Trigger-Checklist Psychopy-Oxysoft

Physical connection

1. Start up the sender (Psychopy-PC) and the receiver (Oxysoft-PC) device.
2. Make sure Wi-Fi is disabled on both devices.
3. Connect both devices via the ethernet interfaces → wired connection

Oxysoft-PC setup

4. Start the Oxysoft software with elevated rights (run as admin)
5. Start hfu_trigger_server.bat on the Oxysoft-PC.
6. Choose „fNIRS" in the software dropdown menu.
7. Choose your ethernet adapter in the network adapter dropdown menu.
8. Click start.
9. If an error occurs → restart Windows and check the physical connection.
10. The Oxysoft-PC is ready.

Psychopy-PC setup

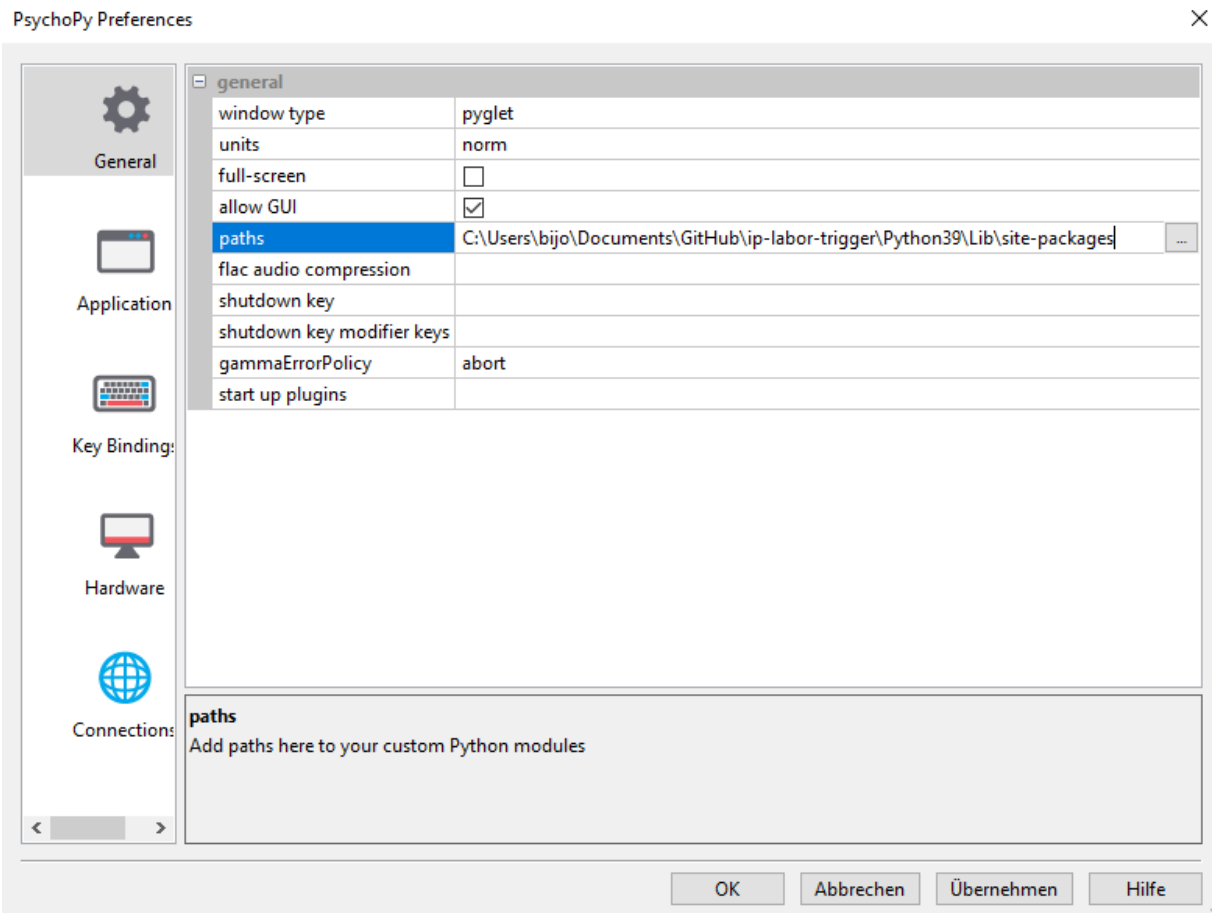
11. Make sure the Psychopy Project is prepared (Page 2).
12. Start your Psychopy project.
13. Send a test trigger to the Oxysoft-PC.
14. Check if the trigger arrived in the hfu_trigger_server program and in Oxysoft.
15. If the trigger arrived in the trigger program but not in Oxysoft:
    - Restart both programs in the correct order and with elevated rights.
16. If the trigger did not arrive in both programs:
    - Restart both PCs and retry.
17. If the trigger arrived in both programs:
    - You are ready.

