Tutorial on how to install Trodes and run the sleep scoring script
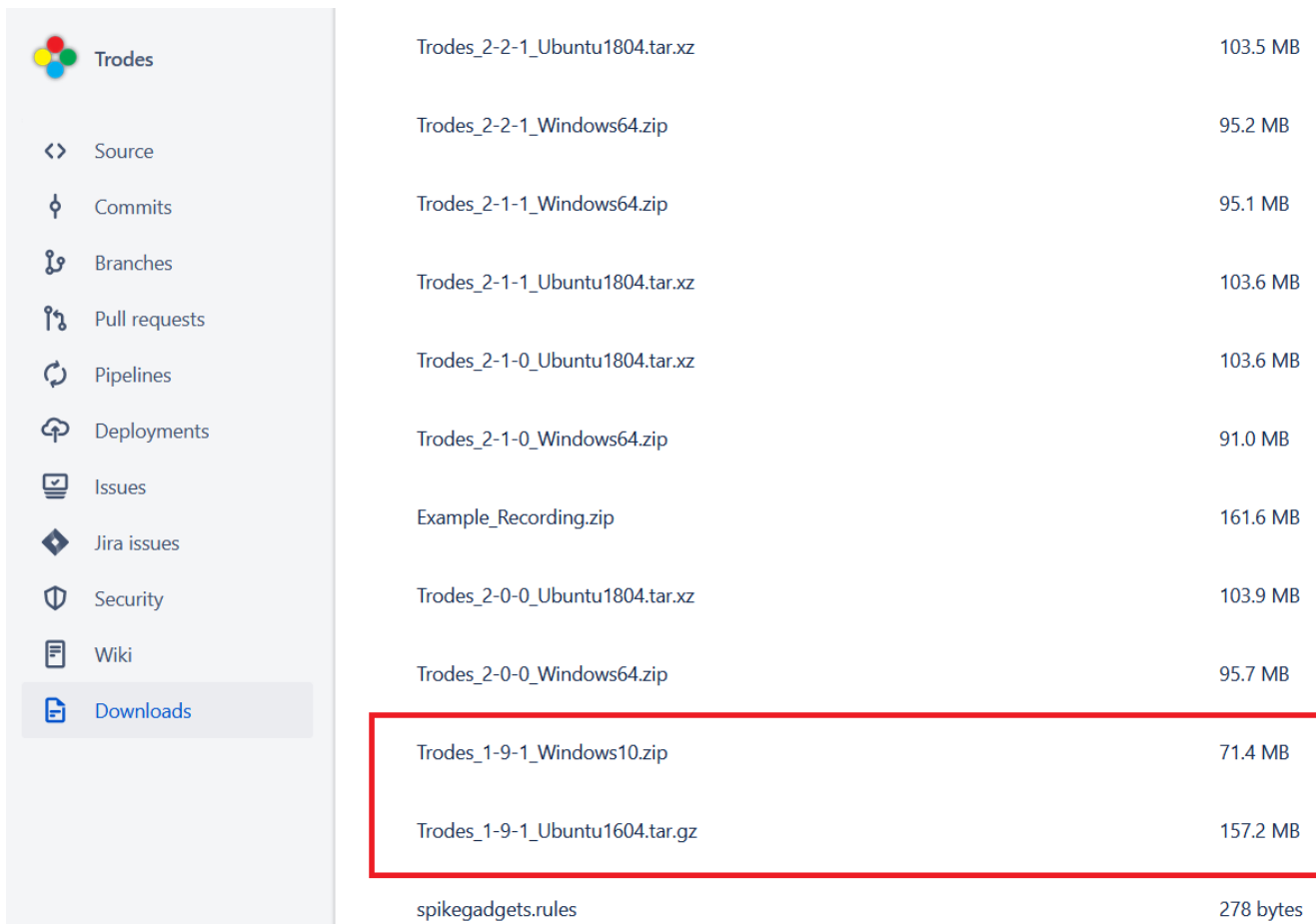
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1 Part 1: Downloading the necessary files

1.1 Trodes

First, we need to download Trodes and TrodesToMatlab. Trodes can be found here: `https://bitbucket.org/mkarlsso/trodes/downloads/`. In the image, both versions for Windows and Ubuntu are displayed, in order to download it, click on the version for your operating system. Trodes 1.9.1 is used. After downloading it, unzip the folder.

Now, in order to download TrodesToMatlab, use this command to download the source code of Trodes. The source code contains a folder called TrodesToMatlab, which is needed for the script to run correctly. Run this command from the terminal

```
git clone https://bitbucket.org/mkarlsso/trodes.git
```

The 'git clone' command must be installed if it's not already installed

1.1.1 Installing git on Windows

You can download Git from the official page: `https://git-scm.com/downloads`, or you can use the 'winget' command in the powershell or the command prompt.

```
PS C:\Users\Raul> winget install --id Git.Git -e --source winget
Found Git [Git.Git] Version 2.35.1.2
This application is licensed to you by its owner.
Microsoft is not responsible for, nor does it grant any licenses to, third-party packages.
Downloading https://github.com/git-for-windows/git/releases/download/v2.35.1.windows.2/Git-2.35.1.2-64-bit.exe
                                    47.9 MB / 47.9 MB
Successfully verified installer hash
Starting package install...
Successfully installed
PS C:\Users\Raul>
```

