
MSML 605 - Lecture 9

Version Control - Contd.

Remote branches

- *Create and switch to a new branch*

```
git checkout -b devops
```

- *Now add a new file and commit it*
- *Push this new branch to the remote repository*

```
git push -u origin devops
```

```
Username for 'https://github.com': nayeemz  
Password for 'https://nayeemz@github.com':  
Enumerating objects: 4, done.  
Counting objects: 100% (4/4), done.  
Delta compression using up to 4 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 397 bytes | 198.00 KiB/s, done.  
Total 3 (delta 0), reused 0 (delta 0)  
remote:  
remote: Create a pull request for 'devops' on GitHub by visiting:  
remote:   https://github.com/nayeemz/test/pull/new/devops  
remote:  
To https://github.com/nayeemz/test.git  
 * [new branch]      devops -> devops  
Branch 'devops' set up to track remote branch 'devops' from 'origin'.
```

Remote Master

- *Add a file and commit on master remotely (Github)*
- *Switch to the master branch* `git checkout master`
- *Pull the master repository* `git pull`

```
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/nayeemz/test
   71020b5..4fc66d4  master    -> origin/master
Updating 71020b5..4fc66d4
Fast-forward
 testscript.py | 2 ++
 1 file changed, 2 insertions(+)
 create mode 100644 testscript.py
```

Log tree

- Check the log tree

```
git log --graph --oneline --all
```

```
* 4fc66d4 (HEAD -> master, origin/master, origin/HEAD) Create testscript.py
| * eceeld2 (origin/devops, devops) Added a script to add first N natural number
S
|/
* 71020b5 Merged the changes from local and remote
|\
| * e81cc08 Update README.md
* | bd79b98 Added a line to test conflicts
|/
* 53ec7d8 Update README.md
* e2da63b Added two lines to README.md file
* 2ecc9ac Initial commit
```

Rebase the master and branch

- Check out the branch `git checkout devops`

- Rebase / merge with the master `git rebase master`

```
First, rewinding head to replay your work on top of it...
Applying: Added a script to add first N natural numbers
```

- Look at the log graph again `git log --graph --oneline --all`

```
* b188470 (HEAD -> devops) Added a script to add first N natural numbers
* 4fc66d4 (origin/master, origin/HEAD, master) Create testscript.py
| * eceeld2 (origin/devops) Added a script to add first N natural numbers
|/
| * 71020b5 Merged the changes from local and remote
| \
| * e81cc08 Update README.md
| * | bd79b98 Added a line to test conflicts
|/
* 53ec7d8 Update README.md
* e2da63b Added two lines to README.md file
* 2ecc9ac Initial commit
```

Merge master and branch

- *Check out master*

```
git checkout master
```

- *Merge with the branch*

```
git merge devops
```

```
Updating 4fc66d4..b188470
Fast-forward
 new_script.py | 6 ++++++
 1 file changed, 6 insertions(+)
 create mode 100644 new_script.py
(base) Mohammads-MBP:test nayeem$ git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

- *Push the changes to the remote repository and delete*

```
git push --delete origin devops
```

- *Delete locally too*

```
git branch -d devops
```

Rebase again

- *Add a new function to a file*
- *Stage and commit it*

```
$ git commit -a -m'Added a function to find the power of number'
```



Forks

- Go to *TopDeepLearning Projects Github* page

The screenshot shows the GitHub interface for the repository 'aymericdamien / TopDeepLearning'. At the top, there are buttons for 'Watch' (353), 'Star' (4.9k), and 'Fork' (1k). Below this is a navigation bar with 'Code', 'Issues' (8), 'Pull requests' (7), 'Actions', 'Projects' (0), 'Wiki', 'Security' (0), and 'Insights'. The current file is 'TopDeepLearning / README.md' on the 'master' branch. A commit by 'aymericdamien' is shown, updating the 'list' with 7 contributors on August 16, 2019. The file details show 346 lines (344 sloc) and 46.6 KB. The README content includes the title 'Top Deep Learning Projects', a description 'A list of popular github projects related to deep learning (ranked by stars).', and the last update date '2019.08.15'.

- Try to edit a file

Forks

- Try to edit a file

You're editing a file in a project you don't have write access to. We've **created a fork of this project** for you to commit your proposed changes to. Submitting a change to this file will write it to a new branch in your fork, so you can send a pull request.

TopDeepLearning /

README.md

Cancel

<> Edit file

Preview changes

Spaces

2

Soft wrap

