

PLT Tools

A Graphical Interface for the NONMEM System

Quickstart

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Quickstart

This document describes the shortest procedure to getting started with **PLT Tools**. If you follow this approach, we recommend that you subsequently review the User's manual.

Install *PLT Tools*

1. Download and unzip the platform-specific archive.
2. Click on the icon for the installer and follow its instructions. Select a location for installation:

Recommended Location:

Windows:

Program Files (usually: C:\Program Files)

OS X

/Applications

Alternative Locations:

Windows:

C:

Desktop

OS X

Desktop

The installer will test whether you have "write" privileges for the location that you selected. If not, it will not attempt installation in that location (a message box will explain the problem).

If none of these locations are appropriate, the user can select other locations; however, testing in other locations has been limited. If you encounter difficulties while installing in other locations, please contact support@PLTsoft.com for information.

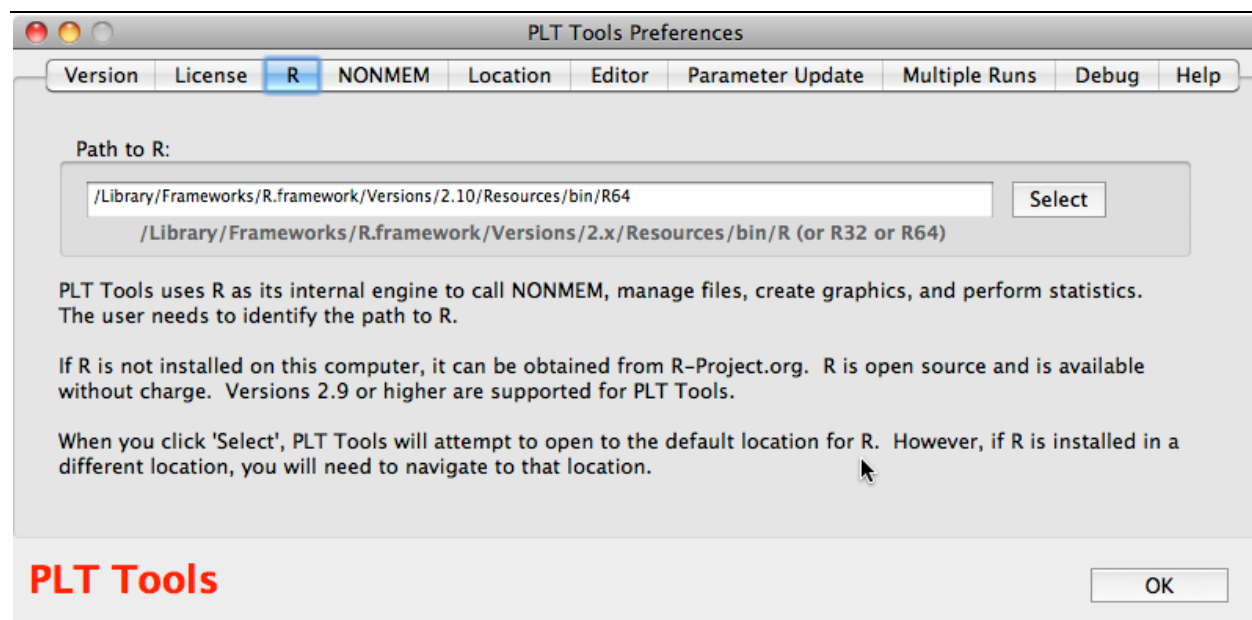
3. Open the application by double clicking the icon or the shortcut.
4. Open the Preferences menu. Select the Software tab. Select the path to R. Usual locations are (**note the selection of Rterm in Windows**):

Windows: \Program Files\R\R\4.0.3\bin\Rterm.exe

OS X: /Library/Frameworks/R.framework/Versions/4.0.2/Resources/bin/R

If you have installed a newer version of R, change the text "4.0.3" or "4.0.3" accordingly.

Click the **Select** button to navigate to the correct path.



