

Meetup Python #1

Jeudi 12 Avril 2018

Amiens – La Cantine Numérique



7 raisons de se mettre à Python

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Bruno Bonfils



N°1

C'est tendance !

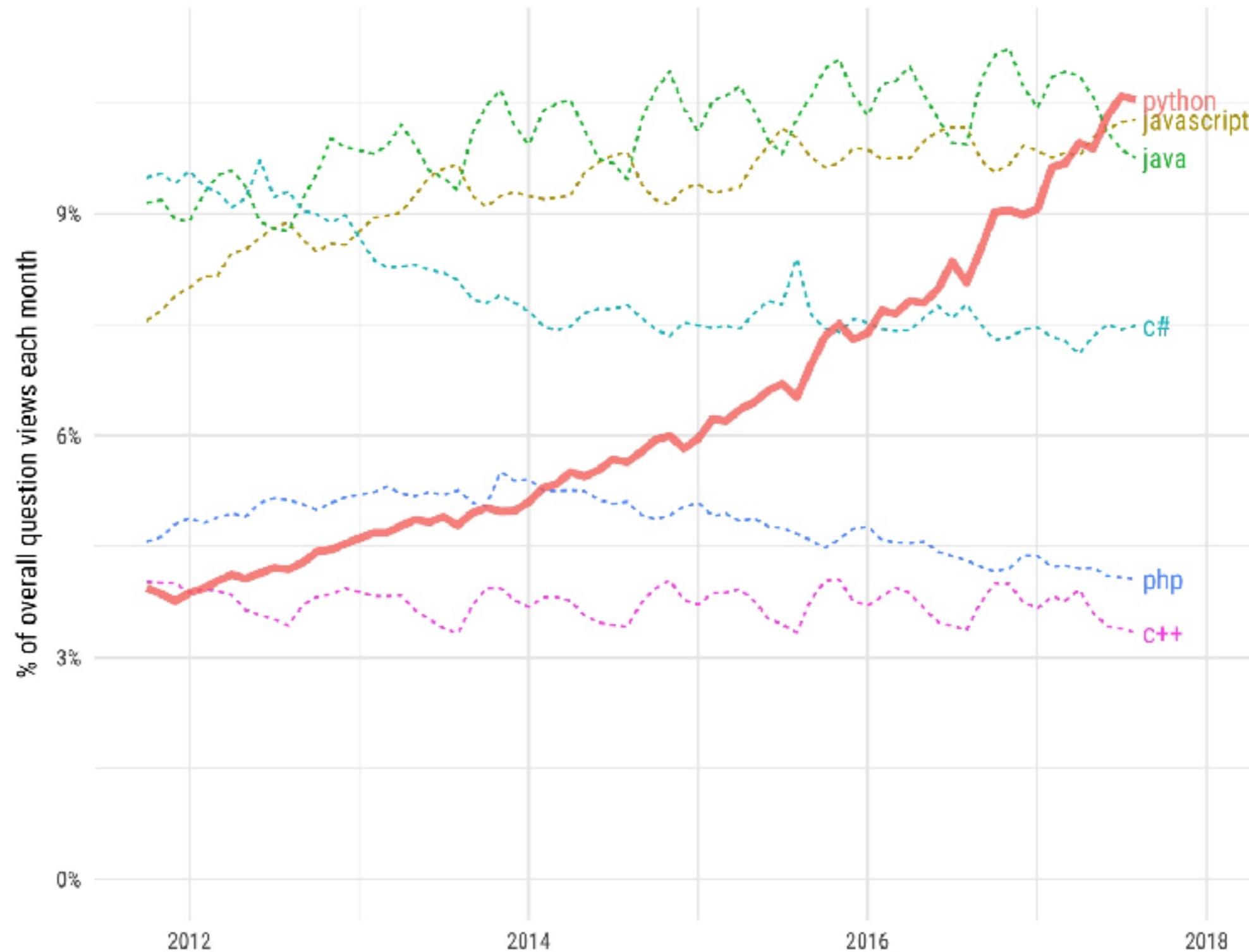


The 1990s

The 1990s

Growth of major programming languages

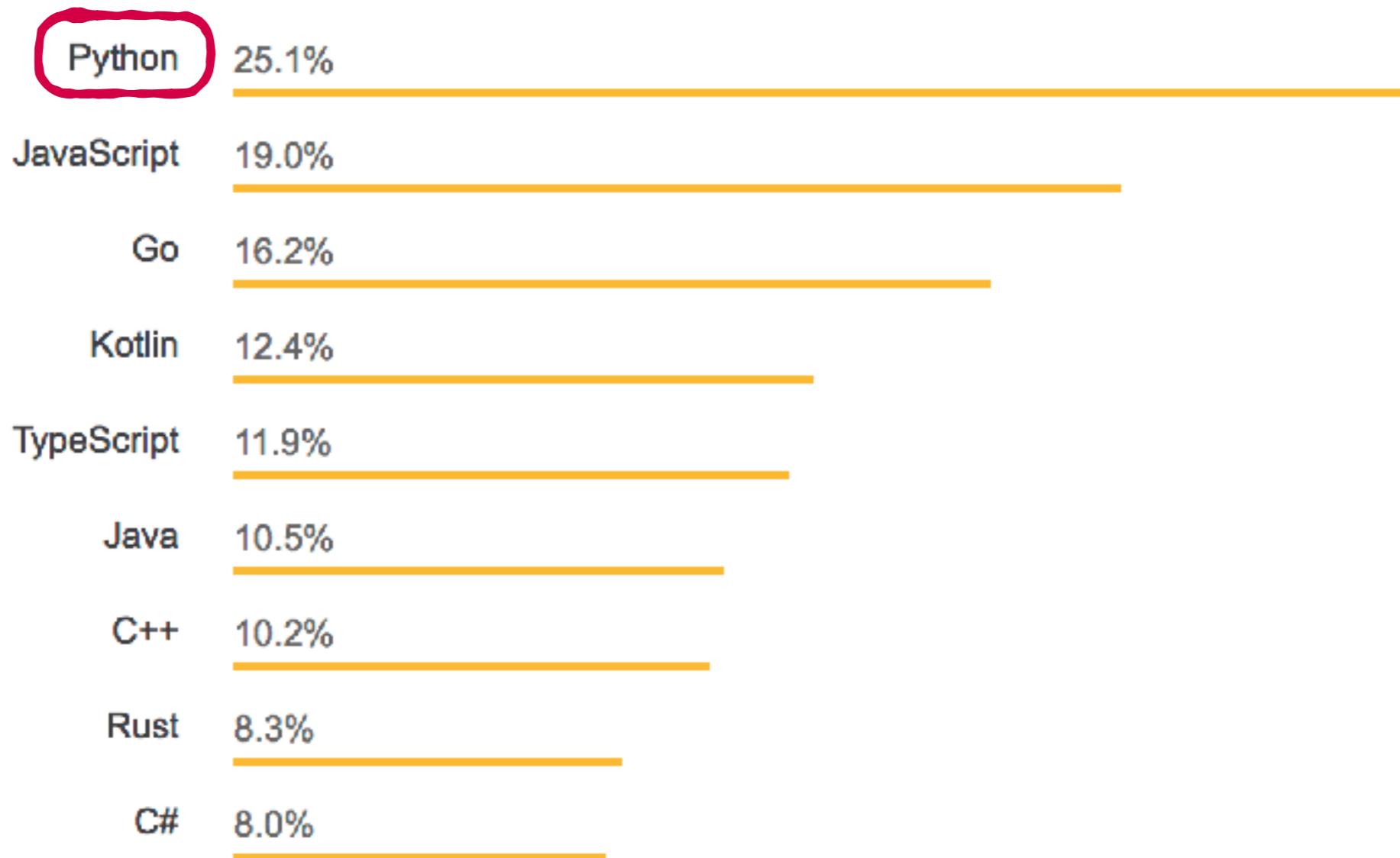
Based on Stack Overflow question views in World Bank high-income countries



