Installation guide for "Digital Measurement of Mental Health" Workshop

Wednesday, 10th Sept, 10:30-17:30 CEST.

General Set-up

Windows:

1. **Anaconda** installation
    a. Go to this web site and choose the installer for Miniconda: https://www.anaconda.com/download/success
    b. After installation, open the Anaconda command prompt and use it to complete the openwillis and jupyterlab installation. Python is included in Anaconda, so no extra download needed.
2. To install **OpenWillis (OW)** follow the steps of this site to install openwillis, install the complete openwillis version: https://openwillis.brooklyn.health/Installing-OpenWillis-14983a8fe047814b88ced7d3831791f2
3. We use **JupyterLab** as a code editor and will explain how to set it up. If you are already comfortable with another code editor you can use that one if you like, but for our examples we will use JupyterLab.
    a. In the same Anaconda environment in which you installed openwillis run the following commands one line (only the green text) at a time:

pip install jupyterlab

pip install ipykernel

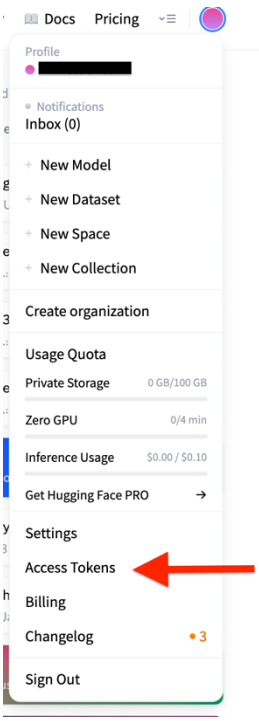
    b. Change *your_env_name* in the line below into the name of your env, if you just copied the OW code it will be: openwillis_env

python -m ipykernel install --name your_env_name --display-name "openwillis_env"

pip install ffmpeg-python

    c. *start juypterlab by running this command*: jupyter lab

4. Hugging Face token, for certain openwillis functions you will need access to certain deep learning models. They are accessible through Hugging Face.
    a. Create a Hugging Face account: https://huggingface.co/
    b. Then request access to these 2 models:
        i. https://huggingface.co/pyannote/segmentation-3.0
        ii. https://huggingface.co/pyannote/speaker-diarization-3.1
    c. To access your Hugging Face, click on your profile and go to access tokens and create a new token.



Apple:

1. Download the Anaconda
    a. Go to the official Anaconda website: https://www.anaconda.com/products/distribution
    b. Click **"Download"**, then choose Miniconda macOS:
        i. **Apple Silicon (M1/M2/M3)** or **Intel** depending on your Mac's chip *(You can check this by going to information in your settings)*
        ii. Choose Graphical Installer
        iii. Create a new Folder on your Desktop named Anaconda
        iv. Select the Anaconda folder as the installation location and finish the installation
2. **OpenWillis (OW)** installation
    a. Open the terminal by pressing cmd + space and search for terminal
    b. Check if conda is installed by running this: *conda --version* the output should look like this: *conda 25.5.1* (don't worry if you don't have the exact same version).
    c. Follow the openwillis installation instructions for the complete version: https://openwillis.brooklyn.health/Installing-OpenWillis-14983a8fe047814b88ced7d3831791f2
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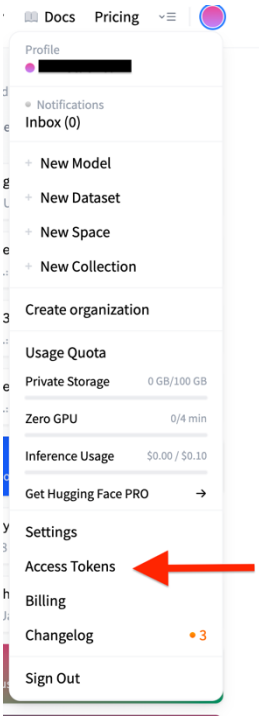
    a. Create a Hugging Face account: https://huggingface.co/
    b. Then request access to these 2 models (you need give them the website of your university or Institution):
        i. https://huggingface.co/pyannote/segmentation-3.0
        ii. https://huggingface.co/pyannote/speaker-diarization-3.1
    c. To access your Hugging Face, click on your profile and go to access tokens and create a new token.



Analysis Setup:

Start a new Anaconda terminal and run the code below line by line to create an environment (env) for the data analysis.

1. conda create -n workshop_env python=3.10
2. conda activate workshop_env
3. conda install -c conda-forge pandas numpy matplotlib seaborn scikit-learn umap-learn jupyterlab notebook ipykernel
4. python -m ipykernel install --user --name=workshop_env --display-name "Python (workshop_env)"
5. jupyter notebook

Additional resources for Help

- The OpenWillis GitHub has an Issue tab with many common problems users have encountered. The team responds quickly if you open a new issue.
- https://github.com/bklynhlth/openwillis/issues?q=is%3Aissue%20state%3Aclosed
- We offer a timeslot right before the Workshop to help with the setup if needed. Time:
    - Tue, 09.09., 16:30-17:30 CEST (online)
    - Wed, 10.09., 9:15-10:15 CEST (hybrid - online and at LIR)
- For additional questions you can send us an email to tim.staeheli@bli.uzh.ch. Just mention in the subject line that you need help for the workshop.