

Git Tutorial

Some basic use cases using GitHub Desktop.

Getting Started



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GitHub Universe: A global developer event

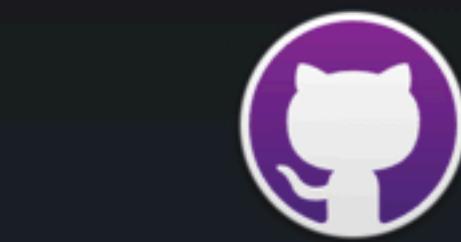
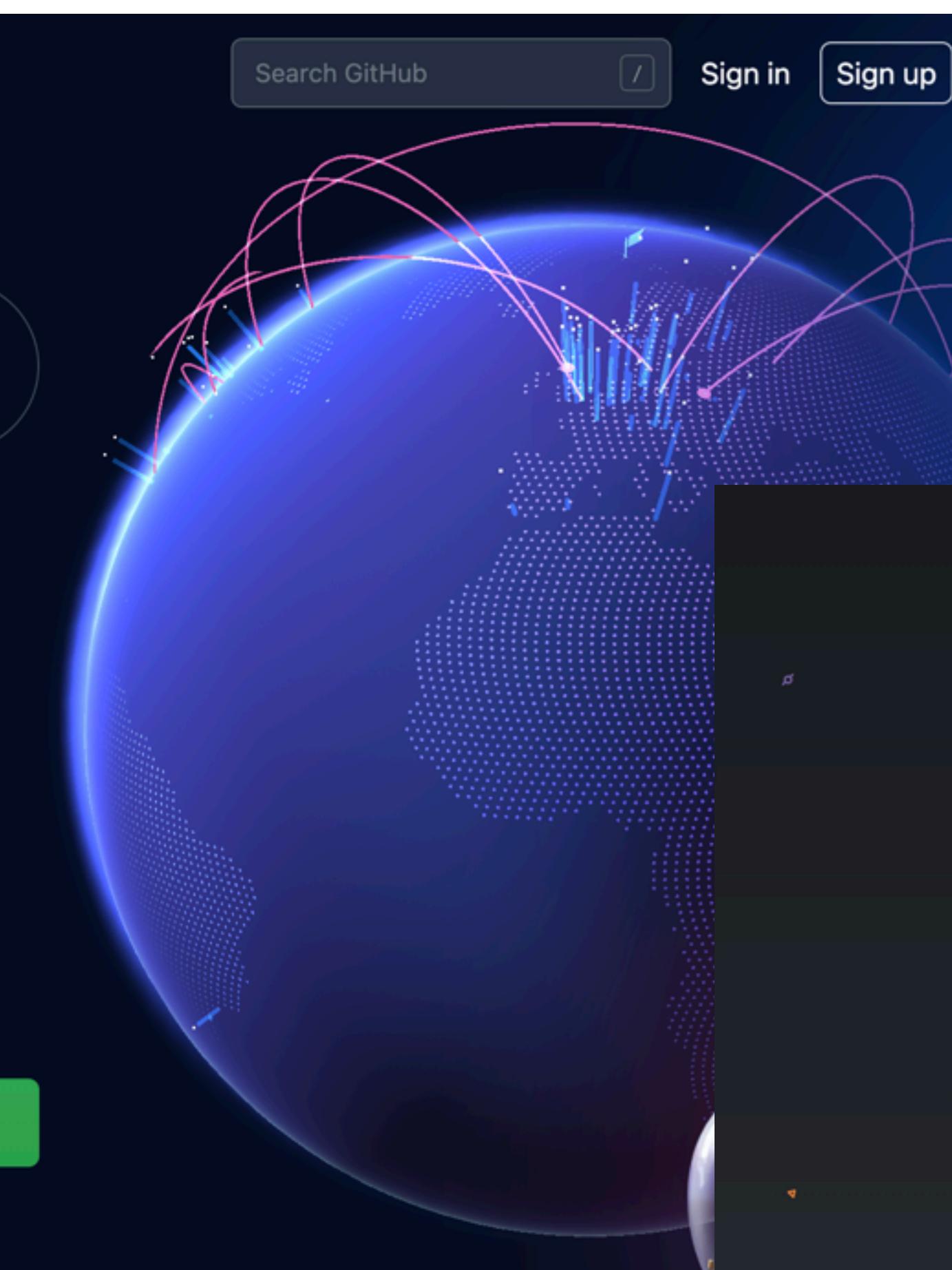
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Let's build from here, magically

The complete developer platform to build, scale, and deliver secure software.

