micro:bit | Overnight Data

Use a battery powered micro:bit to sense data overnight (e.g., the temperature in your freezer). Send the data to another one so you can graph it. You can even save the data and import it into a spreadsheet.

You'll need two micro:bits. The data collector records data then sends it all via radio when button A of the retriever requests it. The other, connected to a laptop, receives and graphs the data.
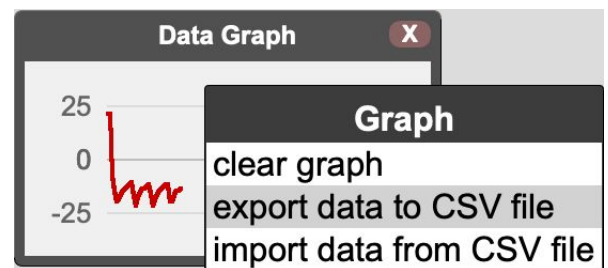
Data Collector Scripts

```
when started
set data to list ▶
forever
  add temperature (°C) to list data
  wait 5 × 60000 millisecs
```

```
when radio message received?
if get data = radio last string
  for i in length of data
    radio send number item i of data
    wait 5 millisecs
  radio send string end
  ▶
```

Data Retriever Script

```
when button A ▾ pressed
radio send string get data
forever
  wait until radio message received?
  if end = radio last string
    stop this task
  ▶
  graph radio last number ▶
```

Data Graph   X

| 25 |
| 0 |
| -25 |

Graph
clear graph
export data to CSV file
import data from CSV file

Right-click on the graph to export the data, then open in a spreadsheet.

v1.0

http://microblocks.fun