

Other Sensors Exploration

Accelerometer

```
on start
  set station name to "A"
  set output to "AB"
  show string station name
  set volume 255
```

```
on button A pressed
  set output to "X"
```

```
on button B pressed
  set output to "Y"
```

```
on button A+B pressed
  set output to "AB"
  show string station name
```

```
forever
  if output = "X" then
    plot bar graph of acceleration (mg) x
    up to 1023
  else if output = "Y" then
    plot bar graph of acceleration (mg) y
    up to 1023
```

```
on free fall
  show icon [grid icon]
  play sad until done
```

MakeCode

Rotary Sensor

```
on start
  set station name to "R"
  set output to "station"
  set max-degrees to 330
  show string station name
```

```
on button A pressed
  set output to "A"
  clear screen
```

```
on button B pressed
  set output to "B"
  clear screen
```

```
on button A+B pressed
  set output to "station"
  show string station name
```

MakeCode

```
forever
  set input-current to analog read pin P0
  serial write value "data from micro:bit" = input-current
  if output = "A" then
    plot bar graph of input-current
    up to 1023
  if output = "B" then
    show number round max-degrees x input-current / 1023
```

Slide Sensor

```
on start
  set station name to "S"
  set output to "station"
  show string station name
```

```
on button A pressed
  set output to "A"
  clear screen
  set volume 0
```

```
on button B pressed
  set output to "B"
  clear screen
  set volume 0
```

```
on button A+B pressed
  set output to "station"
  show string station name
  set volume 0
```

MakeCode

```
forever
  set input-current to analog read pin P4
  serial write value "data from micro:bit" = input-current
  if output = "A" then
    plot bar graph of input-current
    up to 830
    serial write ON
  if output = "B" then
    ring tone (Hz) Middle C
    set volume 100 x input-current / 830
  clear screen
```