Email address

Sign up for GitHub



Overview Release Notes Help

GitHub Desktop

Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow.

Download for macOS

Feeling brave?

Try new features in the Beta Channel before they're released.

Apple silicon?

Download for an Apple silicon Mac. See the [Apple docs](#) about Apple vs Intel chips.

Windows?

Download for Windows

By downloading, you agree to the [Open Source Applications Terms](#).

Sign up to GitHub. Download GitHub Desktop.

The screenshot shows a GitHub repository page for 'joaopfonseca/Data-Mining-22-23'. The repository is public and has 13 forks. The 'Code' tab is selected. The commit history shows several commits from 'fpontejos' and others, including 'notebooks', 'notebooks_solutions', 'ppts', '.gitignore', 'LICENSE', and 'README.rst'. The 'About' section describes the repository as class materials for the practical classes of the Msc course Data Mining taught at Nova IMS - Fall 2022/2023. It also lists the README, MIT license, 2 stars, 2 watching, and 13 forks.

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joaopfonseca / Data-Mining-22-23 Public

Notifications Fork 13 Star 2

Code Issues Pull requests Actions Projects Security Insights

main 1 branch 0 tags Go to file Code About

fpontejos add test file for git demo 7433716 24 minutes ago 9 commits

notebooks Lab 2 yesterday

notebooks_solutions Lab 2 yesterday

ppts add test file for git demo 24 minutes ago

.gitignore First commit 7 days ago

LICENSE First commit 7 days ago

README.rst Add link to git cheat sheet 7 days ago

Class materials used for the practical classes of the Msc course Data Mining taught at Nova IMS - Fall 2022/2023

Readme

MIT license

2 stars

2 watching

13 forks

Releases

Fork the repository

Clone Remote to Local

[fpontejos / Data-Mining-22-23](#) Public

forked from [joaopfonseca/Data-Mining-22-23](#)

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

[main](#) [1 branch](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

This branch is 1 commit behind joaopfonseca:main.

[Contribute](#) [Sync fork](#)

Author	Commit Message	Time	Commits
joaopfonseca Lab 2	Lab 2	yesterday	8 commits
	notebooks	yesterday	
	notebooks_solutions	yesterday	
	ppts	4 days ago	
	.gitignore	7 days ago	
	LICENSE	7 days ago	
	README.rst	7 days ago	

Your fork
(Remote Origin) on [github.com](#)