```
1 # Top Deep Learning Projects
2 A list of popular github projects related to deep learning (ranked by stars).
3
4 Last Update: 2019.08.15
5
6 | Project Name | Stars | Description |
7 | ----- | ----- | ----- |
8 |[tensorflow](https://github.com/tensorflow/tensorflow)|133k|An Open Source Machine Learning Framework for Everyone|
9 |[models](https://github.com/tensorflow/models)|56.5k|Models and examples built with TensorFlow|
```

Forks

 nayeemz / TopDeepLearning

 Watch ▾ 0

 Star 0

 Fork 1k

forked from [aymericdamien/TopDeepLearning](#)

 Code

 Pull requests 0

 Actions

 Projects 0

 Wiki

 Security 0

 Insights

 Settings

A list of popular github projects related to deep learning

Edit

[Manage topics](#)

 28 commits

 1 branch

 0 packages

 0 releases

 7 contributors

 MIT

Branch: master ▾

New pull request


Create new file

Upload files

Find file

Clone or download ▾

This branch is even with aymericdamien:master.

 Pull request

 Compare

 aymericdamien update list

Latest commit fbe8d7a on Aug 16, 2019

 [scripts](#)

update

9 months ago

 [LICENSE](#)

Initial commit

4 years ago

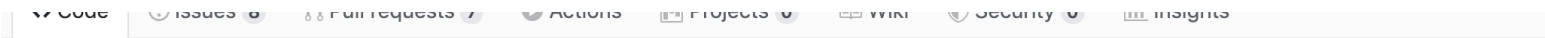
 [README.md](#)

update list

9 months ago

Pull Request

- Changes you send to the repository owner to incorporate in their repository



Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base repository: aymericdamien/TopDeepLea... base: master ← head repository: nayeemz/TopDeepLearning compare: master

✓ **Able to merge.** These branches can be automatically merged.

[Create pull request](#) Discuss and review the changes in this comparison with others.

2 commits 1 file changed 0 commit comments 1 contributor


Commits on May 05, 2020

nayeemz	Update README.md	Verified	957d5c0
nayeemz	Update README.md	Verified	7cd6e3

Create Pull Request

