Stellarium

CESAR's Booklet

Install Stellarium by clicking on the following link:

http://stellarium.org/

The web page will be similar to **Figure 1**. Click on your Operative System to download it. If you have any problem during your installation you can check the User Guide for further information.
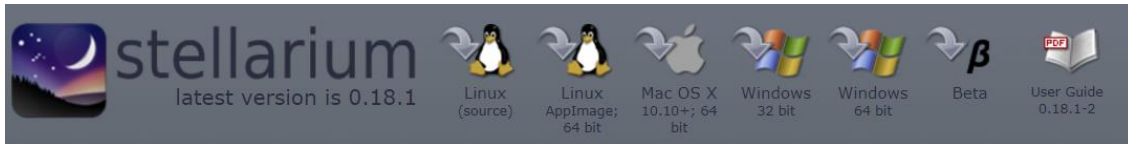

Figure 1: Stellarium webpage

1. When you first start Stellarium you will be placed in a green path in a day or night view, depending on your local time. If the *Location* is active in your device you will be placed there, if not the default is Paris. You can change it manually later if you want.

Figure 2: First view of Stellarium

2. For this Science Case no pre-configuration is needed, we will make use of scripting. However you may know how to use time basic configuration:

Button	Shortcut key	Description
◀◀	J	Decrease the rate at which time passes
▶	K	Make time pass as normal
▶▶	L	Increase the rate at which time passes
⧗	8	Return to the current time & date

Figure 3: Time Travel configuration, as it appears on Official User Guide

You can use the mouse as well. The menus are hidden on the left and lower part of the screen. By placing the mouse over there these menus will appear.

If you increase the time rate more than once you will see the time passing faster. And you can go to the future and backward too!

3. For entering the scripts you need to open the Console. Press F12 on your keyboard and you will see **Figure 4**.
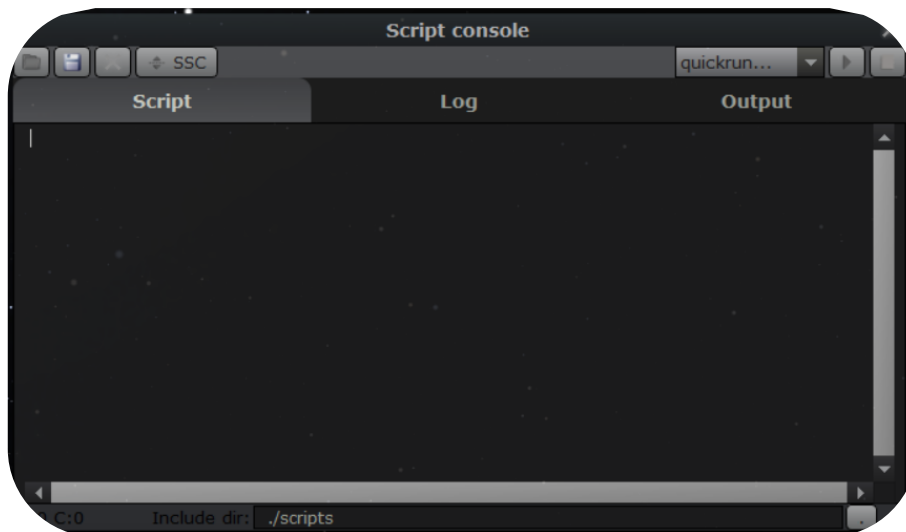

Figure 4: Script Console of Stellarium

4. In the next activities you will have the scripts needed. For example, with the following script you will be able to see how was Earth the day you were born! Copy this script in the console:

```
core.setDate("2018:07:11T22:00:50","utc");
core.setObserverLocation(91.80, 44.24, 7, 1, "", "Moon");

LandscapeMgr.setFlagLandscape(false);
LandscapeMgr.setFlagAtmosphere(false);
LandscapeMgr.setFlagFog(false);

core.selectObjectByName("Earth", true);
core.setMountMode("equatorial");
core.setTimeRate(300);
StelMovementMgr.setFlagTracking(true);
StelMovementMgr.zoomTo(3.96, 5);
```

5. Paste it on the console and then change the date, which is in the first line, and insert your birthday.

6. For running it you just need to click on [image: play button] , which is on the upper right corner

7. Press F2 to open configuration menu, and move to Plug-ins tab. You now need to activate "Angle Measure" plugin. Click on it in the left part of the window, and select "Load at startup". This way the next time we open Stellarium this plugin will be executed and we will be able to use it.
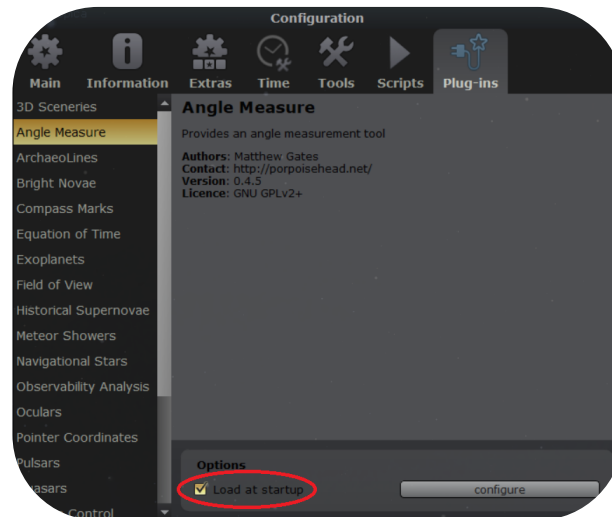

Figure 5: *Angle Measure plugin*

Lastly you have to restart Stellarium. Close it by pressing Cntrl + Q and open it again for starting the activities. Once it is restarted, leave it running in the background because we will need it for next activities.

Links

- An official User Guide can be found here:

https://github.com/Stellarium/stellarium/releases/download/v0.18.1/stellarium_user_guide-0.18.1-2.pdf