

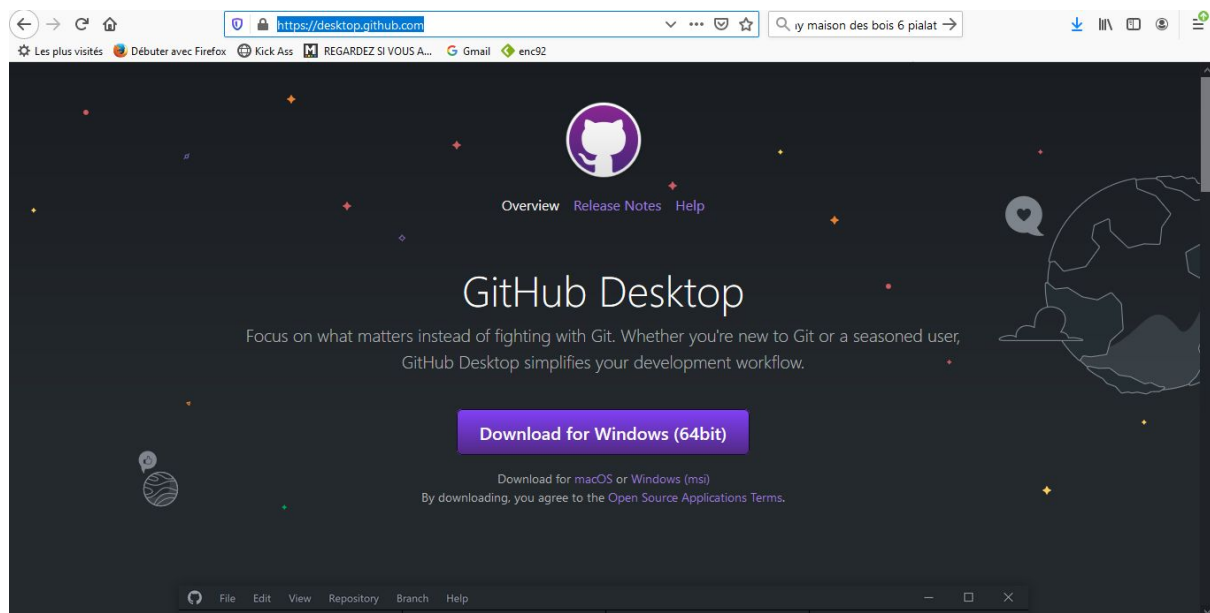
HOW TO EDIT A GITHUB REPOSITORY UNDER WINDOWS

- [1. first, create a github account](#)
- [2. clone the github repository you are interested in](#)
- [3. do your modification on your clone](#)
- [4. upload your clone to your github account](#)
- [5. optional : modify the original repository by a “pull request”](#)

1. first, create a github account

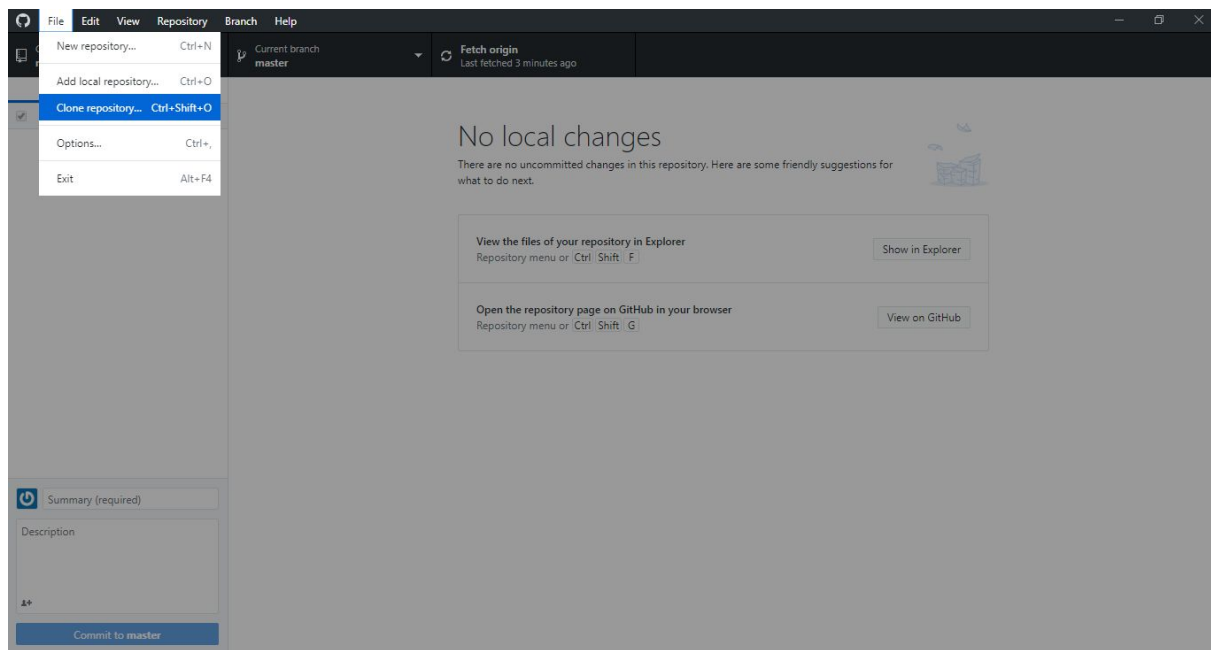
Go to <https://github.com> and register on github.com. This is free.

