Mu in Melrose

British Science Week 2019
8-17 March

code club

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

STEM AMBASSADOR

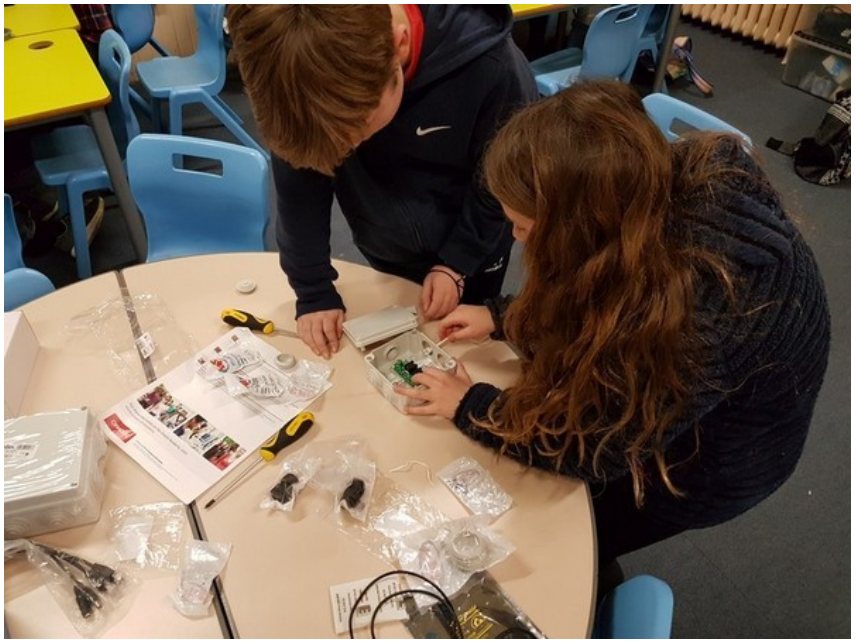
bcs The Chartered Institute for IT
Edinburgh Branch

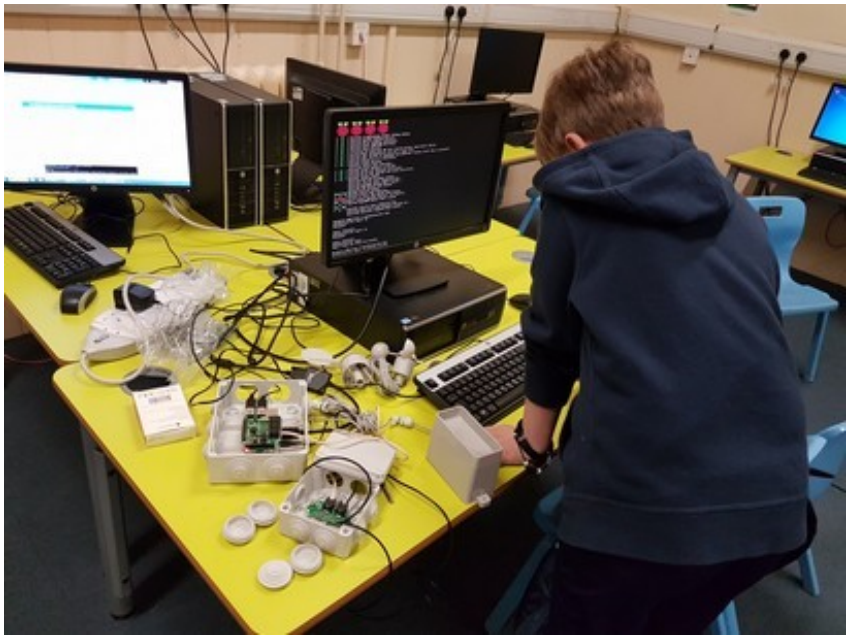
MyData Scotland
From vision to action – future is now

