• BBC micro:bit Coding

Python Coding with the Mu app

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What is Mu?

Using Mu

Mu is a <u>free</u> BBC micro:bit Python code editor designed for Windows, Mac and Linux PCs or the Raspberry Pi.

Get the Mu App

Visit the **Mu** website ... **codewith.mu** ... then follow the download and install instructions for your PC or Raspberry Pi.

Here are the most important Mu icons:



New, Load and Save manage your Python code files. Flash creates a '.hex' file and uploads it to the micro:bit. Repl opens a command console and error debugging panel.

Coding With Mu

To begin coding follow these steps:

- 1) Connect the micro: bit to the PC with a USB cable
- 2) Start the Mu app and open a New code file
- 3) Type in your code (turn over for some code examples)
- 4) Open the Repl window panel (in case of any errors)
- 5) Click the Flash icon to upload and run your program



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4 Python Programs To Try

Countdown Timer

```
from microbit import *
```

```
display.show('3')
sleep(1000)
display.show('2')
sleep(1000)
display.show('1')
sleep(1000)
display.show('0')
```

Images and Animations

from microbit import *

```
# images
```

🔒 CoderDojo<mark>Sush</mark>

display.show(Image.HEART)
sleep(2000)
display.show(Image.PACMAN)
sleep(2000)
display.show(Image.SNAKE)
sleep(2000)
animations
display.show(Image.ALL_CLOCKS)
sleep(2000)
display.show(Image.ALL_ARROWS)

Capture Button Presses

from microbit import *

while True:

if button_a.is_pressed():
 display.show(Image.HAPPY)
if button_b.is_pressed():
 display.show(Image.SAD)

Visit **goo.gl/EbrszB** for more image names and lots of code examples.



I can run your code!

Design Your Own Images

from microbit import *

define a 5x5 digit string where
9=max-brightness and 0=min-brightness
img = Image('99999:07770:00500:03330:11111')
display.show(img)



More Python Tutorials at davidbriddock.blogspot.co.uk