

L'école d'été sur python scientifique

Nelle Varoquaux



Un peu sur moi...



Un peu sur moi...



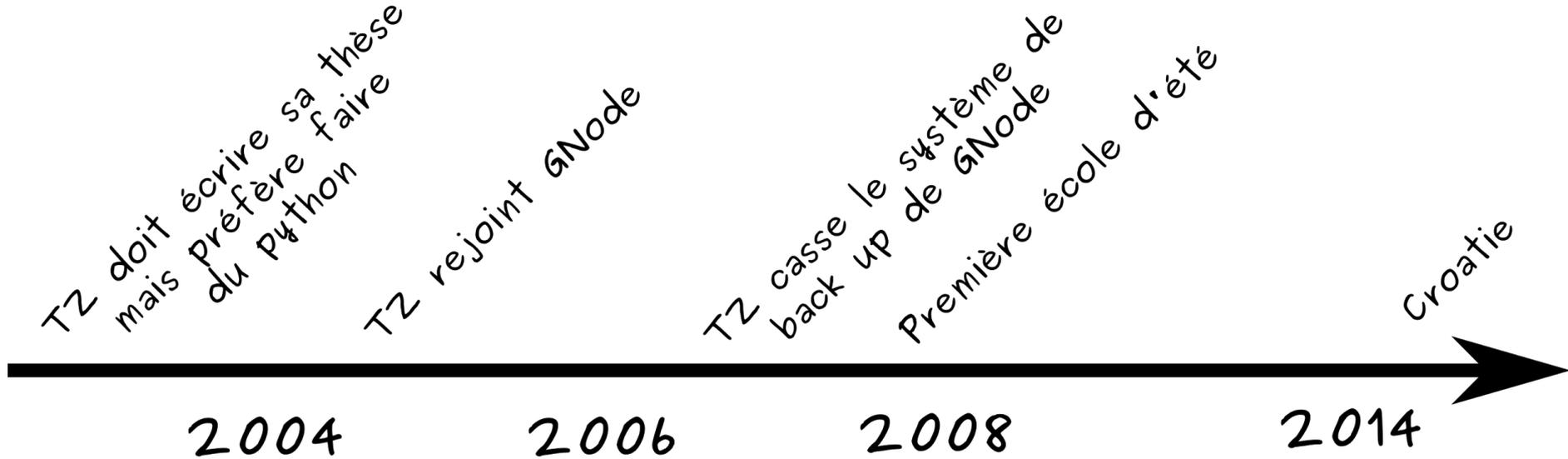


VS

l'école d'été

Pourquoi une école d'été sur python?