<https://stackoverflow.blog/2017/09/06/incredible-growth-python/>

Most Loved, Dreaded, and Wanted Languages

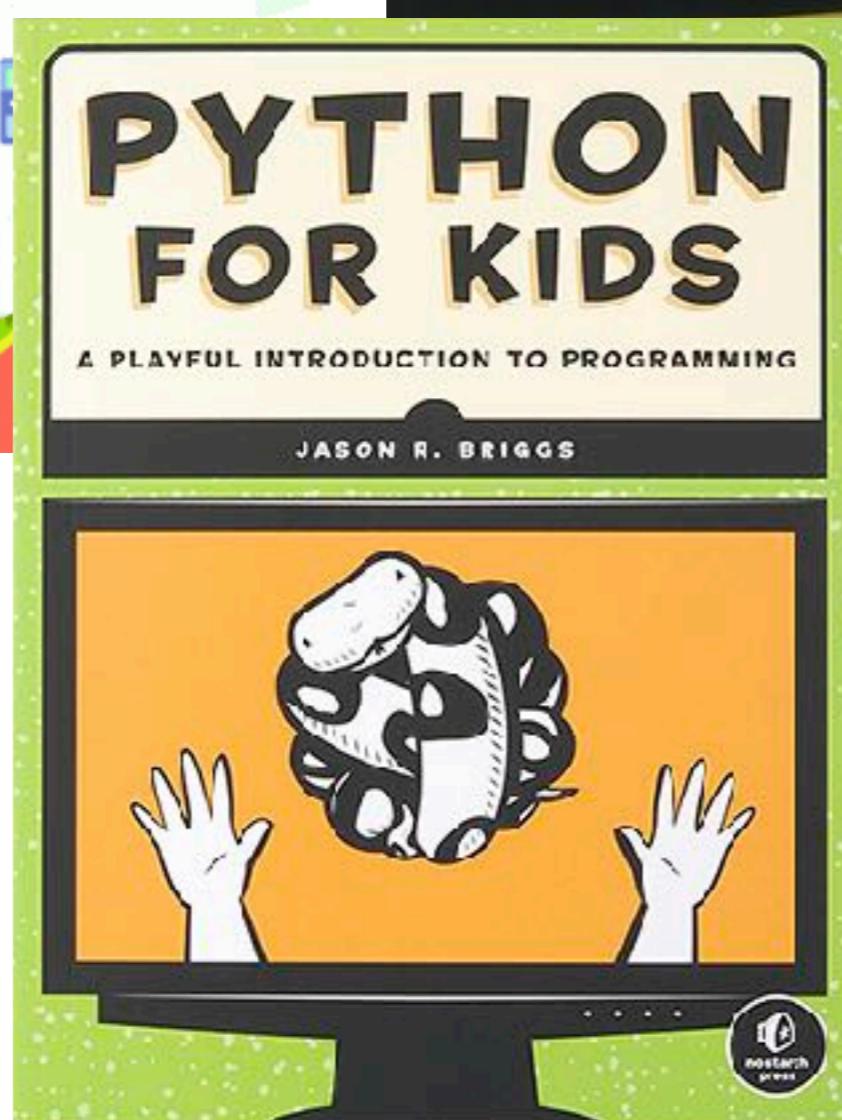
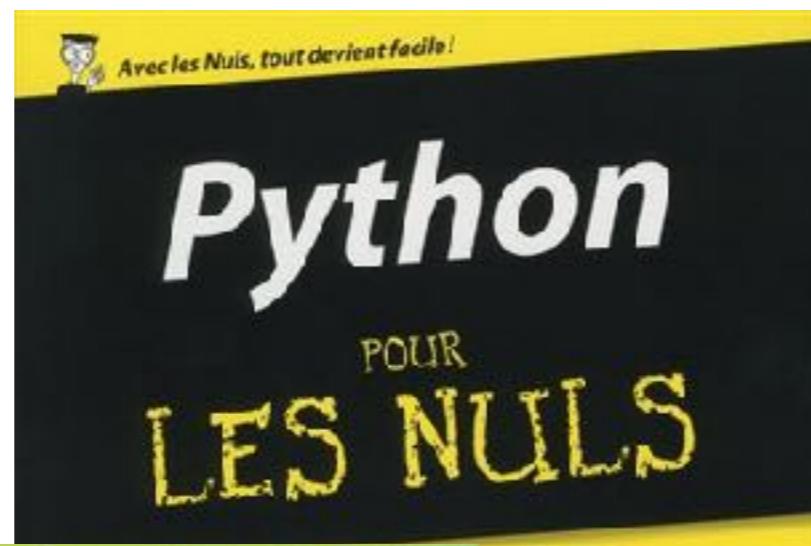
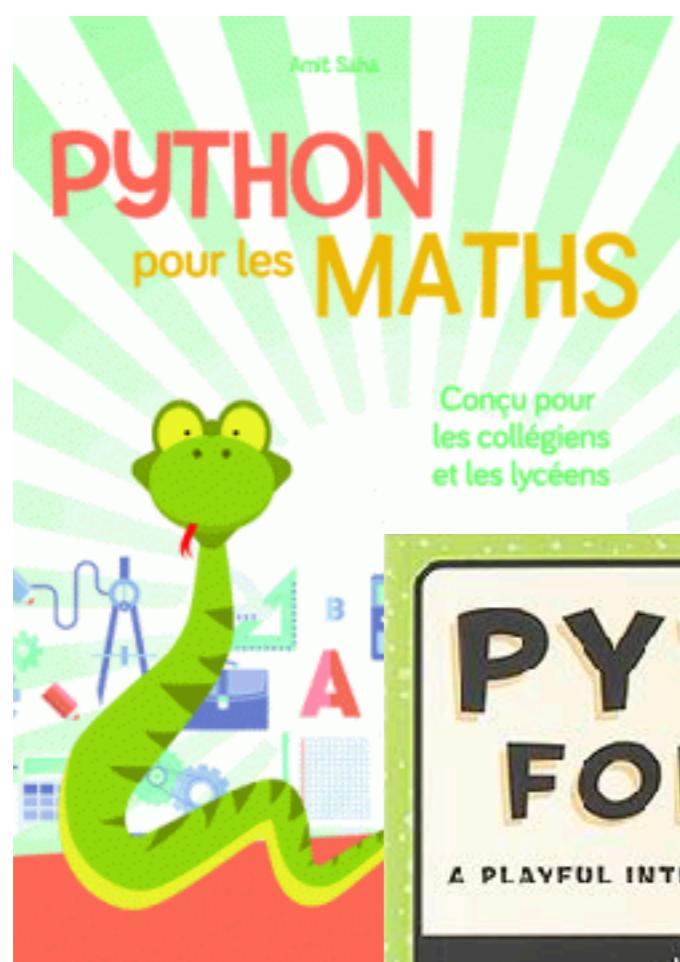
Loved Dreaded **Wanted**



N°2

Facile à apprendre





The image shows two side-by-side screenshots of online coding platforms.

Left Screenshot (Codecademy):

- Title:** Learn Python
- Section:** PYTHON SYNTAX
- Lesson Name:** Hello World!
- Description:** If programming is the act of teaching a computer to have a conversation with a user, it would be most useful to first teach the computer how to speak. In Python, this is accomplished with the `print` statement.
- Code Example:**

```
print "Hello, world!"  
print "Water--there is not a drop of water  
here!t Were Niagara but a cataract of  
sand, would you travel your thousand  
miles to see it?"
```
- Note:** A `print` statement is the easiest way to get your Python program to communicate with you. Being able to command this communication will be one of the most valuable tools in your programming toolbox.
- Buttons:** Run, Back, Results, Settings, Friends

Right Screenshot (Codingame):

- Title:** Power of Thor - Episode 1
- Description:** Your program must allow Thor to reach the light of power.
- Code Editor:** Python3

```
1 import sys  
2 import math  
3  
# Autogenerated code below aims at helping you parse  
4 # the standard input according to the problem statement.  
5 #  
6 # Hint: You can use the debug stream to print initialX and in  
7 #  
8 # light_x: the X position of the light of power  
9 # light_y: the Y position of the light of power  
10 # initial_tx: Thor's starting X position  
11 # initial_ty: Thor's starting Y position  
12 light_x, light_y, initial_tx, initial_ty = [int(i) for i in in  
13  
14 # game loop  
15 while True:  
16     remaining_turns = int(input()) # The remaining amount of  
17     # turns  
18     # Write an action using print  
19     # To debug: print("Debug messages...", file=sys.stderr)  
20  
21     # A single line providing the move to be made: N NE E SE S  
22     # print("Move")  
23  
24
```

- Test Cases:**
 - 01 Straight line → PLAY TESTCASE
 - 02 Up → PLAY TESTCASE
 - 03 Easy angle → PLAY TESTCASE
 - 04 Optimal angle → PLAY TESTCASE
- Actions:** PLAY A

