

Git & Github

- Git is an open source version control language, developed in 2005.
- GitHub is a cloud-based hosting service that lets you manage Git repositories
 - Extremely widely used in the industry
 - Similar to Dropbox, OneDrive, but is more sophisticated for collaborative work: version control

Git & Github

- The files are stored in a “repository”, or “repo” that are simply folders containing the files for a project.
- Suppose you want to contribute to the TheGreatestApp repo.
 - You first “fork” the repo, which is a way to “clone” the original repo files, which creates an identical repo under your account’s name.

Git & Github

- You work on your great idea to improve the app locally, and edit the files in your clone repo.
- Once you are done, you first “commit” your changes.
 - Committing basically is a manual way of overwriting files.
- Then you push your changes to your clone repo such that the files are modified and uploaded.

Git & Github

- Note that nothing has happened to the original repo so far.
- You finally send a “pull request” to the owner of the original repo.
 - A pull request automatically shows the account owner what changes you have made in a nice intuitive side-by-side window.
 - You can add a message at this stage and communicate.

Git & Github

Open eford wants to merge 1 commit into PsuAstro528:main from eford:ex1

Conversation 0 Commits 1 Checks 1 Files changed 2 +369 -120

Changes from all commits File filter... Clear filters Jump to... Settings 0 / 2 files viewed Review changes

> 481 ex1.ipynb

Viewed ...

8 ex1.jmd

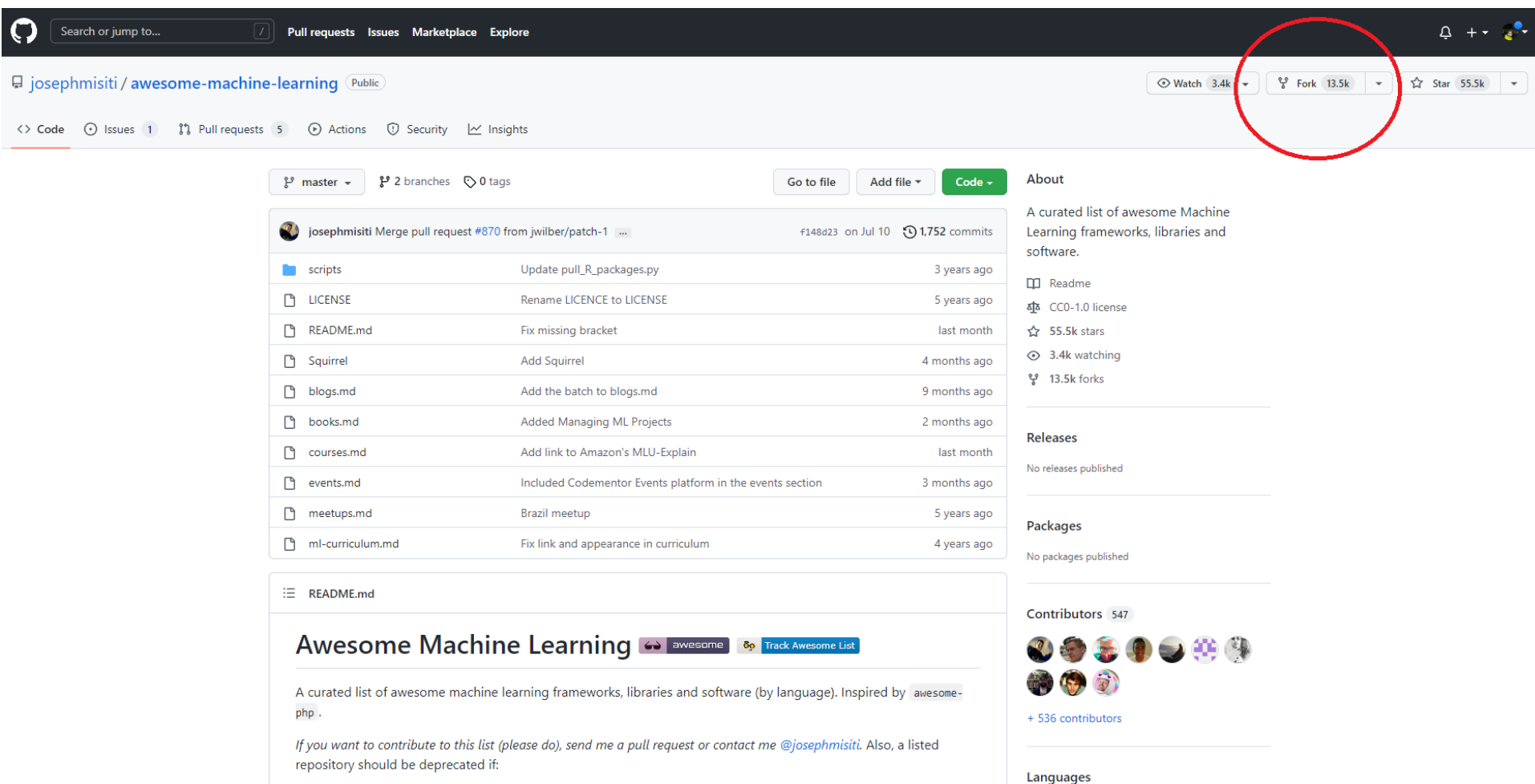
Viewed ...