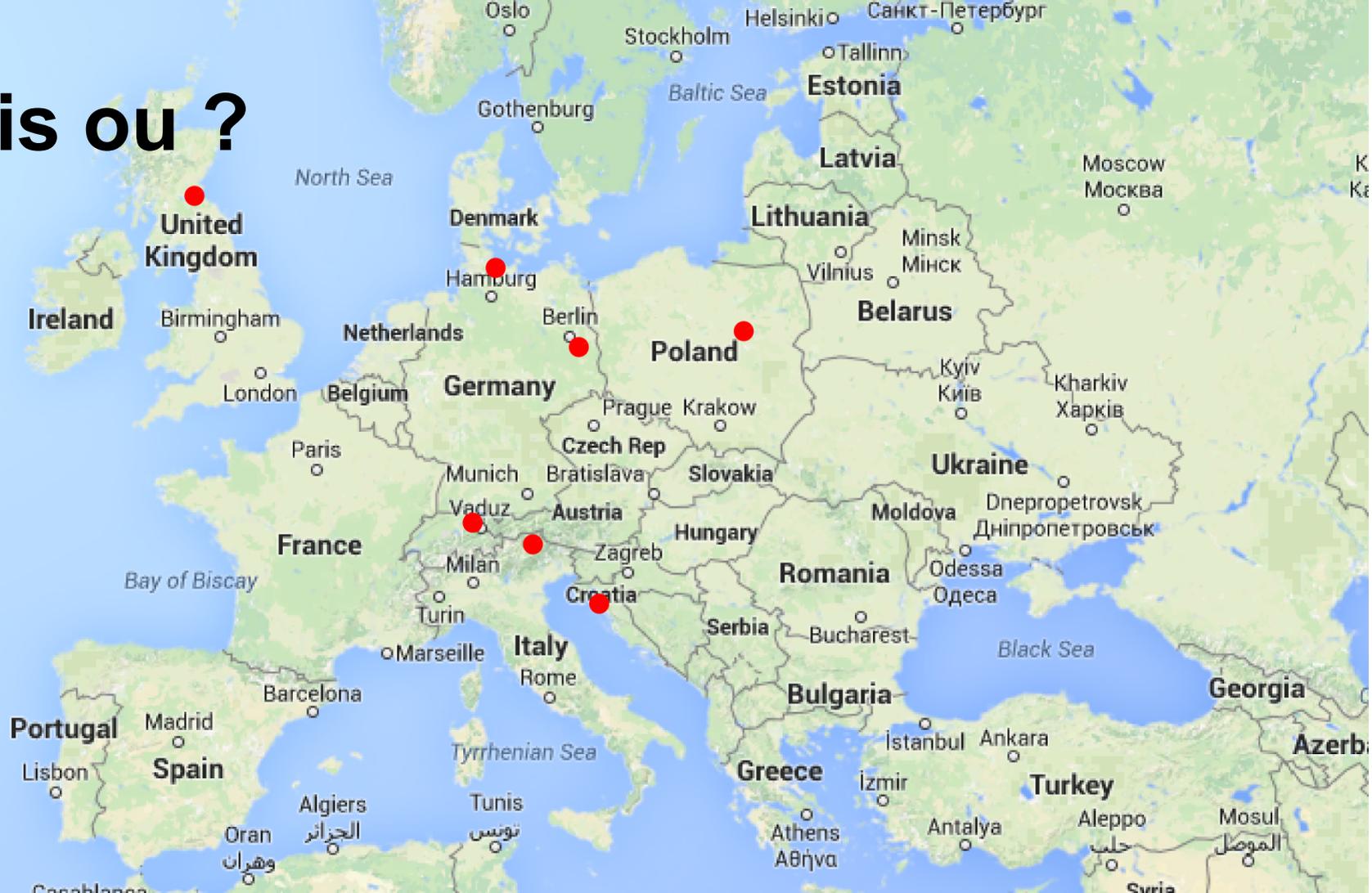
Pourquoi une école d'été sur python?



Une école d'été pas comme les autres



Mais ou ?



Schedule

Day0 (Mon Sep 8): Best Programming Practices

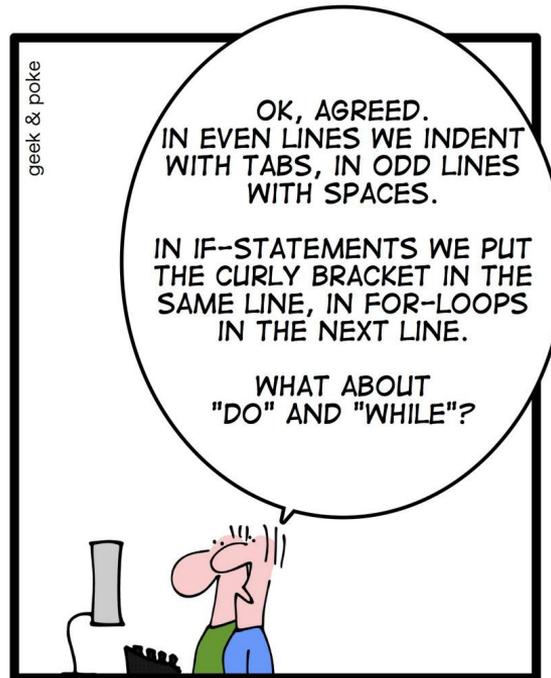
Time	Topic	Lecturer	Tutors
08:30-09:00	Introduction	Tiziano Zito	
09:00-09:45	Best Practices for Scientific Computing	Kathryn D. Huff	
09:45-10:30	Version control with git and how to contribute to Open Source with github	Nelle Varoquaux	PB SW
10:30-11:00	Coffee Break		
11:30-12:00	Version control with git and how to contribute to Open Source with github		
12:30-14:00	Lunch Break		
14:00-15:00	Version control with git and how to contribute to Open Source with github	Niko Wilbert	KH IK
15:00-16:30	Object-oriented programming & design patterns (lecture)		
16:30-17:00	Coffee Break		
17:00-18:30	Object-oriented programming & design patterns (exercises)		
18:30-19:00	Tutors' consultation time		