Then, install “Github Desktop” for Windows (also free):

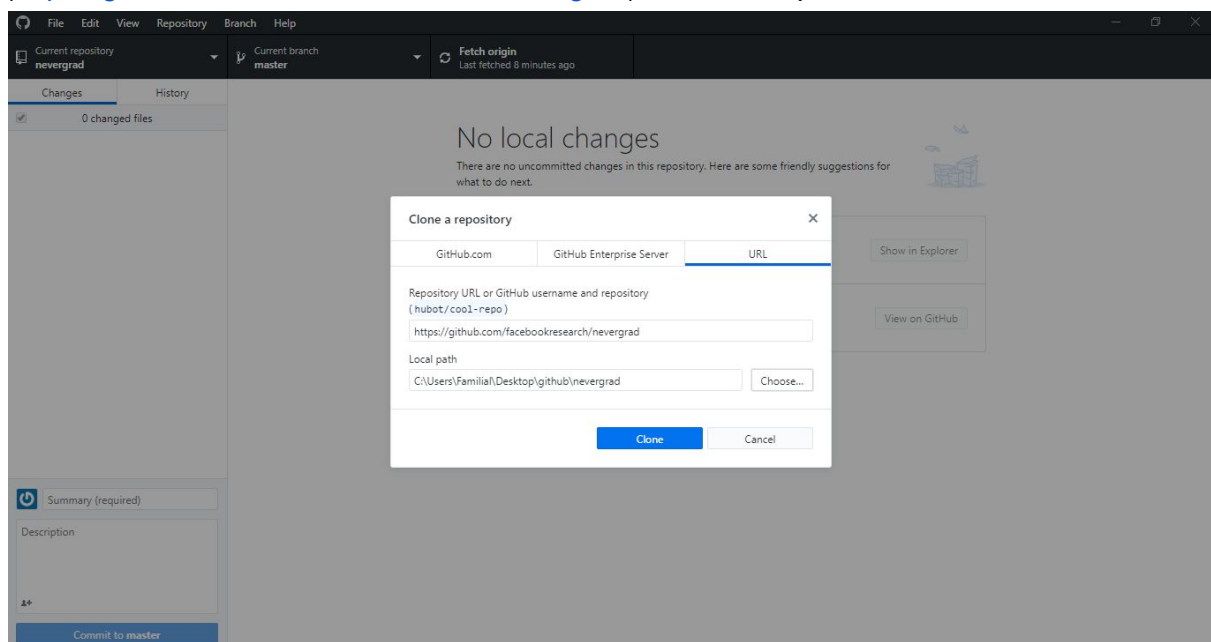


2. clone the github repository you are interested in

Launch Github Desktop (installed at the previous step), and click on “Clone Repository”:



You must specify which repository you want to work on. Here we use Nevergrad (<https://github.com/facebookresearch/nevergrad>) as an example:



This automatically downloads the repository, you can now modify it (next step).

