Make Something Cool:
Turning Poundland into tech

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Who am I?

Les Pounder http://bigl.es

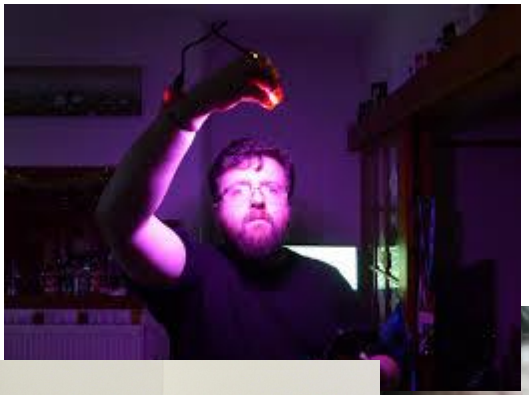
Tech Journalist - Linux Format, Linux Voice, The MagPi, Hackspace, Beanz, Electromaker.io, Tech Radar, Element 14.

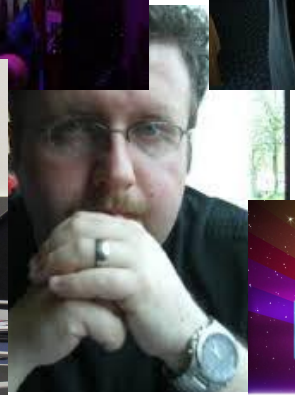
Former Raspberry Pi Picademy Trainer

Maker of cheap tech

Greggs & Poundland Brand Ambassador

Never looks good in a photo >>>





So what are we doing today?

Playing with the micro:bit

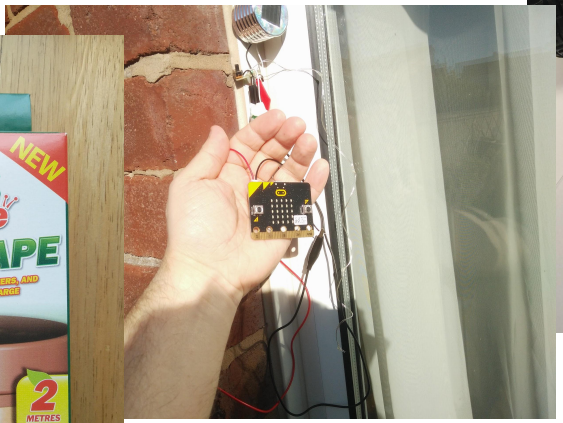
Learn a few new skills

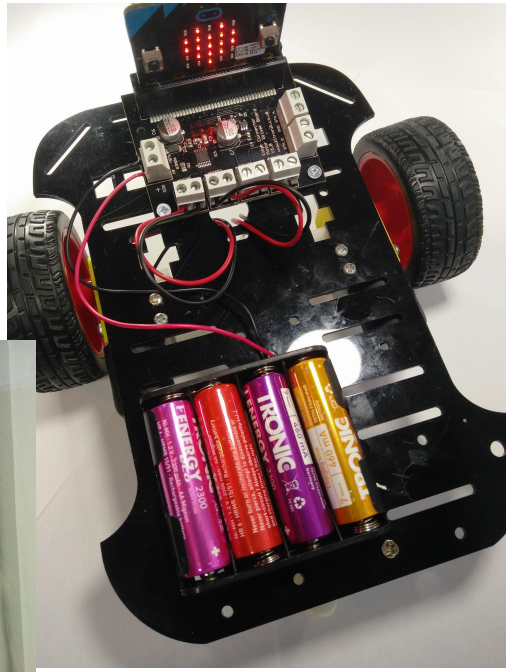
Play with toys

Hack things

Learning to FAIL!

Have fun





Did you say FAIL?