Day1 (Tue Sep 9): Software Carpentry

Time	Topic	Lecturer	Tutors
------	-------	----------	--------

Ordinateurs et pair programming

SIMPLY EXPLAINED

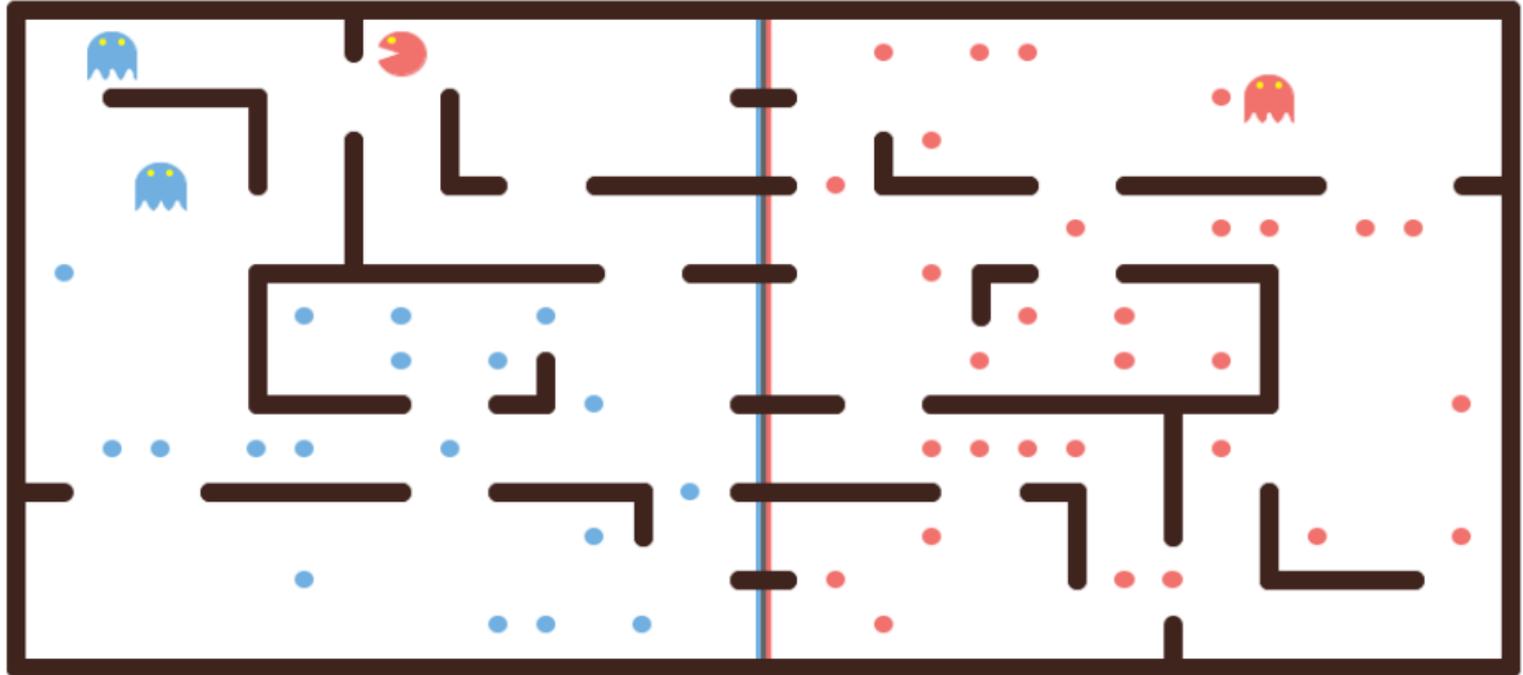