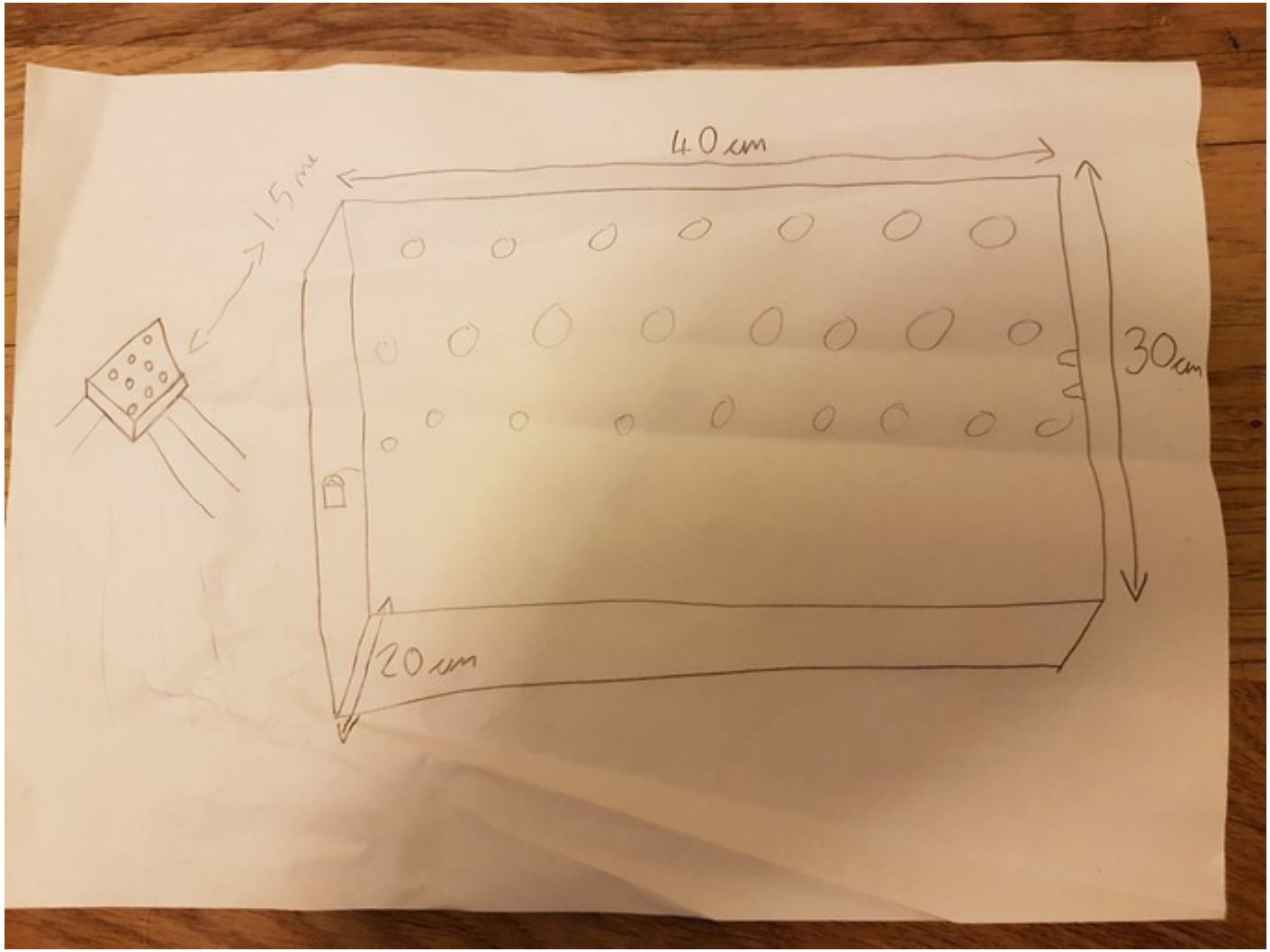
RASPBERRY JAM
Big Birthday Weekend

"Mu is like a normal python thing, but it's a lot easier to use"

Maisie, age 10





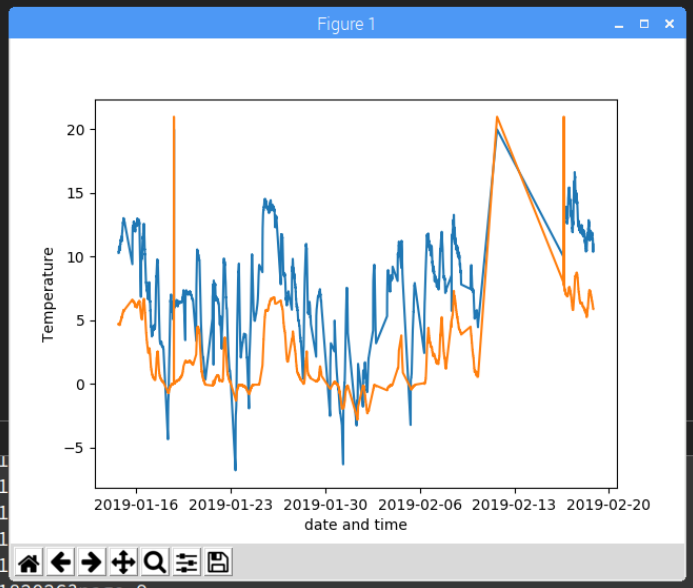

40 cm
15 cm
30 cm
20 cm

Mu 1.0.1 - temp_graph.py

Mode | New | Load | Save | Stop | Debug | REPL | Zoom-in | Zoom-out | Theme | Check | Help | Quit

temp_graph.py | ourweather.py | team_chooser_byAmelie.py | station_map.py | weathercarrot.py

```
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 {0}'.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/151
Fetching https://apex.oracle.com/pls/apex/raspberrypi/weatherstation/getallmeasurements/151
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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
```

Python

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

MyData Scotland
From vision to action – future is now

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

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