Codecademy

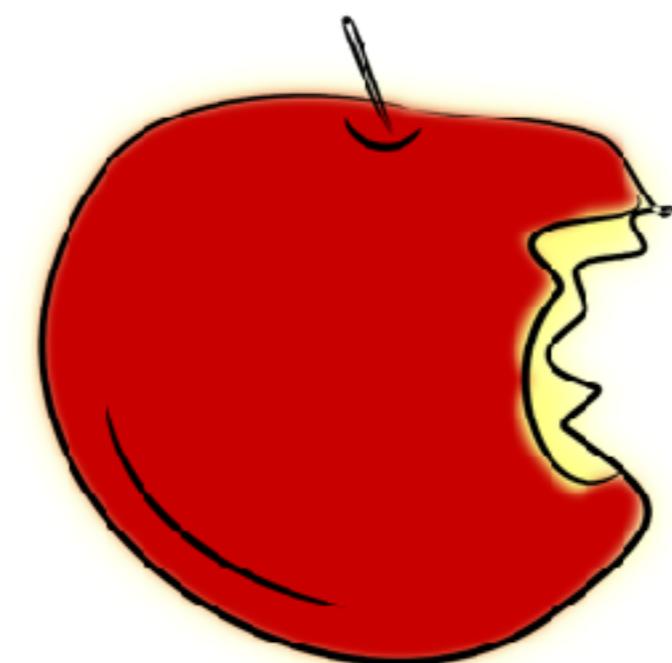
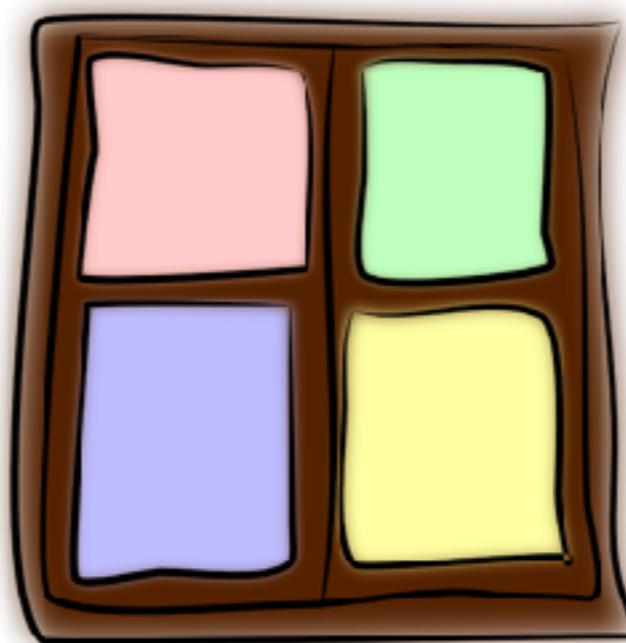
Codingame

N°3

Facile à installer



Multi-plateforme



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Want to help test development versions of Python? [Pre-releases](#)



Looking for a specific release?

Python releases by version number:

Release version	Release date	Click for more
Python 3.6.5	2018-03-28	Download Release Notes
Python 3.4.8	2018-02-05	Download Release Notes

<https://www.python.org/>

The screenshot shows the official website for Anaconda Python. At the top, there's a navigation bar with links for "AnacondaCon 2018", "Documentation", "Blog", "Contact", "Anaconda Cloud", and a search icon. Below the navigation is a main menu with "What is Anaconda?", "Products", "Support", "Community", "Resources", "About", and a prominent green "Download" button.

