

INSTAGRAM FOLLOWERS COUNTER



Instagram

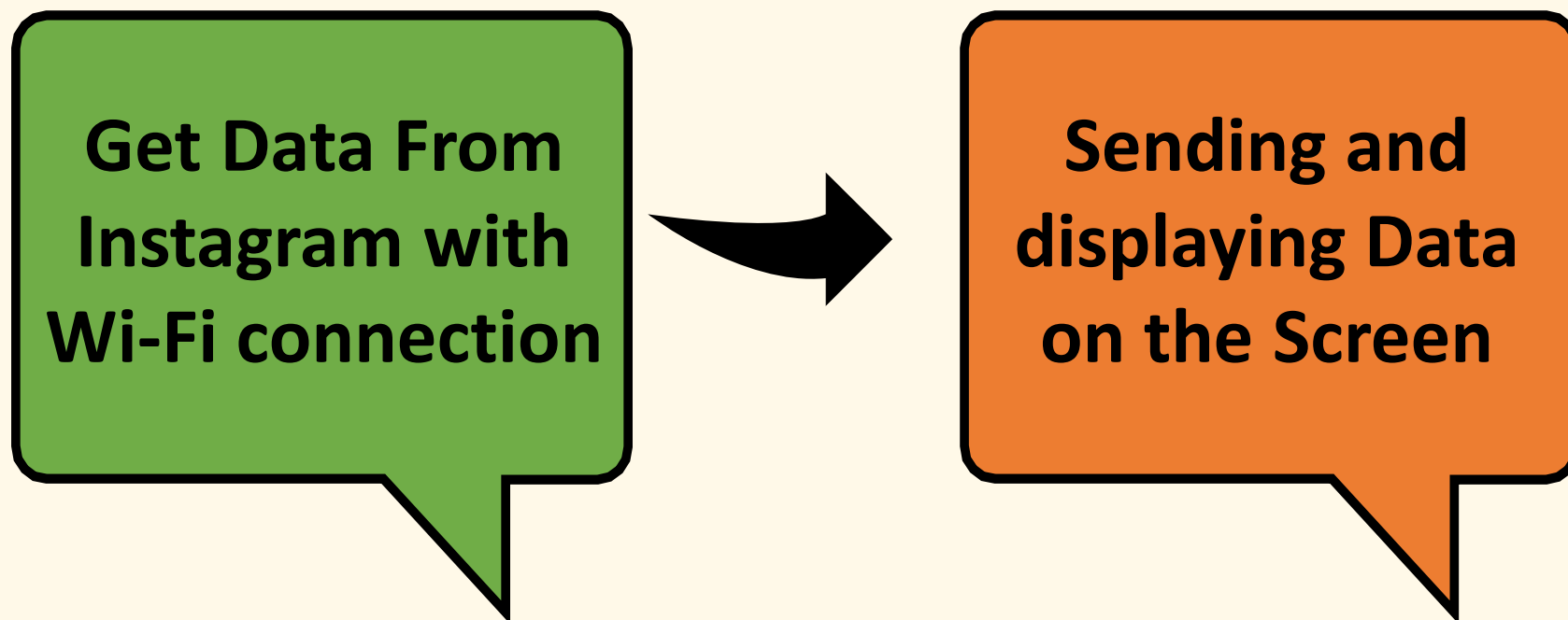
Summary

I. Presentation & Materials

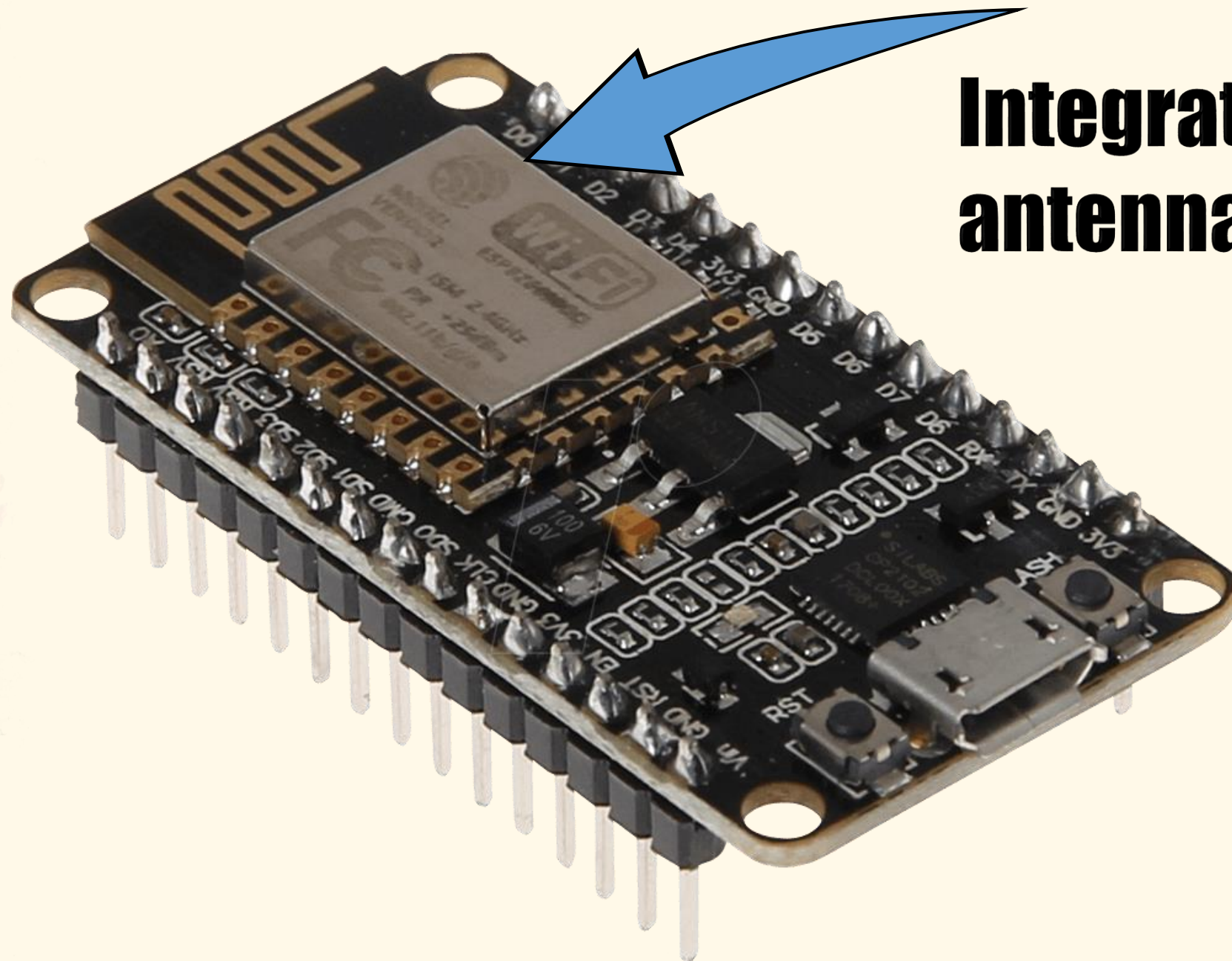
