

# Using MATLAB on Mac OS



## Important

Simulation cannot integrate with MATLAB versions earlier than **2016b** because of the new security policies of the Mac OS.

To disable OS X El Capitan's System Integrity Protection (for Mac OS X)

1. Restart your Mac.
2. As soon as the screen turns black, hold down the **command + R** keys to access the Recovery Partition.
3. When the Apple logo appears on the screen, release the keys.
4. Click the **Utilities** menu and select **Terminal**.
5. Type **csrutil disable** in the **Terminal** dialog and press **Return**. A message will appear to indicate that SIP has been disabled.
6. Restart your Mac again for the changes to take effect.
7. Run MagicDraw/Cameo Systems Modeler and integrate it with MATLAB.

To use MATLAB® on Mac OS 10.6 (Snow Leopard)

1. Install MATLAB®.
2. Type the following commands in the terminal to show all files in Finder
  - \$ defaults write com.apple.finder AppleShowAllFiles TRUE
  - \$ killall Finder
3. Add the **DYLD\_LIBRARY\_PATH** variable to Mac OS:
  - 3.1 Create an empty text file in the */etc* folder and name it: *launchd.conf*.
  - 3.2 Open it with a text editor, for example, TextEdit, and type the following text (no space)

```
setenv DYLD_LIBRARY_PATH /Applications/MATLAB_R2010b.app/bin/maci64:  
/Applications/MATLAB_R2010b.app/runtime/maci64
```

- 3.3 Save the text file as *launchd.conf* to the desktop.
- 3.4 Move the *launchd.conf* file to the */etc* folder.
4. Create a link to the MATLAB® executable file in */usr/bin* if it does not yet exist.
5. Call the following commands in the terminal
  - \$ cd /usr/bin
  - \$ ln -s /Applications/MATLAB\_R2010b.app/bin/matlab matlab
6. Type the following commands in the terminal to reset Finder
  - \$ defaults write com.apple.finder AppleShowAllFiles FALSE
  - \$ killall Finder
7. Restart Mac OS.



## Note

You can also use MATLAB if you are using MagicDraw 18.0 on either Mac OS X 10.10 Yosemite or Mac OS X 10.11 El Capitan by following these steps:

## Related pages

1. Disable the SIP (if your Mac is OS X El Capitan) by following the instruction for disabling OS X El Capitan's System Integrity Protection (SIP).
  - [Integration with MATLAB](#)
  - [Install MATLAB® on Microsoft Windows](#)
  - [Using MATLAB on Linux](#)
  - [Create the file com.nomagic.magicdraw.simulation.mathengine.plist.](#)
  - [Integration with external Evaluators](#)
- 3.1 Create a text file and type the following text.

```
<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">  
<plist version="1.0">  
  <dict>  
    <key>Label</key>  
    <string>com.nomagic.magicdraw.simulation.mathengine.plist</string>  
    <key>ProgramArguments</key>  
    <array>  
      <string>sh</string>  
      <string>-c</string>  
      <string>  
launchctl setenv DYLD_LIBRARY_PATH  
/Applications/MATLAB_R2012a.app/bin/maci64:/Applications/MATLAB_R2012a.app/runtime/maci64  
</string></array>  
    <key>RunAtLoad</key>  
    <true/>  
  </dict>  
</plist>
```