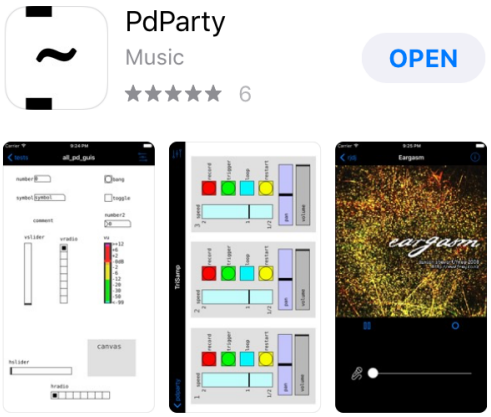
User multi data tracker for PD Party

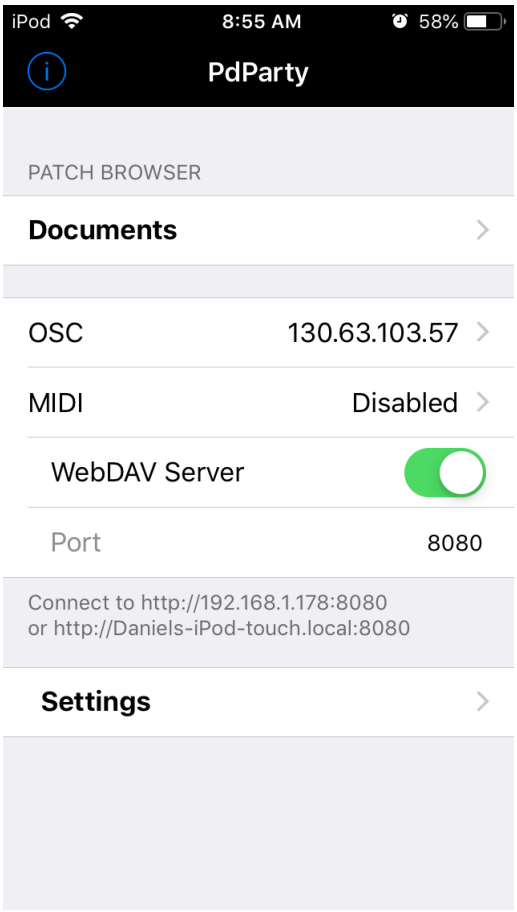
“PdParty is an iOS app that allows you to run Pure Data patches on Apple mobile devices using libpd.”

PD Party User Guide — http://www.danomatika.com/code/pdparty/guide

PD Party can be found on the Apple App Store. Its free to download.



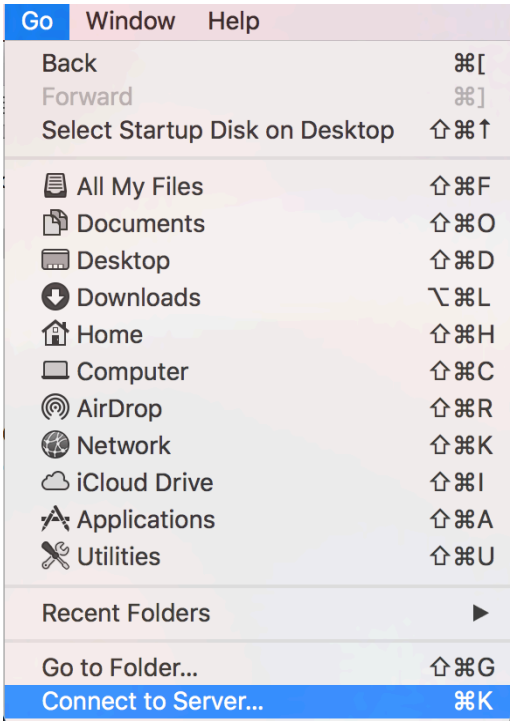
Once downloaded you have to connect to the app through a server and upload the data tracking patch.