II. GetUser Code & Screen Display

III. Demonstration of the display of the
Data recovered

INSTAGRAM FOLLOWERS COUNTER



ESP 8266 Node MCU (Micro Controller Unit) 12



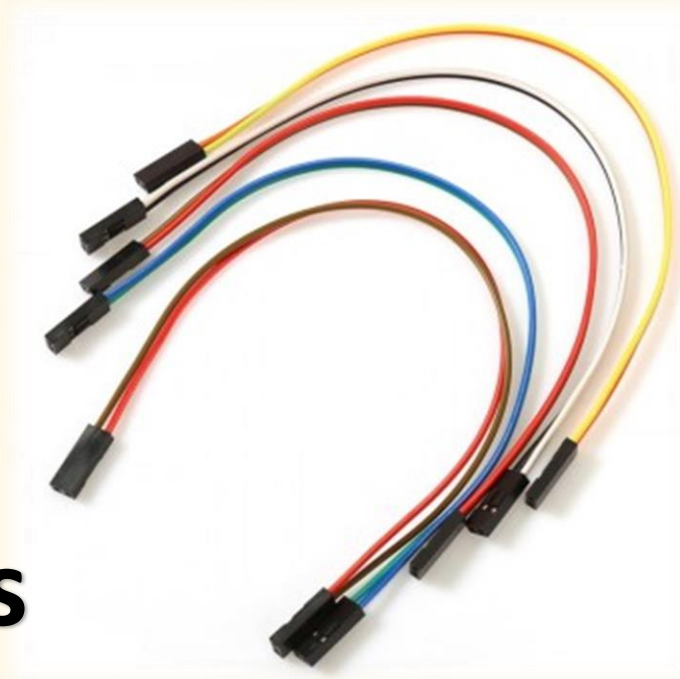
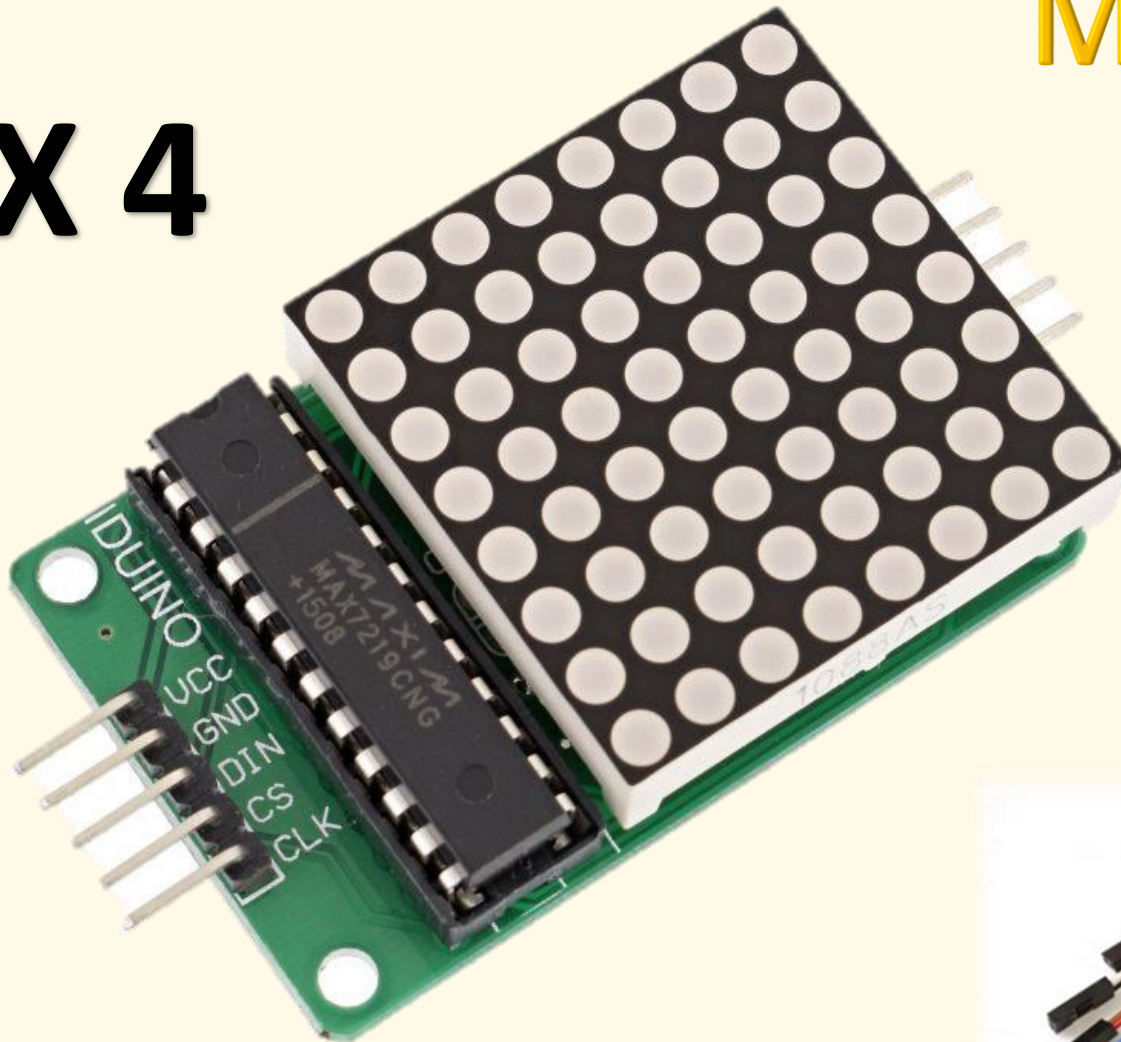
**Integrated wifi
antenna**

