Pupil Dilation Tracker

Installation Guide for Windows

By the Prime Apes

To run this program, you will need Anaconda:

- Download Anaconda Python Version 3.7: https://www.anaconda.com/download/

You can get the Pupil Dilation Tracker program files from this repository:

- https://github.com/Parisman1/PrimeApes2020

When you download the programs files, put them in a desired folder.

- The download will be in a .zip folder.
- You can place the .zip folder in your desired folder.
- Then right click on the .zip folder to extract the contents.

This section will show how to use the provided installation & launch programs

Before starting, it is important to note that if your Username in your computer contains a space in it the launch program will not work. Thus, you will need to manually launch the program which is described in the next page of this guide.

Example of username with a space in it: "*C:\Users\MyUser name\Desktop\Folder\Program*"

- After downloading Anaconda and the Pupil Dilation Tracker, you can now use the provided installation & launch programs that came with the .zip folder you have downloaded.

Using the installation program

- Simply open the folder that contains the extracted contents from the .zip folder
- You should see a file named *"Setup.bat"*
- Simply double click on the file, this will start the installation process
    - Packages needed for the program will be installed into Anaconda
- Once completed you may now use the launch program to start the program

Using the launch program

- The launch program will be in the same location as the installation program
- You should see a file named "anacondaTest.bat"
- Simply double click on the file, this will start the program
    - You will see a command prompt window open, then the program window
    - IT IS IMPORTANT YOU KEEP THE COMMAND PROMPT WINDOW OPEN
- If successful you will now be able to use this program to launch the Pupil Dilation Tracker anytime

Attention

The next page will show how to manually install the programs needed packages.

You will also learn how to launch the program manually.

- Page 1
    - Showing what needs to be downloaded for the program
    - Showing how to use the Installation & Launch programs for the Pupil Dilation Tracker
- Page 3
    - Showing how to manually install the packages needed for the Pupil Dilation Tracker
    - Showing how to manually launch the program

The following section will be how to install the program manually without using the provided installation program.

Copy the file path of the desired folder

- You can do this by clicking on the bar at the top of the file explorer window.
- This will highlight the file path.
- It will look something like this for example: *"C:\Users\MyUsername\Desktop\Folder\Program files"*

Anaconda will have preinstalled packages along with it. The following is a list of packages that are needed in order to run the program. The list contains packages that are not preinstalled with Anaconda and those that are preinstalled with Anaconda. You will only need to manually install the ones that did not come with Anaconda*.

NOTE: You will only need to install these packages ONCE, after that you will no longer need to do these commands again.

Install packages - Open the Anaconda Prompt and install the necessary packages by typing these commands in the prompt

- **Packages not preinstalled with Anaconda**
  - **Opencv:** ***"pip install opencv-python"***
  - **Filterpy:** ***"conda install -c conda-forge filterpy"***
  - **Pyqtgraph:** ***"conda install pyqtgraph"***
  - **memory_profiler:** ***"pip install -U memory_profiler"***
- Packages preinstalled with Anaconda
  - Numpy: *"conda install numpy"*
  - Pillow: *"conda install pillow"*
  - Pandas: *"conda install pandas"*
  - Imageio: *"conda install -c conda-forge imageio"*
  - Pyqt: *"conda install pyqt"*

***In the case that one of the "preinstalled" packages are not actually "preinstalled", we have provided the commands needed to manually install the respective packages.**

After installing the packages

a) In the prompt type: cd *Filepath*
b) You can paste the file path you saved earlier using CTRL+V.
c) Press Enter.
d) This will take you to the folder you picked for the program to be in.
e) To confirm that you are in the correct folder type the command *"dir",* this will list out the files in the current folder.
f) You can check to see if the current folder contains the programs files.
g) If not, make sure you put in the correct file path and try step **a)** again

You should be in the folder, from here you can run the program using the following command

- *python ui_MAIN.py*