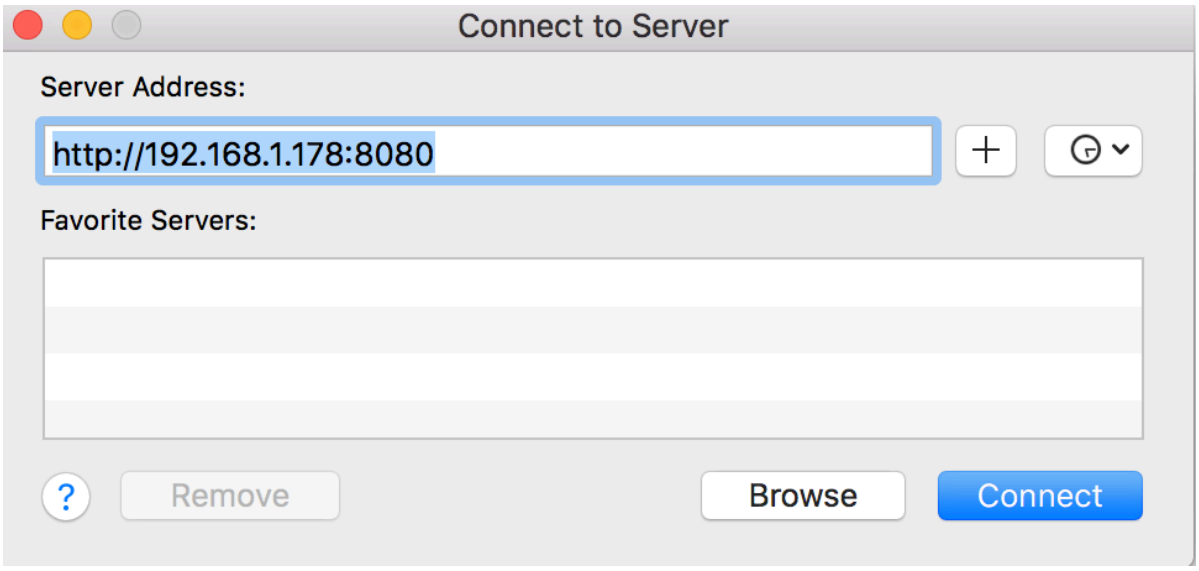
Turn on WebDAV Server

This is the information you need to connect to the local server

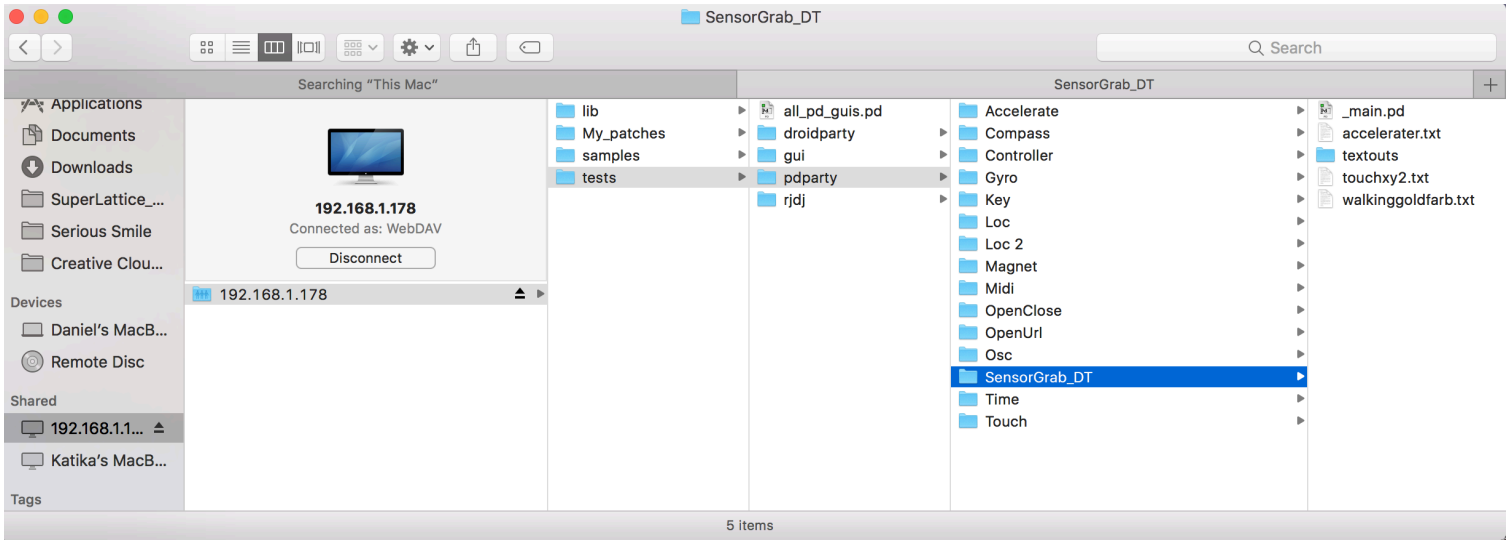
On your computer use finder to connect to server. You can do this with the key common — command, k (on Mac). Or in your Finder menu settings you can go to the menu labelled Go and Connect to Server.