Link to download the driver of the esp8266

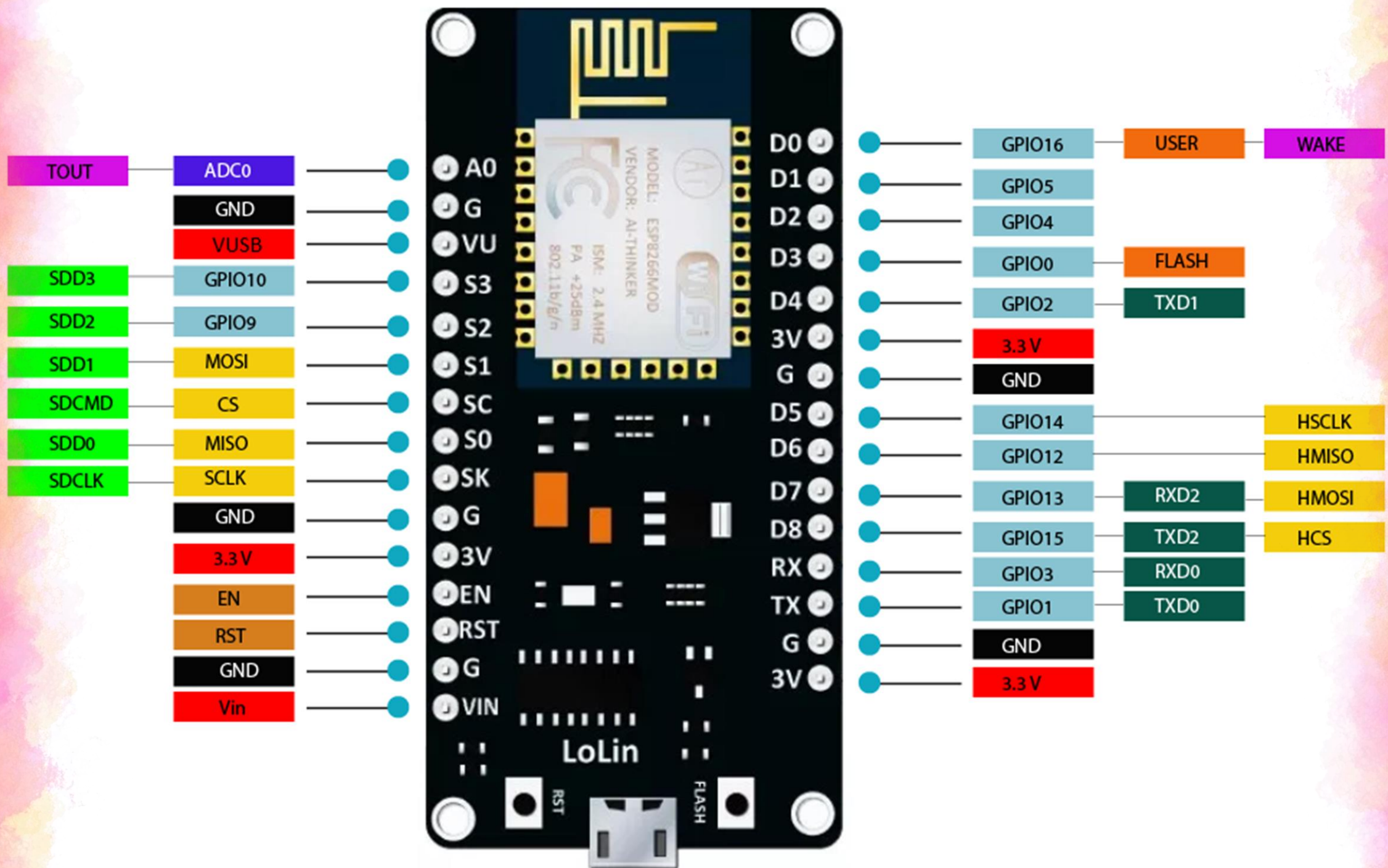
http://arduino.esp8266.com/stable/package_esp8266com_index.json