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

 base repository: `aymericdamien/TopDeepLea...` ▼ base: `master` ▼ ← head repository: `nayeemmz/TopDeepLearning` ▼ compare: `master` ▼

✓ **Able to merge.** These branches can be automatically merged.



Added a line for `Theano`


Write

Preview

AA B i “ <> ↻ ☰ ☷ ✓ @ 📌 ↶

Leave a comment

Attach files by dragging & dropping, selecting or pasting them. 

Allow edits and access to secrets by maintainers 

Create pull request ▼


Helpful resources

[GitHub Community Guidelines](#)

Create Pull Request

Added a line for Theano #29

Edit

 **Open** nayeemmz wants to merge 2 commits into `aymericdamien:master` from `nayeemmz:master` 

 Conversation **0**

 Commits **2**

 Checks **0**

 Files changed **1**

+2 -0 



nayeemmz commented now  

No description provided.



nayeemmz added 2 commits 8 minutes ago



 Update README.md

Verified

957d5c0



 Update README.md 

Verified

7cdd6e3

Add more commits by pushing to the **master** branch on **nayeemmz/TopDeepLearning**.



This branch has no conflicts with the base branch

Only those with [write access](#) to this repository can merge pull requests.

Reviewers

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Make a local copy

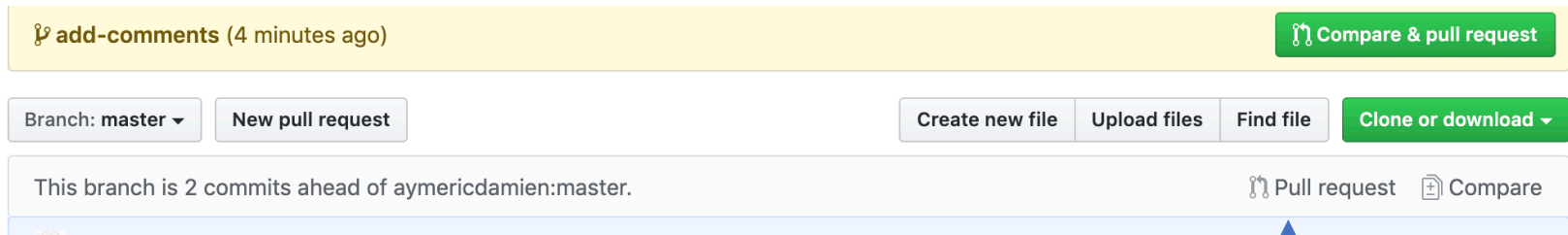
- *You can also create a fork from the GUI itself*
 - *Make a local copy by: `git clone <repository url>`*
 - *Check log: `git log`*
-

Fork - Changes

- *To make changes to forked repository*
 - *Create a branch : git checkout -b add-comments*
 - *Create a new comments file, comments.md*
 - *git add comments.md*
 - *git commit -m "Add a new comments file"*
-

Fork - Changes


- *Add a new branch on the remote repository*
git push -u origin add-comments



- *You can make a pull request using the link*