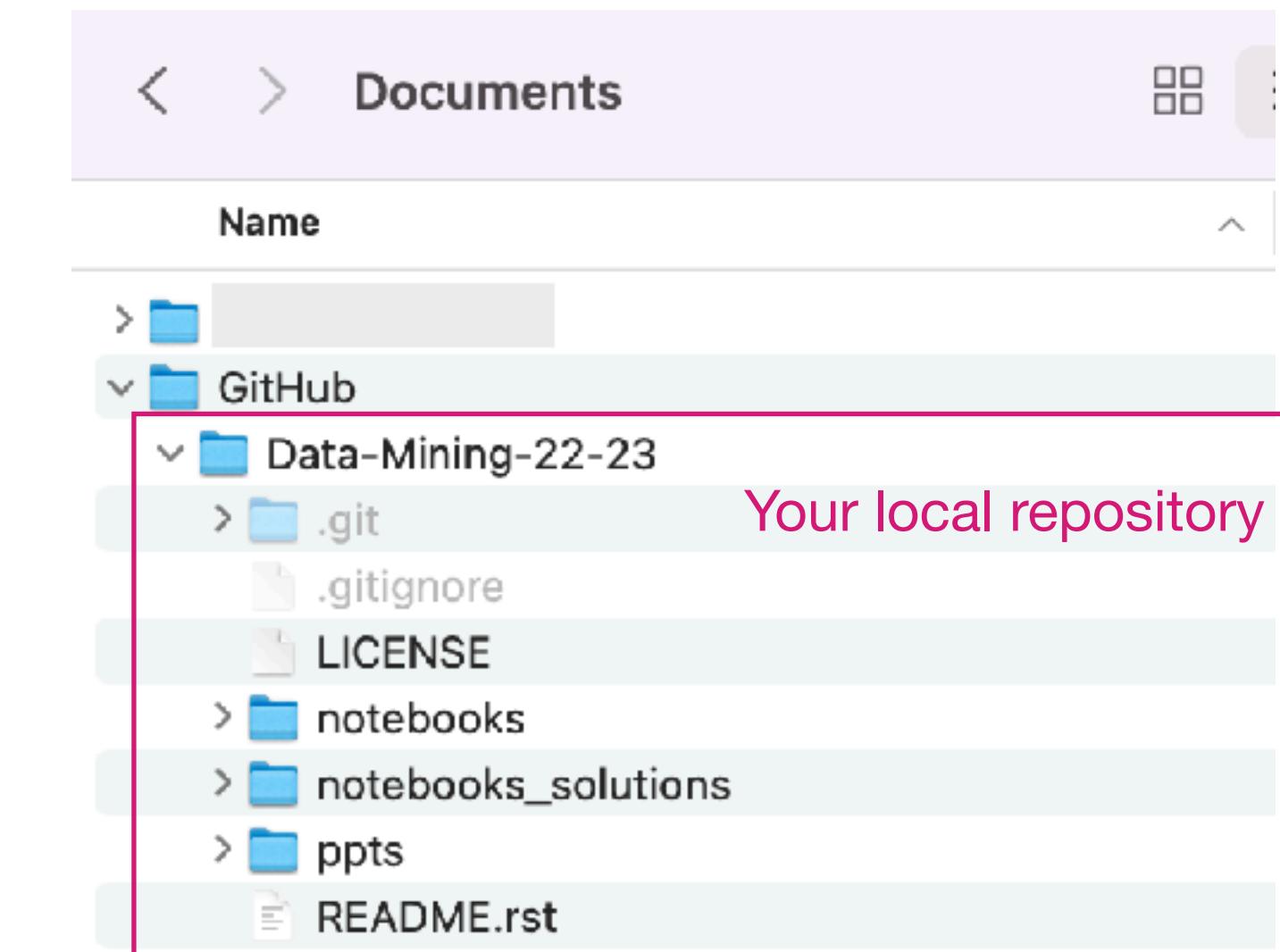
[joaopfonseca / Data-Mining-22-23](#) Public

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

[main](#) [1 branch](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

Author	Commit Message	Time	Commits
joaopfonseca Lab 2	Lab 2	22 hours ago	8 commits
	notebooks	22 hours ago	
	notebooks_solutions	22 hours ago	
	ppts	4 days ago	
	.gitignore	First commit	
	LICENSE	First commit	
	README.rst	Add link to git cheat sheet	

The repo you forked from
(Remote Upstream)



Your Local repository is the copy of your remote that exists on github that lives on your local machine

Some terminologies



Let's get started!

Add a repository to GitHub Desktop to start collaborating

Create a Tutorial Repository...

Clone a Repository from the Internet...

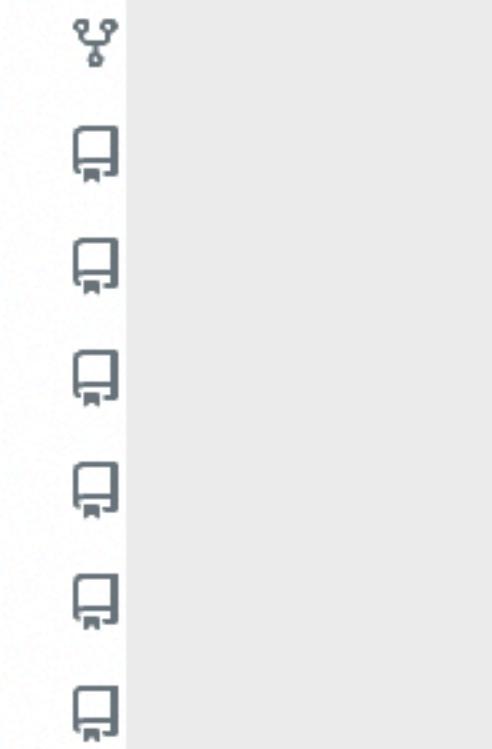
Create a New Repository on your Hard Drive...

