



## Café Neuro #1 – 13 Janvier 2022 - JJ


# Site web ↔ Github ↔ Git

<https://neuro-team-femto.github.io>

NEURO TEAM @ FEMTO-ST   HOME   ABOUT   PUBLICATIONS   PEOPLE   RESOURCES   (CREAM)

### We're hiring !

- One 3-year, fully-funded **PhD position** on the application of reverse correlation to the diagnosis of hearing impairments in brain stroke patients. [\[Announcement\]](#) - **Deadline: 15th February 2022**.
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<https://github.com/neuro-team-femto>

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**NEURO team, FEMTO**  
A Control Systems + Neurophysiology Lab @ FEMTO-ST Institute, Besançon, FR  
<https://neuro-team-femto.github.io/>   @jlokyo

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**cleese**   Public

Combinatorial Expressive Speech Engine

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**smiling\_violins**   Public

Code and data repository for the 'smiling violins' experiment (Daniel Ledoys, Pablo Arias, Louise Goulet, Marco Lavi, Clement Gazeotte & JA, IICAM, Paris & FEMTO-ST, Besançon)

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**treadmill**   Public

Code and data repository for the treadmill music cognition experiment (Leo Migotti, Philippe Schierler - ENS, Quentin Decolock, JJ Associates, FEMTO-ST)

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**Repositories**

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**neuro-team-femto.github.io**   Public

Neuro team @ FEMTO-ST lab webpage

SCSS   0   MIT   101   0   Updated 1 hour ago

**People**

Invite someone

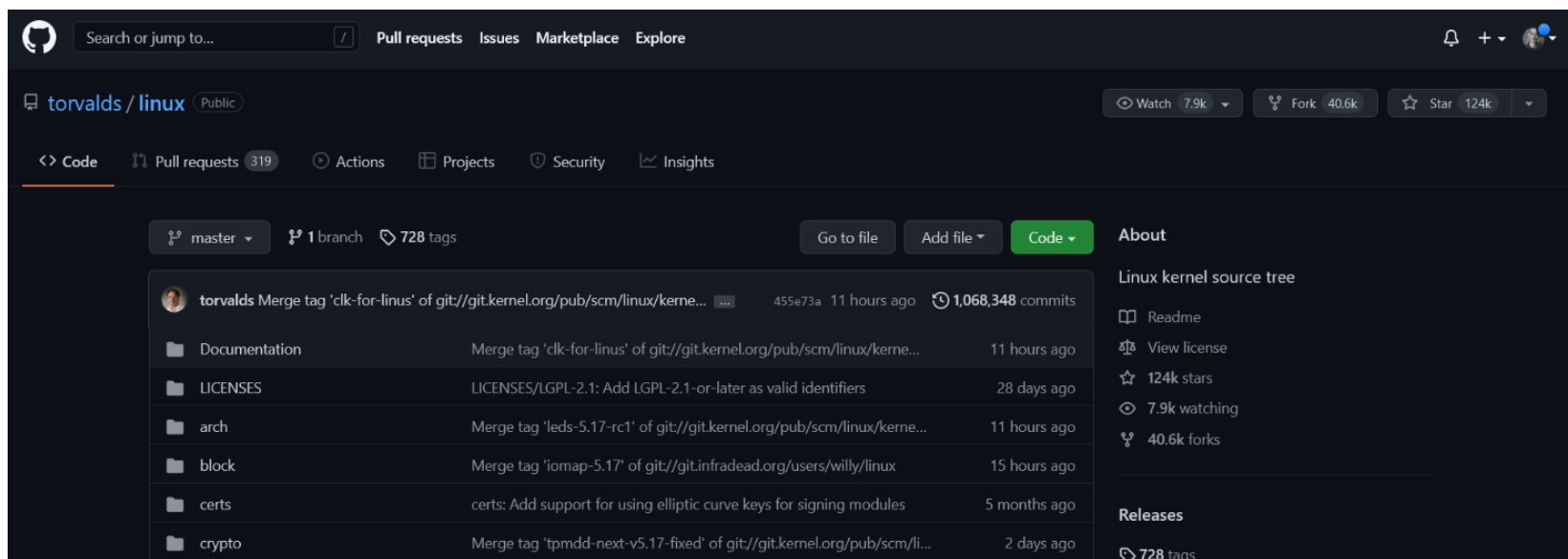
**Top languages**

Jupyter Notebook   Python   CSS

Github : un service web (gratuit/payant) qui héberge des logiciels, et utilise le logiciel git

