

Installation instructions for the server:

1. Download and extract the files in the zip package
2. Install Java JRE (ver. 1.8 is recommended), <https://java.com/download>

Additional optional requirements:

3. Install Anaconda with Python v3.x (optional, required for running Python scripts), <https://www.anaconda.com/download>
4. Install FFmpeg from Anaconda, (optional, required for creating composite videos), use command: `conda install -c conda-forge ffmpeg`
5. Install Processing, (optional, required for running Processing visualizations), <https://www.processing.org/download/>

After installation of the server:

6. Start the server by clicking on the `exec_Server/FSenSyncServer.jar`, or from command-line use:
`java -jar FSenSyncServer.jar`
7. Select a directory where the experiment folders will be placed
8. Create a new experiment
9. Go to the Scripts tab, and set the Anaconda bin folder (e.g. `/home/myusername/anaconda3/bin` or `C:\ProgramData\anaconda3\bin`)
10. If the font size of the server is not optimal, edit the value on the second line of `settings.txt` (next to `FSenSyncServer.jar`), and restart the server

Installation of the apps:

1. Connect your computer to the desired WLAN
2. Open the FSenSync server, and open an experiment
3. Copy the file `FSenSyncInstaller-1.03-release.apk` from the folder `exec_Server/apks` to the Android device using for example USB or Bluetooth
4. Make sure that the device is in the same WLAN as the server
5. Find and run the `FSenSyncInstaller-1.03-release.apk` on the Android device (You may need to enable installation from unknown sources from device settings.)
6. Run the FSenSync installer app to download and install all the other FSenSync apps
7. Now you can run the apps (The apps can be closed from 'Connected apps' tab of the server or by pressing back button 5 times on the Android device.)

Running FSenSync apps:

1. Connect your computer to the desired WLAN
2. Open the FSenSync server, and open an experiment
3. Open the desired app(s) on the Android device
4. The app should now show up on the server
5. Press start recording
6. Press stop recording
7. Go to 'Downloads' tab and press 'Download all files'
8. Find the produced data files from the folder synced, (mp4 files are initially in the folder downloaded and are moved to synced folder by the Python scripts)
9. Close app(s) from the 'Connected apps' tab of the server or by pressing back button 5 times on the Android device

Note that several apps require additional steps such as file uploads. Also, to get the best possible temporal sync between apps, you may need to run them on the same device model as different hardware may have different internal latencies.

Running Processing sketches:

1. Copy the contents of the folder sketchbook/libraries to your own sketchbook folder (The location of your folder is shown in the Preferences window when you run Processing.)
2. Now the sketches should work (Note that all of them require that a related FSenSync app is running in the same WLAN)