MAX 7219

X 4

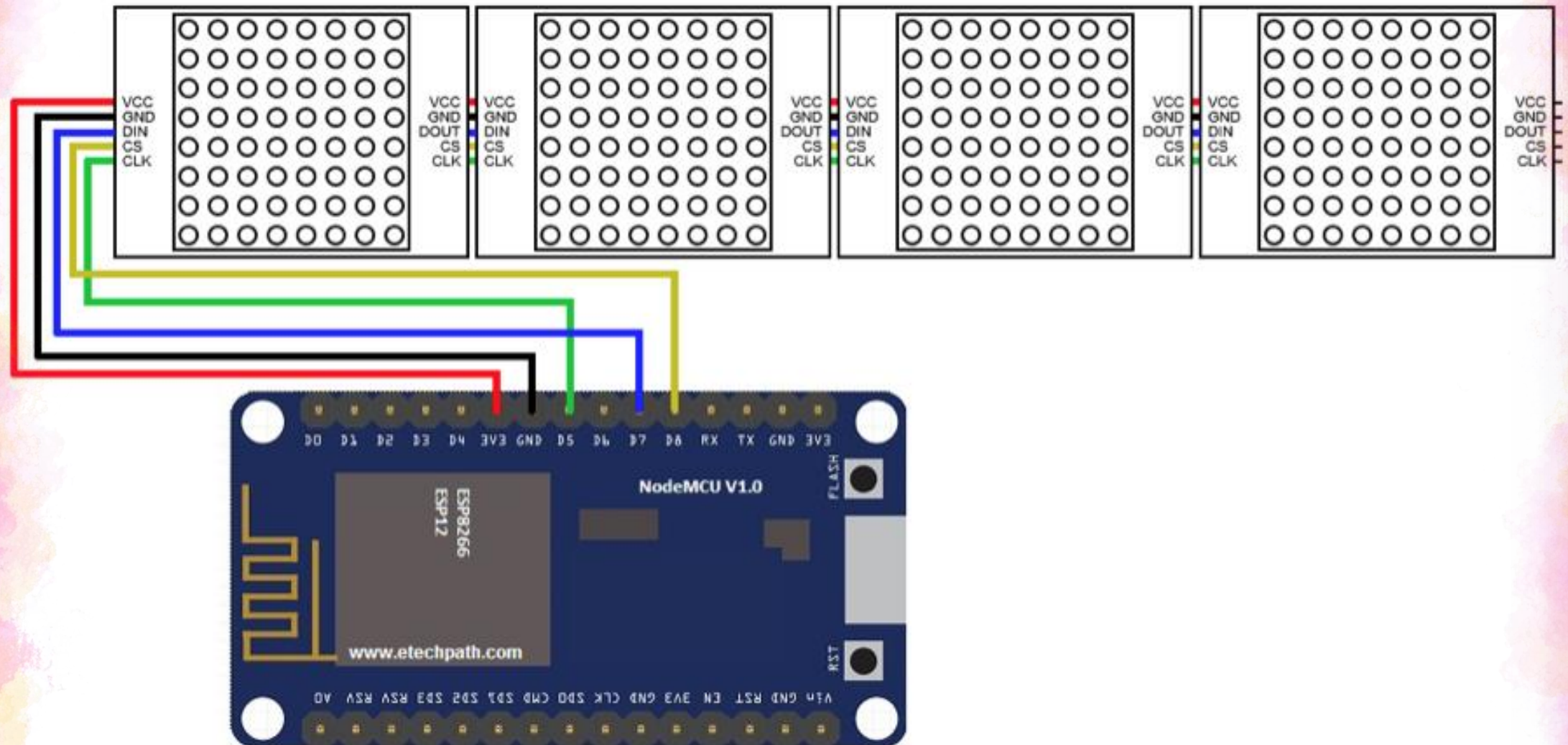


Female-female wires



NodeMCU V3 Pinout

CABLING



The Hello World display

Parola_HelloWorld

```
#include <MD_Parola.h>
#include <MD_MAX72xx.h>
#include <SPI.h>

// Define the number of devices we have in the chain and the hardware interface
// NOTE: These pin numbers will probably not work with your hardware and may
// need to be adapted
#define HARDWARE_TYPE MD_MAX72XX::FC16_HW
#define MAX_DEVICES 4

#define CLK_PIN    4
#define DATA_PIN  16
#define CS_PIN     5

// Hardware SPI connection
//MD_Parola P = MD_Parola(HARDWARE_TYPE, CS_PIN, MAX_DEVICES);
// Arbitrary output pins
MD_Parola P = MD_Parola(HARDWARE_TYPE, DATA_PIN, CLK_PIN, CS_PIN, MAX_DEVICES);

void setup(void)
{
    P.begin();
    P.displayText("Hello world", PA_CENTER, 40, 0, PA_SCROLL_LEFT, PA_SCROLL_LEFT);
}
```



```
void loop(void)
```

```
{
```

```
  if
```

