INSTALLING PYTHON

ALL-IN-ONE PACKAGE

- Most of modern OSs come with python already installed, but some libraries may e out of date.
- Ureka was a very powerful package to install python + libraries for astronomers. It was developed by STSCI.
- STSCI has now choose Anaconda as the python distribution, with a dedicated environment (e.g. for pyraf).
- The Anaconda distribution already comes with almost all the libraries one need.
- astroconda is a conda environment including some STSCI packages.
- IRAF and pyRAF must be installed additionally.

ANACONDA

- Download from the anaconda web site:
  - https://www.continuum.io/downloads
- or from the IA-UNAM ftp site:
  - ftp://132.248.1.83/temporal/morisset/Anaconda2-4.1.1-Linux-x86_64.sh
  - ftp://132.248.1.83/temporal/morisset/Anaconda2-4.1.1-MacOSX-x86_64.sh
- execute the following:
  - bash Anaconda2-4.1.1-XXX.sh

AFTER INSTALLING

- If you are using a csh based shell, you need to add the following in your resource file ($HOME/.tcshrc for example):
  - setenv PATH $HOME/anaconda/bin:$PATH
- If you are using a bash shell, you need to add the following to your .bashrc:
  - export PATH=$HOME/anaconda/bin:$PATH

TEST INSTALLATION

- from a NEW terminal (for the PATH to be updated):
  - python
  - ipython
- Once in ipython:
  - import numpy as np
  - import matplotlib.pyplot as plt
  - plt.ion()
  - plt.plot(np.arange(10)**2)

UPDATE

- From home (not during the lecture, as it requires some time…):
  - conda update --all
  - pip install -U pip
  - pip install -U virtualenv
  - conda config --add channels http://ssb.stsci.edu/astroconda

ADD SOME LIBRARIES

- conda install jupyter
- conda install pymysql
- conda install ephem
- conda install -c astropy astroquery

INSTALL GIT

- You will need this to download the notebooks easier (but you can do it without git).
- https://git-scm.com/download/