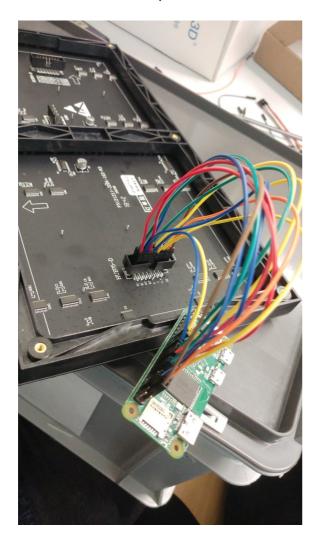
# **Hardware:**

Materiels requis :

Raspberry PIO
Un panneau LED
Cables de connections
Bloc d'alimentation

### Connecter tous les composants :



Le bloc d'alimentation n'étant pas encore livrée nous n'avons pas pu tout connecté

## **Configuration Software:**

### ETAPE 2:

Télécharger le code pour piloter le panneau LED :

wget https://github.com/adafruit/rpi-rgb-led-matrix/archive/master.zip

```
pi@raspberrypi: ~/Documents/obj...models/research/object_detection _ = x
Fichier Édition Onglets Aide
pi@raspberr... 🗶
                         pi@raspberr...
Résolution de github.com (github.com)… 192.30.253.112, 192.30.253.113
Connexion à github.com (github.com)|192.30.253.112|:443… connecté.
requête HTTP transmise, en attente de la réponse… 302 Found
Emplacement : https://codeload.github.com/adafruit/rpi-rgb-led-matrix/zip/mast
er [suivant]
--2019-03-19 13:00:27-- https://codeload.github.com/adafruit/rpi-rgb-led-matr
ix/zip/master
Résolution de codeload.github.com (codeload.githup.com)... 192.30.253.120, 192.3
Connexion à codeload.github.com (codeload.github.com)|192.30.253.120|:443... con
0.253.121
requête HTTP transmise, en attente de la réponse… 200 OK
Taille : non indiqué [application/zip]
Sauvegarde en : « master.zip »
                                                              ] 1,83M 2,43MB/s
                                                                                              in 0,8s
master.zip
2019-03-19 13:00:29 (2,43 MB/s) - « master.zip » sauvegardé [1915552]
 pi@raspberrypi:~/Documents/object_detection/models/research/object_detection $
```

unzip master.zip

```
pi@raspberrypi: ~/Documents

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pi@raspberr... * pi@raspberr... *

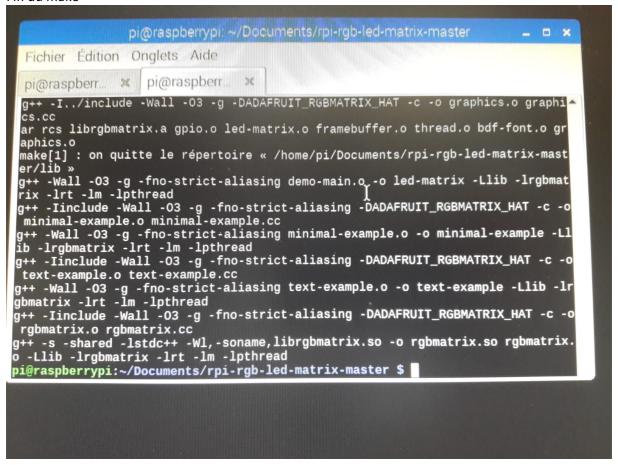
inflating: rpi-rgb-led-matrix-master/include/led-matrix.h
inflating: rpi-rgb-led-matrix-master/include/thread.h
inflating: rpi-rgb-led-matrix-master/include/threaded-canvas-manipulator.h
inflating: rpi-rgb-led-matrix-master/lib/
inflating: rpi-rgb-led-matrix-master/lib/bdf-font.cc
inflating: rpi-rgb-led-matrix-master/lib/framebyffer.cc
inflating: rpi-rgb-led-matrix-master/lib/graphics.cc
inflating: rpi-rgb-led-matrix-master/lib/graphics.cc
inflating: rpi-rgb-led-matrix-master/lib/thed-matrix.cc
inflating: rpi-rgb-led-matrix-master/lib/thed-matrix.cc
inflating: rpi-rgb-led-matrix-master/lib/thed-matrix-cc
inflating: rpi-rgb-led-matrix-master/matrixtest2.py
inflating: rpi-rgb-led-matrix-master/matrixtest2.py
inflating: rpi-rgb-led-matrix-master/matrix-cc
inflating: rpi-rgb-led-matrix-master/rpmatrix.cc
inflating: rpi-rgb-led-matrix-master/rpmatrix.cc
inflating: rpi-rgb-led-matrix-master/runtext.fb.ppm
inflating: rpi-rgb-led-matrix-master/runtext.fb.ppm
inflating: rpi-rgb-led-matrix-master/text-example.cc
pi@raspberrypi:~/Documents $
```

Dans le dossier que nous venons de décompresser faire :

cd rpi-rgb-led-matrix-master/

```
inflating: rpi-rgb-led-matrix-master/lib/Makefile
inflating: rpi-rgb-led-matrix-master/lib/bdf-font.cc
inflating: rpi-rgb-led-matrix-master/lib/framebuffer-internal.h
inflating: rpi-rgb-led-matrix-master/lib/framebuffer.cc
inflating: rpi-rgb-led-matrix-master/lib/framebuffer.cc
inflating: rpi-rgb-led-matrix-master/lib/graphics.cc
inflating: rpi-rgb-led-matrix-master/lib/led-matrix.cc
inflating: rpi-rgb-led-matrix-master/lib/threadj.cc
inflating: rpi-rgb-led-matrix-master/lib/utf8-internal.h
inflating: rpi-rgb-led-matrix-master/matrixtest2.py
inflating: rpi-rgb-led-matrix-master/matrixtest2.py
inflating: rpi-rgb-led-matrix-master/rgbmatrix.cc
inflating: rpi-rgb-led-matrix-master/rgbmatrix.cc
inflating: rpi-rgb-led-matrix-master/runtext.ppm
inflating: rpi-rgb-led-matrix-master/runtext.ppm
inflating: rpi-rgb-led-matrix-master/text-example.cc
inflating: rpi-rgb-led-matrix
```

### Fin du make



Etape 3
Programmer le panneau LED en python

(un fichier test est déposé sur le Git)