Add an Existing Repository from your Hard Drive...

ProTip! You can drag & drop an existing repository folder here to add it to Desktop

Filter your repositories

Your Repositories



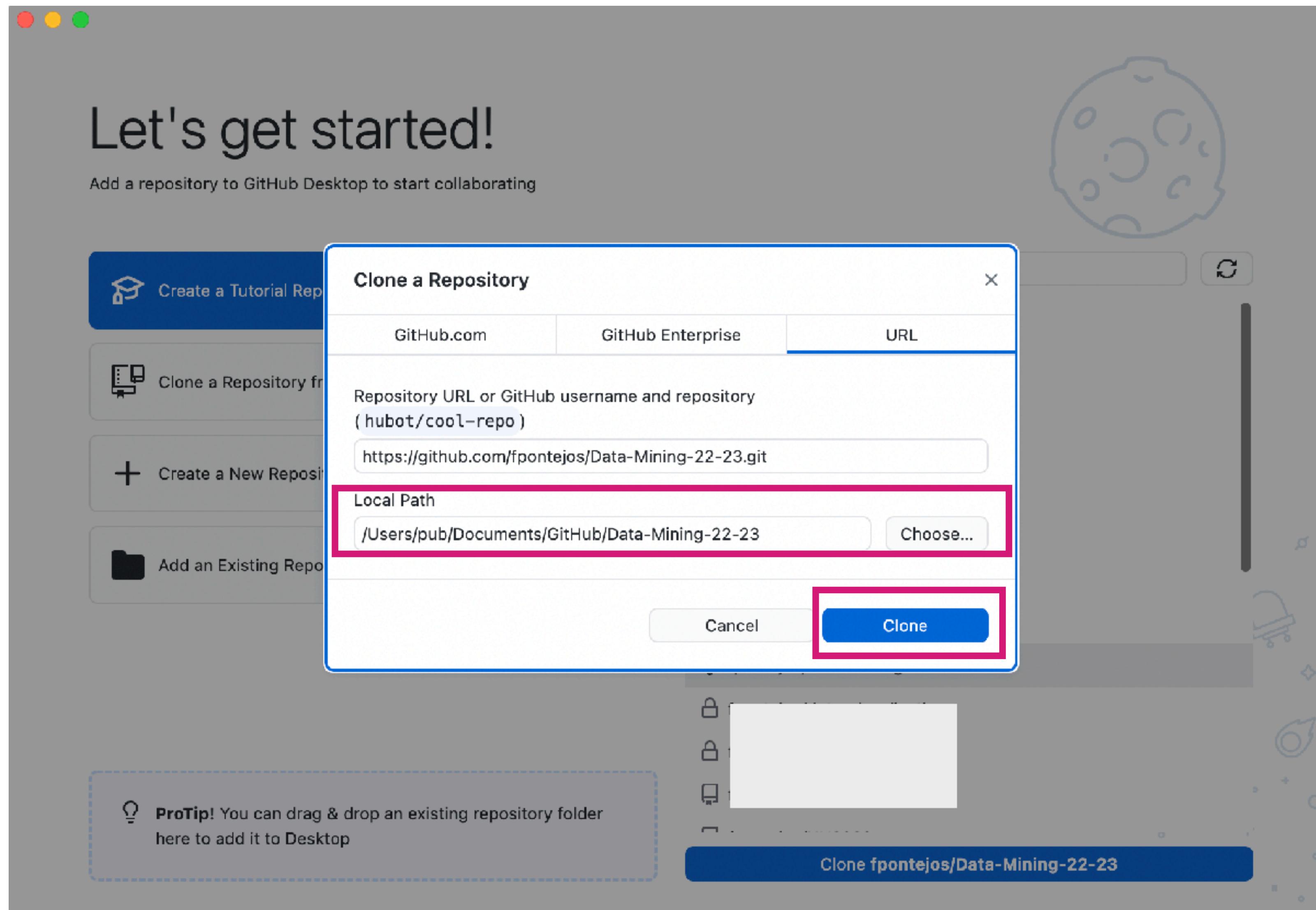
fpontejos/Data-Mining-22-23



Clone fpontejos/Data-Mining-22-23



Select the repository you want to clone



Select where you want the repository to live on your computer. Click “Clone”.

