
astropy4cambridge Documentation

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These notes are for the Astropy workshop held at the Institute of Astronomy of the University of Cambridge by Brigitta Sipőcz and [Thomas Robitaille](#) on the 28th of April 2016.

Note: Please bring your laptop to the workshop!

The purpose of this workshop is to give you an overview of functionality in Astropy, and get you started with some simple problems. There is a lot of functionality that we cannot cover in this workshop, so we encourage you to browse the Astropy [Documentation](#) to get a sense of what it can be used for!

Installing Python and Astropy

If you don't already have a Scientific Python Installation, install the [Anaconda Python Distribution](#) (works for MacOS X, Linux, and Windows). We recommend downloading the Python 3.5 version (you will still be able to set up Python 2 environments if needed). Alternatively you can find installation info here:

`install.`

Notebooks

Download the notebooks from here before starting (Windows users: use this instead).

- Units and Quantities [Problem solutions]
- Tables [Problem solutions]
- Celestial Coordinates [Problem solutions]
- Handling FITS files [Problem solutions]
- Modeling [Problem solutions]
- WCS Transformations [Problem solutions]
- Astropy Affiliated Packages: APLpy and WCSAxes
- Astropy Affiliated Packages: Aperture photometry
- Astropy Affiliated Packages: Astroquery
- Astropy Affiliated Packages: Image reprojection

Getting help

3.1 General Python help

- Google!
- StackOverflow - use tag #python
- Facebook Python users in Astronomy group

3.2 Astropy help

- astropy mailing list (not just Astropy-related question, any astronomy & python questions)
- StackOverflow - use tag #astropy
- IRC
- Twitter

3.3 Feedback

- Proposing future features for Astropy
- Private feedback on astropy

Useful links

- [Numpy](#)
- [Scipy](#)
- [Matplotlib](#)
- [Astropy](#)
- [More about the Jupyter notebook](#)
- UTF-8 error on MacOS X: see [here](#) for how to fix it.