3. do your modification on your clone

















You modify the code with the editor you want. For example, inside Github-Desktop, you can use Explorer:



For example, we go to this part of the code:

```
github > nevergrad > nevergrad > benchmark
```

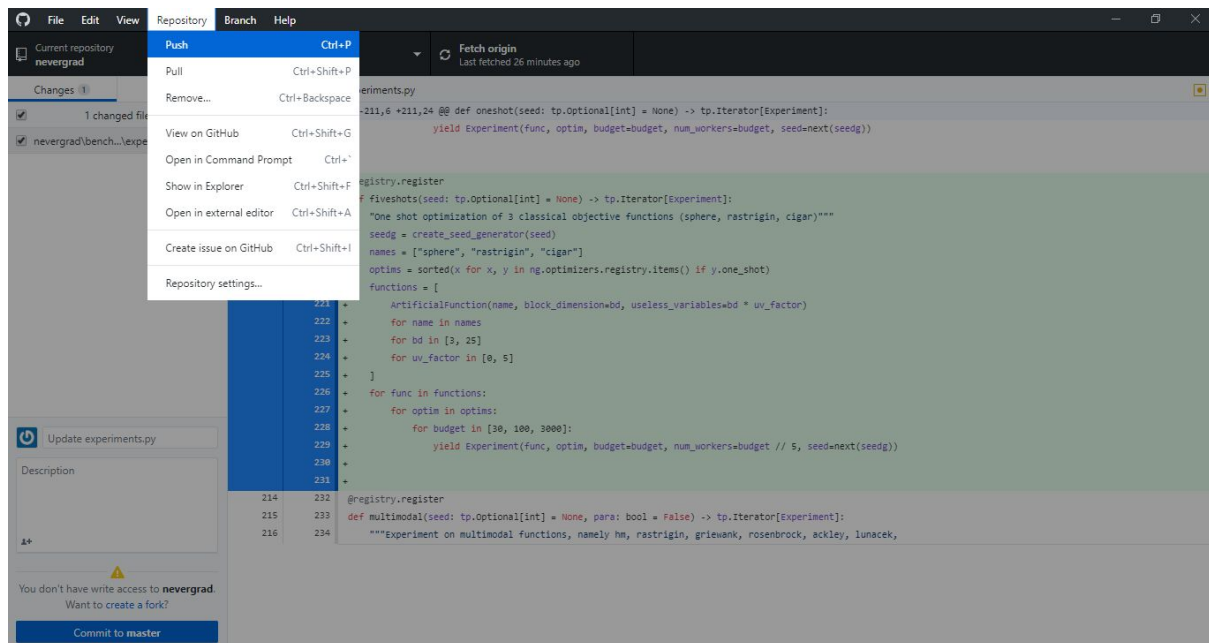
And we modify the file “experiments.py”:

	additional	04/04/2020 19:36	Dossier de fichiers	
	__init__.py	04/04/2020 19:36	Interactive Editor f...	1 Ko
	__main__.py	04/04/2020 19:36	Interactive Editor f...	5 Ko
	core.py	04/04/2020 19:36	Interactive Editor f...	12 Ko
	execution.py	04/04/2020 19:36	Interactive Editor f...	6 Ko
	experiments.py	04/04/2020 19:36	Interactive Editor f...	43 Ko
	exporttable.py	04/04/2020 19:36	Interactive Editor f...	3 Ko
	frozenexperiments.py	04/04/2020 19:36	Interactive Editor f...	12 Ko
	plotting.py	04/04/2020 19:36	Interactive Editor f...	30 Ko
	sphere_perf_example.csv	04/04/2020 19:36	Fichier CSV Micro...	76 Ko
	test_core.py	04/04/2020 19:36	Interactive Editor f...	6 Ko
	test_execution.py	04/04/2020 19:36	Interactive Editor f...	4 Ko
	test_experiments.py	04/04/2020 19:36	Interactive Editor f...	4 Ko
	test_plotting.py	04/04/2020 19:36	Interactive Editor f...	8 Ko
	test_xpbase.py	04/04/2020 19:36	Interactive Editor f...	6 Ko
	xpbase.py	04/04/2020 19:36	Interactive Editor f...	12 Ko

