# Intro to Coding - Micro:bit

## First and Always

```
from microbit import *
```

## Text

```
display.show('H')
```

## Scrolling Text

```
display.scroll('hello')
```

## Pictures

```
display.show(Image.HAPPY)
sleep(1000)
display.show(Image.SAD)
```

## Interactive Text

```
while True:
    if button_a.is_pressed() and button_b.is_pressed():
        display.scroll('AB')
    elif button_a.is_pressed():
        display.scroll('A')
    elif button_b.is_pressed():
        display.scroll('B')

    sleep(100)
```

## Interactive Cyber Pet

```
while True:

    if accelerometer.was_gesture("shake"):
        display.show(Image.HAPPY)
        sleep(5000)
    else:
        display.show(Image.ASLEEP)
```

## Magic 8-Ball

```
import random

answers = [
    "It is certain",
    "It is decidedly so",
    "Without a doubt",
    "Yes, definitely",
    "You may rely on it",
    "As I see it, yes",
    "Most likely",
    "Outlook good",
    "Yes",
    "Signs point to yes",
    "Reply hazy try again",
    "Ask again later",
    "Better not tell you now",
    "Cannot predict now",
    "Concentrate and ask again",
    "Don't count on it"
    "My reply is no",
    "My sources say no",
    "Outlook not so good",
    "Very doubtful",
]

while True:
    display.show("8")
    if accelerometer.was_gesture("shake"):
        display.clear()
        sleep(1000)
        display.scroll(random.choice(answers))
```