

# Setting up Stellarium Software

Go to <http://www.stellarium.org/>

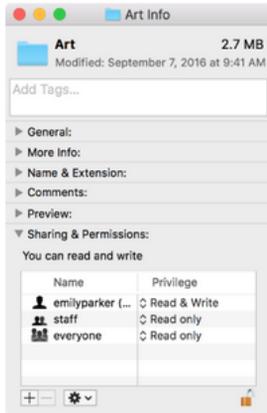
(link on course web page)

Has links for free download to Linux, Mac, or Windows PCs. Click on the link for your device. You will have to give permission to allow the program to be loaded (Mac users see next slide). Note there are Apps available for loading on some other devices (other PCs, phone, pad). There may be a slight charge for a these apps which you would find in the app store. I have no experience with these apps.

Once loaded, start it up. The control buttons are on the bottom with the exit being the last one on the right. Your mouse allows you to “move around” in the sky. If you get stuck or “lost”, exit and start over. Button 2 on the left is very useful as it allows you to easily change the date/time. Button 24 on the bottom can be clicked on to increase the amount of “fast forwarding”, with button 22 then stopping at a particular time, but it is harder to control if you want to be at a date/time. You normally want buttons 2,3,6,7,8, 10 On.

# Setting permission for Mac users

Permission settings determine who can view and alter files on the computer. You change permission settings at the bottom of the Info window for a file, folder, or disk in the [Finder](#). For example, you can change permission settings for a folder so that other users who log in to your Mac, or connect to it for file sharing, can view but not change files in a folder.



## Assign permissions to users and groups

1. [Select a disk, folder, or file](#), then choose **File > Get Info**.
2. If the information in **Sharing & Permissions** isn't visible, click the disclosure triangle.
3. If necessary, click the lock icon  to unlock it, then enter an [administrator](#) name and password.
4. Click a user or group in the **Name** column, then choose a privilege setting from the pop-up menu.
  - **Read & Write**: Allows a user to open the item and change it.
  - **Read Only**: Allows a user to open the item, but not change its contents.
  - **Write Only**: Makes a folder into a drop box. Users can copy items to the drop box, but can't open it. Only the owner of the drop box can open it.
  - **No Access**: Blocks all access to the item.

## Apply permissions to all items in a folder or a disk

1. [Select a folder or a disk](#), then choose **File > Get Info**.
2. Click the lock icon  to unlock it, then enter an [administrator](#) name and password.
3. Click the Action pop-up menu , then choose "Apply to enclosed items."

# Stellarium Control Buttons

## ON LEFT

- 1 Allows you to change location. Ignore if your default location is in northern Illinois (like DeKalb or Sycamore) but note different location if you are further south
- 2 Changes (easily) date and time. Very useful for many exercises.

## ON BOTTOM

- 1,2,3 Constellation lines, names, art (want 1,2 ON)
- 4,5 equatorial and azimuthal grid. Want ON for some questions
- 6,7,8 ground, cardinal points(N,E,S,W),atmosphere. Want ON
- 9 Deep sky objects (like galaxies) leave off. Will use later
- 10 Planets, want ON
- 11-13 Skip
- 14 Full screen versus partial screen toggle (useful)
- 15-16 Exoplanets and meteor showers. Skip for now
- 17-20 skip (20 is blank spot)
- 21 Fast reverse <<
- 22 Forward/Stop (>/=)
- 23 Set time to now
- 24 >> Fast Forward (each click increases speed)
- 25 Exit