On se fait un compte

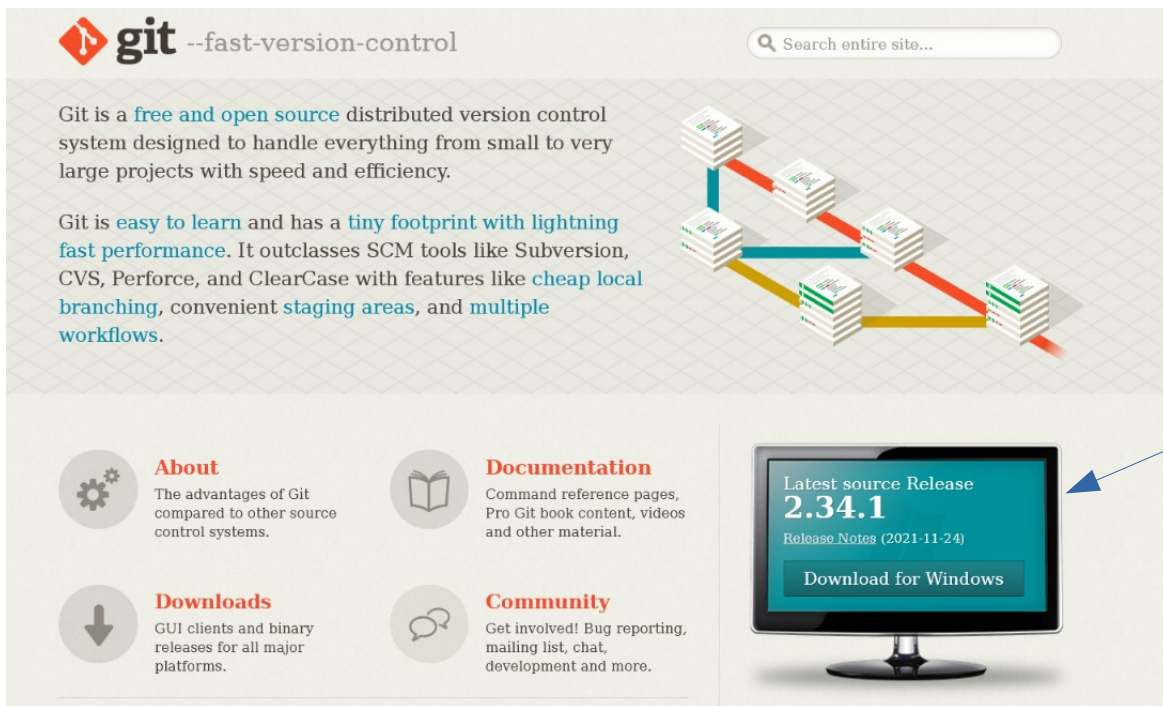
<https://github.com/torvalds/linux>



Wikipedia : En avril 2016, GitHub a annoncé avoir dépassé les quatorze millions d'utilisateurs et plus de 35 millions de dépôts de projets le plaçant comme le plus grand hébergeur de code source au monde

# Git : un logiciel de « gestion de version » de code, en ligne de commande, et qui permet de communiquer avec github

<https://git-scm.com/>



The screenshot shows the Git website homepage. At the top left is the Git logo (a red diamond with a white 'G') followed by the text 'git --fast-version-control'. To the right is a search bar with the placeholder text 'Search entire site...'. Below the logo, there is a paragraph describing Git as a 'free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.' Another paragraph states 'Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows.' To the right of this text is a diagram showing a branching model with several stacks of code blocks connected by colored lines (red, blue, yellow). Below the main text, there are four sections: 'About' (with a gear icon), 'Documentation' (with a book icon), 'Downloads' (with a download arrow icon), and 'Community' (with a speech bubble icon). Each section has a brief description. At the bottom right, there is a monitor displaying the 'Latest source Release 2.34.1' and a button that says 'Download for Windows'. A blue arrow points from the text 'Ça s'installe' to this button.