4. upload your clone to your github account

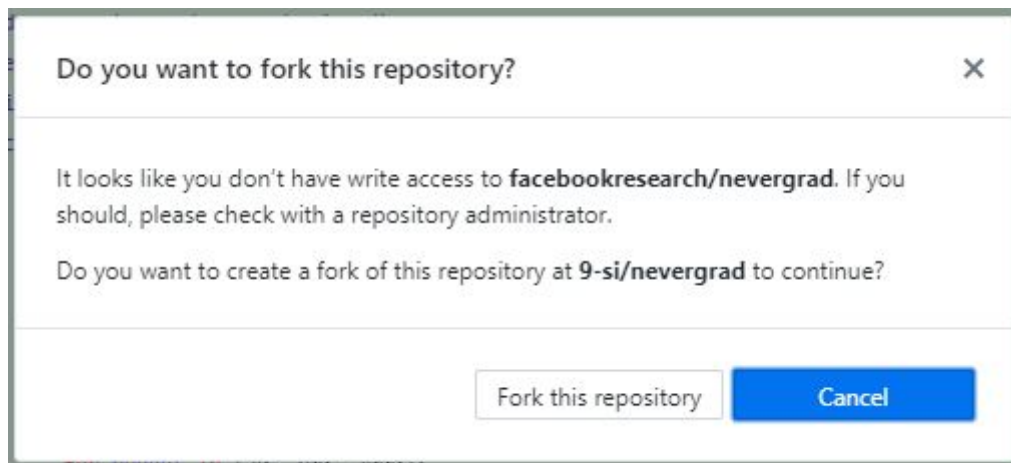
When you are done editing, you can upload your code to your github account - you can do this inside Github-Desktop.

Go to the Repository → Push menu:

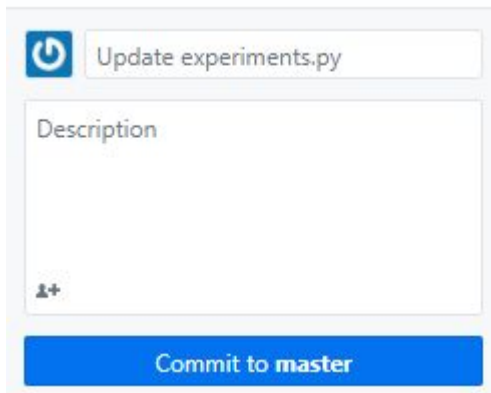


As you can not upload directly to the original repository, Github proposes to create a “fork” (a copy) of that repository on your own account. Below:

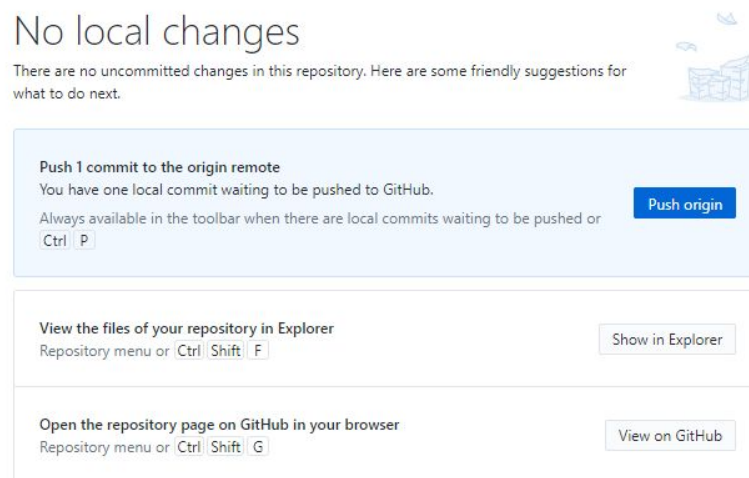
- “9-si” is your account name;
- “nevergrad” is the name of the repository
- “facebookresearch/nevergrad” is the original repository
- “9-si/nevergrad” is your copy (assuming that your account is 9-si, which is not the case, except if you are me :-)) :