PAIR PROGRAMMING

Le projet Pelita

(0.23) The BasicDefensePlayers 15 : 12 The BFSPlayers (0.25)

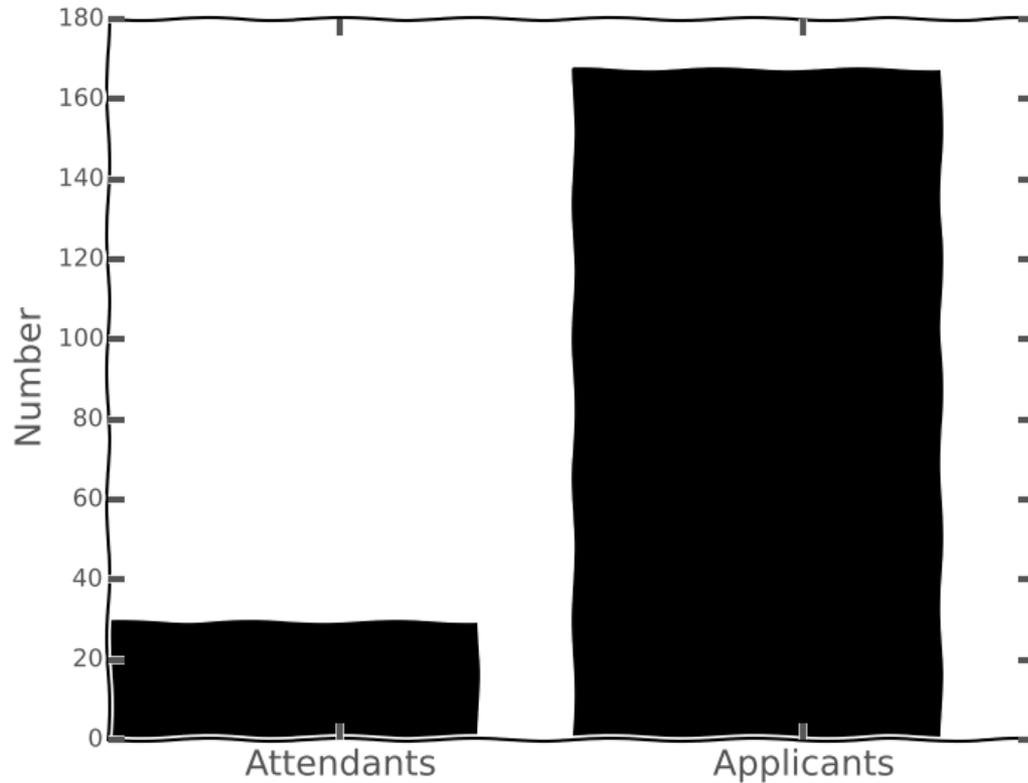
Timeouts: 0, Killed: 0 | Timeouts: 0, Killed: 3



