Installation Guide:

Download python2 and add it to your path

Install the [LeapSDK](https://developer.leapmotion.com/orion/)

Remember where you save everything

Plug the leap motion into your computer

Search for the Leap Motion Visualizer on your computer and run it

You should see the leap motion tracking your hands

Inside the LeapSDK folder you should see a directory called “samples”

Open the Sample.py file

Open command prompt and navigate to that same folder

Run Sample.py using python2 from terminal

You should see it outputting all its tracking data continuously. Try moving your hand over the sensor to check that everything works.

Download the starter file provided and save it where you usually do

At the top of the starter file where the imports are it says sys.path.insert(0, “...”)

Replace the “…” with the path to the LeapSDK folder followed by “/lib/x86”

Use command prompt to navigate to this file and run with python2. It should do the same as the original Sample.py

Leap API Guide:

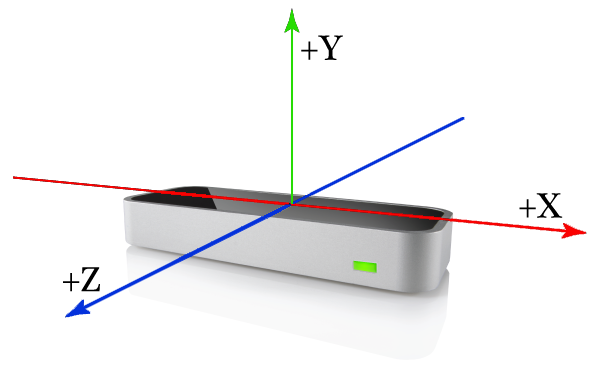
Initializing a controller and retrieving data:

The starter code shows how to retrieve and update the data from the leap motion. Inside init(data) there is a controller and a frame. The frame stores all the data from the Leap controller. On each timerFired() we update the frame with the latest data from the Leap Motion using controller.frame(). In this sample, we then print that data to the console.

Reading the data:

Each frame contains joint data organized within a variety of lists. They also have an ID and a timestamp. Each arm, hand, finger, bone, or pointable in the frame has both a position vector with an x, y, and z component, and a direction vector with yaw, pitch, and roll components.

The image below describes the Leap Motion’s internal coordinate system.



For more on these features, read the [online API](https://developer.leapmotion.com/documentation/python/api/Leap_Classes.html).