note

November 2, 2022

1 Prerequisite for pylimons

1.1 Preparation of Development Environment

Conda package management is preferred, but other development environment is ok. Using conda

```
conda create -n pylimons python=3.9
conda install numpy
conda install scipy
conda install pytables
conda install h5py
conda install pytest
conda install matplotlib
conda install git
```

FYI, my current versions of the above packages are:

`numpy` 1.23.4

`scipy` 1.9.3

`tables` 3.7.0

`pytest` 7.2.0

`matplotlib` 3.6.1

`git` 2.38.1

1.2 Version control

We will use `git` as the version control system. The `git` repostory is already created in github.com.

In order to commit your additions and changes, you need to set your own git configuration, for example:

```
git config <--global> user.name "<Your Name>"
git config <--global> user.email "<Your email address>"
```

1.3 Clone the pylimons repositry

`git clone https://github.com/pylimons/pylimons.git`

After cloning the repository, create your own branch

`git checkout -b <new_branch_name>`

Then, to push the current branch and set the remote as upstream, use

`git push --set-upstream origin <new_branch_name>`

You can change between branches by

`git checkout <branch_name>`

1.4 Authenticating with Github

Read the following document for pushing commits/changes to the github repository.

https://mgimond.github.io/Colby-summer-git-workshop-2021/authenticating-with-github.html

After creating a personal authentication token, type the following command first

`git config credential.helper store`

Then, your token will be **permanently** stored in the `~/.git-credential` file.