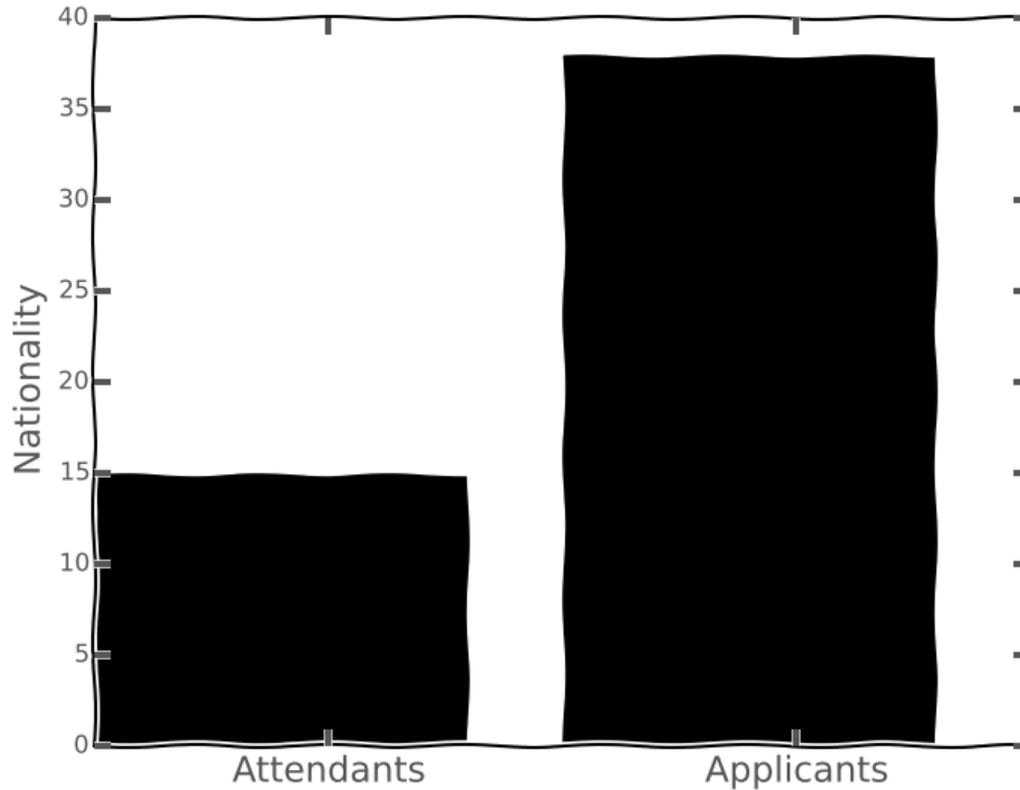
Student selection and diversity



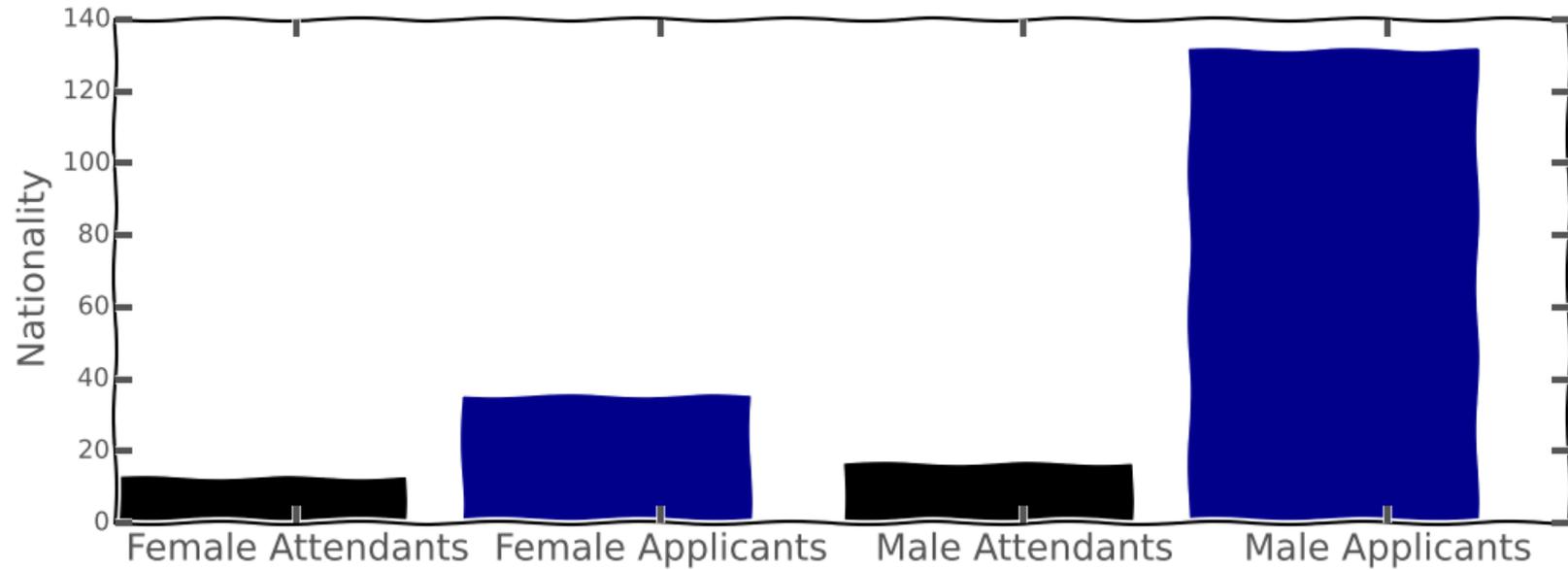
Quelques stats...