Anaconda Python

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<https://www.anaconda.com>

Nº4

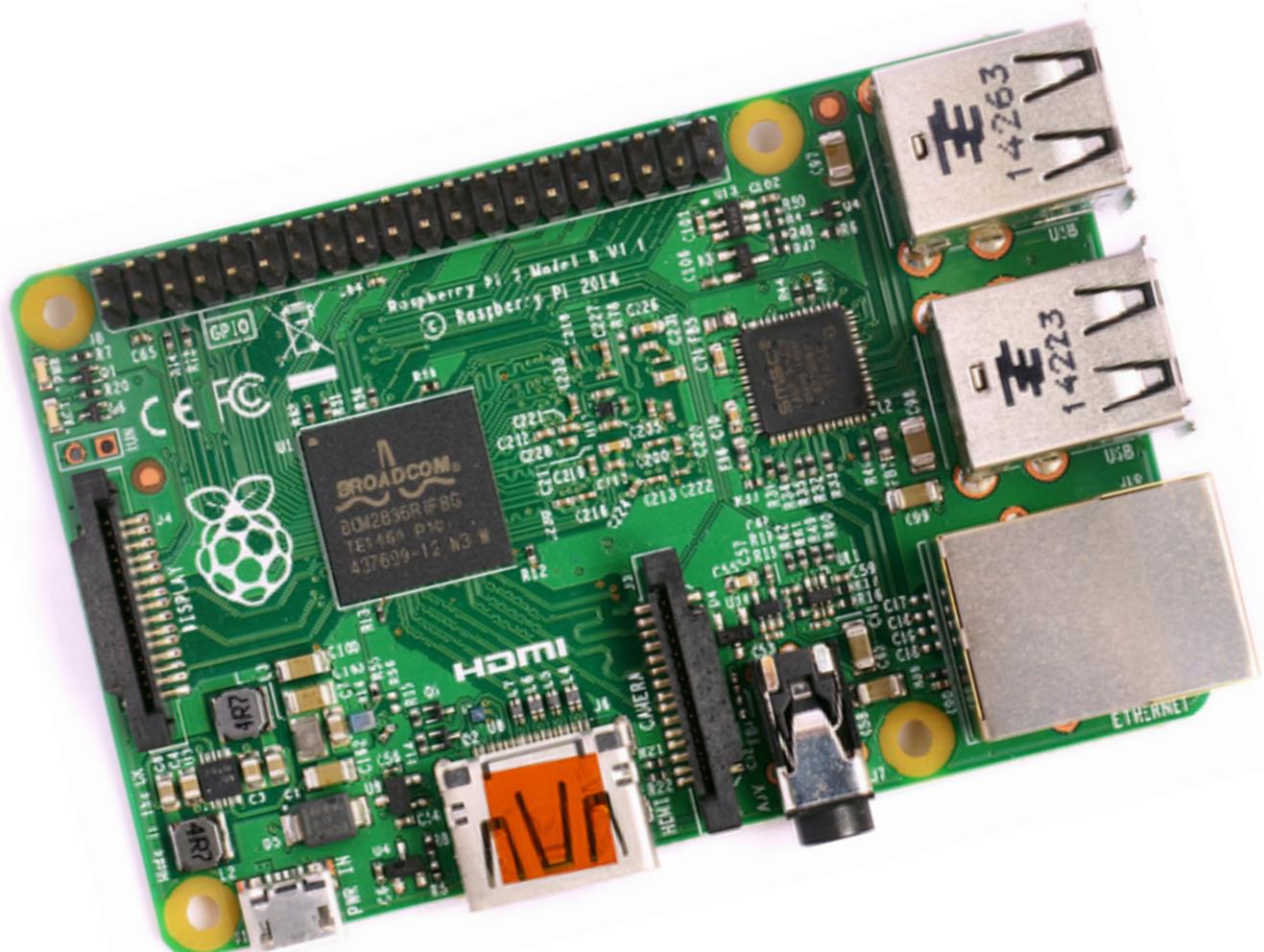
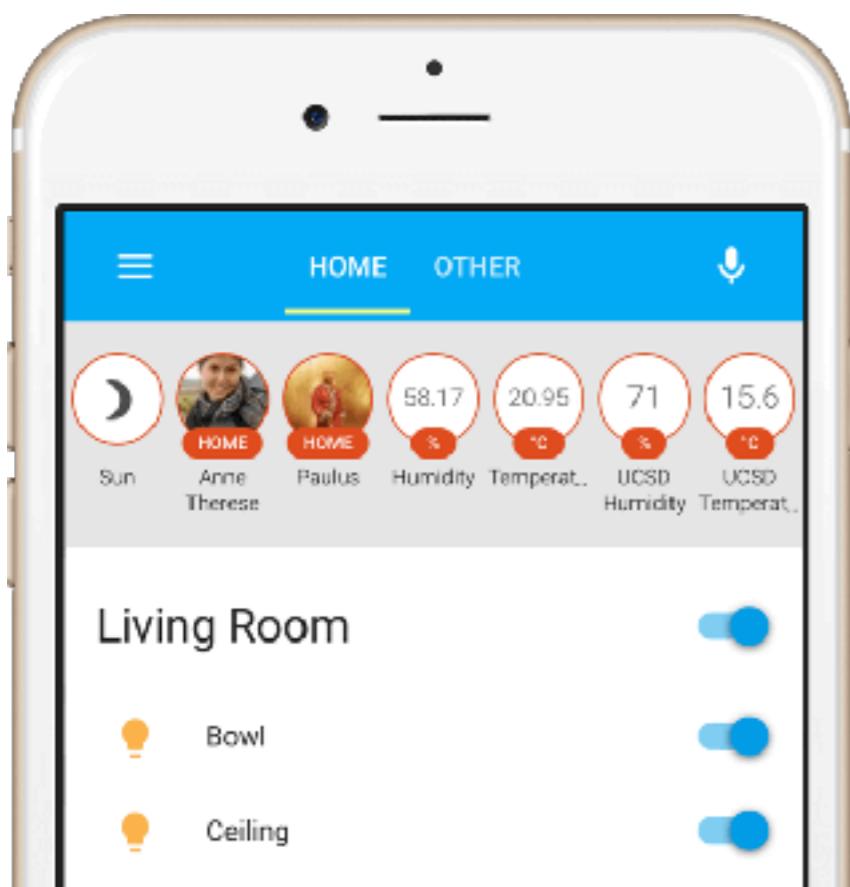
Polyvalent





Home Assistant

<https://www.home-assistant.io>



A photograph of a person's hands interacting with a large touchscreen display. The screen shows a Kivy-based game with a grid of colored rectangles (blue, orange, red) and a green track with blue dots. The hands are wearing yellow gloves and are touching the screen. The background is dark.

Kivy

<https://kivy.org>



<https://www.pygame.org>

A photograph of a server room showing a long row of server racks. The racks are dark grey or black and filled with various components like drives and network cards. Orange cables are visible on the left side, running along the racks. The room has a white ceiling and floor.

Ansible

<https://www.ansible.com>

SaltStack

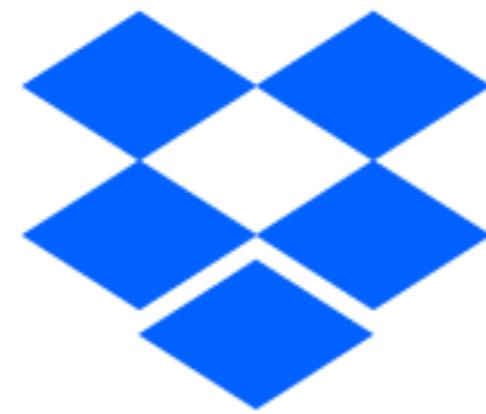
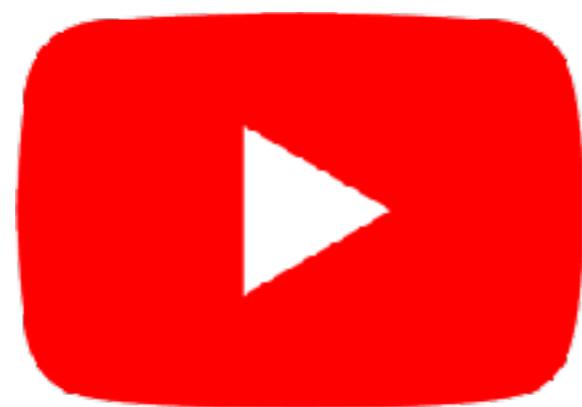
<https://saltstack.com>



N°5

Pour le web





A black and white photograph of a man with dark hair and glasses, wearing a dark suit and white shirt, playing an acoustic guitar. He is looking down at the instrument. The background is dark and out of focus.

