



# How to Set up PsychoPy - Pycharm

Tags

## Creating PsychoPy Environments using Conda and Syncing them with PyCharm

### Download Anaconda

[Right click here](#) to open the Anaconda website in a new tab. When you are there, download Anaconda using the 64-Bit Graphical Installer.

After Anaconda has been installed...

### For MAC users

1. open up your terminal (Command + space bar to pop up search window and type terminal, press enter)
2. navigate to a folder you've specifically created for housing psychopy materials (e.g. `cd /Documents/Fall2020/MDSRI/PsychoPy_Tutorials` )
3. within that folder we are going to create an environmental file as above with the following steps:
4. type and enter `nano psychopy-env.yml`
5. copy and paste the following contents into the nano file you just created on your terminal:

```
name: psychopy
channels:
- conda-forge
dependencies:
- python=3.6
- psychopy
- pandas
- numpy
- pip
- pip:
  - psychtoolbox
  - pygame
  - pyo
  - pyparallel; platform_system != "Windows"
  - SoundFile; platform_system == "Windows"
  - websocket_client
```

1. type `Ctrl + x` to leave the file, you'll be prompted to save the file before exiting (press `y`) and then press `enter`
2. type and enter `cat psychopy-env.yml` to make sure the contents were saved appropriately
3. type and enter `conda env create -n psychopy -f psychopy-env.yml` <-- this will create an environment called psychopy
4. You should be able to check that this environment was successfully created in your anaconda window

## For PC Users (it's a bit harder for me to test this out so let me know if I'm missing things)

1. Not in the terminal: navigate to a folder you've specifically created for housing psychopy material (e.g. `\\Documents\\Fall2020\\MDSRI\\PsychoPy_Tutorials`)
2. Open up a text editor (recommend Sublime Text (free version) or Notepad)
3. Paste the following inside the newly created file:

```
name: psychopy
channels:
```

```
name: psychopy
channels:
- conda-forge
dependencies:
- python=3.6
- psychopy
- pandas
- numpy
- pip
- pip:
  - psychtoolbox
  - pygame
  - pyo
  - pyparallel; platform_system != "Windows"
  - SoundFile; platform_system == "Windows"
  - websocket_client
```

1. Save the file as `psychopy-env.yml` and put it into the folder you navigated into (`psychopy_tutorials`)
  - a. It's important to check that whatever text editor you're using does not also append a '.txt' to the end (e.g. `psychopy-env.yml.txt`)
  - b. To check, navigate to your directory (folder) contain the file
    - i. `cd \\Users\\[your user name]\\[your path the folder]`
    - ii. `dir`
    - iii. Find the `.yml` file and you can also `type psychopy-env.yml` to make sure the contents are correct
2. create an environment with this file --> open up you terminal and type and enter `conda env create -n psychopy -f psychopy-env.yml` <-- this will create an environment called psychopy
3. You should be able to check that this environment was successfully created in your anaconda window

## Integrating with PyCharm

1. (Depending on how far you got on this part...either create a Project (you will also need to specify where you want that project to live, e.g.

`/Documents/Fall2020/MDSRI/psychopy_tutorials` ) or go to the project you have already made

2. For Macs --> Go to PyCharm --> Preferences, For PC's Go to PyCharm --> Settings (or system Preferences)
3. Under the header "Project" on the left hand side you click on "Project Interpreter"
4. Click the drop-down option at the top, and select "Show All"
5. Click the "+" button in the bottom right corner of the pop-up box
6. On the left hand side, select the option for "Conda Environment" and then click the check box for "Existing Environment"
7. In the drop down menu for Interpreter: look for the envs that you just created called "psychopy" (e.g. `/usr/local/anaconda3/psychopy/bin/python`)
8. Click "OK" and then "Apply"
9. You should have psychopy now within your new environment. To test this out, create a new file (test.py) and type `import psychopy` If you do not see an error, you're good to go!

Please let me know if y'all run into any issues here and we can set up a meeting to walk through it.