**git** --fast-version-control

Search entire site...

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.

**About**  
The advantages of Git compared to other source control systems.

**Documentation**  
Command reference pages, Pro Git book content, videos and other material.

**Downloads**  
GUI clients and binary releases for all major platforms.

**Community**  
Get involved! Bug reporting, mailing list, chat, development and more.

Latest source Release  
**2.34.1**  
Release Notes (2021-11-24)  
Download for Windows

NB. Github n'est pas le seul service web qui héberge des repository avec lesquels on peut interagir avec git : gitlab.com, bitbucket.com, etc.

Ça s'installe

# Git : un logiciel de « gestion de version » de code, en ligne de commande, et qui permet de communiquer avec github

```
E:\WORK\DO\2022\group website\neuro-team-femto.github.io>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   publications.md

no changes added to commit (use "git add" and/or "git commit -a")

E:\WORK\DO\2022\group website\neuro-team-femto.github.io>git add publications.md

E:\WORK\DO\2022\group website\neuro-team-femto.github.io>git commit -m "publication: corrected link to Coralie's paper"
[main 1700ab7] publication: corrected link to Coralie's paper
 1 file changed, 1 insertion(+), 1 deletion(-)

E:\WORK\DO\2022\group website\neuro-team-femto.github.io>git push
To https://github.com/neuro-team-femto/neuro-team-femto.github.io
 7f90c1e..1700ab7  main -> main
```

Quelques commandes qu'il faut apprendre (add, commit, push, pull, etc.) pour gérer votre code sur votre machine et interagir avec le code sur github

## GUI Clients

Git comes with built-in GUI tools for committing (`git-gui`) and browsing (`gitk`), but there are several third-party tools for users looking for platform-specific experience.

If you want to add another GUI tool to this list, just [follow the instructions](#).

All Windows Mac Linux Android iOS



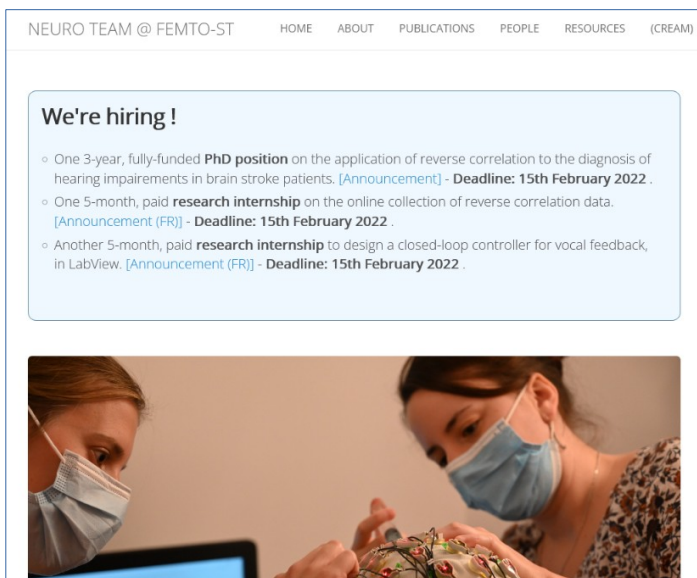
**GitHub Desktop**  
Platform: Mac, Windows  
Price: Free  
License: MIT

