

Finch Snap! Card 10

# XYZ Acceleration!



1. Go to the **Sensing** area of your Snap Controls Panel.

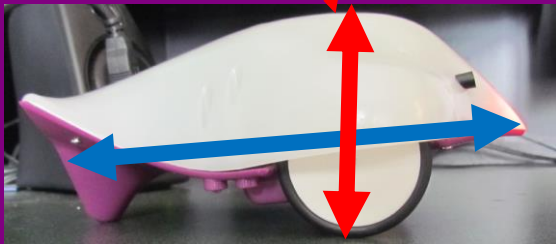
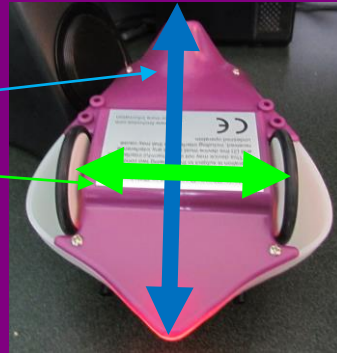
Sensing

2. Select **Finch X Acceleration**, **Finch Y Acceleration**, **Finch Z Acceleration** bricks from the options below.

Finch X Acceleration

Finch Y Acceleration

Finch Z Acceleration



<http://www.finchrobot.com/software/snap>

## Finch XYZ Acceleration Sensors - Sense the g-forces measured along the

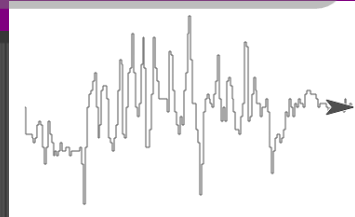
- **Finch's X (beak to tail)**
- **Y (wheel to wheel)**
- **Z (top to bottom) axes**

Range is -1.5 to 1.5 g-forces

3. **Extension Task:** In the program below, we are going to incorporate the **Pen** Controls to have the App Window Sprite as the Finch is being physically moved along the x-axis.

```

when space key pressed
  pen down
  go to x: -200 y: 0
  clear
  repeat until key x pressed?
    change x by 1
    set y to 100 * Finch X Acceleration
    if touching edge ?
      pen down
      go to x: -200 y: 0
      clear
  
```



Make A Card



1. Fold the card in half.



2. Put glue on the back.



3. Cut along the dashed line.

