



PYTHON BOOT CAMP

Bruno Dias, PyCoffee - Aug 25, 2016

PyCoffee @ ESO

Thu 11 am - library

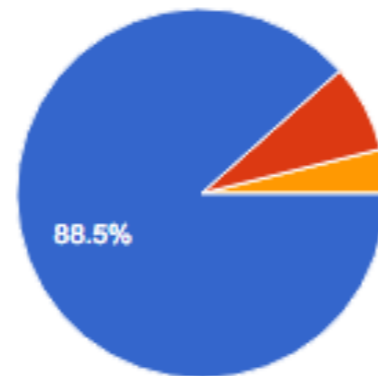


WHY PYTHON?

- ALMA, HST uses Python
- E-ELT will use Python
- VLT software will have Python installed by default!
(news from Claudio Reinero)
- Powerful for science and operations

PLANNING 2016...

Are you interested in a Python Boot Camp (few days workshop for all levels)?

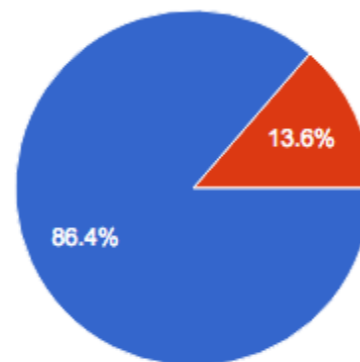


Yes	23	88.5%
No	2	7.7%
Other	1	3.8%

EXECUTING 2016...

Do you want to participate to the Python Boot Camp on Oct. 13-14 ?

(22 responses)



- Yes and I blocked those 2 dates on my Paranal constraints for P98 (if applicable, for astronomers)
- Yes but I did not block those dates, this will depend on my availability
- No

12 astro
7 TIO
3 La Silla

TOPICS OF INTEREST

Are there any specific topics you want to cover during this training ?

(10 responses)

Just getting started, really.

(astro)

publication quality plots; reading in large datasets; statistics

(astro)

spectroscopy; pyraf; noise analysis

(astro)

Direct analysis and modeling examples of typical data from SPHERE or VLT.

(astro)

Image analysis using Python scripts

(TIO)

Data Science, Big Data and Deep Learning applied in Astronomy.

(TIO)

Efficient and clean programming in Python (e.g. working with arrays), matplotlib

(astro)

astronomical data reduction, pipeline creation

(astro)

Interested in all related to a functions

(TIO)

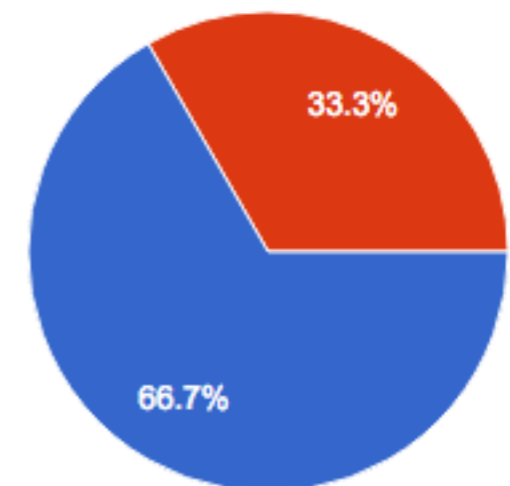
No

(TIO)

LEVEL AND REQUIREMENTS

- Study the basics on [CodeCademy.com](https://www.codecademy.com)
- Install necessary packages beforehand on your own laptop
- bring your laptop

What is your level of Python? (21 responses)



- Beginner. I am new to Python and will have done the Codecademy Python course beforehand (<https://www.codecademy.com/en/learn/python>)
- Intermediate
- Advanced

GOAL

- To leave with a few scripts installed and running on your computer with application to operations and science
- To know how to apply the codes above to your tasks in Paranal or science



VOLUNTEERS

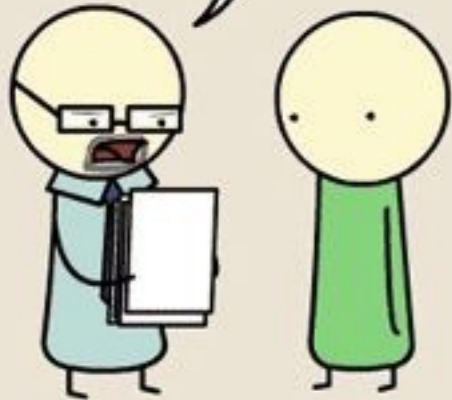
- Jorge Lillo-Box (ESO fellow): FLAMES FACB; (MCMC); correlations on logfile
- Frederic Vogt (ESO fellow): SINFONI strehl plot
- Nicolas Haddad (ESO instrumentation): UVES focus curve; UVES FWHM
- Ignacio Toledo (ALMA)
- Julien Milli (ESO fellow)
- Bruno Dias (ESO fellow)
- Antoine Mérand (ESO staff): leaving to Garching...

