* file from the "ImageJ" folder.
3. Delete the *WorkstationJ_plugins.jar* file from the "ImageJ\plugins" folder.
4. If you do not intend to re-install *WorkstationJ*, delete the *wj_installer.jar* file from the "ImageJ\plugins" folder.