↑ ... @@ -42,8 +42,8 @@ plot_parabola(a,b,c)	
42	42
43 ```julia	43 ```julia
44 # TODO: Replace with your response to question 1.	44 # TODO: Replace with your response to question 1.
45 - q1_root1 = 0	45 + q1_root1 = 1
46 - q1_root2 = 0	46 + q1_root2 = 2;
47 ...	47 ...
48	48
49 We can rewrite $f(x)$ as $f(x) = a(x-h)^2 + k$,	49 We can rewrite $f(x)$ as $f(x) = a(x-h)^2 + k$,
@@ -54,8 +54,8 @@ where $h = \frac{-b}{2a}$ is the value of x that minimizes $f(x)$ and $k = ah^2$	
54 ```julia	54 ```julia
55 # TODO: Update code below with your response to question 2.	55 # TODO: Update code below with your response to question 2.
56 function vertex(a,b,c)	56 function vertex(a,b,c)

Git & Github

- After setting your own local repo via “fork”
 - commit
 - push
 - pull request

Git & Github



Search or jump to... / Pull requests Issues Marketplace Explore

josephmisiti / awesome-machine-learning Public

Watch 3.4k Fork 13.5k Star 55.5k

<> Code Issues 1 Pull requests 5 Actions Security Insights

master 2 branches 0 tags

Go to file Add file Code

josephmisiti Merge pull request #870 from jwilber/patch-1 f148d23 on Jul 10 1,752 commits

scripts	Update pull_R_packages.py	3 years ago
LICENSE	Rename LICENCE to LICENSE	5 years ago
README.md	Fix missing bracket	last month
Squirrel	Add Squirrel	4 months ago
blogs.md	Add the batch to blogs.md	9 months ago
books.md	Added Managing ML Projects	2 months ago
courses.md	Add link to Amazon's MLU-Explain	last month
events.md	Included Codementor Events platform in the events section	3 months ago
meetups.md	Brazil meetup	5 years ago
ml-curriculum.md	Fix link and appearance in curriculum	4 years ago

README.md

Awesome Machine Learning

awesome Track Awesome List

A curated list of awesome machine learning frameworks, libraries and software (by language). Inspired by awesome-php.

If you want to contribute to this list (please do), send me a pull request or contact me @josephmisiti. Also, a listed repository should be deprecated if:

About

A curated list of awesome Machine Learning frameworks, libraries and software.

Readme
CC0-1.0 license
55.5k stars
3.4k watching
13.5k forks

Releases

No releases published

Packages

No packages published

Contributors 547

+ 536 contributors

Languages

Git & Github

The screenshot shows the GitHub interface for the repository `ernbilen/awesome-machine-learning`. A red circle highlights the repository name in the top navigation bar. Another red circle highlights the `Open with GitHub Desktop` option in the 'Clone' dropdown menu. The repository is a fork of `josephmisiti/awesome-machine-learning`. The file list shows various markdown files and a `scripts` directory. The right sidebar contains sections for 'About', 'Releases', 'Packages', and 'Languages'.

Repository: ernbilen / awesome-machine-learning (Public)
forked from josephmisiti/awesome-machine-learning

Navigation: Code, Pull requests, Actions, Projects, Security, Insights, Settings

Clone Options: Clone (HTTPS, SSH, GitHub CLI), Open with GitHub Desktop, Download ZIP

File List:

File	Commit Message	Time Ago
scripts	Update pull_R_packages.py	
LICENSE	Rename LICENCE to LICENSE	
README.md	Fix missing bracket	
Squirrel	Add Squirrel	
blogs.md	Add the batch to blogs.md	9 months ago
books.md	Added Managing ML Projects	2 months ago
courses.md	Add link to Amazon's MLU-Explain	last month
events.md	Included Codementor Events platform in the events section	3 months ago
meetups.md	Brazil meetup	5 years ago
ml-curriculum.md	Fix link and appearance in curriculum	4 years ago

About: A curated list of awesome Machine Learning frameworks, libraries and software.

