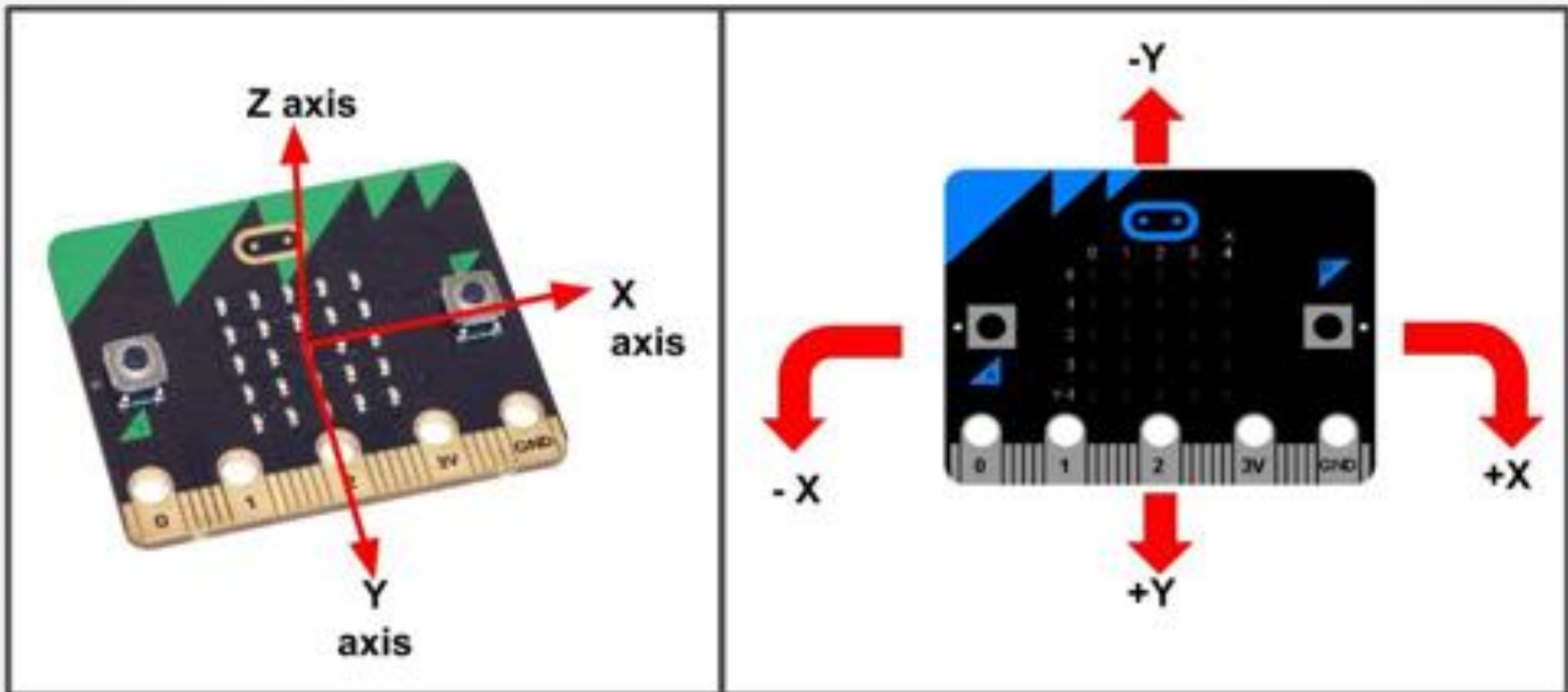# PRIM – Micro:bit

4-1 Akcelerometr

Co je akcelerometr

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

Náklon podle osy x

```python
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

```python
from microbit import *
import music
while True:
    x = accelerometer.get_x()
    y = accelerometer.get_y()
    if (x < -1000):
        ton = "C4"
    elif (x < -700):
        ton = "D4"
    elif (x < - 400):
        ton = "E4"
    elif (x < -100):
        ton = "F4"
    elif (x < 200):
        ton = "G4"
    elif (x < 500):
        ton = "A4"
    elif (x < 800):
        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)
```