

The following tools are required for Day 1:

1. A web browser (e.g. Firefox, Chrome)
2. The IMOD software package, a set of image processing and visualization tools for microscopic data.

A. For Windows:

- i. Download the appropriate 'Cygwin Installer' from:  
<http://bio3d.colorado.edu/imod/download.html#Cygwin>

Run the downloaded '.exe' file and follow installation directions that appear

Note: "When running Cygwin setup you MUST change the selection from "Default" to "Install" in the Select Packages dialog. A note about this will be displayed during installation as well.

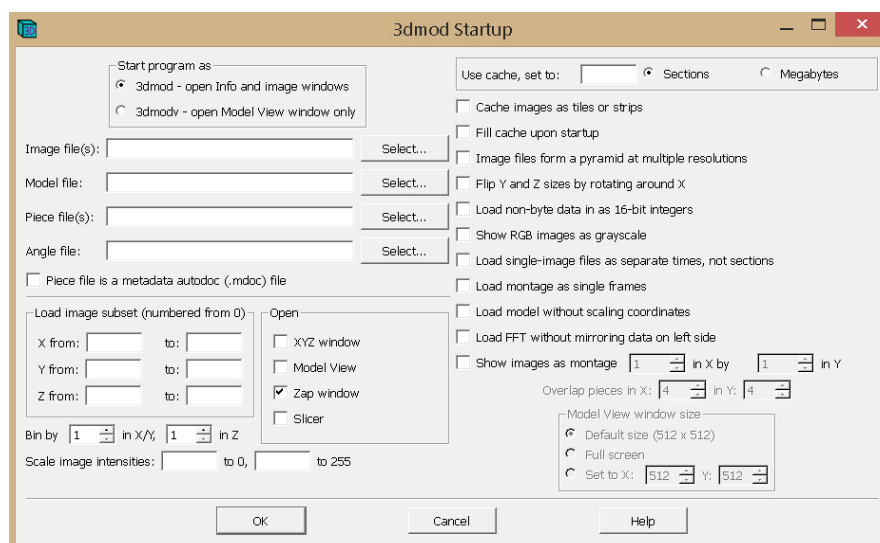
- ii. Download the appropriate IMOD 'clickable installer' from:  
<http://bio3d.colorado.edu/imod/download.html#Latest-Windows>

**NOTE:** If you don't know your CUDA version just pick the installer for 'Windows 64-bit with CUDA 3.0'

Run the downloaded '.exe' file and choose to install IMOD with the default options.

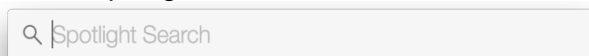
Verify that you can open the IMOD GUI, 3dmod. Open Cygwin by double-clicking the desktop icon and, at the Cygwin command line, type '3dmod' (without the quotes) and hit enter. You should see the following pop up:

- iii.



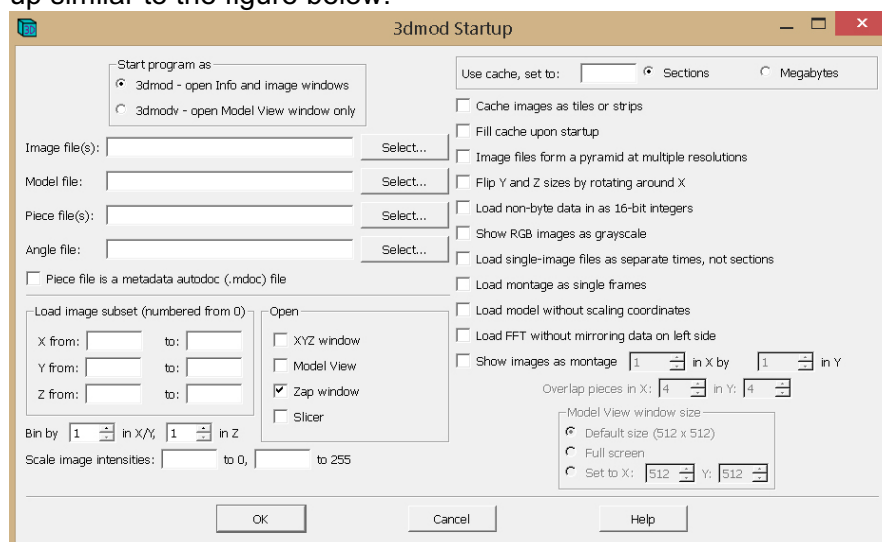
- B. For Mac:
- Download the appropriate installer from:  
<http://bio3d.colorado.edu/imod/download.html#Latest-Mac>
  - Follow the installation instructions at:  
<http://bio3d.colorado.edu/imod/doc/guide.html#InstallingMac>
  - Verify that you can open the IMOD GUI, 3dmod.