The Connect to Sever dialogue will open. Copy the information given at the bottom of the app “This is the information you need to connect to the local server”. The address will be different for each device.

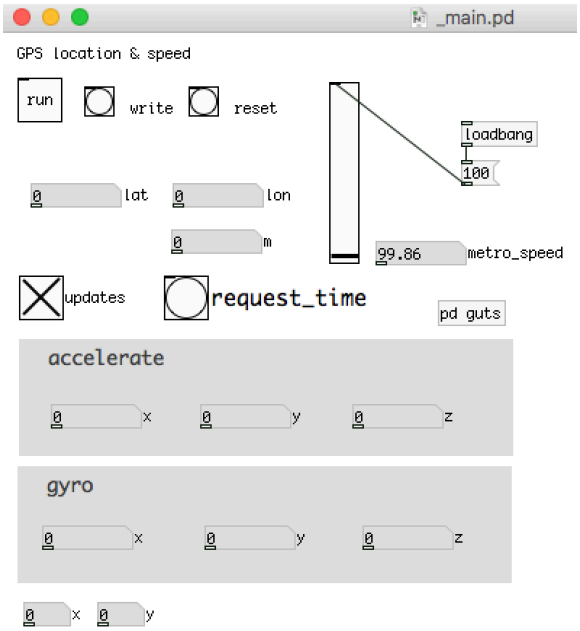


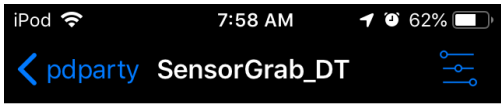
Copy the folder titled “SensorGrab_DT” into the pdparty folder, housed in the tests folder.

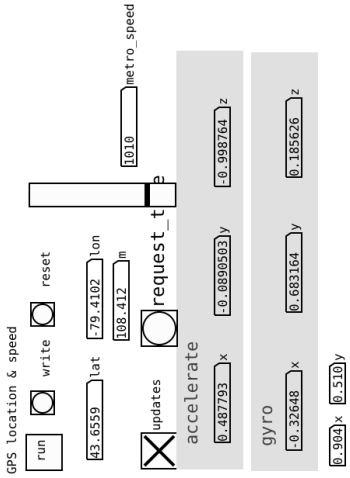


The view is different on the computer (left) vs the app (right) were the orientation is rotated. The run button runs the sensors. Pressing the write button begins recording the data stream. Pressing it a second time stops the recording process and saves a file title “mytext.txt” (saved to the “SensorGrab_DT” folder. The reset button sets the counter that increments the recording to 0 - do this if you wish to scrap previously recorded data and start from scratch.

If you wish to pause the data recording after hitting write you may toggle off the run button meaning that no information will be recorded during this time. when run is turned back on the recording will start from where it left off.







The output text can be accessed through the server and copied to the users computer. The format is count index of record, accelerometer data, gyroscope data, touch data (app has to be directly on screen and open for this to record), location(GPS) data (app has to be open and on screen to collect as background tracking is not approved by Apple. GPS and Gyroscope records constantly.

Example of format:

count 541;
acc 0.167572 -0.881439 0.195328;
gyro 0.0352432 1.26712 0.291021;
touchxy 0 0;
loc 43.7721 -79.5023 -1 194.917;

The frequency of data collection can be altered using the slider titled Metro Speed. This determines how often data is accessed and written. This time period is in milliseconds so if the slider value is set to 2000 then data is being recorded every 2000ms or 2 seconds.

*note. The default record frequency is 1000ms the slider output is natively set to 100ms but the value from the slider is not used until the user changes this. The minimum value is 2ms and the maximum is 5000. IF the user does change the initial slider value the default record rate is 1000ms.