PSYCHOBOX TUTORIAL

This tutorial will guide you through installing PsychoBox, a tool for calculating psychoacoustic metrics, on your computer. Don't worry, we'll go step by step, and you don't need any prior programming knowledge.

Step 1: Install Python 3.9

1. **Go to the Python website**: Open your browser and go to https://www.python.org/downloads/release/python-390/.

2. **Download Python 3.9**: Choose the installer suitable for your operating system (Windows, macOS, or Linux).

3. **Install Python**:

    o **Windows**: After downloading, click the installer file. In the installer, check "Add Python to PATH" and click "Install Now."

    o **macOS**: After downloading, click the .pkg file and follow the on-screen instructions.

    o **Linux**: On most Linux distributions, you can install Python 3.9 via the terminal using the command:

    ```
    sudo apt-get install python3.9
    ```

Step 2: Verify Python Installation

1. Open Command Prompt (Windows) or Terminal (macOS/Linux).

2. Type the following command and press Enter:

    ```
    python --version
    ```

The terminal should display something like Python 3.9.x. If so, Python is correctly installed!

Step 3: Install pip

Pip is a package manager for Python. It comes pre-installed with Python 3.9, but let's make sure it's working.

1. In the terminal, type:

    ```
    python -m ensurepip --upgrade
    ```

2. To verify if pip is correctly installed, type:

    ```
    pip --version
    ```

If a pip version appears (something like pip 21.x), you're good to go!

Step 4: Install Git

Git is required to clone the PsychoBox repository.

1. **Download and install Git**:

   o **Windows**: Download Git from https://gitforwindows.org/ and follow the on-screen instructions to install.

   o **macOS**: Git is usually pre-installed. If not, you can install it via Terminal with:

   brew install git

   o **Linux**: Use the command in the terminal:

   sudo apt-get install git

2. **Verify the installation**: Open the terminal and type:

   git --version

If a Git version appears, like git version 2.x.x, Git was successfully installed!

Step 5: Install VSCode

Next, let's install Visual Studio Code (VSCode), a code editor that makes running commands easier.

1. **Go to the VSCode website**: https://code.visualstudio.com/.

2. Download and install VSCode according to your operating system.

3. After installation, open VSCode.

Step 6: Open the VSCode Terminal

1. In VSCode, press Ctrl + ' (Control + single quote) to open the integrated terminal.

2. Now, you can enter Git and Python commands directly in the VSCode terminal.

Step 7: Clone the PsychoBox Repository

With Git installed, you can download (clone) the PsychoBox code from GitHub.

1. In the VSCode terminal, navigate to the folder where you want to save PsychoBox and type:

   git clone https://github.com/henriquealende/PsychoBox.git

2. This will create a folder called PsychoBox in the location you chose.

Step 8: Install Dependencies

Inside the PsychoBox repository, there's a file called requirements.txt, which lists all the packages you need to install.

1. In the VSCode terminal, navigate to the PsychoBox folder:

cd PsychoBox

2. Now, install all the required packages with the following command:

pip install -r requirements.txt

This command may take a few minutes, as it will download and install all necessary packages.

Step 9: Run PsychoBox

After installing all packages, you can run PsychoBox.

1. In the VSCode terminal, still inside the PsychoBox folder, type:

python main.py