

# Using MATLAB on Linux

To use MATLAB® on Linux (tested with Ubuntu)

1. Install MATLAB® (Assume that your MATLAB installation directory is `/home/username/MATHWORKS_R2011A`).
2. Make sure that C Shell has already been installed on your Linux. To install C Shell on Ubuntu, type the following command in the terminal
  - `~$ sudo apt-get install csh`
3. Create a link to the MATLAB® executable file in `/usr/bin` if it does not exist, and type the following commands in the terminal
  - `~$ sudo -i`
  - `~$ cd /usr/bin`
  - `~$ ln -s /home/username/MATHWORKS_R2011A/bin/matlab matlab`
4. Use a text editor to open the **magicdraw** file in the **bin** folder in the MagicDraw installation directory. Type the following text under the line that contains `cd "$APP_HOME"` to add the MATLAB® **bin** folder to **LD\_LIBRARY\_PATH** of Java and save the **magicdraw** file.
  - On Linux 64-bit, type: `export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/home/username/MATHWORKS_R2011A/bin/glnxa64:/home/username/MATHWORKS_R2011A/sys/os/glnxa64`

```
        JAVA_LAUNCHER=`which java`
        JAVA_BIN_DIR=`absdirname "$JAVA_LAUNCHER"`
        JAVA_HOME=`absdirname "$JAVA_BIN_DIR"`
    fi
fi

JAVA_LAUNCHER="$JAVA_HOME/bin/java"

if [ -x "$JAVA_LAUNCHER" ]; then
    if [ -n "$MAIN_CLASS" ]; then
        MAIN_CLASS=`echo -DMAIN_CLASS=$MAIN_CLASS`
    fi
    BOOT_CLASSPATH=`echo -Xbootclasspath/p:$BOOT_CLASSPATH`
    cd "$APP_HOME"

    export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/home/username/MATHWORKS_R2011A/bin/glnxa64:/
    home/username/MATHWORKS_R2011A/sys/os/glnxa64
    #APP_LAUNCHER
    "$JAVA_LAUNCHER" "${JAVA_ARGS[@]}" "${MAC_ARGS[@]}" "$BOOT_CLASSPATH" "-
    Dlauncher.properties.file=$PROP_FILE" "$MAIN_CLASS" "-cp" "$CLASSPATH"
    com.nomagic.launcher.Launcher "${APP_ARGS[@]}" "$@"

else
    echo "ERROR!"
    echo "Java executable not found in" $JAVA_HOME/bin/java
    echo "Please add java to your PATH environment variable, or specify it in
    file" $PROP_FILE
fi
```

LD\_LIBRARY\_PATH added to the MagicDraw file.

## Related pages

- [Integration with MATLAB](#)
- [Using MATLAB on Microsoft Windows](#)
- [Using MATLAB on Mac OS](#)
- [Integration with external Evaluators](#)