1.1.2   Installing Git on Ubuntu

In Ubuntu you can use this command:

```
sudo apt install git
```

1.2   Sleep scoring code

The code needed can be downloaded from Github:

```
git clone https://github.com/AbdelRayan/sleep_scoring.git
git clone https://github.com/RaulCetatean/internship-genzellab.git
```
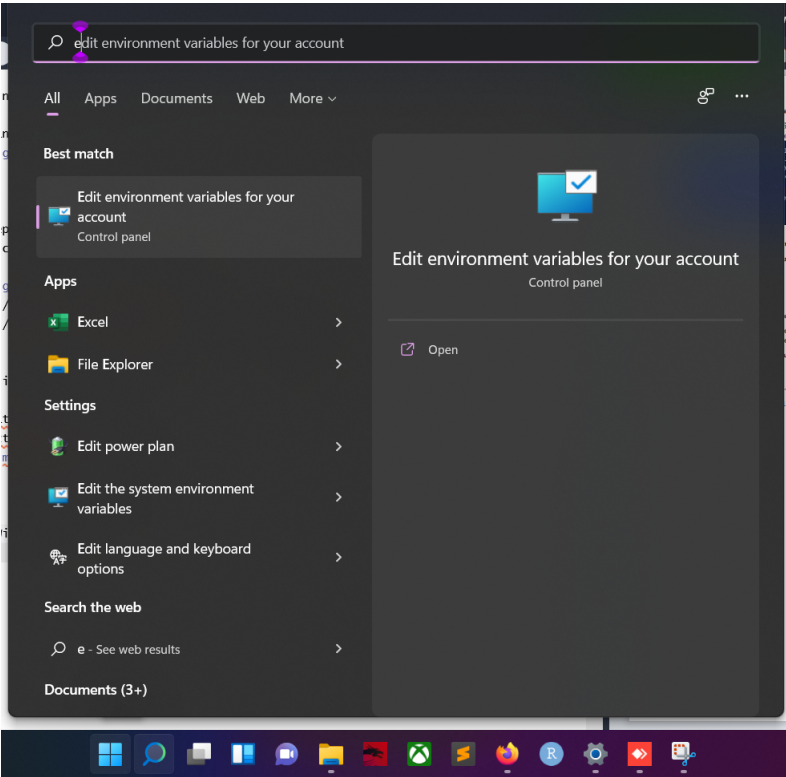
From these repositories, 3 files are needed for the sleep scoring.

- TheStateEditor.m
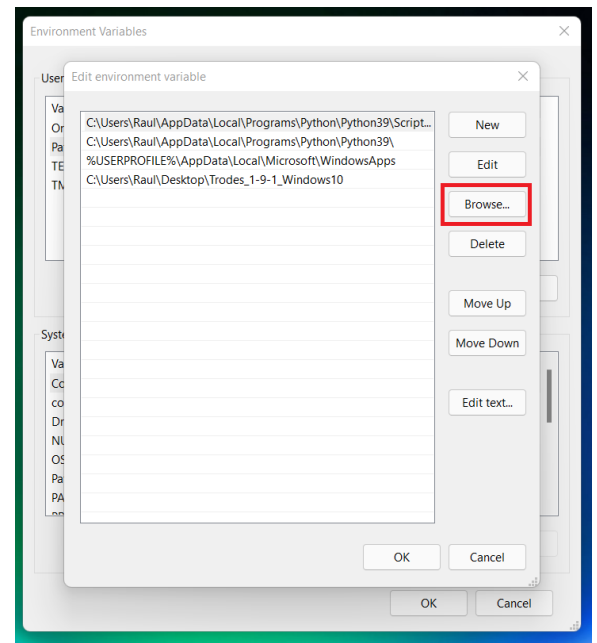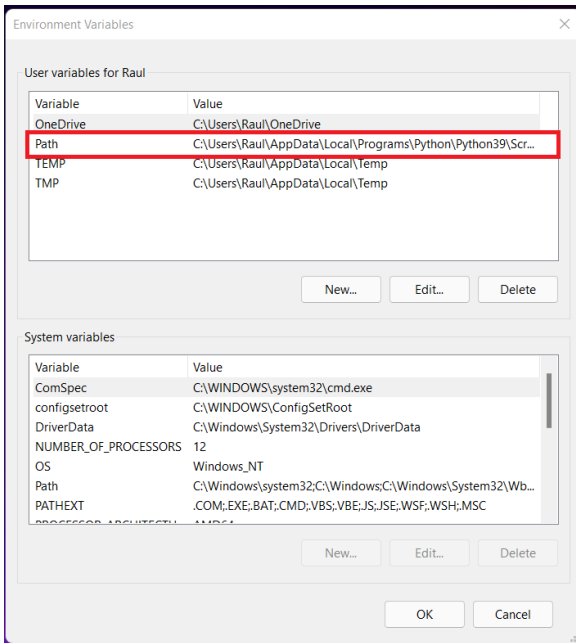- ExtractLFPBinaryFilesAbdel.m
- `manualscoring_script_Raul.m`

2   Part 2: Adding Trodes to the PATH

2.1   On Windows

In Windows, you need to edit your enviromental variables, as shown below.

A window as the one below on the left will appear. Click on Path. From there, another window will appear, as shown on the right side. Click on *Browse...* and add Trodes to the Path.

2.2 On Ubuntu

For Ubuntu you can use the terminal. In this example, the folder to Trodes is found in the Desktop.

export PATH=/home/genzel/Desktop/Trodes_1−9−1_Ubuntu1604/:$PATH

3 Part 3: Running the scripts

Before properly running the script, add the following folders to the matlab path.

- trodes

- TrodesToMatlab

Lastly, in order to be able tu run the scripts, the files previously mentioned have to be in the same directory in which the *.rec* file, *LFP* and *analog* folders are found, as shown below.