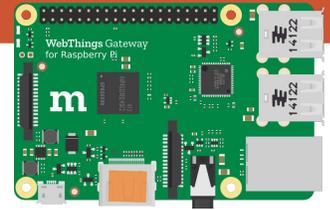




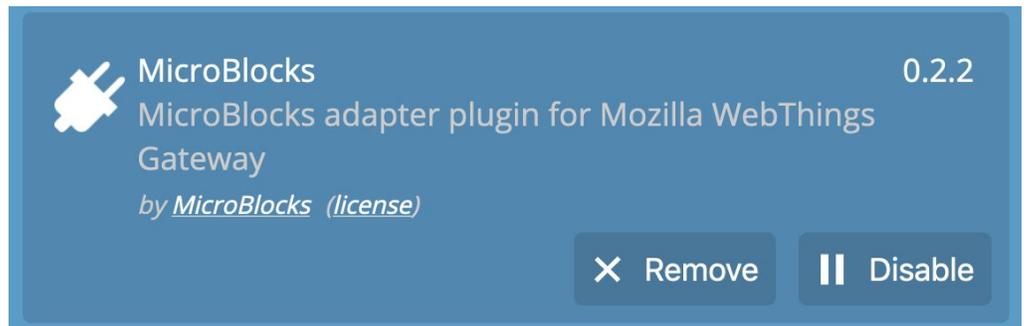
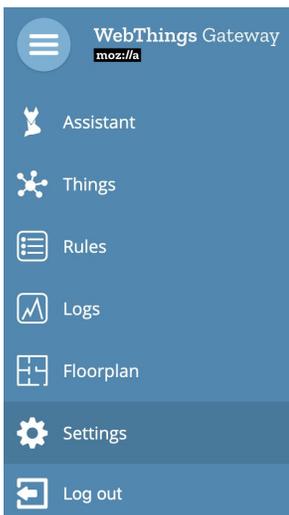
# Mozilla WebThings Gateway



First set up a Mozilla WebThings Gateway

<https://iot.mozilla.org/gateway>

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”.

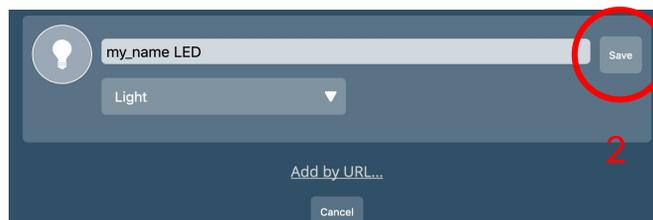
1. Click “+”

2. & 3. Discovery scan (Click “Save”, “Done”)

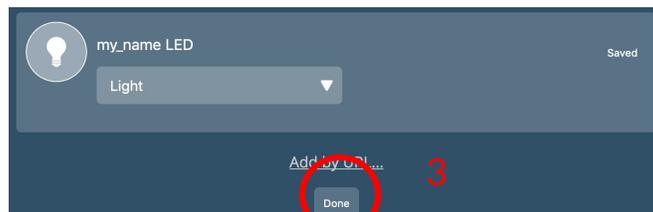
4. New Thing added!



1



2



3



4

(Tip: in MicroBlocks, change the thing “Hello LED” to **your name** to more easily identify your board.)

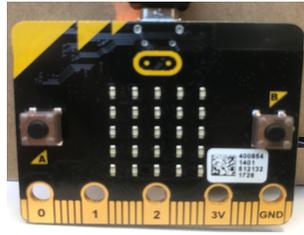
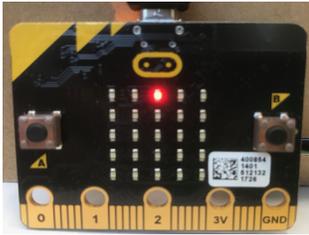


# HelloLED - webthing

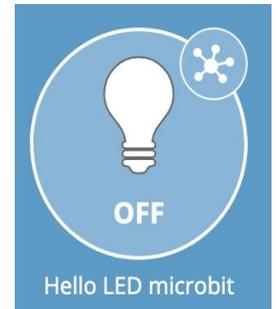
Example "HelloLED-webthing.ubp".  
After running the example, connect the micro:bit board to the WebThings Gateway via USB.