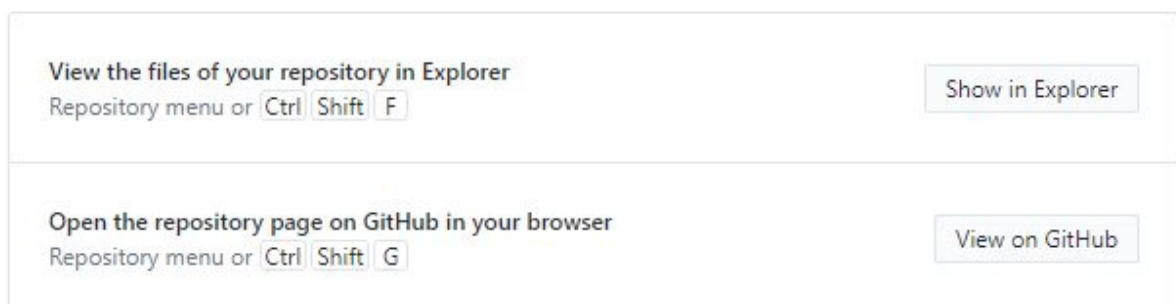
Then, Github-Desktop proposes to add a documentation message, associated to your modification:



Then it asks you to confirm (you can then click “push → origin”):



Then it proposes to view the result either locally (“show in Explorer”) or on your github account (“view on github”):



5. optional : modify the original repository by a “pull request”

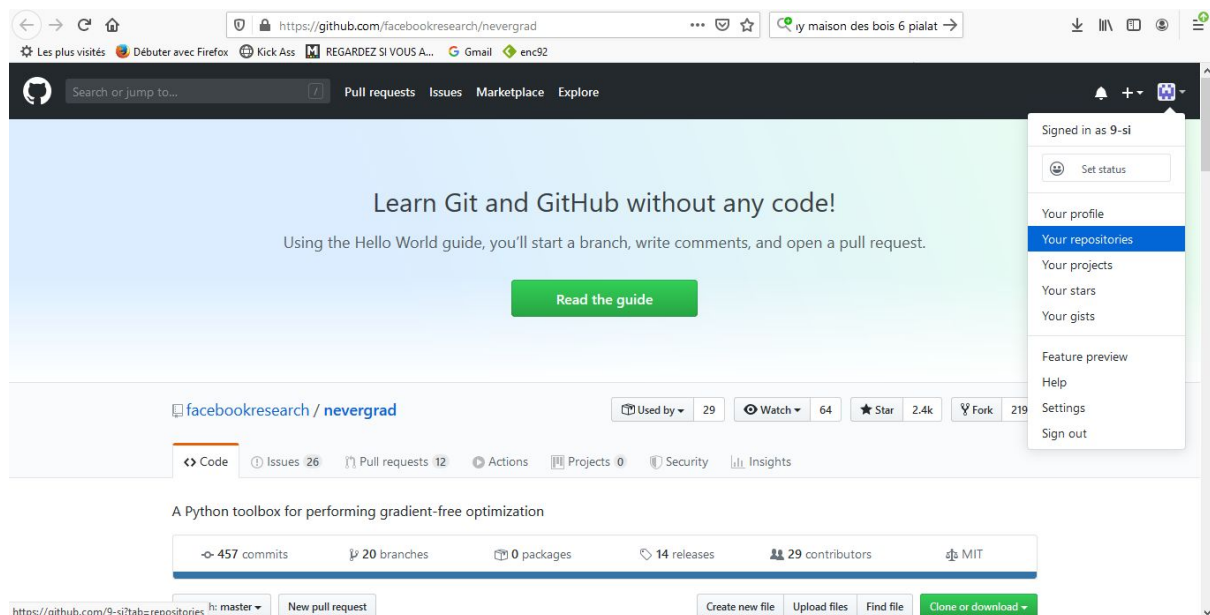
For the moment we have 3 versions of the original repository:

1. the original one
2. your copy on your computer (which contains your modifications)
3. the uploaded version of your copy (this is identical to 2)

You can propose to the owners of 1 to include your modification.