Django

<https://www.djangoproject.com>



Flask Pyramid

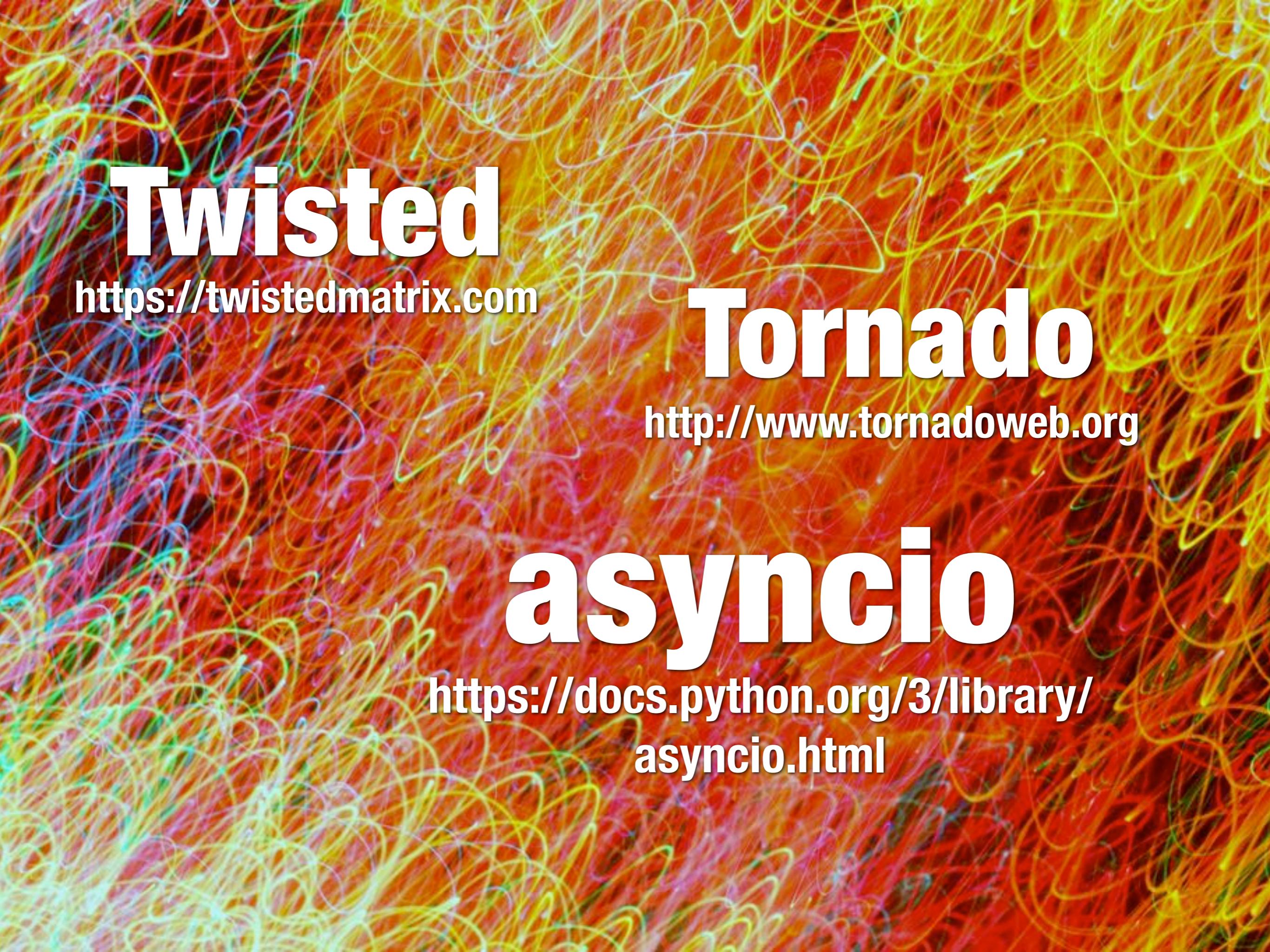
<http://flask.pocoo.org>

<https://trypyramid.com>

A photograph of a large herd of African elephants in a savanna. In the foreground, a lone figure wearing a hat and vest stands looking towards the elephants. The scene is filled with birds flying in the sky.

SQLAlchemy

<http://www.sqlalchemy.org>



Twisted

<https://twistedmatrix.com>

Tornado

<http://www.tornadoweb.org>

asyncio

[https://docs.python.org/3/library/
asyncio.html](https://docs.python.org/3/library/asyncio.html)