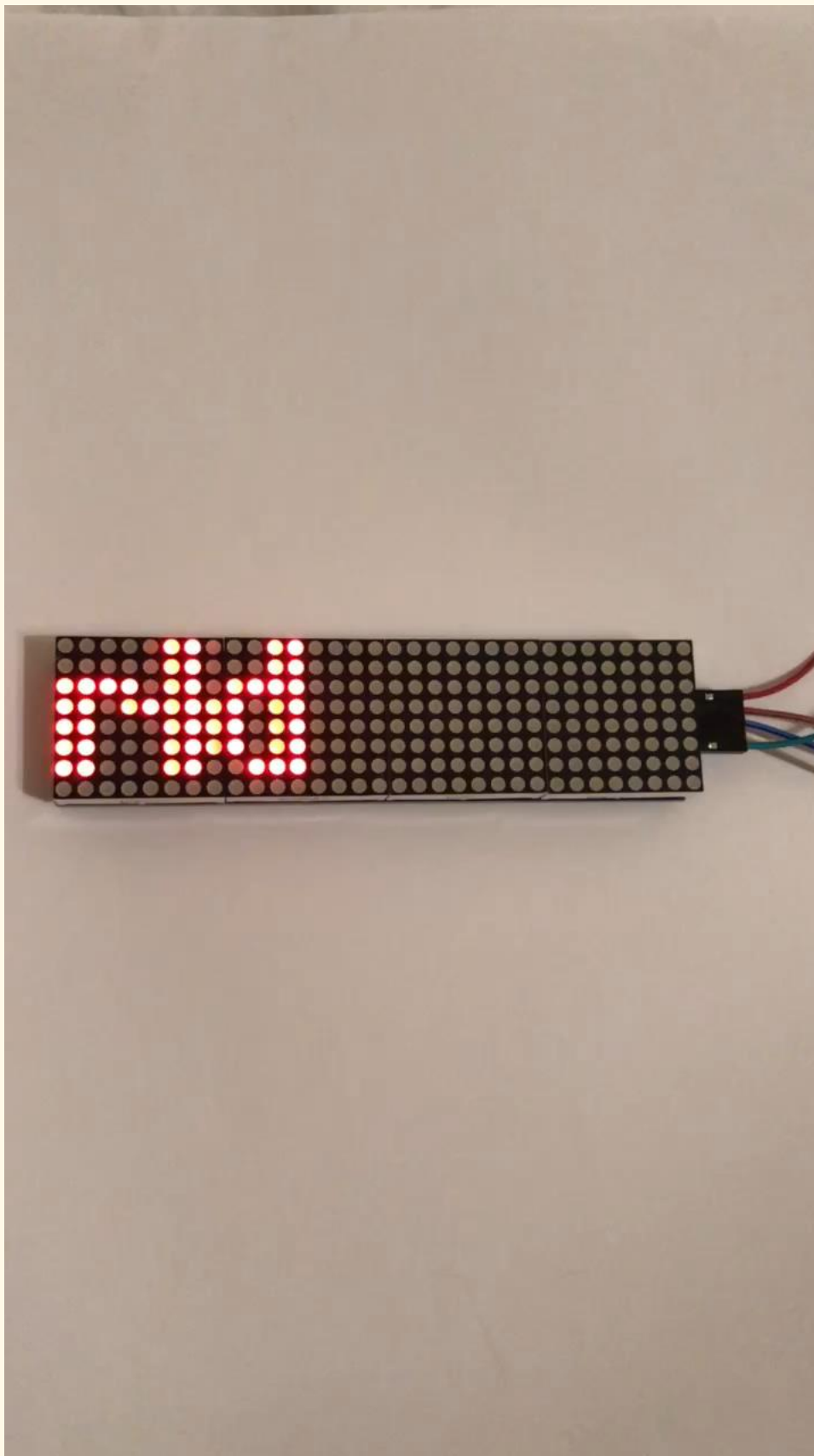
```
  ( P.displayAnimate() )
```

```
{    P.displayReset();
```

```
}
```

```
}
```





The GetUser from Instagram
displayed on the console

UserData §

```
#include "InstagramStats.h"
#include <ESP8266WiFi.h>
#include <WiFiClientSecure.h>
#include "JsonStreamingParser.h"

char ssid[] = "Bbox-401EB837"; // your network SSID (name)
char password[] = "a"; // your network key

WiFiClientSecure client;
InstagramStats instaStats(client);

unsigned long delayBetweenChecks = 60000; //mean time between api requests
unsigned long whenDueToCheck = 0;

//Inputs
String userName = "eden_be_";
void setup()
{
    Serial.begin(115200);

    // Set WiFi to station mode and disconnect from an AP if it was Previously
    // connected
    WiFi.mode(WIFI_STA);
    WiFi.disconnect();
    delay(100);
```



```
// Attempt to connect to Wifi network:
```

```
Serial.print("Connecting Wifi: ");
```

```
Serial.println(ssid);
```

```
WiFi.begin(ssid, password);
```

```
while (WiFi.status() != WL_CONNECTED)
```

```
{
```

```
    Serial.print(".");
```

```
    delay(500);
```

```
}
```

```
Serial.println("");
```

```
Serial.println("WiFi connected");
```

