

File New Open

Save

Hello LED - basic

Connect the BBC micro:bit to MicroBlocks. (Make sure the icon turns green.)





Click set user LED with the switch state on and off.



Create an on variable to control the LED state, and trigger the state change with a button press.





Hello LED - graphing data

Example "HelloLED-graph.ubp".



Log the on variable so that you can graph its state.

Select "show graph data" from the MicroBlocks "gear" menu.







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Press button A to see the LED/graph toggle.







Hello LED - radio



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http://microblocks.fun



Mozilla WebThings Gateway

First set up a **Mozilla WebThings Gateway** <u>https://iot.mozilla.org/gateway</u>



For boards connected to the gateway over USB, you must also install the **MicroBlocks Add-on**. Under **Settings** > **Add-ons**, if the MicroBlocks Add-on is not installed, click "+" to browse and add it.



Connect the micro:bit over USB then click "+" from the "Things" page to discover and add the micro:bit as a "web thing".

1. Click "+" 2. & 3. Discovery scan (Click "Save", "Done") 4. New Thing added!



(Tip: in MicroBlocks, change the thing "Hello LED" to **your name** to more easily identify your board.) http://microblocks.fun



HelloLED - webthing

Example "HelloLED-webthing.ubp". After running the example, connect the micro:bit board to the WebThings Gateway via USB.

Press button A to toggle the user LED.