STILL A FEW PLACES FOR REGISTRATION

- 13-14 October, 2016
- Talk to the organisers or...
- <https://goo.gl/forms/ctCfMHSDb0zFGhjc2>

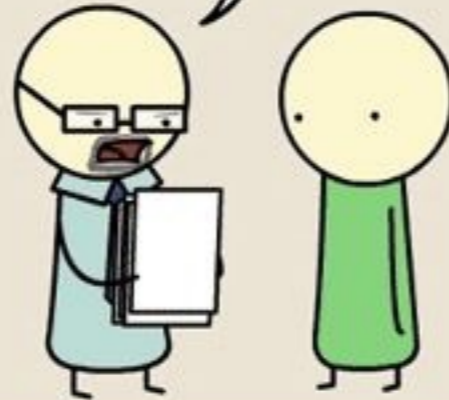
PYTHON

THIS IS PLAGIARISM.
YOU CAN'T JUST "IMPORT" ESSAY."



JAVA

I'M TWO PAGES IN AND I STILL
HAVE NO IDEA WHAT YOU'RE SAYING.



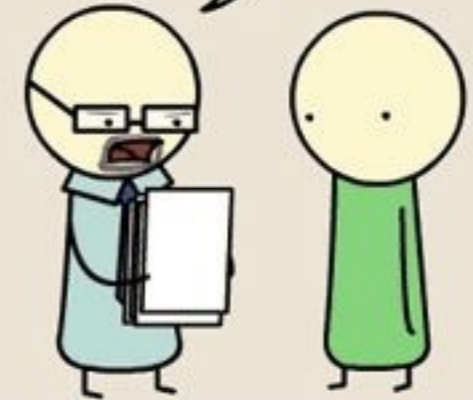
C++

I ASKED FOR ONE COPY,
NOT FOUR HUNDRED.



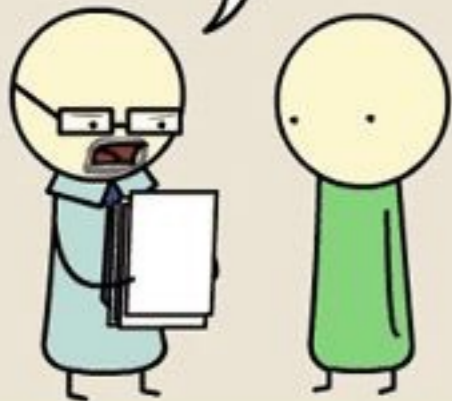
UNIX SHELL

I DON'T HAVE PERMISSION TO
READ THIS.



ASSEMBLY

DID YOU REALLY HAVE TO REDEFINE EVERY
WORD IN THE ENGLISH LANGUAGE?



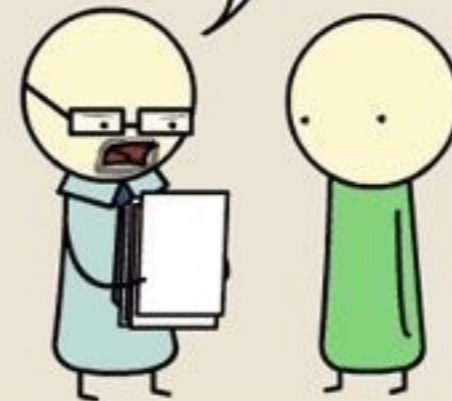
C

THIS IS GREAT, BUT YOU FORGOT TO ADD
A NULL TERMINATOR. NOW I'M JUST READING
GARBAGE.



LATEX

YOUR PAPER MAKES NO GODDAMN SENSE,
BUT IT'S THE MOST BEAUTIFUL THING
I HAVE EVER LAID EYES ON.



HTML

THIS IS A FLOWER POT.

