

Python Coffee @ Vitacura



Thu 11am - Library

Why Python?

- Free (alternative to IDL)
- Cross-platform
- High-level (user friendly)
- Wide range of applications
- Many astronomy libraries
- Good support

What specifically?

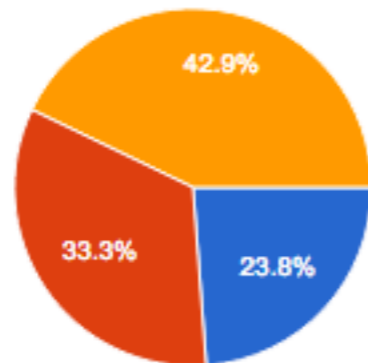
- Correlation of PSF over time
- High-angular resolution (interferometry, AO) tools
- Web search and data-base handling
- Complicated plots

Why Python for me?

- To learn more
- To introduce it to students
- To understand someone else's codes
- “Is it worthwhile learning this when I already know a little of IDL and Fortran?”
- “It extends the realm of my thoughts into a highly organized dimension of symbolism and mathematics”

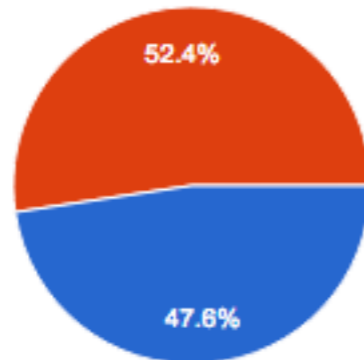
Group profile

Who are you?



Student	5	23.8%
Fellow	7	33.3%
Staff	9	42.9%

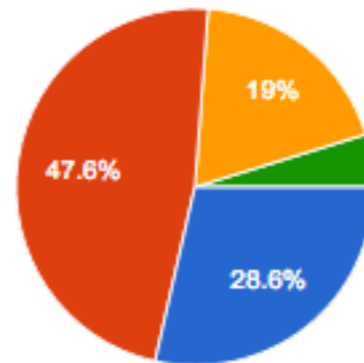
Will you come on Sep 10th for a presentation of the new "Python Coffee"?



Yes, definitely!!	10	47.6%
No, I will not be in Vitacura, but I am interested!	11	52.4%

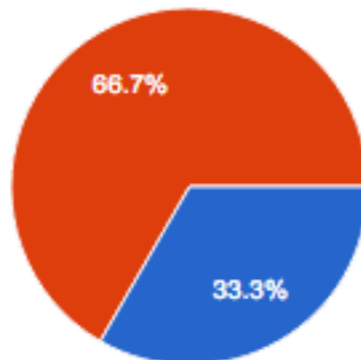
Knowledge transfer

What is the level of your Python knowledge?



None	6	28.6%
Basic	10	47.6%
Intermediate	4	19%
Advanced	1	4.8%

Could you share your experience and helping solve problems?



Yes, I have been using Python and it will be my pleasure to help the others	7	33.3%
No, I do not know much and I am here to learn	14	66.7%

The Python Coffee

Repository of problems/solutions

- wiki page + ipython notebook: people send their specific problems (that could not have been solved using internet forums)
- anyone can solve one or more problem is welcome to offer help directly to the person or only to publish a solution in the wiki/ipython notebook
- every week in the coffee we have a summary of what happened in the wiki/ipython to share ideas with the others

Capabilities of Python

- to share the capabilities of Python that can be useful for astronomers (during the coffee)
- examples: "what does astropy can do for you?", "is pyraf a good replacement for iraf?", "how to easily manipulate fits files using python" and any other interesting topic
- to publish it in the wiki / ipython notebook to give access to the information to anyone interested at any time.

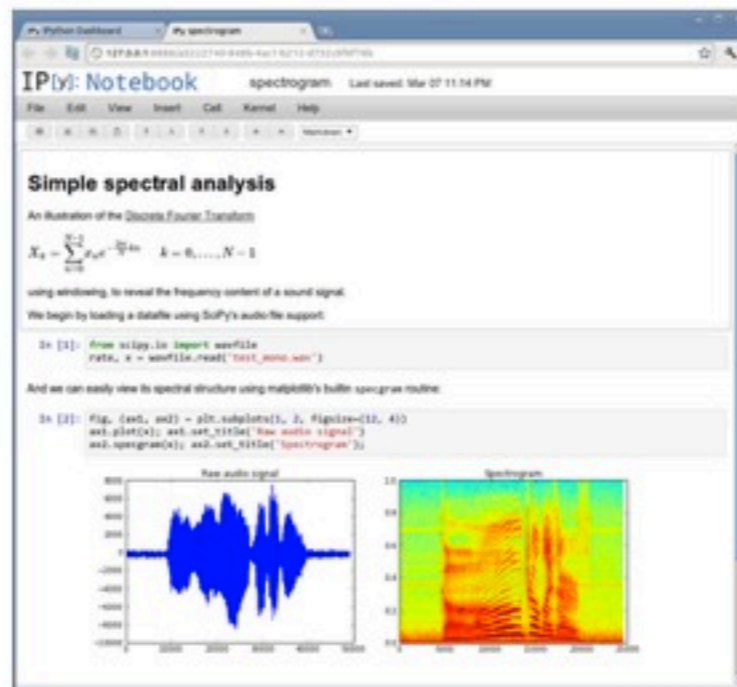
IP[y]: IPython

Interactive Computing

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The IPython Notebook

The IPython Notebook is an interactive computational environment, in which you can combine code execution, rich text, mathematics, plots and rich media, as shown in this example session:



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VERSIONS

Stable
4.0 – August 2015
[Install](#)

Development
4.1.dev
[GitHub](#)

Offline Docs
All Versions
[GitHub](#)

NOTEBOOK VIEWER

Share your notebooks

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