Pull Request

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).


 base repository: [aymericdamien/TopDeepLea...](#) ▾ base: [master](#) ▾ ← head repository: [nayeemmz/TopDeepLearning](#) ▾ compare: [master](#) ▾

✓ **Able to merge.** These branches can be automatically merged.

 **Added a line for Theano #29** [View pull request](#)

No description available

 **2** commits  **1** file changed  **0** commit comments  **1** contributor

 Commits on May 05, 2020

-   **nayeemmz** Update README.md [Verified](#) 957d5c0
-   **nayeemmz** Update README.md [Verified](#) 7cdd6e3

 Showing **1 changed file** with **2 additions** and **0 deletions**.

[Unified](#) [Split](#)

Code Review

- *Checking someone else' code*

<https://smartbear.com/learn/code-review/what-is-code-review/>

<https://help.github.com/en/github/collaborating-with-issues-and-pull-requests/about-pull-request-reviews>

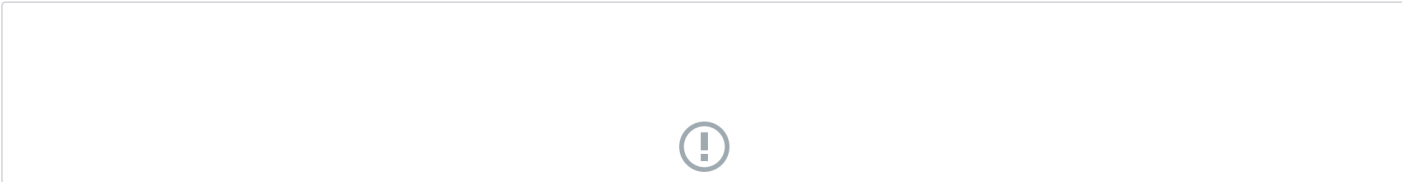
<https://medium.com/osedea/the-perfect-code-review-process-845e6ba5c31>

Tracking Issues

nayeemz / test Private Watch 0 Star 0 Fork 0

[Code](#) [Issues 0](#) [Pull requests 0](#) [Actions](#) [Projects 0](#) [Security 0](#) [Insights](#) [Settings](#)

Filters Labels 9 Milestones 0 [New issue](#)



nayeemz / test Private Watch 0 Star 0 Fork 0

[Code](#) [Issues 0](#) [Pull requests 0](#) [Actions](#) [Projects 0](#) [Security 0](#) [Insights](#) [Settings](#)



Update documentation

Write Preview **AA** **B** *i* **“** **<** **>** **↻** **☰** **☰** **☰** **@** **📌** **↶**

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Assignees

No one—assign yourself

Labels

None yet

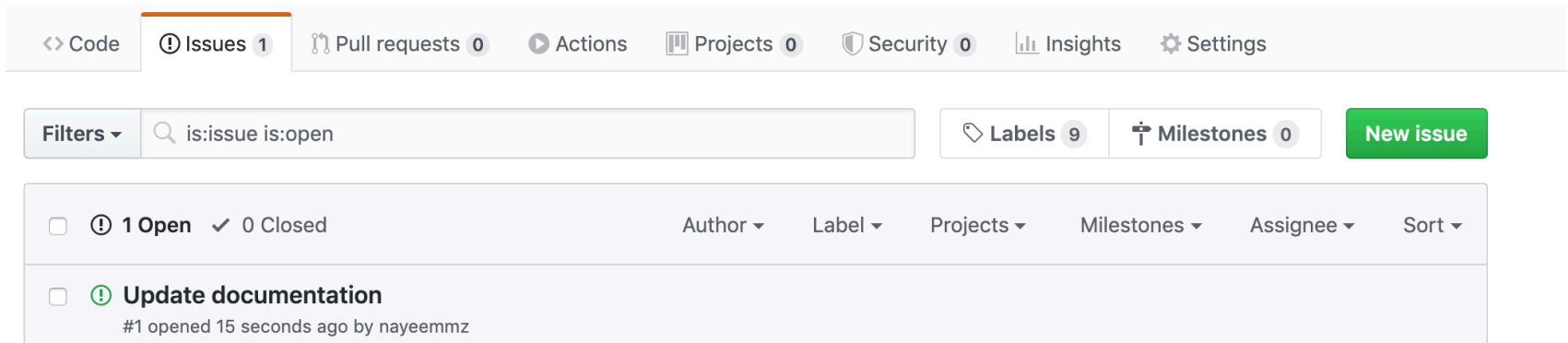
Projects

None yet

Milestone

No milestone

Tracking Issues



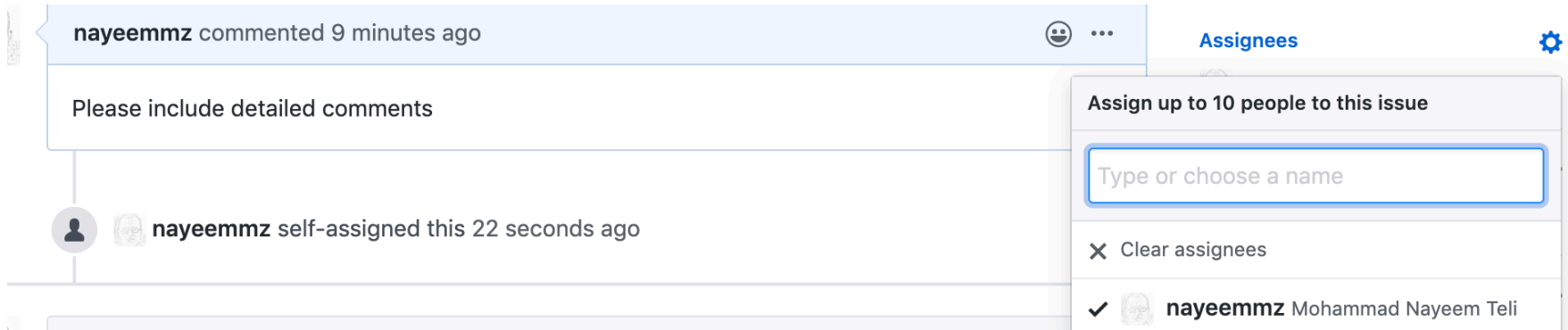