Releases: No releases published. [Create a new release](#)

Packages: No packages published. [Publish your first package](#)

Languages: Python 100.0%

Git & Github

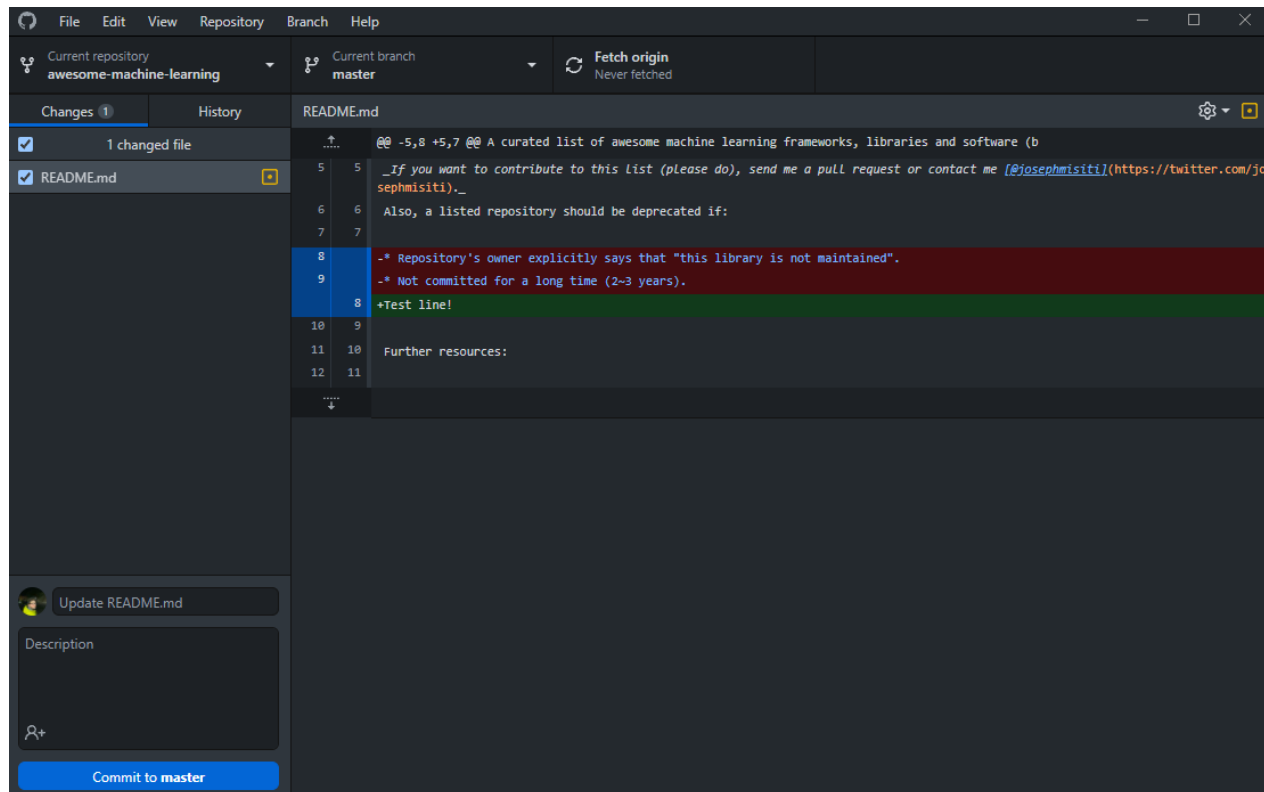
- You can use browser, GitHub Desktop App, or command line to interact with your repo

The screenshot shows the GitHub web interface for the repository `ernbilen / awesome-machine-learning`. The repository is public and forked from `josephmisiti/awesome-machine-learning`. The `Code` dropdown menu is open, showing options to clone the repository using HTTPS, SSH, or GitHub CLI, or to open it with GitHub Desktop. The `Open with GitHub Desktop` option is circled in red. The repository has 13.5k forks and 0 stars. The file list shows various markdown files and a `scripts` directory.