Open the Terminal app. This can be done by pressing both the 'command' key (it is left of space bar with  $\text{⌘}$  on it) and the space bar to open the 'Spotlight Search'.

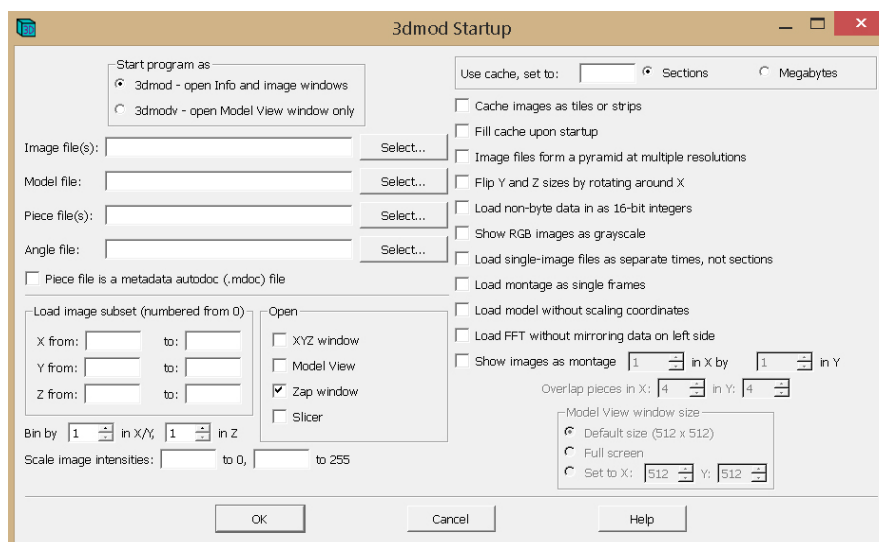


In the 'Spotlight Search' type **terminal** and hit enter/return  
<http://www.wikihow.com/Open-a-Terminal-Window-in-Mac>

Type '**3dmod**' (without the quotes) and hit enter. You should see a pop up similar to the figure below.



- C. For Linux:
- Download the appropriate installer from:  
<http://bio3d.colorado.edu/imod/download.html#Latest-Linux>
  - Follow the installation instructions at:  
<http://bio3d.colorado.edu/imod/doc/guide.html#InstallingLinuxSGI>
  - Verify that you can open the IMOD GUI, 3dmod. Open a terminal and at the command line, type '**3dmod**' (without the quotes) and hit enter. You should see a pop up similar to the figure below.



3. An SSH client
  - A. For Windows: The Cygwin client that was installed with IMOD is sufficient.
  - B. For Mac/Linux: The default Terminal app is sufficient.
  
4. A public SSH Key (If you haven't already generated one)
  - A. For Mac:
    - i. Open the Terminal app. This can be done by pressing both the 'command' key (it is left of space bar with  $\text{⌘}$  on it) and the space bar to open the 'Spotlight Search'.
 

In the 'Spotlight Search' type **terminal** and hit enter/return  
<http://www.wikihow.com/Open-a-Terminal-Window-in-Mac>
    - ii. In the terminal just opened type '**ssh-keygen**' (without the quotes). Follow instructions and enter a unique password.
    - iii. In the same terminal type '**cd ~/.ssh**' and '**ls**' (without the quotes) to see a listing of files.

The '**id\_rsa**' file is your private key and should be kept safe. NEVER SHARE THIS FILE.

The '**id\_rsa.pub**' file is the public key that we will be putting onto Rocce cluster to enable access. To find this directory open 'Spotlight Search', type **~/.ssh** and hit enter.

## B. For Linux

- i. Open a terminal and at the command line type '**ssh-keygen**' (without the quotes). Follow instructions and enter a unique password.
- ii. In the terminal type '**cd ~/.ssh**' and '**ls**' (without the quotes) to see a listing of files.

The '**id\_rsa**' file is your private key and should be kept safe. NEVER SHARE THIS FILE.

The '**id\_rsa.pub**' file is the public key that we will be putting onto Rocce cluster to enable access.

## C. For Windows:

- i. Open Cygwin by double-clicking the desktop icon and, at the Cygwin command line, type '**ssh-keygen -f ~/.ssh/id\_rsa**' (without the quotes) and hit enter. Follow instructions and enter a unique password.
- ii. In the same command line window type '**cd ~/.ssh**' (without the quotes) to change to the .ssh directory where the key files should exist.

The '**id\_rsa**' file is your private key and should be kept safe. NEVER SHARE THIS FILE.

The '**id\_rsa.pub**' file is the public key that we will be putting onto Rocce cluster to enable access

- iii. Type '**explorer .**' (without the quotes, but include the period) to see the files in a file browser.

The public key is circled in red below.

