

Photometry Pipeline Installation on a Mac

A. Gustafsson
NAU

March 8, 2017

Make sure you have the following installed on your machine. If you do not, see steps 1-3 below for installation instructions. Otherwise, proceed down to the Photometry Pipeline (PP) installation instructions.

- Xcode
- Anaconda
- Homebrew
- MacPorts

DOWNLOAD INSTALLERS:

1. INSTALL Anaconda

- Download Anaconda from their website: <https://www.continuum.io/downloads>
- In your terminal window type one of the below and follow the instructions:
 - Anaconda3-4.4.0-MacOSX-x86_64.sh
 - Anaconda2-4.4.0-MacOSX-x86_64.sh

2. INSTALL Homebrew

- `/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"`

3. INSTALL MacPorts

- Download installer from website: <https://www.macports.org>
- `sudo port -v selfupdate`

PP INSTALLATION:

1. Open a bash terminal window
2. Test if gcc will run by typing gcc in terminal. If prompted to install command-line tools, follow the instructions to do so

3. Update pip
 - `python -m pip install --upgrade pip`
4. Install extra python modules in Anaconda
 - `pip install --user numpy scipy matplotlib callhorizons future astroquery Pillow==2.6.1`
 - `pip install astropy`
 - `conda update astropy`
5. Install SExtractor
 - `brew install homebrew/science/sextractor`
6. Install SCAMP
 - `brew install homebrew/science/scamp`
7. Install extra software
 - `sudo port install wget`
8. Install photometry pipeline
 - `git clone https://github.com/mommermi/photometrypipeline`
9. Add to `~/.bash_profile` file:
 - `export PATH="$PATH:/home/your_user/.local/bin"`
 - Replace `your_user` with your username
 - `export PATH="$PATH:/Users/your_user/Library/Python/2.7/bin"`
 - Replace `your_user` with your username and `"2.7"` with your Python version
 - `PATH=$PATH:/Users/user/photometrypipeline`