**SourceTree**  
Platform: Mac, Windows  
Price: Free  
License: Proprietary

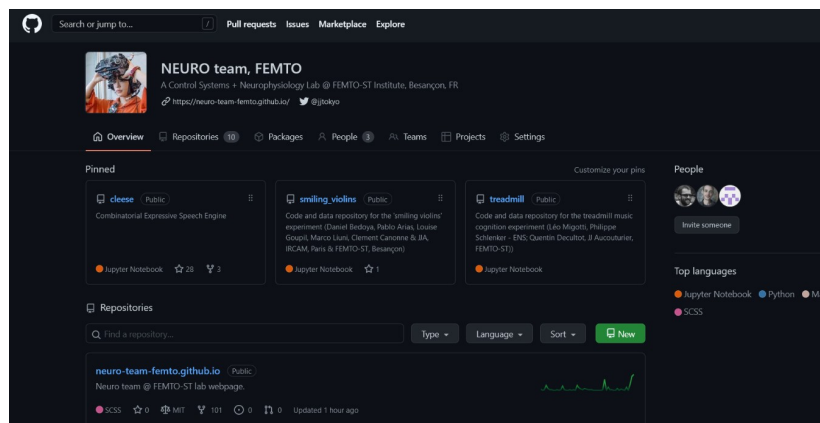


# Github.io: un service proposé par github pour héberger des pages web, qui sont définies comme des repository github

<https://neuro-team-femto.github.io>



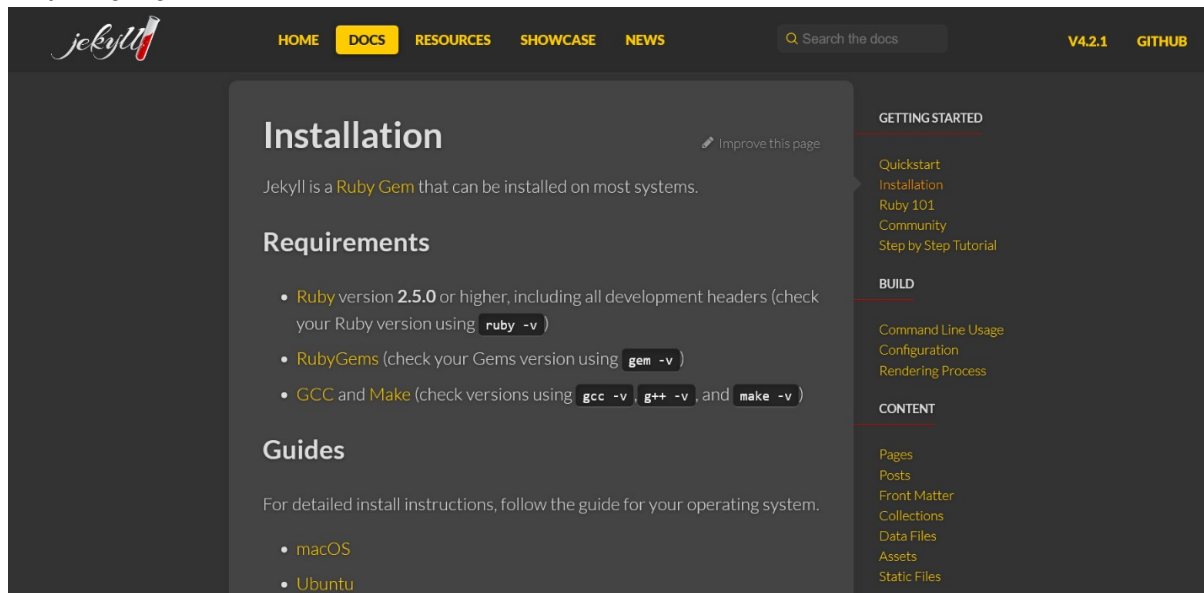
<https://github.com/neuro-team-femto>



Nom du repo : « neuro-team-femto.github.io »  
Contient du code de site web, qui est créé automatiquement → <https://neuro-team-femto.github.io>

# Jekyll: un logiciel (open-source\*) créé par le fondateur de github, et que github.io utilise pour générer ses sites web, à partir des fichiers dans le repo