The screenshot shows the GitHub interface for tracking issues. At the top, there are navigation tabs: Code, Issues (1), Pull requests (0), Actions, Projects (0), Security (0), Insights, and Settings. Below the navigation is a search bar with the filter 'is:issue is:open' and buttons for 'Labels 9' and 'Milestones 0'. A green 'New issue' button is on the right. The main content area shows a list of issues with columns for Author, Label, Projects, Milestones, Assignee, and Sort. The first issue is 'Update documentation' with a green exclamation mark icon, opened 15 seconds ago by nayeemz.

- *As a part of the commit message you can close an issue by using:
Closes: #1 (issue number)*
- *When the code is merged to the main tree, Github will automatically close the issue.*



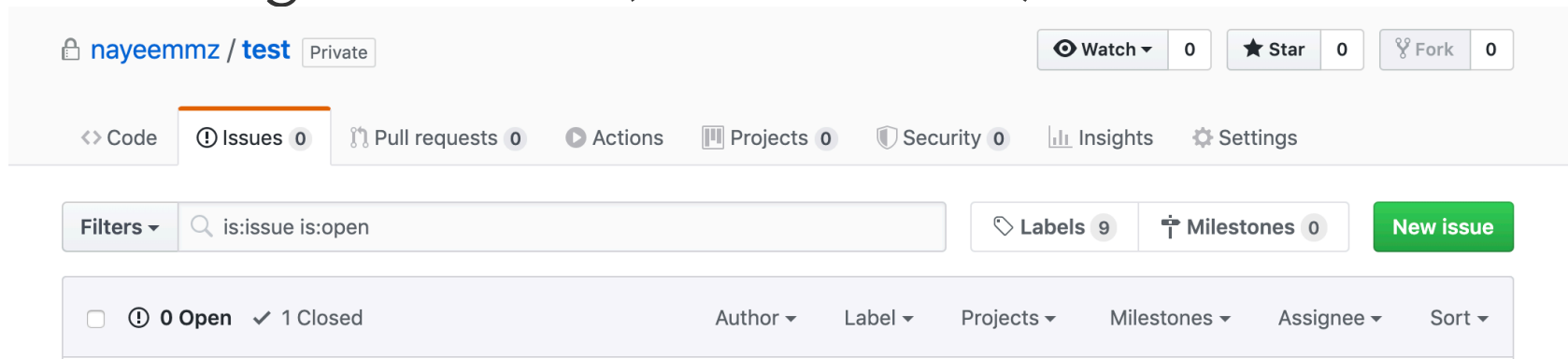
Tracking Issues

- Assign the issue



The screenshot shows a GitHub issue comment from user 'nayeemmz' stating 'Please include detailed comments'. Below the comment, the user has self-assigned the issue. An 'Assignees' panel is open on the right, showing a search box with the text 'Type or choose a name', a 'Clear assignees' button, and a list of assignees including 'nayeemmz Mohammad Nayeem Teli'.

- Update documentation with the commit message including Closes #1 (issue number)



The screenshot shows the GitHub repository navigation bar for 'nayeemmz / test' (Private). It includes buttons for 'Code', 'Issues' (0), 'Pull requests' (0), 'Actions', 'Projects' (0), 'Security' (0), 'Insights', and 'Settings'. Below the navigation bar, there are filters for 'is:issue is:open', 'Labels' (9), and 'Milestones' (0). A 'New issue' button is visible. At the bottom, there is a summary bar showing '0 Open' and '1 Closed' issues, along with dropdown menus for 'Author', 'Label', 'Projects', 'Milestones', 'Assignee', and 'Sort'.