This means that you ask them to “pull” your modification: this is a “pull request”.

On your github account on github.com, you can view your repositories:



There should be the copy of the repository you are working on (here: Nevergrad):

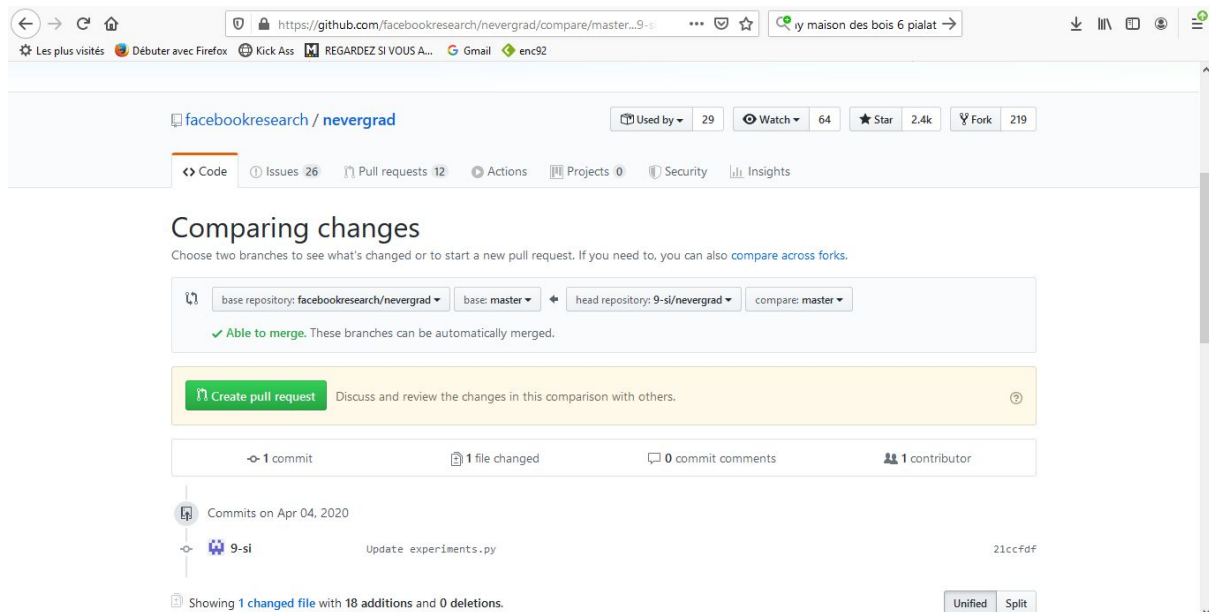
The screenshot shows a GitHub user profile for '9-si'. The profile includes a blue pixelated avatar, a bio stating 'A Python toolbox for performing gradient-free optimization', and statistics for repositories (2), projects (0), packages (0), stars (0), followers (0), and following (0). The 'nevergrad' repository is highlighted, showing it was forked from 'facebookresearch/nevergrad' and updated 6 minutes ago. A 'ProTip!' banner at the top encourages updating the profile.

Let us go there:

The screenshot shows the GitHub repository page for '9-si/nevergrad'. The repository is described as 'A Python toolbox for performing gradient-free optimization'. It shows 458 commits, 20 branches, 0 packages, 14 releases, and 30 contributors. The 'master' branch is selected, and a 'New pull request' button is visible. A table of recent commits is displayed, including updates to tests, documentation, and the main code.