<https://jekyllrb.com/docs/installation/>

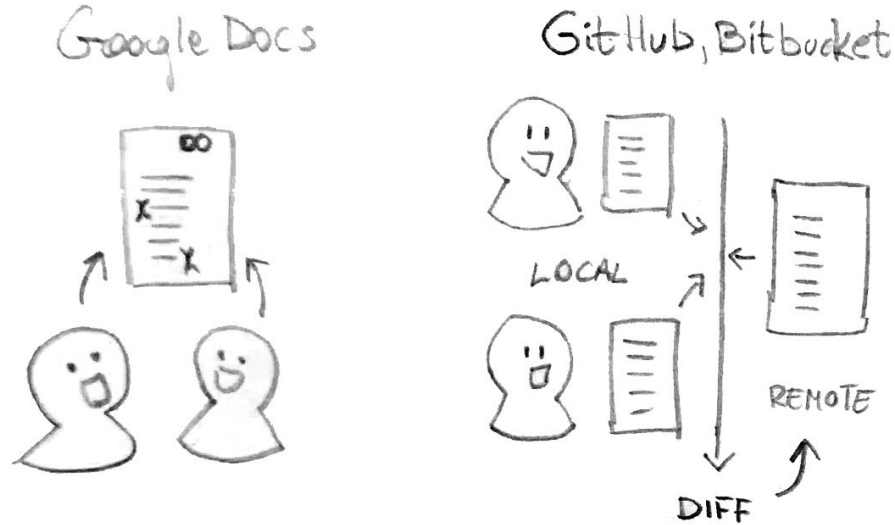


Pas indispensable d'installer sur votre ordinateur (ça tourne sur les ordinateurs de github.com)

Mais utile à installer quand même si on veut tester des choses « en local » avant de mettre en ligne

(\*) d'ailleurs, évidemment le code de jekyll est lui-même un repo sur github <https://github.com/jekyll/jekyll>

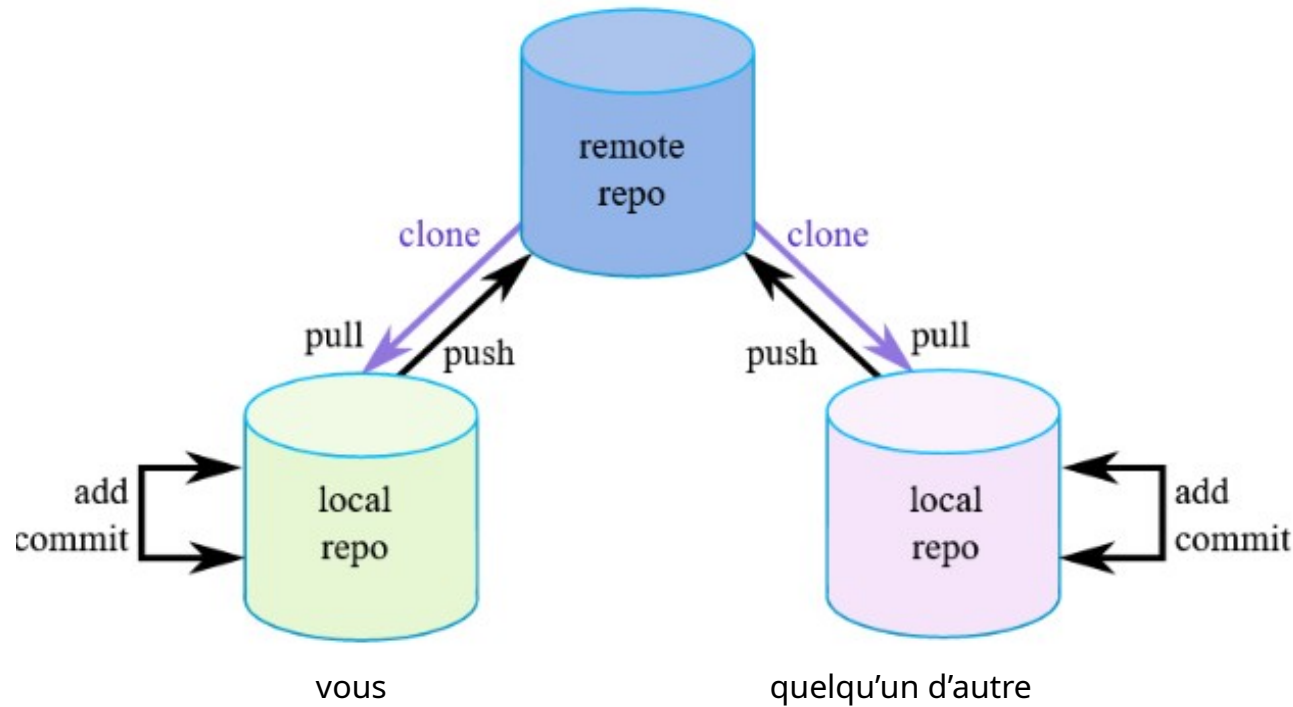
# Quelques principes de base de github/git



