

Microbit con Python

Práctica 1. Hola Mundo

```
from microbit import *  
display.scroll('Hola Mundo')
```

Práctica 2. Iconos en display

```
from microbit import *  
display.show(Image.HAPPY)
```

Práctica 3. Imágenes DIY

```
from microbit import *
```

```
boat = Image("05050:"  
             "05050:"  
             "05050:"  
             "99999:"  
             "09990")
```

```
display.show(boat)
```

Práctica 4. Animaciones

```
from microbit import *
```

```
boat1 = Image("05050:"  
              "05050:"  
              "05050:"  
              "99999:"  
              "09990")
```

```
boat2 = Image("00000:"  
              "05050:"  
              "05050:"  
              "05050:"  
              "99999")
```

```
boat3 = Image("00000:"  
              "00000:"  
              "05050:"  
              "05050:"  
              "05050")
```

```
boat4 = Image("00000:"  
              "00000:"  
              "00000:"  
              "05050:"  
              "05050")
```

```
boat5 = Image("00000:"  
              "00000:"  
              "00000:")
```

```
"00000:"  
"05050")
```

```
boat6 = Image("00000:"  
"00000:"  
"00000:"  
"00000:"  
"00000")
```

```
all_boats = [boat1, boat2, boat3, boat4, boat5, boat6]  
display.show(all_boats, delay=200)
```

Práctica 5. Animación para siempre.

```
from microbit import *
```

```
while True:
```

```
    boat1 = Image("05050:"  
"05050:"  
"05050:"  
"99999:"  
"09990")
```

```
    boat2 = Image("00000:"  
"05050:"  
"05050:"  
"05050:"  
"99999")
```

```
    boat3 = Image("00000:"  
"00000:"  
"05050:"  
"05050:"  
"05050")
```

```
    boat4 = Image("00000:"  
"00000:"  
"00000:"  
"05050:"  
"05050")
```

```
    boat5 = Image("00000:"  
"00000:"  
"00000:"  
"00000:"  
"05050")
```

```
    boat6 = Image("00000:"  
"00000:"  
"00000:"  
"00000:"  
"00000")
```

```
    all_boats = [boat1, boat2, boat3, boat4, boat5, boat6]  
    display.show(all_boats, delay=500)
```

Práctica 5. Botones 1.

```
from microbit import *
```

```
sleep(10000)  
display.scroll(str(button_a.get_presses()))
```

Práctica 6. While

```
from microbit import *  
  
while running_time() < 10000:  
    display.show(Image.ASLEEP)  
  
display.show(Image.SURPRISED)
```

Práctica 7. Bucle infinito e if

```
from microbit import *  
  
while True:  
    if button_a.is_pressed():  
        display.show(Image.HAPPY)  
    elif button_b.is_pressed():  
        break  
    else:  
        display.show(Image.SAD)  
display.clear()
```