

Instructions to submit a project on git

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June 5th, 2025

For the following operations we suggest to use a desktop computer from the university to make use of the fast speed connection. Please operate exclusively on the C drive on Windows not to be limited in terms of data size.

Creating a new remote repository

- Login, using your Agalan credential on the Gitlab of Gricad: <https://gricad-gitlab.univ-grenoble-alpes.fr/>
- Click on "New project" and then on "Create blank project"
- Assign a name to your project in the text box, select "Public", unselect "Add README.md" and finally click on "Create project"
- From now you have an assigned git repository with a name such as:
<https://gricad-gitlab.univ-grenoble-alpes.fr/username/project.git>
where username is your agalan username and project is the name that you have assigned to your project

Initializing a repository

- Install **git for Windows** from <https://gitforwindows.org/> and **git-lfs** from <https://git-lfs.com/>
- Launch the git CLI (CLI stands for command line interface) from the utility you have just installed. You will see a command terminal.
- From the command line interface, navigate to the root folder of your project:

```
cd C:\pathtoproject
```

- If you already have initialized a git project, and you want to delete the previous content type:

```
rm -rf .git
```

- Initialize the project to connect to the remote git

```
git init
git remote add origin https://gricad-gitlab.univ-grenoble-alpes.fr/use
git branch -M main
```

where **username** and **project** are the username and project name you have previously assigned.

First commit

First, we need to configure your identity on your machine:

```
git config --global user.name "Your_Name"
git config --global user.email "you@grenoble-inp.fr"
```

where **Your Name** are your name and surname and **you@grenoble-inp.fr** is your institutional mail.

For a first commit, I suggest to create a **README.md** file to the root folder of your project and upload it remotely:

```
git add README.md
git commit -m "Initial_commit"
git push origin main
```

It will ask you to type your Grenoble-INP username and password. Verify that your readme file now shows on the Gricad page of your repository.

Commits with data content

Identify what are all the extensions that are specific of those large files, such as **.pdf**, **.tif**, **.jpg**, etc. You need to notify your repository that those files are large. For example for **tif** files type:

```
git-lfs track *.tif
git-lfs track *.TIF
```

and repeat this operation for all extensions of files larger than 5MB.

In the second commit, I suggest to just add the code and the reports to the root folder of your project. If you have any data, please move it away to a temporary external folder outside of the root folder of your project. Then type:

```
git status
```

to show all the files that you wanted to add to the online repository. Then commit and pull once again:

```
git add .
git commit -m "Intermediate_commit"
git push origin main
```

Finally, add your data back to the folder and try a final commit:

```
git add .
git commit -m "Final_commit"
git push origin main
```

Failed commits

In the case that Gitlab-Gricad does not allow you to push data, it is most likely the case that you are not properly tracking all the data content that is bigger than 5 MB. In that case I suggest to restart from the operation of "initializing a repository" and try again, being very careful to track all the large files when you type `git-lfs track *.pdf`, etc.