On est toujours avec une version du code en local (sur votre ordinateur), et une (ou plusieurs) version en ligne (sur github.com)

On gère la copie, le téléchargement, le téléversement, avec des commandes git

# Quelques principes de base de github/git



On gère la copie, le téléchargement, le téléversement, avec des commandes git :

Clone, pour faire une première copie d'un repo en local

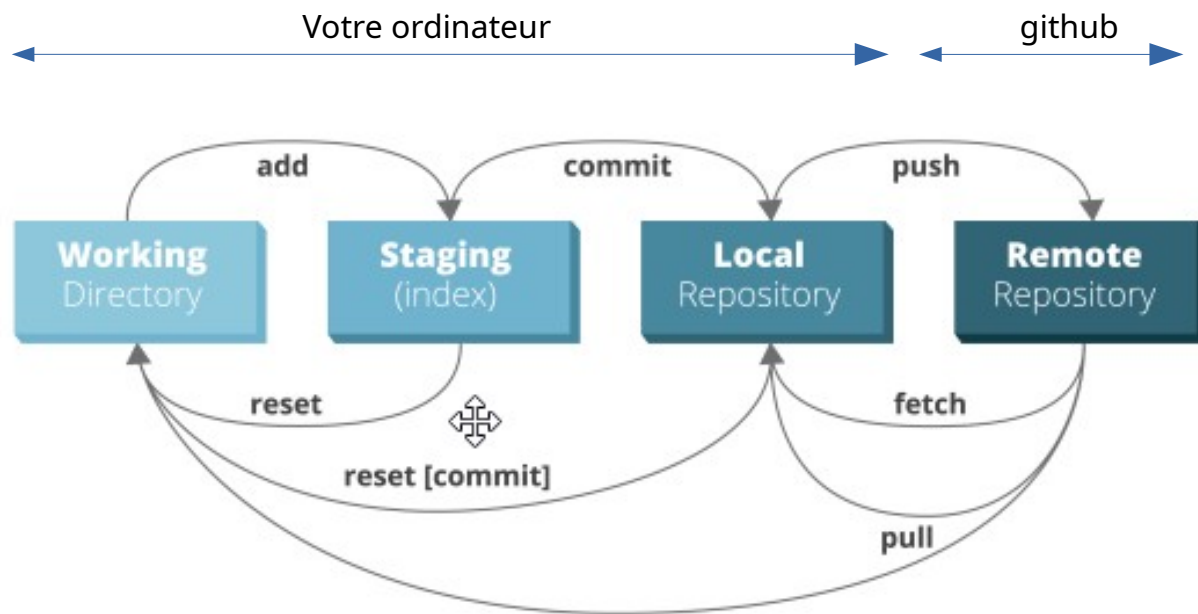
Add et commit pour enregistrer des changements fait en local (« save »)

Push, pour pousser ces changements sur le serveur (« upload »)

Pull, pour récupérer en local des changements que quelqu'un d'autre a fait sur le serveur (« download »)



# Quelques principes de base de github/git



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# Démo !


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Repositories

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Neuro team @ FEMTO-ST lab webpage

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People

Invite someone

Top languages

Jupyter Notebook Python Max

SCSS

Pour éviter de casser le repo principal, les « fork » et pull request

