

Mu in Melrose

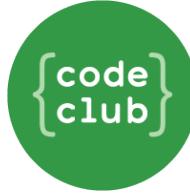


British
Science
Week
2019

Safer
Internet
Day 2019 | Tuesday
5 February
Together for a better internet



MyData
Scotland
*From vision to action
– future is now*



Edinburgh Branch



[←](#) Tweet



Carrie Anne Philbin
@MissPhilbin

I'm so proud to have helped Mu's inception so children like Maisie can create with technology. Thanks for sharing! codewith.mu #CASchat #PythonEDU #CSForAll

Melrose PS @melrose_ps

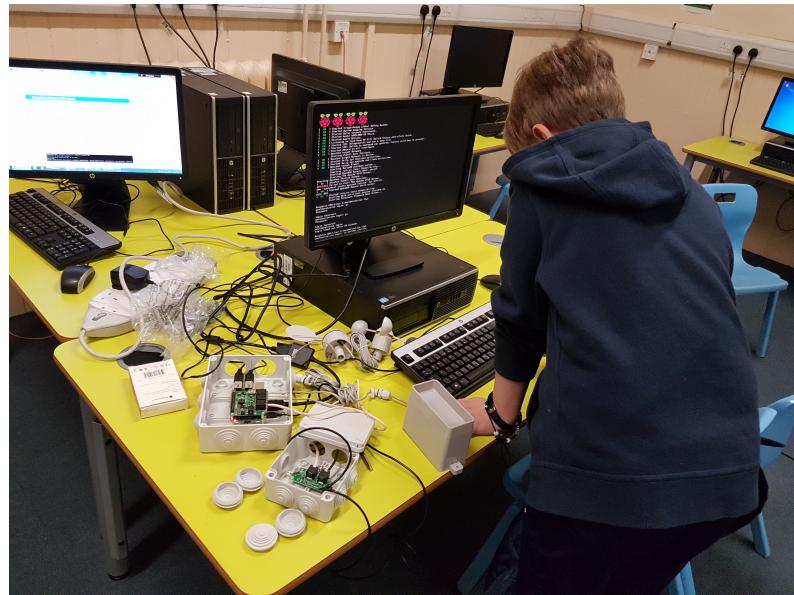
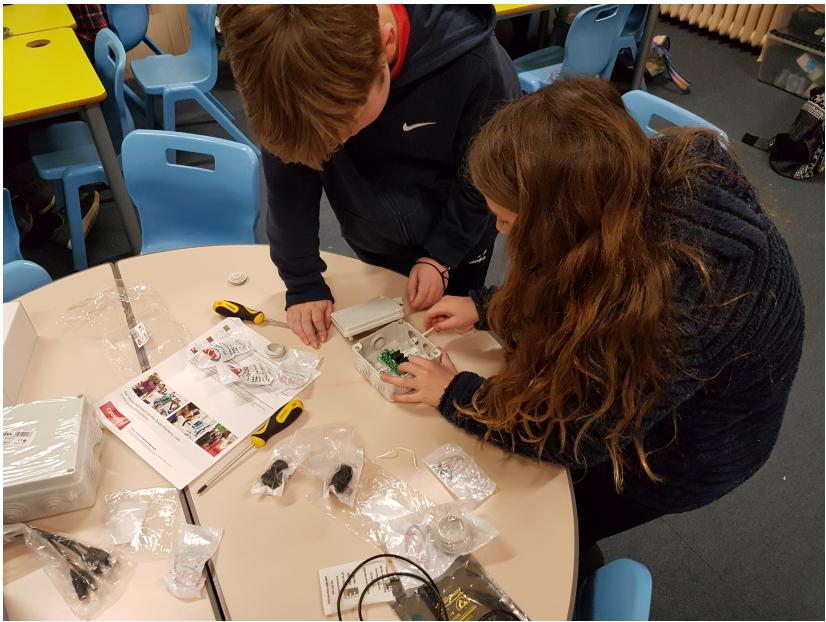
So proud Maisie who decided to share her coding/robotics achievement. Amazing confidence and delivery, unrehearsed in front of over 160 pupils. What a star! @SBCEducation1 @tpresslie @Raspberry_Pi

