

Steps for installing Mathematica with ROOT on a Mac: pedestrian version.

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1. Download Mathematica (8.0 unless you have an old PowerPC processor i.e. a G5 Desktop, in which case you will have to use Version 7). If you're in a hurry there is a 15 day trial at the Wolfram website. Most labs and Universities that have a site license also maintain a mirror site for the download. Ask your IT admin how to access the .dmg file (~650 Mb) and the license server (or ask for a home use license).
2. Download the latest version of ROOT (e.g. to your Desktop), which makes a folder called "root" on your Desktop.
3. Download and unzip the Mathematica_ROOT package (e.g. to your Desktop) from the location provided on the CERN ROOT page or at Wolfram.com.
4. Open the Terminal app and type:

```
cd ~/Desktop/root  
. bin/thisroot.sh [or for csh: source bin/thisroot.csh]
```

to set the ROOTSYS environment variable needed in the next step.
5. Now go to the Mathematica_ROOT directory to build the ROOT reader plugin by typing:

```
cd ~/Desktop/Mathematica_ROOT/ROOT  
cp makefile.mac64 makefile [for 32-bit Macs: makefile.mac32]  
make clean  
make
```
6. Exit terminal and say "Sayonara" to the UNIX environment.
7. Launch Mathematica and in a Notebook type:

```
$UserBaseDirectory
```

(followed by "shift+return" to evaluate). Now create the subdirectories (i.e. folders):

```
$UserBaseDirectory/SystemFiles/Formats
```

where you substitute *\$UserBaseDirectory* by the folder which Mathematica returned.
8. Now copy the whole ROOT subdirectory contained in Mathematica_ROOT into this Formats folder.
9. **You are now ready to analyze ROOT data files with Mathematica!!**
10. Open in Mathematica the notebook "Mathematica_ROOT_M8_Usage.nb" that can be found in the Examples subfolder of Mathematica_ROOT. Evaluate the notebook and examine the evaluated cells. Spend a couple hours getting good at Mathematica.