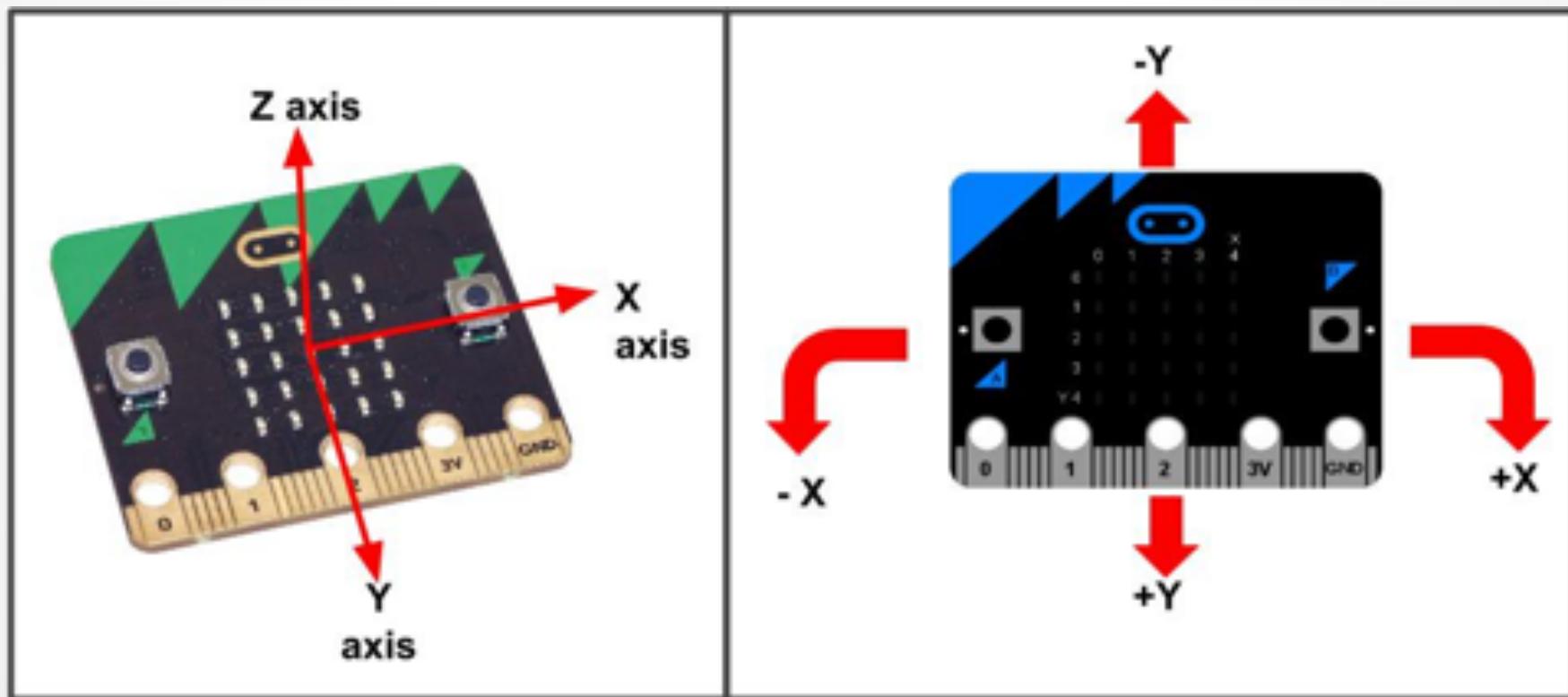


PRIM – Micro:bit

4-1 Accelerometr

Co je akcelerometr

- Co je to akcelerometr
- Jaké možnosti má akcelerometr
- Pozice os



Náklon podle osy x

```
from microbit import *
mez = 400
while True:
    naklon = accelerometer.get_x()
    if naklon > mez:
        display.show("P")
    elif naklon < -mez:
        display.show("L")
    else:
        display.show("-")
```

Theremin



Theremin

```
from microbit import *          ton = "C5"
import music                     if (y < -500):
while True:                      nota = ton
    x = accelerometer.get_x()      elif (y < 0):
    y = accelerometer.get_y()      nota = ton + ":2"
    if (x < -1000):                elif (y < 500):
        ton = "C4"                  nota = ton + ":4"
    elif (x < -700):                else:
        ton = "D4"                  nota = ton + ":8"
    elif (x < -400):                music.play(nota)
        ton = "E4"
    elif (x < -100):                ton = "F4"
        ton = "F4"
    elif (x < 200):                 ton = "G4"
        ton = "G4"
    elif (x < 500):                 ton = "A4"
        ton = "A4"
    elif (x < 800):                 ton = "B4"
        ton = "B4"
    else:                           ton = "C5"
                                    if (y < -500):
                                    nota = ton
                                    elif (y < 0):
                                    nota = ton + ":2"
                                    elif (y < 500):
                                    nota = ton + ":4"
                                    else:
                                    nota = ton + ":8"
                                    music.play(nota)
```