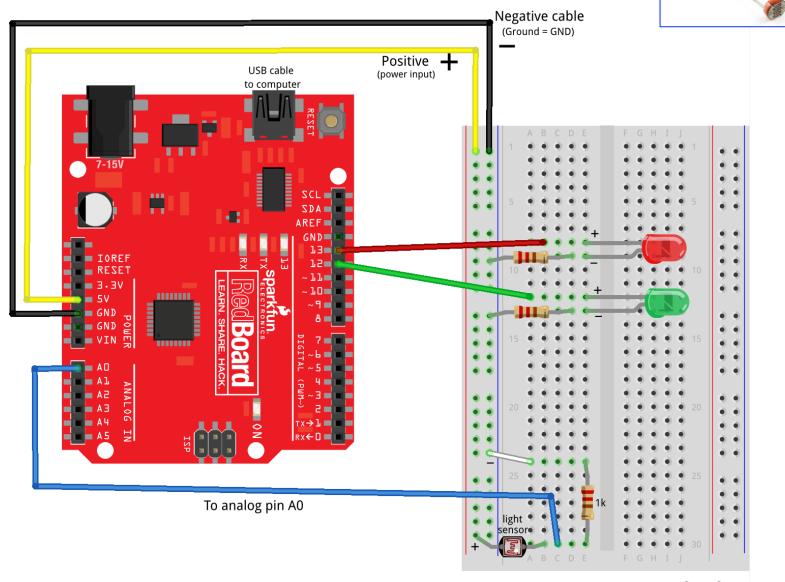
LED + light sensor circuit: Controlled blink program

Light sensor



PLOTTING THE SENSOR SIGNAL using MATPLOTLIB

Open the program

LEDsLightSensor-matplotlib.ipynb

available at

https://github.com/sccc-python-workshop/python-examples

Execute the python code (shift+enter).

PLOTTING THE SENSOR SIGNAL using PLOTLY

Open the program

LEDsLightSensor_plotly.ipynb

available at

https://github.com/sccc-python-workshop/python-examples

Before we can execute this code, there are a few things you must do online beforehand.

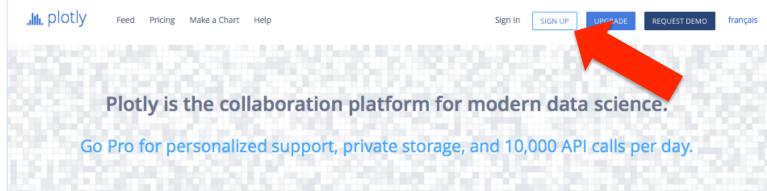
PLOTTING THE SENSOR SIGNAL using PLOTLY

Sign up (i.e., open a free account) at https://plot.ly/python/getting-started/

- a. Read the installation instructions for **plotly**
- Register (free) to be able to use the online plotting feature of plotly



Or go straight to https://plot.ly/feed/



Once you sign in, click on API KEYS (menu on the left, under your

profile name)

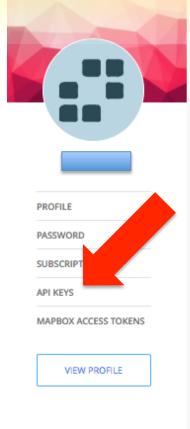
Generate an API KEY

if you have none (there's a button for that). Write that down on a piece of paper.

Add two tokens (two is enough for this workshop) by clicking on the button "Add a new token". Write these down on a piece of paper.

Insert both API KEY and TOKENS in the Python code

LEDsLightSensor_plotly.ipynb

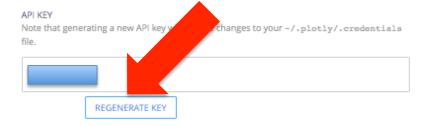


API SETTINGS

USERNAME

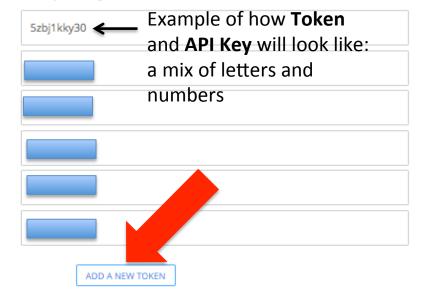
The same as your Plotly username.

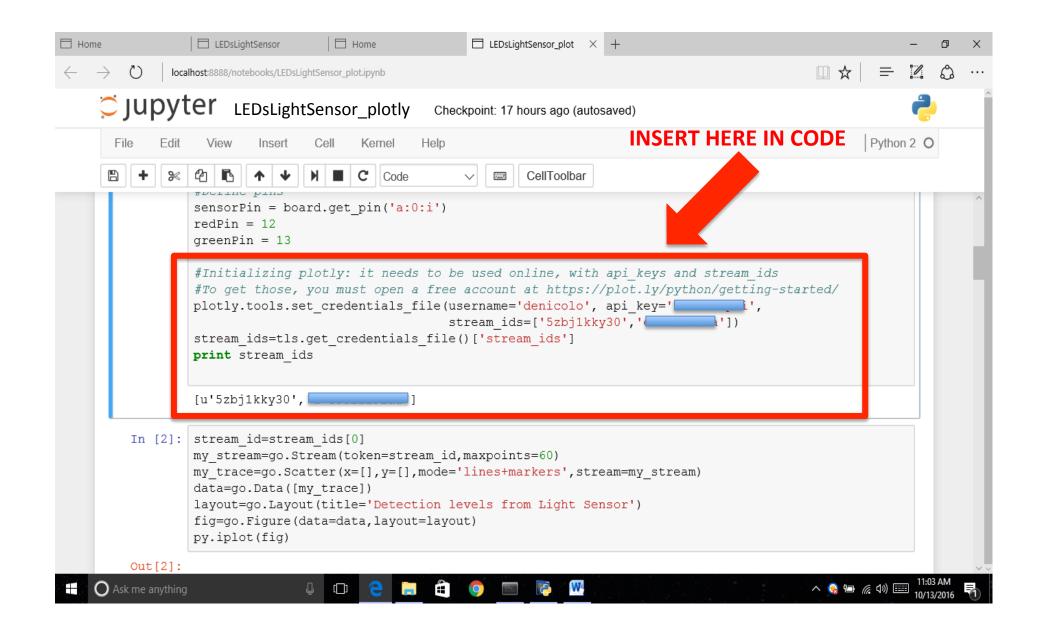
denicolo Choose your own username, of course!



STREAMING API TOKENS

Use one streaming token per data-stream. Check out the documentation to learn more about the Plotly streaming API.





If your **jupyter notebook** is open, close it by clicking on the command prompt window and typing CTRL-C. This should close & kill the notebook.

Next, write the following in the command line prompt of your computer (the same place you type "jupyter notebook" to open the notebook).

pip install plotly

Wait for the installation to be completed. Now you can open your notebook again by typing **jupyter notebook**.

Plotly will always work in your codes from now on.