File	Commit Message	Time Ago
<code>scripts</code>	Update pull_R_packages.py	
<code>LICENSE</code>	Rename LICENCE to LICENSE	
<code>README.md</code>	Fix missing bracket	
<code>Squirrel</code>	Add Squirrel	
<code>blogs.md</code>	Add the batch to blogs.md	9 months ago
<code>books.md</code>	Added Managing ML Projects	2 months ago
<code>courses.md</code>	Add link to Amazon's MLU-Explain	last month
<code>events.md</code>	Included Codementor Events platform in the events section	3 months ago
<code>meetups.md</code>	Brazil meetup	5 years ago
<code>ml-curriculum.md</code>	Fix link and appearance in curriculum	4 years ago

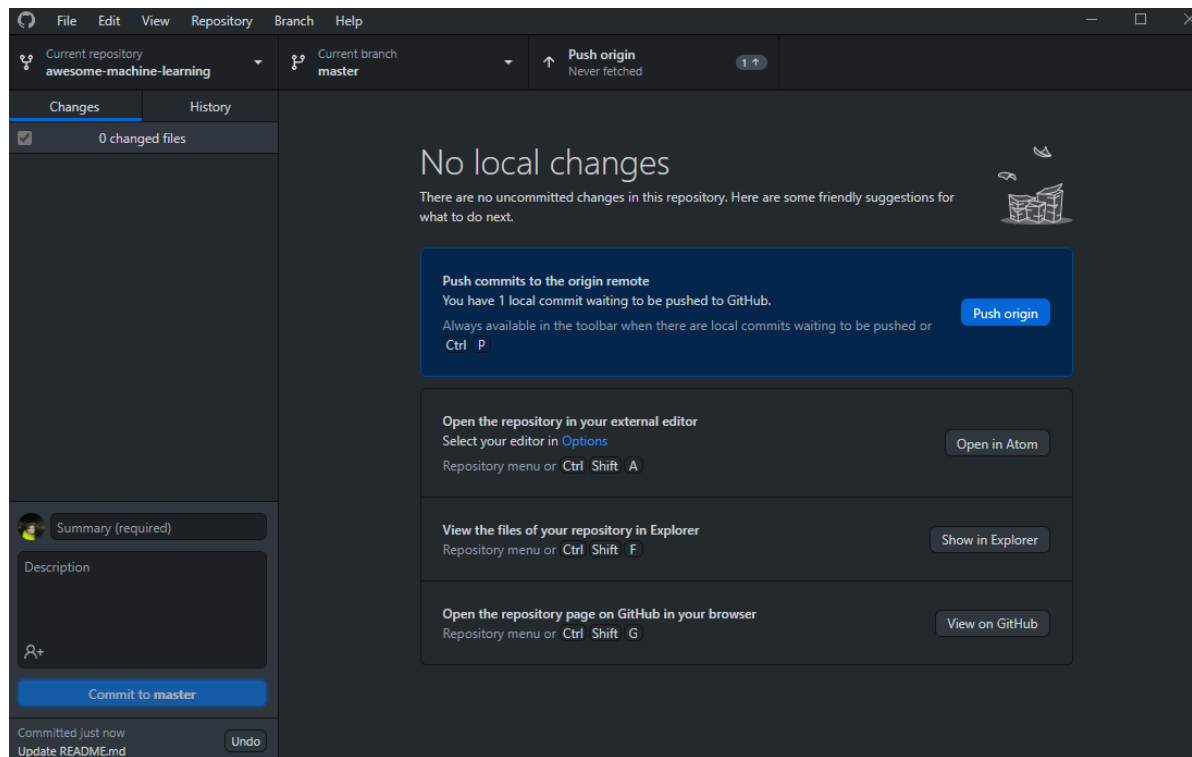
Git & Github

- Edits will be displayed on the interface, after which you can press “commit to master”, i.e. to your local repository.