F irst (Further)

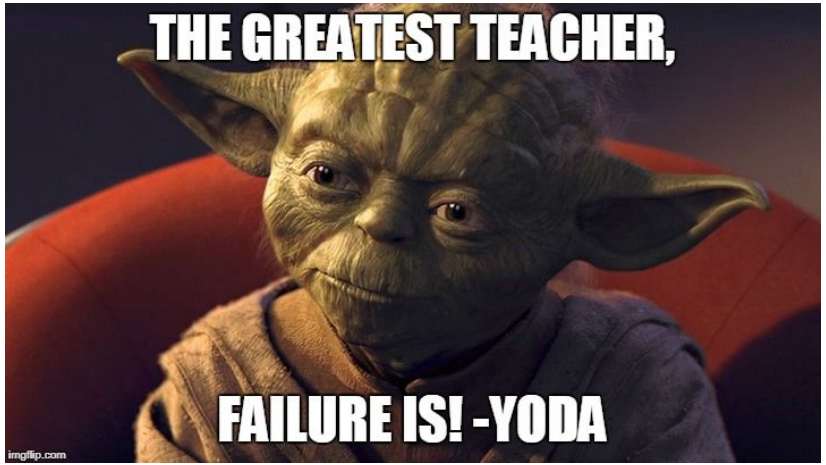
A ttempt

I n

L earning

Learn from failure

Celebrate success

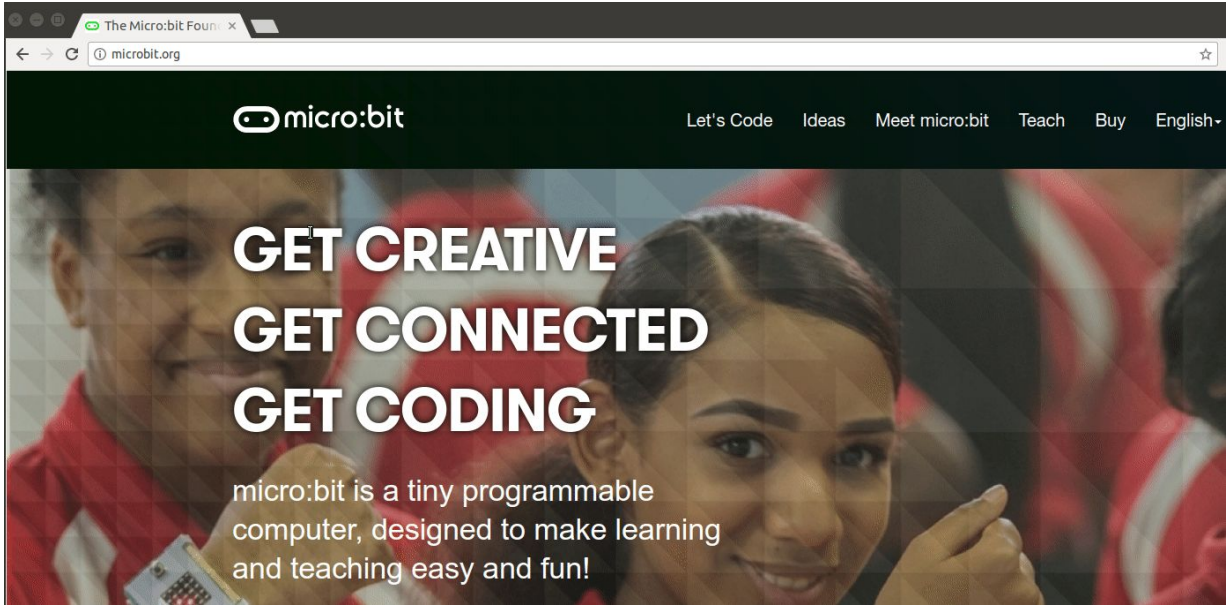


Playtime!

Open your web browser to

http://microbit.org/

Click on it!



JavaScript Blocks Editor

Click on Let's Code

JavaScript Blocks Editor

The micro:bit's JavaScript Blocks editor makes it easy to program your BBC micro:bit in Blocks and JavaScript.

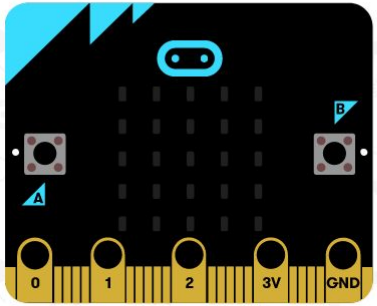
Powered by MakeCode. If you have any issues accessing the editor, check that it isn't blocked in your school. If you need some inspiration then check out these Projects.

Let's Code

Reference

Lessons

micro:bit | Projects | Share | Blocks | { } JavaScript | Microsoft



Search...

- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Advanced

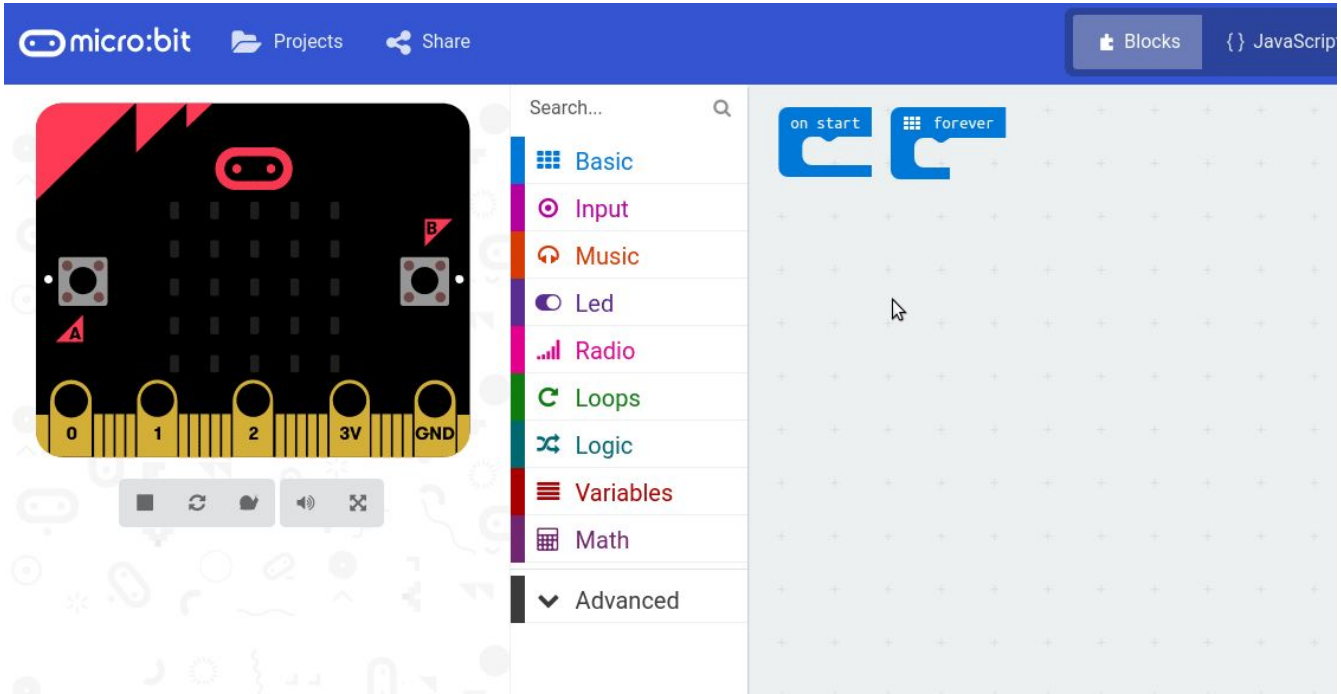
on start | forever

Getting Started

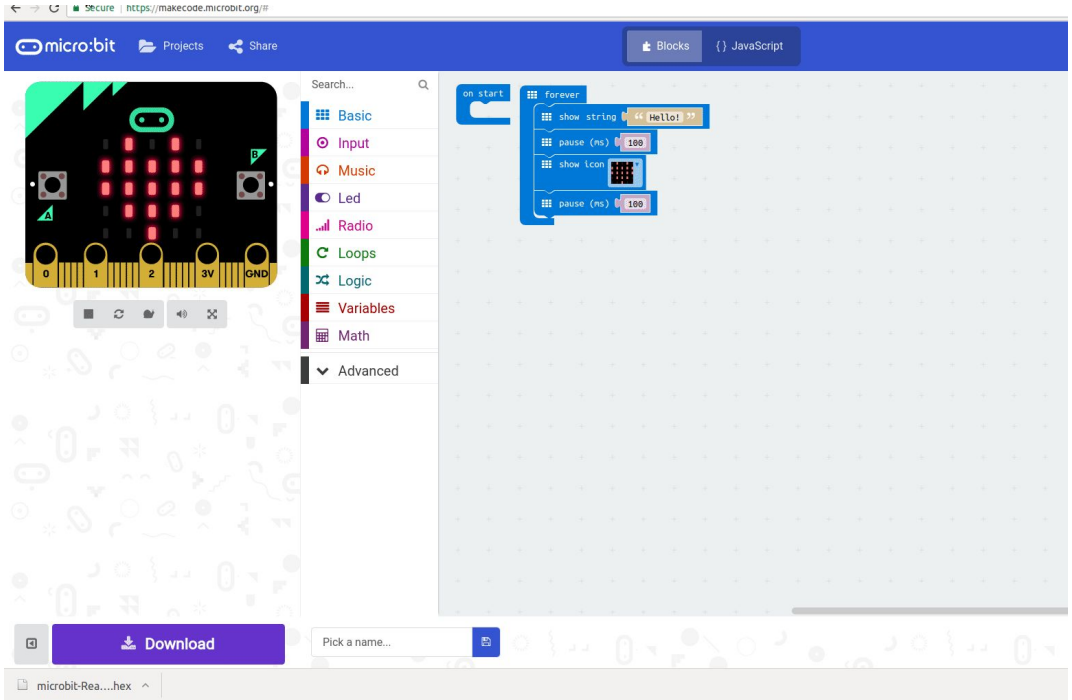
Download

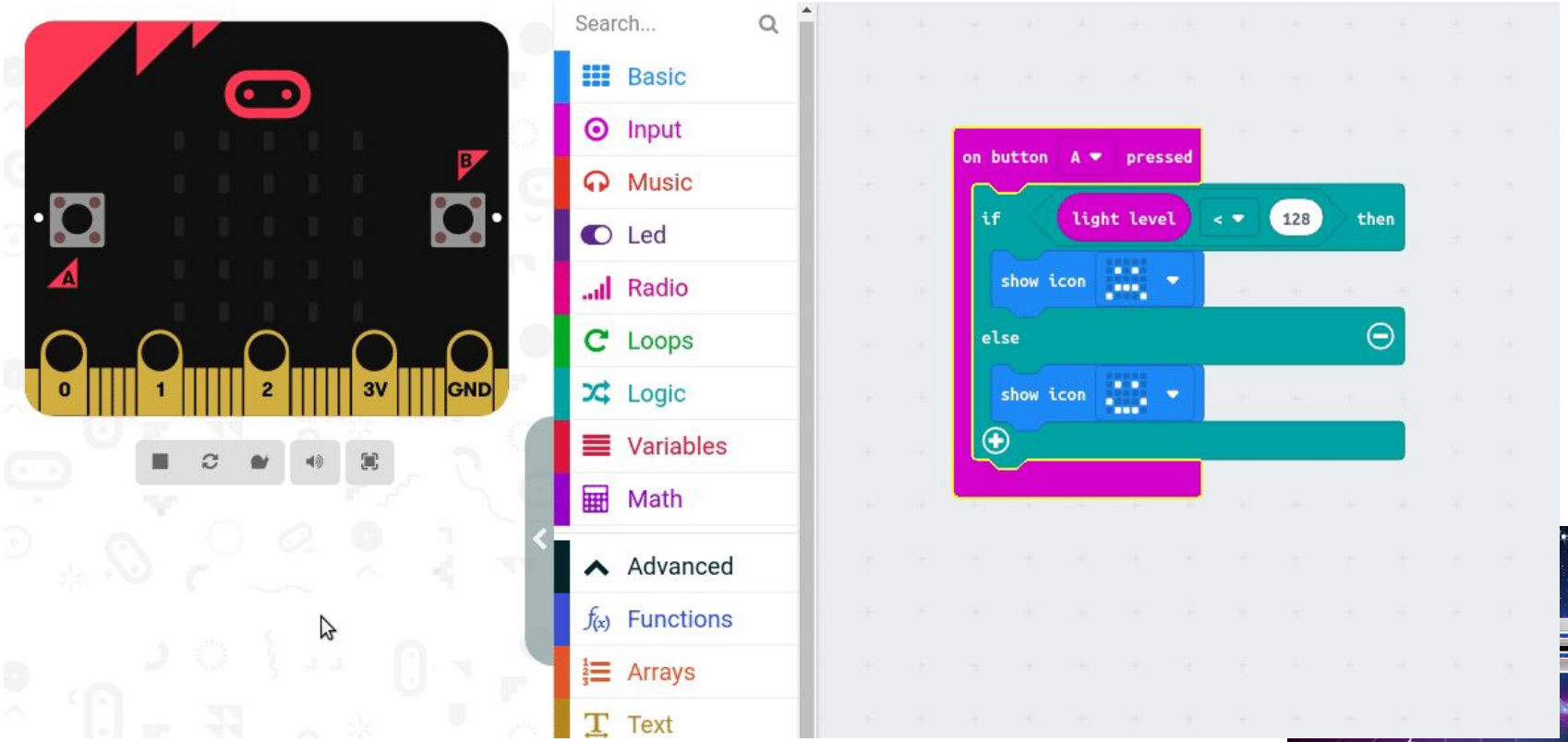
Untitled

Building Code

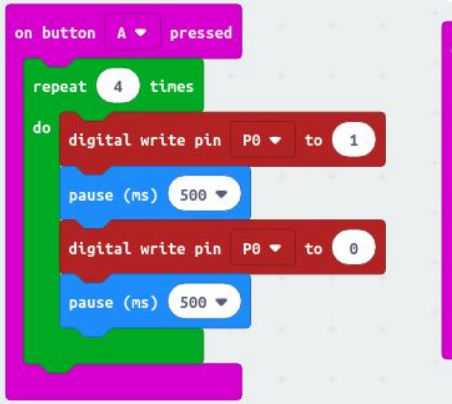


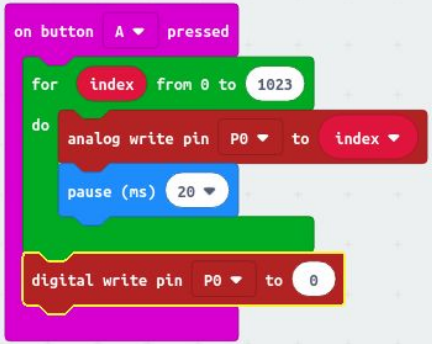
Getting Code On The micro:bit

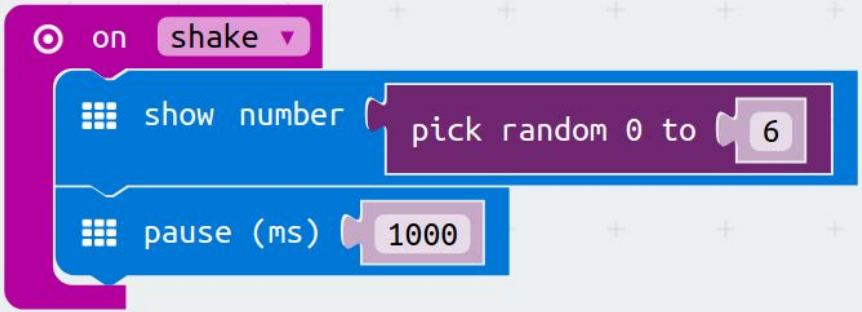



B
A
0
1
2
3V
GND
Search...
Basic
Input
Music
Led
Radio
Loops
Logic
Variables
Math
Advanced
Functions
Arrays
Text
on button A pressed
if light level < 128 then
show icon
else
show icon

And these...


on button A pressed
repeat 4 times
do
digital write pin P0 to 1
pause (ms) 500
digital write pin P0 to 0
pause (ms) 500


on button A pressed
for index from 0 to 1023
do
analog write pin P0 to index
pause (ms) 20
digital write pin P0 to 0


on shake
show number
pick random 0 to 6
pause (ms) 1000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Challenge Time!

Can you turn a box of #Pounderland ~~tat~~ goodies into something cool using the micro:bit?

- We have copper slug tape
- Foam / paper shapes
- Pipe cleaners
- Halloween LEDs
- Solar Lightbulb
- Rave LED sticks
- Get into teams and have fun!

So why did we do this?

Making should be fun!

Learning via making is where we FAIL and learn from failure.

Computer Science is not just hello world!

Computer Science is also physical computing.