

Installation guide for Python for Mephysto toolbox on MacOS 64bit

1.)

Install PyCharm Community Edition -

<http://www.jetbrains.com/pycharm/download/#section=mac>

Download and install Anaconda 2 GRAPHICAL INSTALLER (!) -

<https://www.continuum.io>

2. Open Terminal

Create and activate new anaconda environment (e.g. „Mephysto“):

```
conda create --name Mephysto  
source activate Mephysto
```

Install packages:

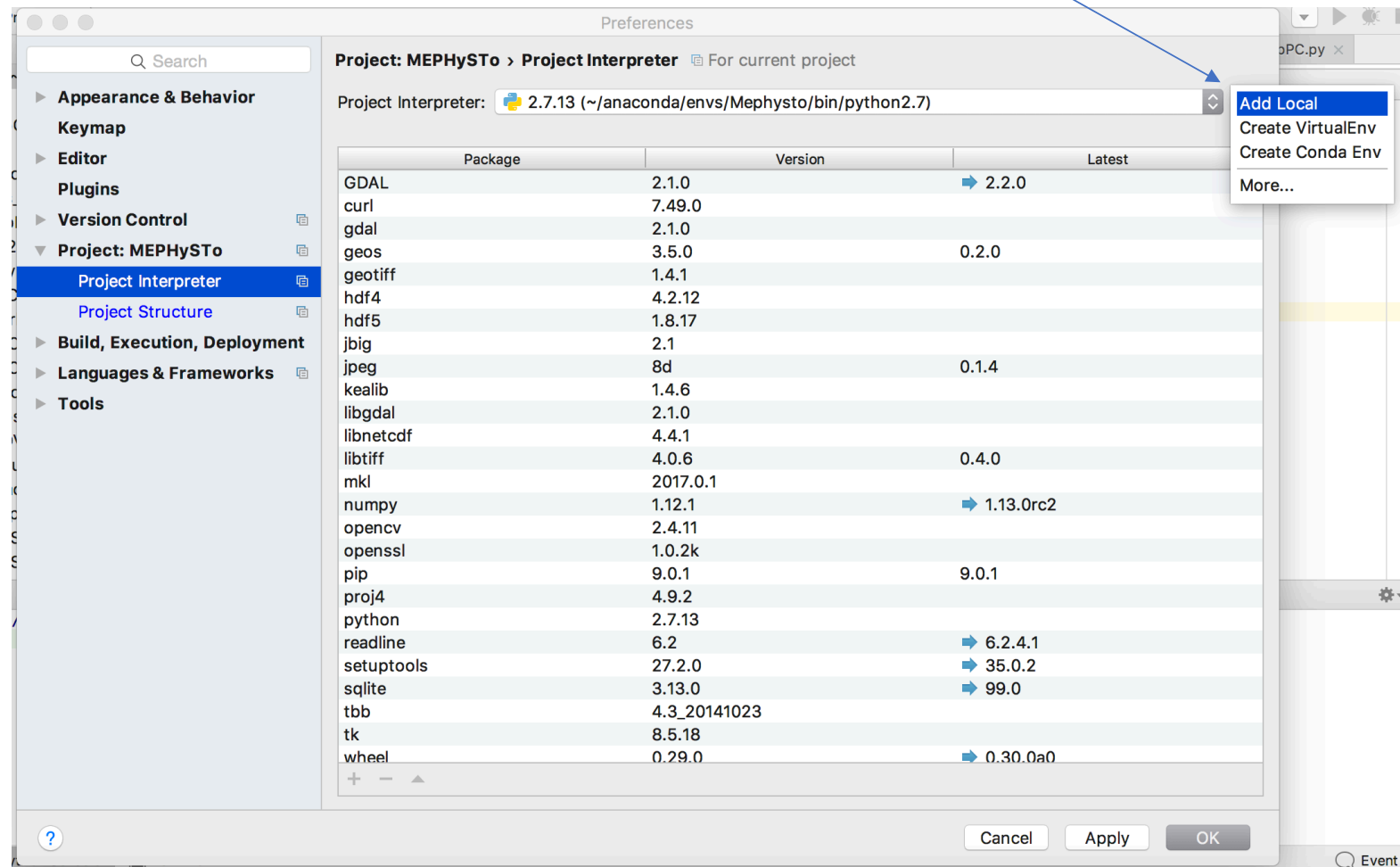
```
conda install -c menpo opencv=2.4.11  
conda install gdal  
conda install scipy  
conda install matplotlib  
conda install PIL  
pip install Pysolar==0.6  
pip install spectral
```

3. Setting up PyCharm

Go to: Preferences – Project – Project Interpreter

Set to:

2.7.13 (~/anaconda/envs/Mephysto/bin/python2.7)



GOT AN
ERROR?

gdal tools are missing (gdalwarp, gdaldem, ..)?

Open up Terminal.
Run the following command:

```
sudo nano /etc/paths
```

Enter your password, when prompted.
Go to the bottom of the file, and enter the path you wish to add, similar to:

```
/Users/sandra/anaconda/envs/Mephysto/bin
```

Hit control-x to quit.
Enter “Y” to save the modified buffer.
Check success by running

```
echo $PATH
```

**GOT AN
ERROR?**

Link to GDAL_DATA missing (EPSG database not loaded)?

Add:

MacOS:

```
os.environ['GDAL_DATA'] = os.popen('gdal-config --datadir').read().rstrip()
```

Windows:

```
#os.popen('gdal-config --datadir').read()  
GDALPATH = '--config GDAL_DATA' C:\Users\NAOMI\Anaconda2\envs\Mephysto\Library\share\gdal''
```

to Python script (right after import of modules)

GOT AN
ERROR?

HyDefinitions file missing?

Put it in your site-packages folder!

```
/Users/sandra/anaconda/envs/Mephysto/lib  
/python2_7/site-packages/
```