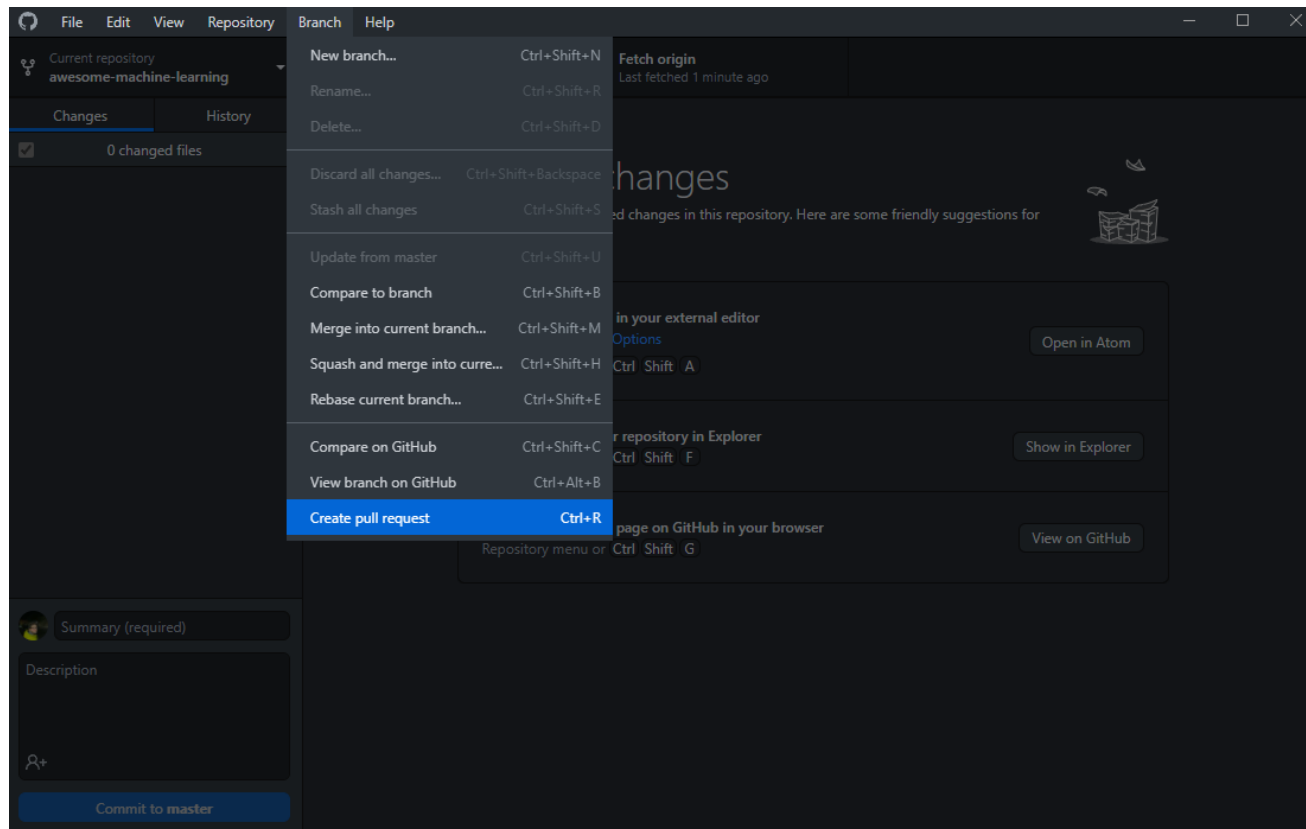
Git & Github

- You are now ready to “push commits to the origin remote”, this time to your “cloud” repository.



Git & Github

- To send your changes to the owner of the original repo, click on “create pull request”.




Git & Github

- You can write a comment and explain your reasoning in updating the code on this screen.

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: josephmisiti/awesome-machin...
✓ Able to merge. These branches can be automatically merged.

base: master

←


head repository: ernbilien/awesome-machine-le...
compare: master

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

→ 1 commit 1 file changed 1 contributor

Commits on Aug 13, 2022

Update README.md
ernbilien committed 6 minutes ago

 f41781c <>

Showing 1 changed file with 1 addition and 2 deletions.

Split Unified

3 README.md

@@ -5,8 +5,7 @@ A curated list of awesome machine learning frameworks, libraries and software (b

5 _If you want to contribute to this list (please do), send me a pull request or contact me [[@josephmisiti](#)]

6 (https://twitter.com/josephmisiti).
7 Also, a listed repository should be deprecated if:
8 - * Repository's owner explicitly says that "this library is not maintained".
9 - * Not committed for a long time (2-3 years).
10
11 Further resources:
12

5 _If you want to contribute to this list (please do), send me a pull request or contact me [[@josephmisiti](#)]

6 (https://twitter.com/josephmisiti).
7 Also, a listed repository should be deprecated if:
8 + Test line!
9
10 Further resources:
11

Git & Github: command line

- After setting your own local repo via “fork” or “clone”
 - add files (only for command line) `>git add --all`
 - commit `>git commit -m “descriptive message”`
 - You can run `>git status` to check what files are changed
 - push `>git push`
 - pull request `>git pull`

For more git commands:

<https://about.gitlab.com/images/press/git-cheat-sheet.pdf>

Github Classroom

- We will use Github Classroom to make things more efficient and easier. (free service)
- ~~After setting your own local repo via “fork” or “clone”~~
 - You will receive an invitation email for each assignment.
 - Accepting the invitation automatically forks my repo and creates your own local clone repo.
 - You can work on your assignment in your local repo, do any edits.

Github Classroom

- Once you have your local repo, you can use the Github Desktop app, or any browser to upload your assignment via
 - commit
 - push
 - ~~– pull request:~~ Also automated. Once you push your files to your local repo, everything gets delivered automatically.

We are done! Any questions?



We are done! Any questions?



I contribute
to open source
projects on GitHub



Professional
README writer