Quelques stats...



Quelques stats...



IPython pour les slides ! (ou pas...)

The image displays three overlapping screenshots of IPython and Jupyter Notebook environments.

Leftmost screenshot (Terminal): Shows a terminal window with the following commands and output:

```
thomas@thomas-desktop: ~  
? -> Introduction and overview  
%quickref -> Quick reference.  
help -> Python's own help system.  
object? -> Details about 'object', use 'object??' for extra details.  
%quickref -> A brief reference about the graphical user interface.  
  
In [1]: %hist -lp  
%hist -lp  
for a in range(5):  
...     print a  
...  
for a in range(5):  
...     print a, a**2  
...  
%ismagic  
%hist -lp  
files = !ls  
files  
for a in range(29):  
...     print a**3.  
...  
xrange?  
!showcat[!read("baboon.png")]
```

Middle screenshot (Jupyter Notebook): Shows a Jupyter Notebook window titled "IPython Notebook" with the following code and output:

```
In [8]: imshow(image('baboon.png'))  
Out[8]: <matplotlib.image.AxesImage at 0x100000000>
```

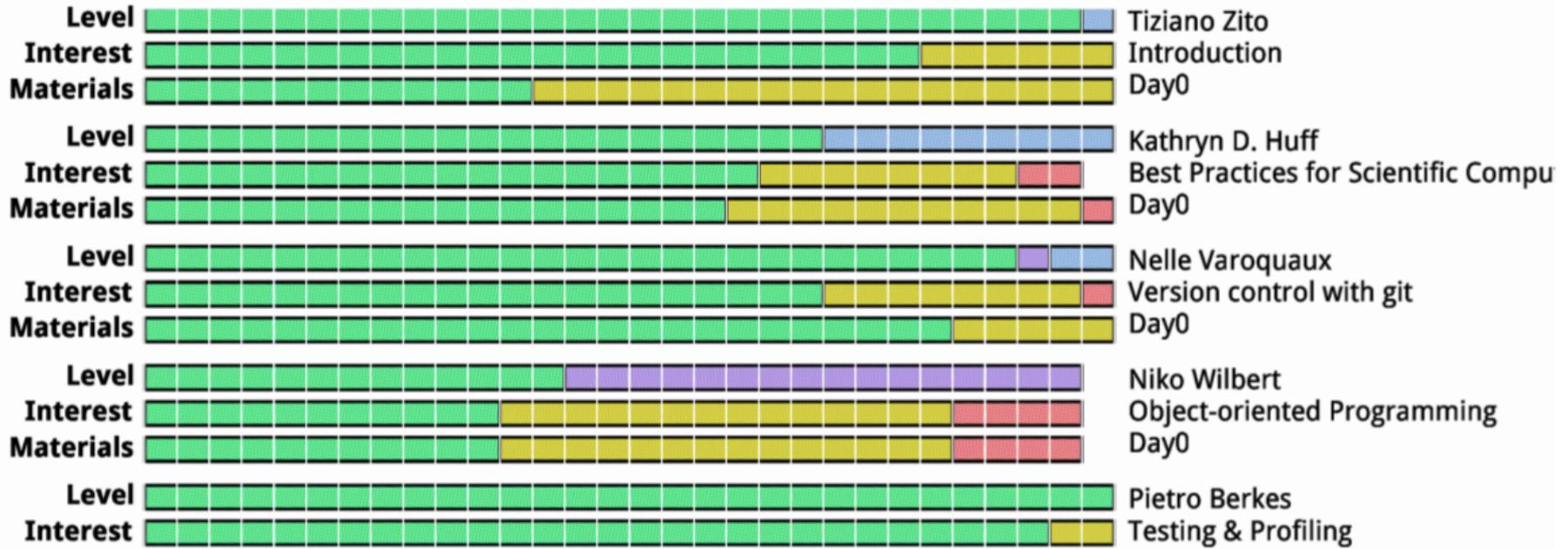
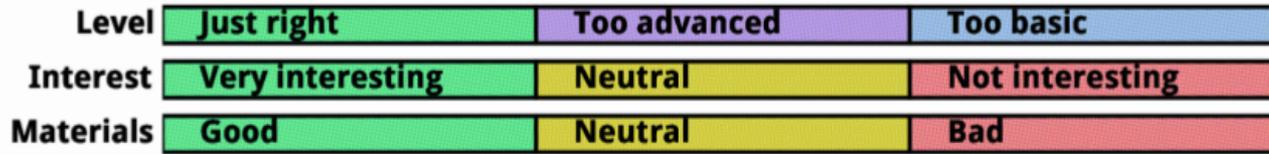
The output is a plot of a baboon's face.

Rightmost screenshot (Jupyter Notebook): Shows a Jupyter Notebook window titled "IPython Notebook" with the following code and output:

```
In [10]: from scipy.io import wavfile  
rate, x = wavfile.read('baboon.wav')
```

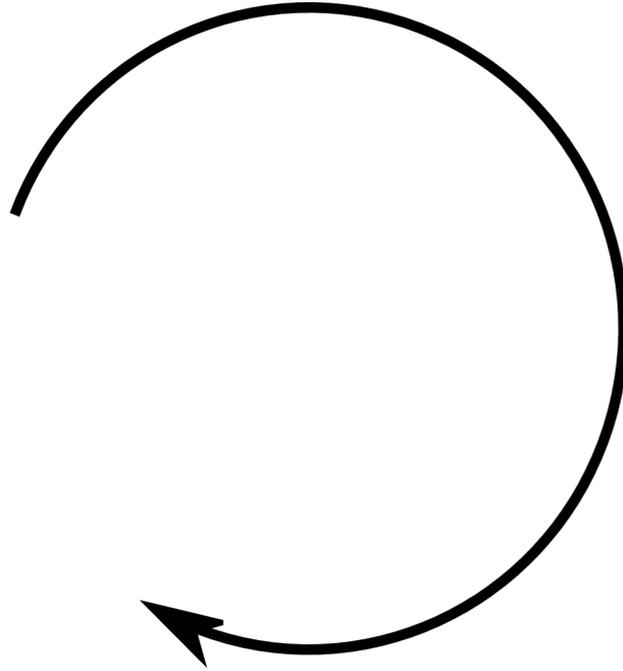
The output is a plot of a spectrogram of the baboon's sound.

Évaluation des étudiants



L'organisation

ÉTUDIANT



ORGANISATEUR

INSTRUCTEUR

Merci !

Des questions ?