# Software Instructions

There are two pieces of software provided. They check basic usability of servos and sensor.

The first one is an Arduino sketch, “Tenticle_dance” . It rotates a random servo to a random position and uses the Serial monitor to report the reading from the servo's potentiometer after moving to that position. Make sure the serial monitor is set to the same refresh rate as the sketch (115200).

The second is an Arduino sketch and Processing sketch combo. They are part of Jeff Rowberg's i2c library for the GY-521. The firs thing you need to do, is import the libraries in Arduino first.

Open a new sketch, and go to: Sketch / Import Library / Add Library. Navigate to the directory containing the Software forder, and import the MPU6050 folder. This will automatically import the libraries for you, if you are using the latest Arduino software.

Restart the Arduino interface, and go to: File / Examples / MPU6050 / Examples / MPU6050_DMP6. Go through the define statements from line 83 to line 117. Make sure that all them are commented apart from the #define OUTPUT_TEAPOT on line 117. Upload the sketch to the Arduino board.

Open the processing sketch located in :

\\Software\MPU6050\Examples\MPU6050_DMP6\Processing\MPUTeapot.

Comment line 71. Uncomment line 74, and change it according to the COM port your board is connected to. Lastly, before running the processing sketch, you need to import the toxiclibs library. The way is exactly the same as the Arduino library before. Once imported, restart Processing. Now, you can run the Processing sketch.