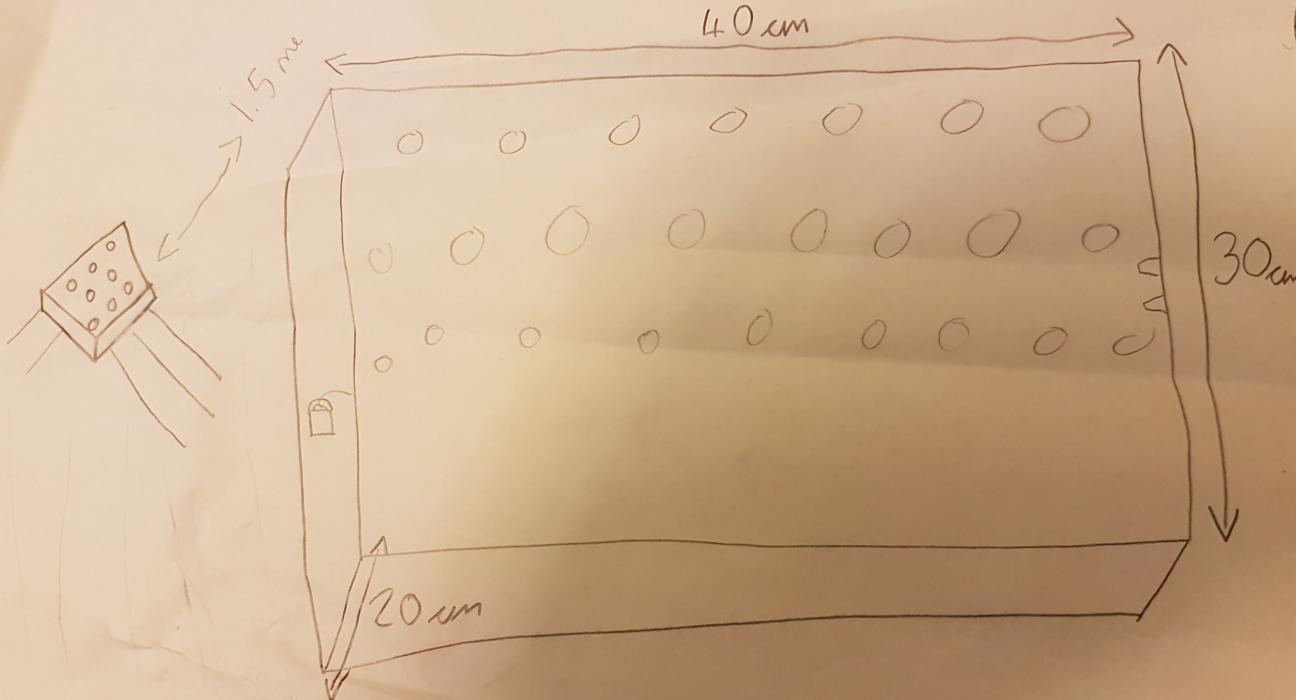


Tweet your reply

“Mu is like a normal python thing, but it’s a lot easier to use”

Maisie, age 10









Mu 1.0.1 - temp_graph.py

The Mu IDE interface includes a toolbar with icons for Mode, New, Load, Save, Stop, Debug, REPL, Zoom-in, Zoom-out, Theme, Check, Help, and Quit. Below the toolbar is a tab bar with six tabs: temp_graph.py, ourweather.py, team_chooser_byAmelie.py, station_map.py, and weathercarrot.py. The temp_graph.py tab is active.

```

1  from requests import get
2  import matplotlib.pyplot as plt
3  from dateutil import parser
4
5  url = 'https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026'
6
7  pages = 1
8  weather = get(url).json()
9  data = weather['items']
10
11 while 'next' in weather and pages < 11:
12     url = weather['next']['$ref']
13     print('Fetching {}'.format(url))
14     weather = get(url).json()
15     data += weather['items']
16     pages += 1
17
18 temperatures = [record['ambient_temp'] for record in data]
19 ground_temps = [record['ground_temp'] for record in data]
20 timestamps = [parser.parse(record['reading_timestamp']) for record in data]
21
22 plt.plot(timestamps, temperatures)
23 plt.plot(timestamps, ground_temps)

```

Running: temp_graph.py

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=1

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=2

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=3

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=4

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=5

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=6

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=7

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=8

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=9

Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/15182026?page=10

Figure 1

Temperature

date and time

Python



2nd March 2018
Melrose Raspberry Jam
<https://www.eventbrite.co.uk/e/melrose-raspberry-jam-tickets-55108113852>



18th March 2018
Mapping Data Ecosystems
Workshop
<https://www.meetup.com/mydata-scotland/events/258696007/>

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