After the Experiment

18. Close the hfu_trigger_server on the Oxysoft-PC via the „X" to reset all network configurations.
19. Start the hfu_trigger_client.bat on the Psychopy-PC.
20. Choose your network adapter in the dropdown menu.
21. Click "Set configuration".
22. Click „Reset configuration" to reset all network configurations.

Prepare a Psychopy-Project

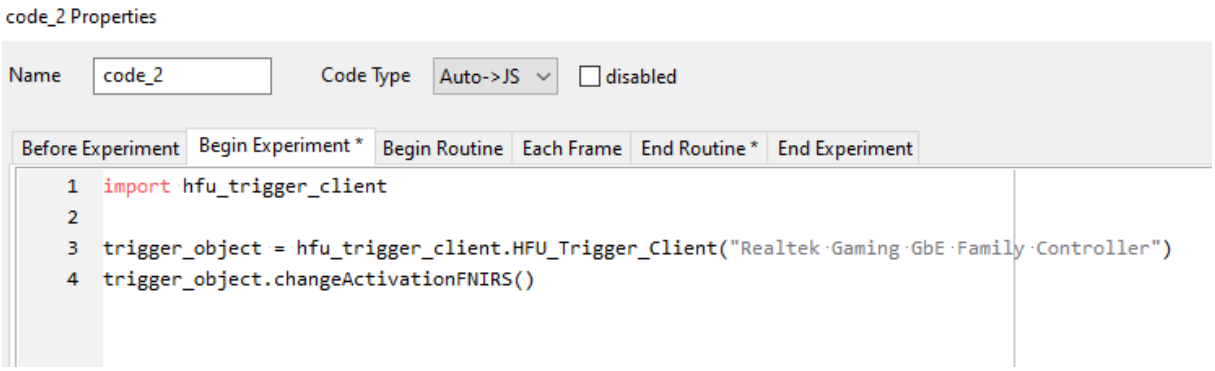
1. Copy hfu_trigger_client.py into the same folder where your Psychopy-project file is.
2. Start Psychopy and enter the preferences.
3. Add the path "…\ip-labor-trigger\Python39\Lib\site-packages" to the "paths" variable:



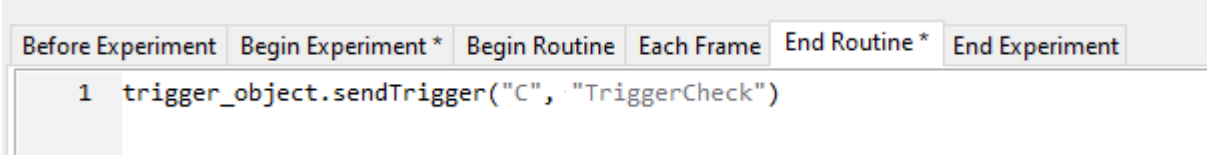
4. Use this command in a PowerShell console to identify the name of your network adapter:
   - **(Get-WmiObject Win32_NetworkAdapter -filter "PhysicalAdapter = True" -verbose).ProductName**
   - In this picture the network adapter is called "Intel(R) Ethernet Connection I218-V".

```
PS C:\Users\bijo> (Get-WmiObject Win32_NetworkAdapter -filter "PhysicalAdapter = True" -verbose).ProductName
Intel(R) Dual Band Wireless-AC 7260
Intel(R) Ethernet Connection I218-V
Generic Mobile Broadband Adapter
Cisco AnyConnect Secure Mobility Client Virtual Miniport Adapter for Windows x64
```

5. Add a code block into your first routine and enter the following code into the “Begin Experiment” tab:



6. Replace “Realtek Gaming GbE Family Controller” with the name of you network adapter.
7. Add a code block in every routine where you want to send a trigger.
8. Enter the following code in the “Begin Routine” or in the “End Routine” tab:



Implement a test trigger!!