5. Select the engine to run NONMEM, either nmfe or nmqual. Then, provide the path to the NONMEM installation. Additional information is provided in the Installation Guide:

nmfe:

Default NONMEM location: see Installation (above)

Folder: run

File:

Windows:

NONMEM 6:	nmfe6.bat
NONMEM 7:	nmfe7.bat
NONMEM 7.2:	nmfe72.bat
NONMEM 7.3:	nmfe73.bat
NONMEM 7.4:	nmfe74.bat
NONMEM 7.5:	nmfe75.bat

OS X:

NONMEM 6:	nmfe6
NONMEM 7:	nmfe7
NONMEM 7.2:	nmfe7.2
NONMEM 7.3:	nmfe7.3
NONMEM 7.4:	nmfe7.4
NONMEM 7.5:	nmfe7.5

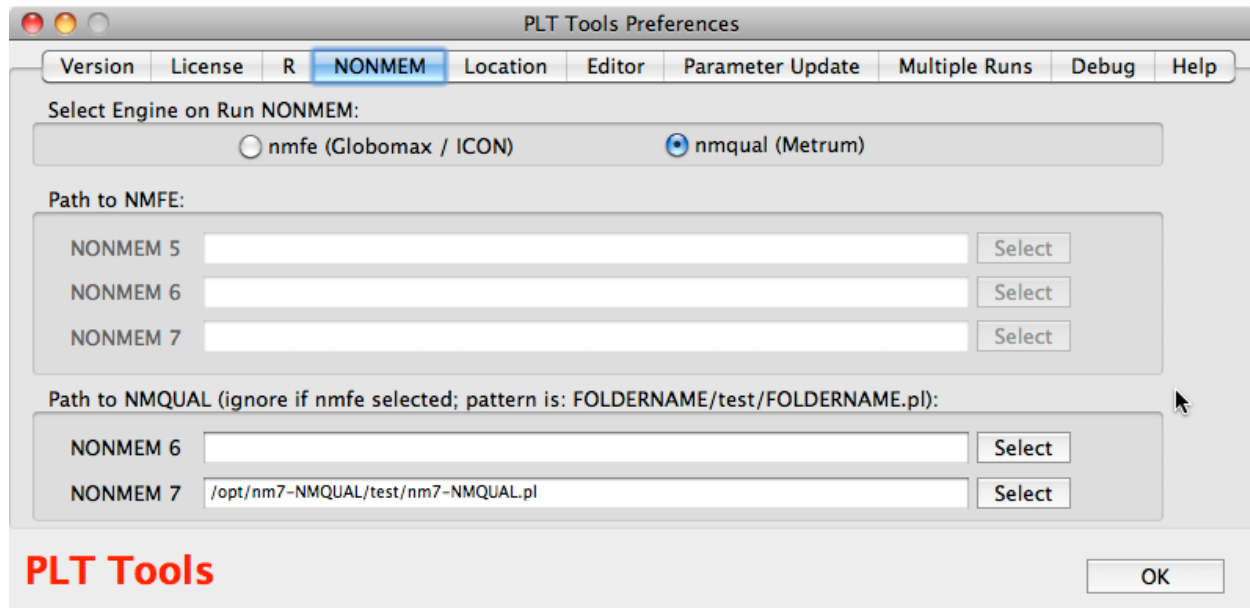
nmqual:

Default NONMEM location: see Installation (above)

Folder: test

File: extension is .pl (perl). Filename is identical to foldername,
e.g., C:\nm7-nmqual\test\nm7-nmqual.pl'

If you use Intel Fortran in Windows, you need to perform one additional step during the installation process. See the yellow-highlighted text in the Installation Manual.



6. Return to the Workspace / Options Window. Select the version of NONMEM that you intend to run (5, 6, or 7).
7. Use the pull-down menu adjacent to “Working Folder” to navigate to the folder `Working` in the folder `PLTTOOLS.FIRST.RUN` in the Desktop folder. The installer will now attempt to complete its task. Messages will appear in the Output window (console) indicating if the installer was successful. If not, see the Installation Manual for further instructions.
8. You are now ready to use **PLT Tools**. You can obtain and install a license later (optional).

