The following steps are to be followed for installing JAVA3D:

* Java has to be installed first inorder to install java3d.
*Download latest java version suitable for your system (32 bit or 64 bit) from http://java.com/en/download/index.jsp
* In the unix terminal, go to the directory where jre1.7.0_21.tar.gz is downloded.
* Type the following commands, one by one in the terminal
 tar -xvzf je1.7.0_21.tar.gz
(To untar tar.gz)
 sudo su
 (java can be installed as root user , after this command root password has to be entered)
 cd jre1.7.0_21
 cd lib
 cd amd64
 (Depending on the system version chosen you may either go to amd64, i386,i586 folders)
 pwd
(copy this path for eg: /home/usr/jre/lib/amd64/libnpjp2.so)
 cd /use/lib/mozilla/plugins
 ln -s /home/usr/jre/lib/amd64/libnpjp2.so
*At this point java is installed.

**To install java3d, there are two ways one is installing it using the synaptic package and other is manual installation
*Using synaptic package:
 sudo apt -get install libjava3d-java
 cp /usr/share/java/j3d*.jar /usr/lib/jvm/java-6-sun/jre/lib/ext/
At this point java3d is also installed.

Manual installation:
mkdir j3d
Download j3d-1_5_2-XXX.bin in the above directory.

./j3d-1_5_2-XXX.bin

(By running the bin file, 3 jar files i.e., j3dcore.jar, j3dutils.jar, and vecmath.jar will be present in lib folder in amd64/i386,i586 depending on system)

* Modify your CLASSPATH environment variable to include the full paths to j3dcore.jar, j3dutils.jar, and vecmath.jar.

exportCLASSPATH=.:/home/j3d/lib/ext/j3dcore.jar:/home/j3d/lib/ext/j3dutils.jar:/home/j3d/lib/ext/vecmath.jar

* Modify your LD_LIBRARY_PATH environment variable to contain the full path to the lib/<ARCH> directory. For example, on 32-bit Linux:

export LD_LIBRARY_PATH=/myhome/j3d/lib/i386