N°6

Data science



Pandas

<https://pandas.pydata.org>



Numpy

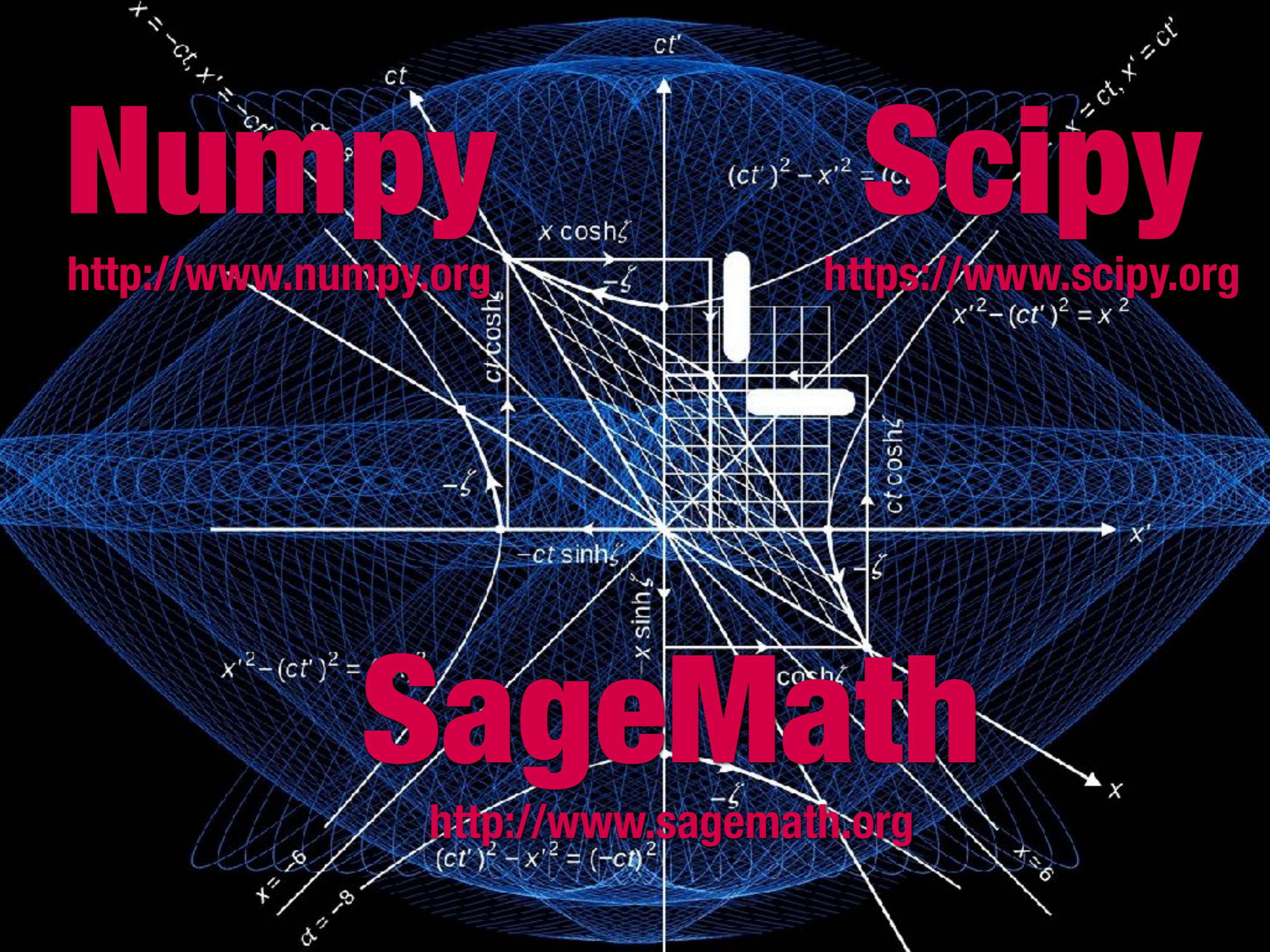
<http://www.numpy.org>

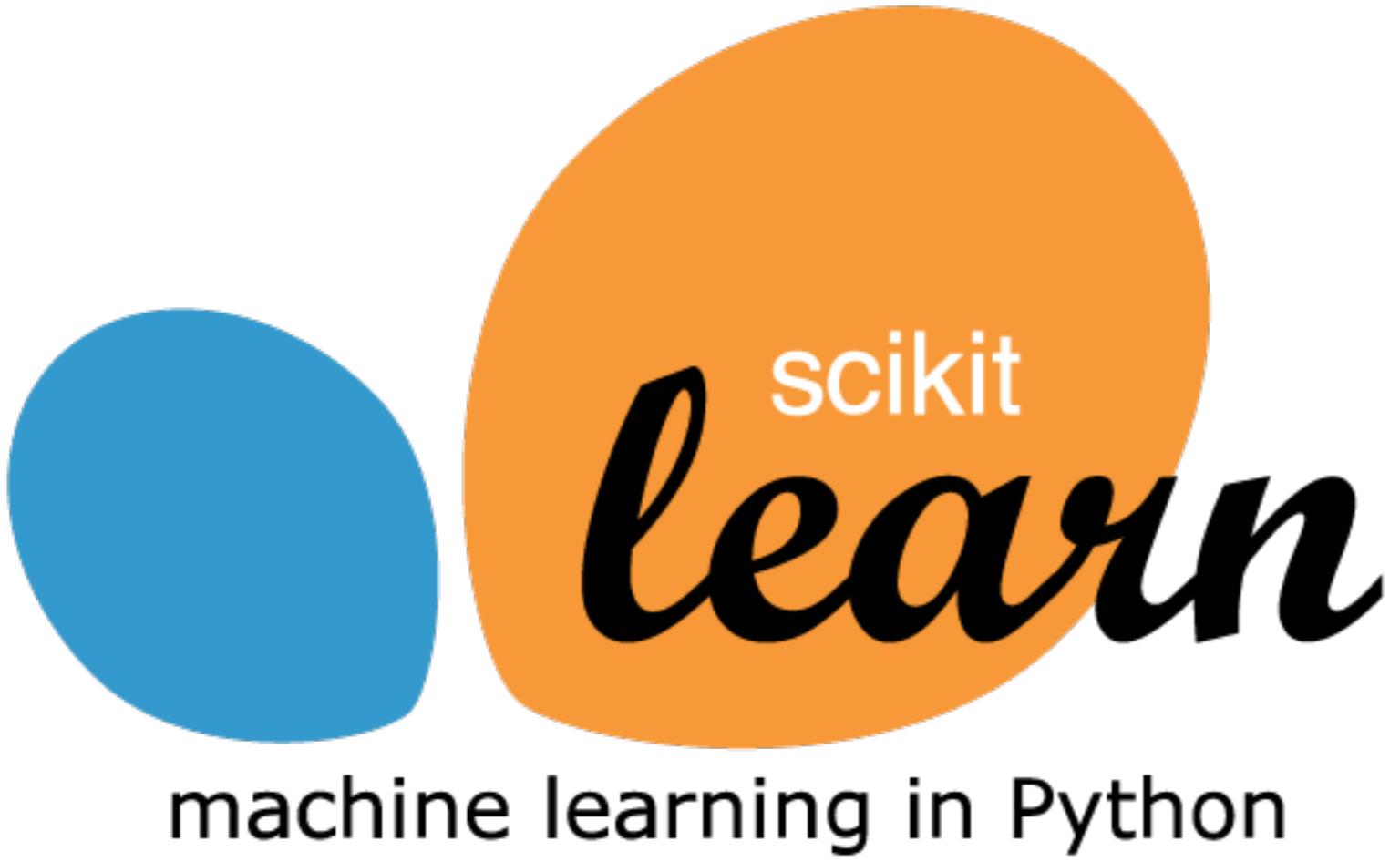
Scipy

<https://www.scipy.org>

SageMath

<http://www.sagemath.org>

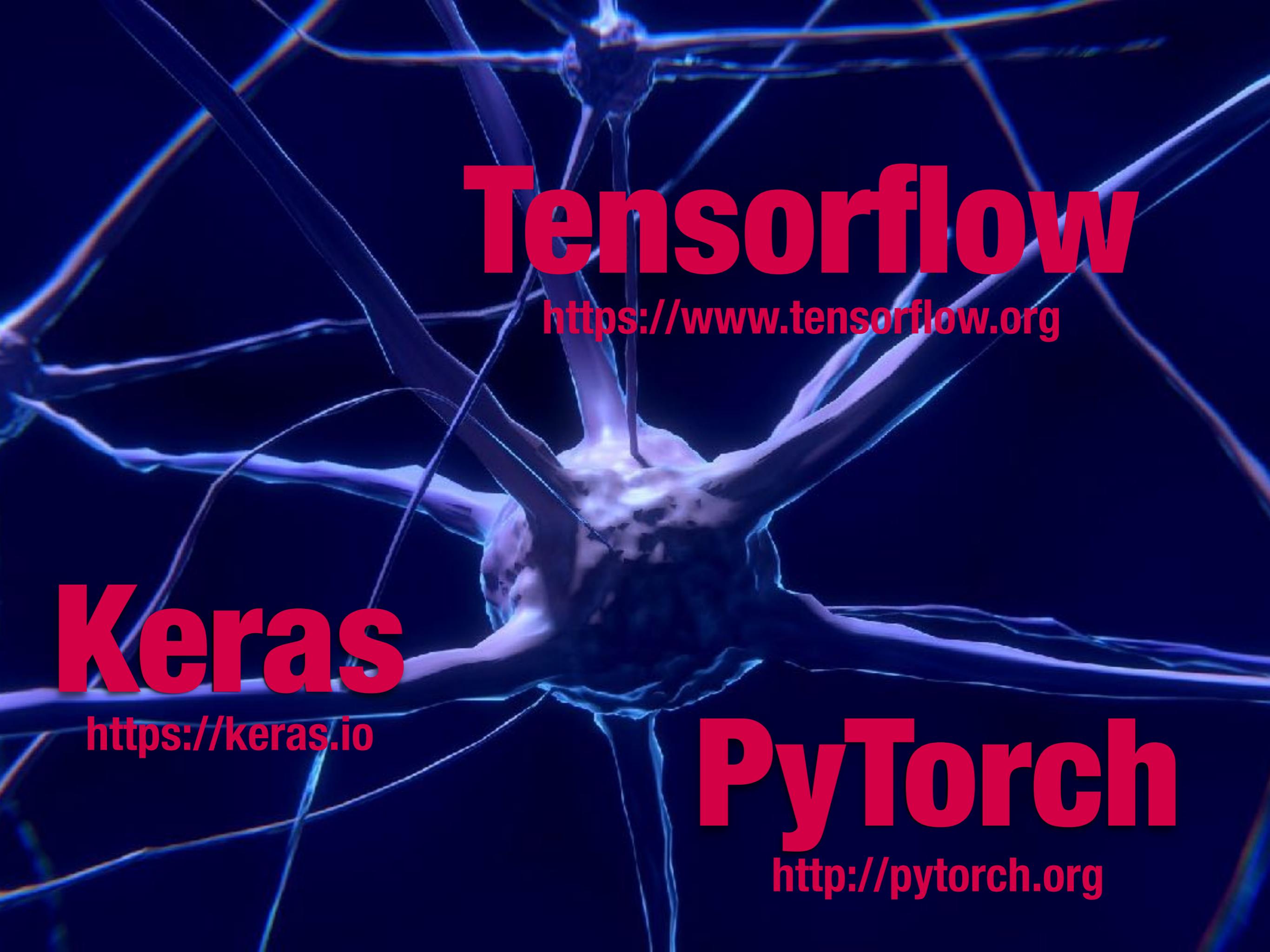




machine learning in Python

Scikit-Learn

<http://scikit-learn.org/>



Tensorflow

<https://www.tensorflow.org>

Keras

<https://keras.io>

PyTorch

<http://pytorch.org>

N°7

Communauté



Diversité



<https://www.python.org/psf/diversity/>

IRC

<https://webchat.freenode.net/>

Se connecter sur #python-fr



S.O.S

<irc://irc.freenode.net/python-fr>



Questions?