Running examples provided to you

1. The folder `PLTTools-Examples` should have been installed on your Desktop.
2. In the Workspace / Options tab window, use the pull-down menu next to “Working Folder” to navigate to the folder `Working` in the folder `PLTTOOLS.FIRST.RUN`. When you return to this pull-down menu, that folder will be available in a list. After this step (and every step), examine the Output window for warnings and error messages.
3. Move to the Project Controller tab. Using the pull-down menu, select `ConfirmThatPLTToolsRuns.txt` (depending on your system settings, the extension may not be visible).
4. Using the pull-down menu next to “Graphics Script”, select the file `GraphicsScript.pltg` (depending on your system settings, the extension may not be visible). Note that if there is only one Graphics Script, that file will have already been selected automatically.
5. Click **NONMEM + Graphics** in the Commands section of the Project Controller Window. NONMEM should run and graphics will be created. When the run is complete, three PDF files

(graphics, a brief summary of the NONMEM run, and a shorted version of NONMEM's output, including the control stream) should open automatically. In addition, a folder named `MostRecentRun-Copies` will open. This folder contains up to twenty files relevant to the present run.

6. Also, examine the files in the folders `TEXTFILES`, `TABLES`, `PDF`, `GRAPHICS`, and `PDF` in the folder `PLTTOOLS.FIRST.RUN`.

Running your own code

1. The first step is to create a folder in which your work will be performed. There are two means to accomplish this, one using PLT Tools, the other using other applications on your computer.

Using **PLT Tools**: In the FILE menu, select "New Project". A menu will appear – select the location of the folder. There are no restrictions on naming the folder (however, metacharacters [e.g., [,] , / , \] or spaces may cause problems with the operating system. **PLT Tools** will create that folder and the necessary sub-folders.

Using the operating system: Using your usual tools (e.g., Command Prompt or Explorer in Windows or a terminal window in OS X), create a Project Folder; choose any name allowed by the operating system (except that the path to the folder cannot contain special characters). Within that folder, create a folder named `WORK` (the name must contain the letters "work" in sequence, case-insensitive; longer names are acceptable).

2. Create a control stream in the `WORK` folder, either by copying an existing script from elsewhere or editing *de novo*; alternatively, the user can access a library of control streams by clicking the **New** button. Make sure that the control stream contains a `$TABLE` statement.

Recommended syntax for the table record is:

```
$TABLE [LIST OF COLUMNS FOR THE TABLE]
      NOPRINT FILE=AllRecords.txt
```

Mandatory columns for this table include `ID` and `TIME`; if *post hoc* predictions are obtained, it is mandatory to include `IPRED` (this parameter can also be named `IPRE` or `IPRD`).

Recommended are either `EVID` or `MDV` and `AMT` (and `RATE`, if relevant). `IRES` is optional; if not included, it will be calculated during post-processing.

3. In the Project Controller window, click the **Select** button next to "Working Folder", then, navigate to the folder `WORK` in the Project Folder that you created. After this step (and every step), examine the Output window for warnings and error messages.

4. Click the **Select** button next to "Control Stream"; the browse dialog should open to the Working Folder. Select the control stream that you created.

5. In the File menu, select **New Graphics Editor** or select the **New** button next to "Graphics Script". Populate fields in the Graphics Editor (see "Populating the Graphics Editor"). When this is completed, click **Save**, then save the file in the folder `SCRIPTS-GRAPHICS` that you

created. Next, click the **Select** button next to “Graphics Script”; the brose dialog should open to your folder `SCRIPTS–GRAPHICS`. Select the file that you created.

6. Click **NONMEM + Graphics** in the Commands section of the Project Controller Window. NONMEM should run and graphics will be created. When the run is complete, three PDF files (graphics, a brief summary of the NONMEM run, and a shorted version of NONMEM’s output, including the control stream) should open automatically. In addition, a folder named `MostRecentRun–Copies` will open. This folder contains up to twenty files relevant to the present run.