Press button A to toggle the user LED.



Or press the web page icon to toggle the LED.



```

when started
  define thing Hello LED capability Light
  add boolean property title Lit variable on @Type OnOffProperty
  set on to [on]
  set last_on to [on]
  forever
    if on != last_on
      set user LED on
      set last_on to on
    wait 50 millisecs

when button A pressed
  comment To test, click to toggle the LED.
  set on to not on
  wait 300 millisecs

```

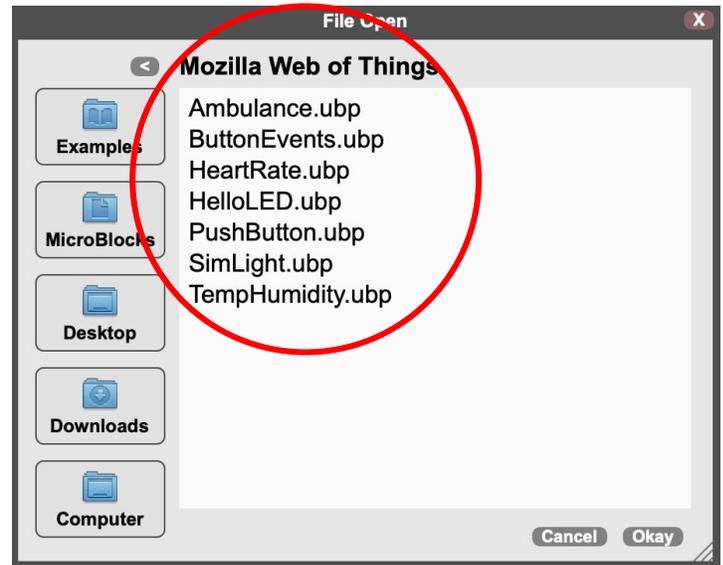
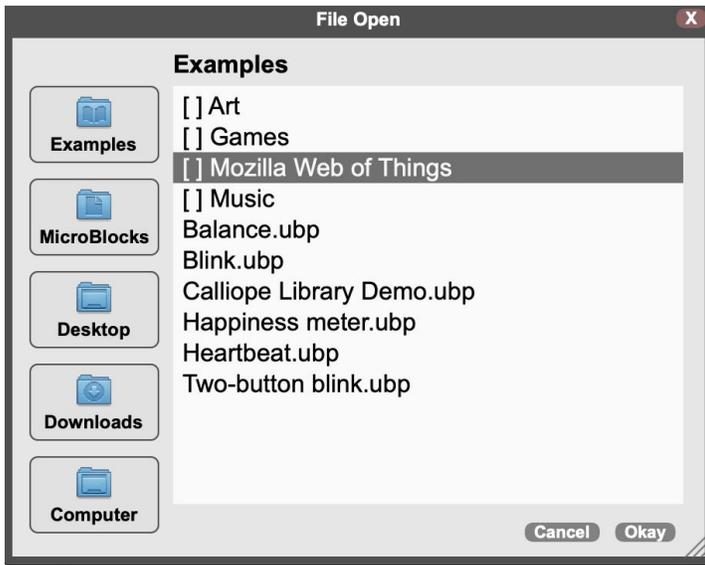


# More about web things

See other examples under “Mozilla Web of Things”. After loading an example, connect the board to the Mozilla WebThings Gateway via USB or Wi-Fi.



Find and open other “web thing” examples.



Turn any regular MicroBlocks program into a web thing, by minimally adding a “define thing” block, and at least one “property” or “event”.

Attach data to variables assigned to properties, or broadcast strings and assign them to events.