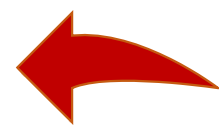
```
Serial.println("IP address: ");
```

```
IPAddress ip = WiFi.localIP();
```

```
Serial.println(ip);
```

```
// If using ESP8266 Core 2.5 RC, uncomment the following
```

```
// client.setInsecure();
```



```
}
```

```
void getInstagramStatsForUser()
{
    Serial.println("Getting instagram user stats for " + userName);
    InstagramUserStats response = instaStats.getUserStats(userName);
    Serial.println("Response:");
    Serial.print("Number of followers: ");
    Serial.println(response.followedByCount);
}

void loop()
{
    unsigned long timeNow = millis();
    if ((timeNow > whenDueToCheck))
    {
        getInstagramStatsForUser();
        whenDueToCheck = timeNow + delayBetweenChecks;
    }
}
```


|

.....

WiFi connected

IP address:

192.168.1.14

Getting instagram user stats for eden_be_

Response:

Number of followers: 572



Défilement automatique



Afficher l'horodatage

The GetUser from
Instagram displayed on the
matrix


```
#include "InstagramStats.h"
#include <ESP8266WiFi.h>
#include <WiFiClientSecure.h>

#include <MD_Parola.h>
#include <MD_MAX72xx.h>
#include <SPI.h>

#include "JsonStreamingParser.h"


#define HARDWARE_TYPE MD_MAX72XX::FC16_HW
#define MAX_DEVICES 4

#define CLK_PIN 16 //D0
#define DATA_PIN 4 //D1
#define CS_PIN 5 //D2

char ssid[] = "iPhone de Eden"; // your network SSID (name)
char password[] = "edenberro"; // your network key

char nbFollowers[50] = "0";

WiFiClientSecure client;
InstagramStats instaStats(client);
```



```
unsigned long delayBetweenChecks = 20000; //mean time between api requests
unsigned long whenDueToCheck = 0;

//Inputs
String userName = "eden_be_";

MD_Parola P = MD_Parola(HARDWARE_TYPE, DATA_PIN, CLK_PIN, CS_PIN, MAX_DEVICES);

void setup()
{
    Serial.begin(115200);
    P.begin();

    // Set WiFi to station mode and disconnect from an AP if it was Previously
    // connected
    WiFi.mode(WIFI_STA);
    WiFi.disconnect();
    delay(100);

    // Attempt to connect to Wifi network:
    Serial.print("Connecting Wifi: ");
    Serial.println(ssid);
    WiFi.begin(ssid, password);
    while (WiFi.status() != WL_CONNECTED)
    {
```



```
    Serial.print(".");  
    delay(500);  
}  
Serial.println("");  
Serial.println("WiFi connected");  
Serial.println("IP address: ");  
IPAddress ip = WiFi.localIP();  
Serial.println(ip);  
  
// If using ESP8266 Core 2.5 RC, uncomment the following  
client.setInsecure();  
  
void getInstagramStatsForUser()  
{  
    Serial.println("Getting instagram user stats for " + userName);  
    InstagramUserStats response = instaStats.getUserStats(userName);  
    Serial.println("Response:");  
    Serial.print("Number of followers: ");  
    Serial.println(response.followedByCount);  
}
```



```
//Récupération de la variable int
int data = response.followedByCount;

//conversion int => String
String str = "Number of followers : " + String(data);

//string => char
str.toCharArray(nbFollowers, 50);

P.displayText(nbFollowers, PA_CENTER, 40, 0, PA_SCROLL_LEFT, PA_SCROLL_LEFT);
}

void loop()
{
    if( P.displayAnimate())
    {
        P.displayReset();
    }
    unsigned long timeNow = millis();
    if ((timeNow > whenDueToCheck))
    {
        getInstagramStatsForUser();
        whenDueToCheck = timeNow + delayBetweenChecks;
    }
}
```


Demonstration of the display

*You can follow or unfollow
me at **eden_be_** to check
the difference*

If there is some « aléas du direct »

