

## 1 - Collecting Data

Added libraries:





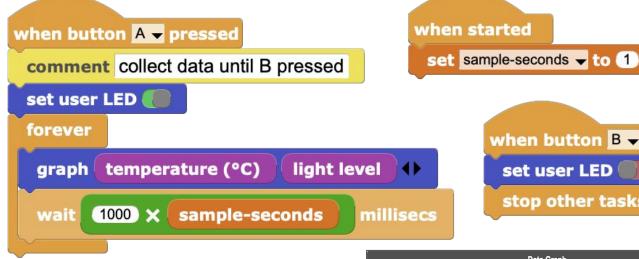


Scientific discoveries involve analyzing data, so try collecting some.

Open **m** and right-click on the graph to clear it.

Press button A to record data and B to stop.

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

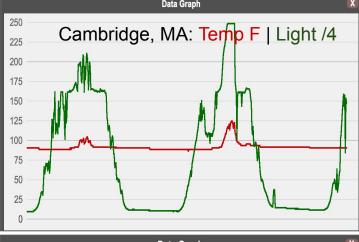


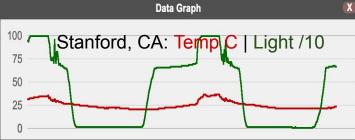
when button B → pressed set user LED stop other tasks

Right-click to save the data to a file.

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

Challenge: Place your micro:bit near a window and record data for a few hours or until the next day (graphs at right recorded every 6 min for >2 days). Export the data to a file so you can analyze it further. What were the min and max values? Do you understand the changes?



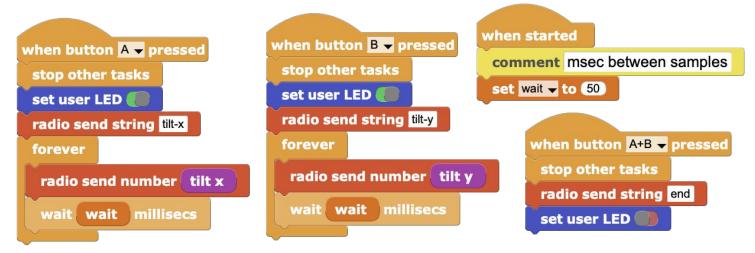




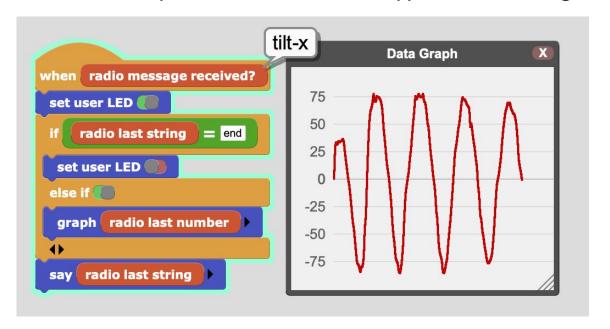
## 2 - Remotely Logging Data

To log data from a remote micro:bit, partner with someone else. While the remote micro:bit transmits data, the receiver remains connected to MicroBlocks on a computer so it can graph and save the data.

Remote: press A to transmit tilt-x, B to transmit tilt-y, and A+B to stop.



Receiver: the "say" block will show the type of data being received.



Challenge: Toss up then catch one micro:bit while receiving acceleration data on another. Can you tell from the graph when it was rising or falling?