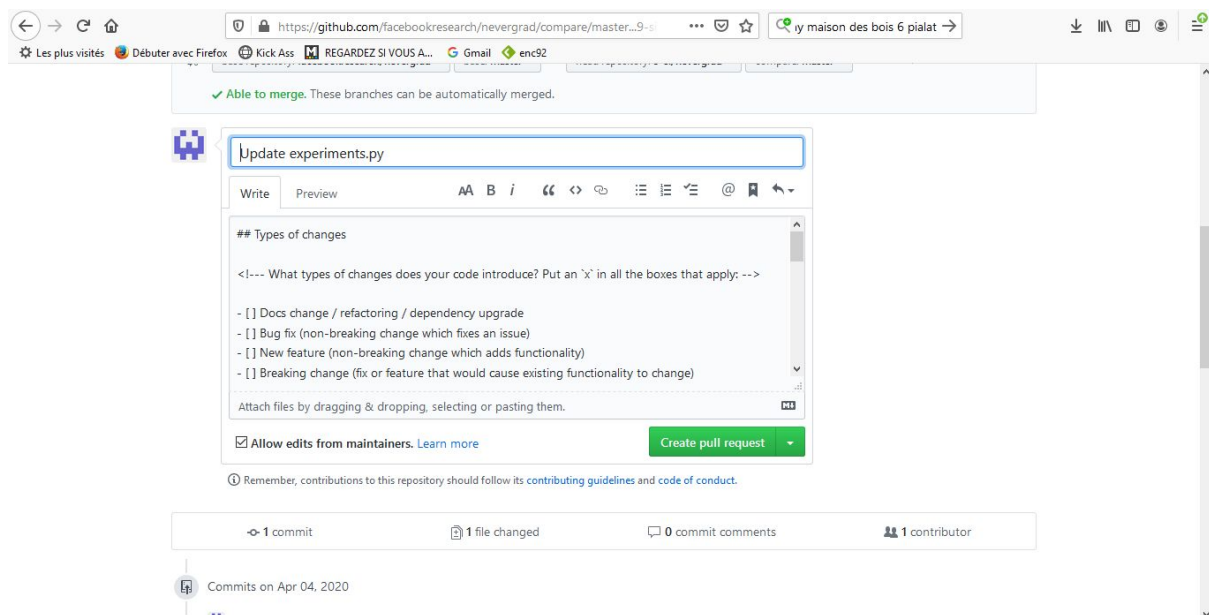
Commit	Message	Time
9-si Update experiments.py	Latest commit 21ccfd8 8 minutes ago	
.cirded	Force bayes opt update in tests (facebookresearch#555)	last month
.github	Continue updating doc (facebookresearch#500)	2 months ago
docs	Extended competition deadline (facebookresearch#593)	2 days ago
nevergrad	Update experiments.py	8 minutes ago
requirements	Add ProgressBar callback with tqdm (facebookresearch#590)	16 days ago
.coveragerc	Update testing to pytest (facebookresearch#132)	13 months ago
	Prepare for documentation generation (facebookresearch#233)	10 months ago

Then you can request that the owners of the original repository pull your modifications; for this, click on “new pull request”. You get a first screen comparing your code (“9-si/nevergrad”) and the original one (“facebookresearch/nevergrad”):



You can view various things, and then confirm by “create pull request”.

Depending on the repository, you might be asked to answer some questions and choose a description for your modification:



Below a very minimum version (shame on us, we did not write anything in the description):

9-si commented 8 minutes ago • edited ▾

First-time contributor 😊 ...

Types of changes

☐ Docs change / refactoring / dependency upgrade

☐ Bug fix (non-breaking change which fixes an issue)

☒ New feature (non-breaking change which adds functionality)

☐ Breaking change (fix or feature that would cause existing functionality to change)

Motivation and Context / Related issue

How Has This Been Tested (if it applies)

Checklist


☒ The documentation is up-to-date with the changes I made.

☒ I have read the **CONTRIBUTING** document and completed the CLA (see **CONTRIBUTING**).

☒ All tests passed, and additional code has been covered with new tests.

When you confirm, then the pull request will be created.

Possibly, a gentle bot might ask you to confirm your agreement, through signing a CLA:

 facebook-github-bot commented 6 minutes ago

Member 😊 ...

Hi @9-si!

Thank you for your pull request and welcome to our community. We require contributors to sign our Contributor License Agreement, and we don't seem to have you on file.

In order for us to review and merge your code, please sign at <https://code.facebook.com/cla>. **If you are contributing on behalf of someone else (eg your employer)**, the individual CLA may not be sufficient and your employer may need to sign the corporate CLA.

If you have received this in error or have any questions, please contact us at cla@fb.com. Thanks!

You are done!

Then the owners will accept the pull request or not, or, the most likely case, request some modifications before accepting the pull request. You are done!

