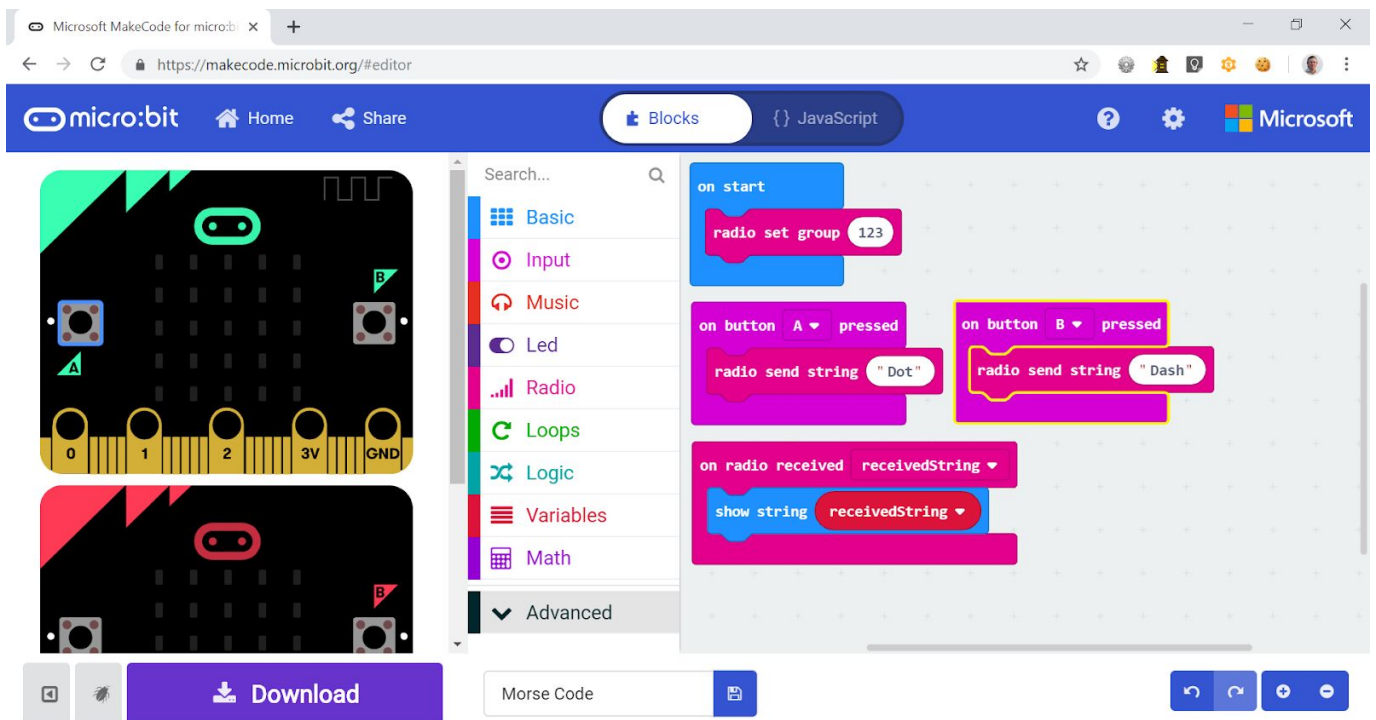


# Birmingham Raspberry Jam Birthday Bash - 2nd March 2019

## Radio and Morse Code with the micro:bit Workshop

For those wishing to try sending morse code between micro:bits themselves then this document contains all that is needed.

The following is the block script used and must be downloaded to both micro:bits. If you are using more than one pair of micro:bits then it is the “radio set group” number that will need to be changed, setting it to the same number for each pair. Pressing “A” will send “Dot” to the other micro:bit while pressing “B” will send “Dash”.



To convert your simple message to morse code use the following table. When sending your message leave a small pause between letters so the receiving end knows when each letter has been sent.

A	● ■
B	■ ● ● ●
C	■ ● ■ ●
D	■ ● ●
E	●
F	● ● ■ ●
G	■ ■ ●
H	● ● ● ●
I	● ●
J	● ■ ■ ■
K	■ ● ■
L	● ■ ● ●
M	■ ■
N	■ ●
O	■ ■ ■
P	● ■ ■ ●
Q	■ ■ ● ■
R	● ■ ●
S	● ● ●
T	■

U	● ● ■
V	● ● ● ■
W	● ■ ■
X	■ ● ● ■
Y	■ ● ■ ■
Z	■ ■ ● ●

1	● ■ ■ ■
2	● ● ■ ■
3	● ● ● ■
4	● ● ● ● ■
5	● ● ● ● ●
6	■ ● ● ● ●
7	■ ■ ● ● ●
8	■ ■ ■ ● ●
9	■ ■ ■ ■ ●
0	■ ■ ■ ■ ■

To convert your received message back to letters use the following morse code decision tree. Start from the top always following the left leg when receiving a dot and the right when receiving a dash.

