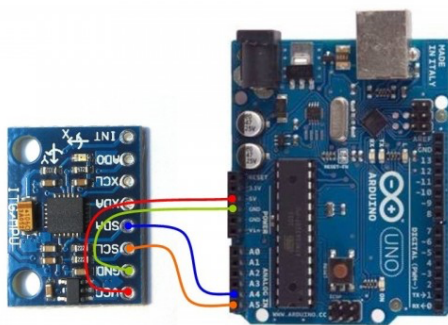
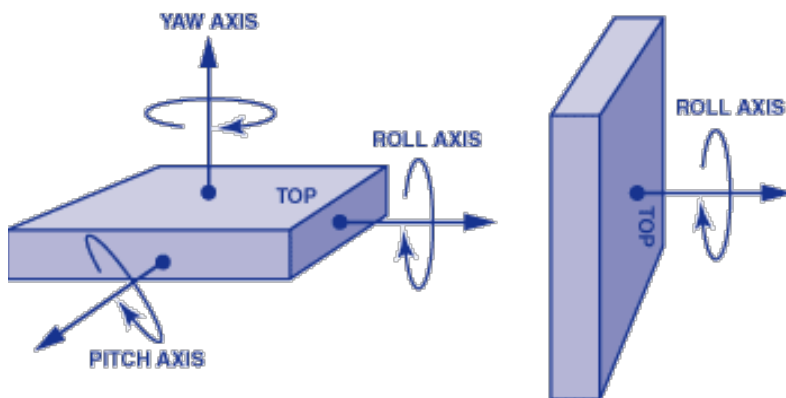


The gyroscope determines the rotation of the x-, y-, and z-axes. The variability of the outputs creates some difficulty in reading, but an if else conditional statement will enable to user to receive a close to perfect reading nonetheless.

Here are some images:



laser shop



```
if (y < -100) {  
  Horizontal = true;  
}  
else {  
  Horizontal = false;  
}  
if (Horizontal == true) {  
  Serial.println("Horizontal");  
}  
if (y > 100) {  
  Vertical = true;  
}  
else {  
  Vertical = false;  
}  
if (Vertical == true) {  
  Serial.println("Vertical");  
}  
if (x > 75 && y < -75) {  
  Swingforward = true;  
}  
else {  
  Swingforward = false;  
}  
if (Swingforward == true) {  
  Serial.println("Swinging forward");  
}  
}  
}
```

```
Raw X:2 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:2 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:0  
Raw X:0 Raw Y:2 Raw Z:0  
Raw X:0 Raw Y:0 Raw Z:-1  
Raw X:0 Raw Y:0 Raw Z:0
```