How are you planning to use this fork?

X

You have changes on this branch. What would you like to do with them?

To contribute to the parent project

We will help you contribute to the [joaopfonseca/Data-Mining-22-23](#) repository

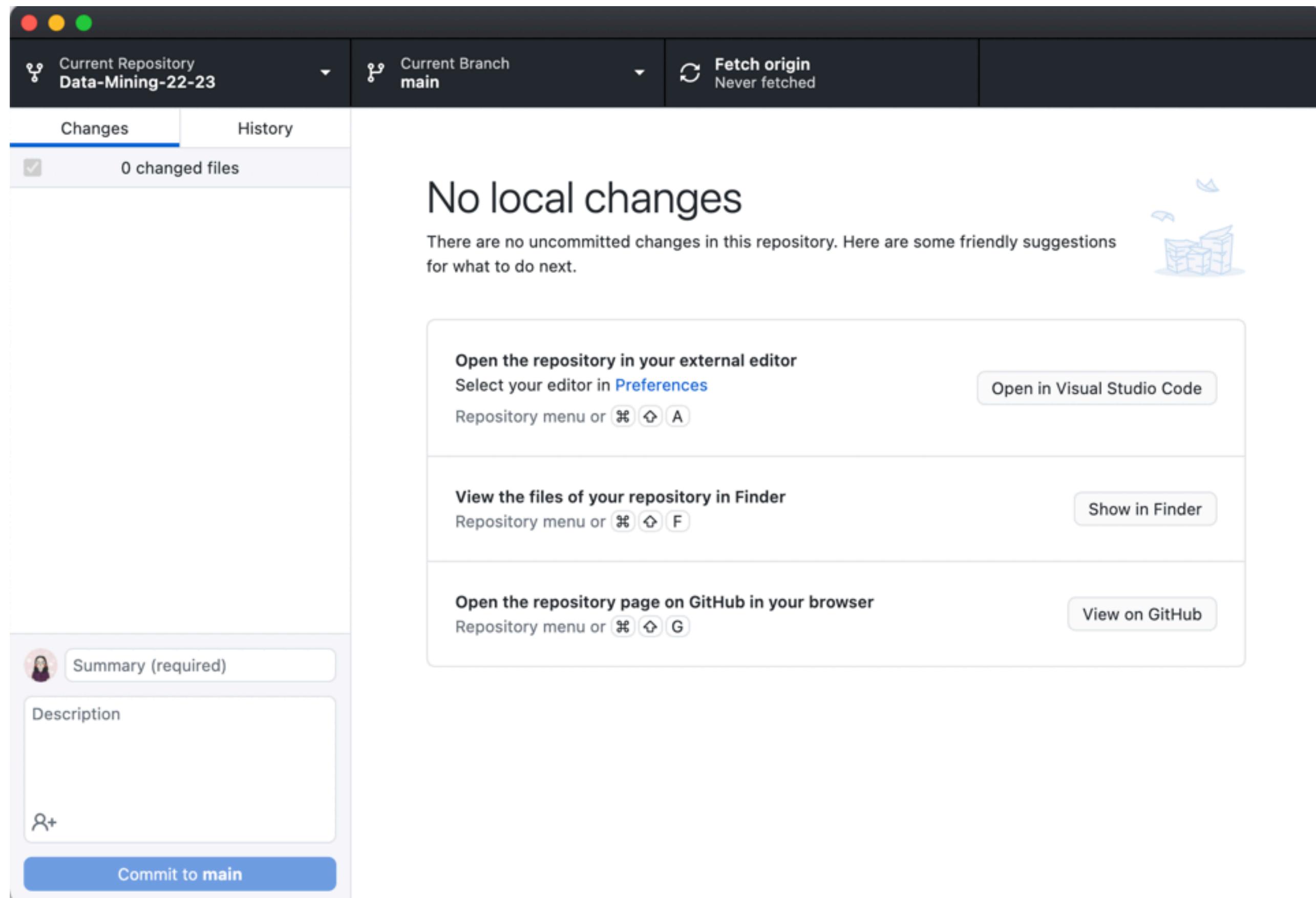
For my own purposes

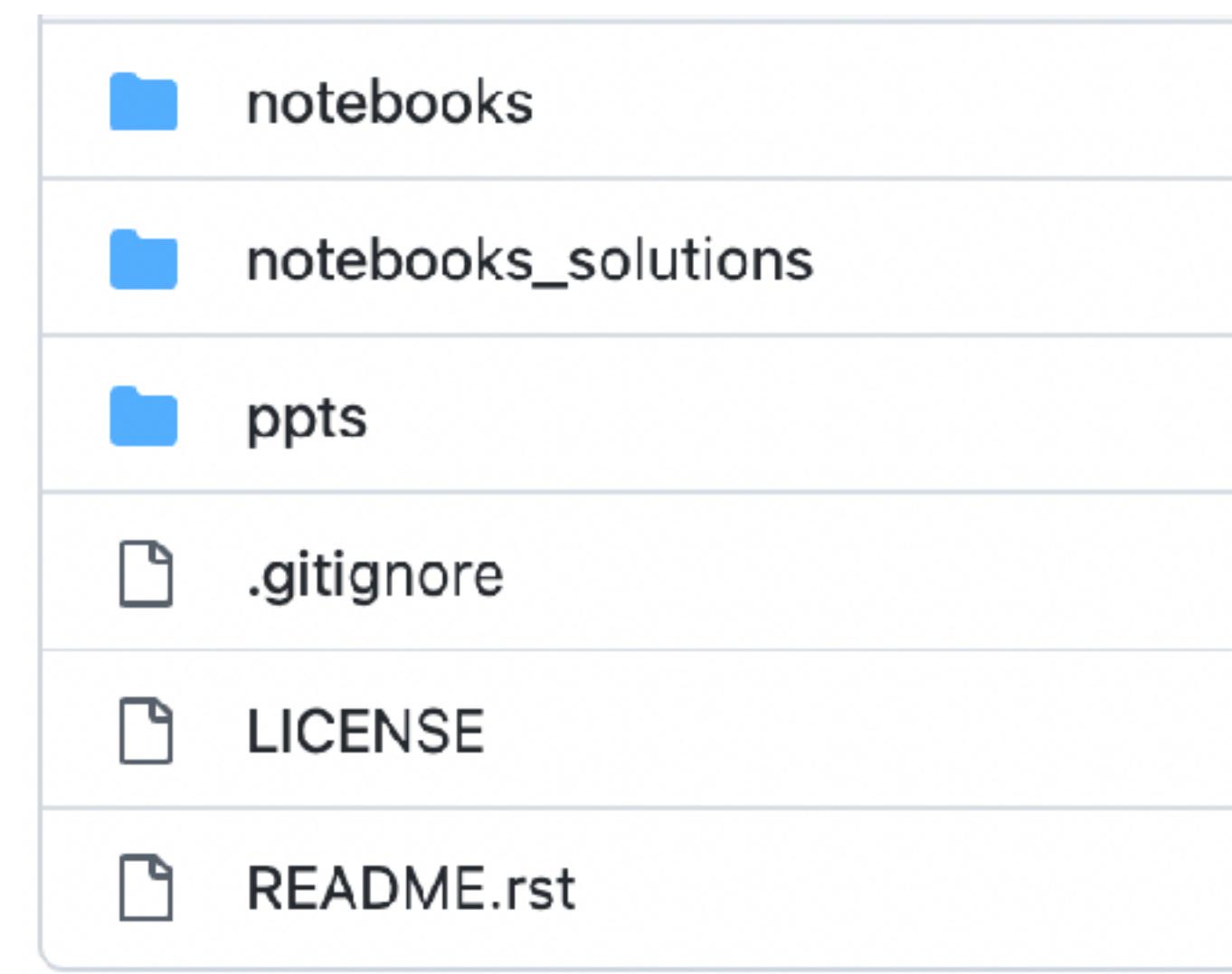
We will help you contribute to the [fpontejos/Data-Mining-22-23](#) repository

- Pull requests targeting [fpontejos/Data-Mining-22-23](#) will be shown in the pull request list.
- Issues will be created in [fpontejos/Data-Mining-22-23](#).
- "View on Github" will open [fpontejos/Data-Mining-22-23](#) in the browser.
- New branches will be based on [fpontejos/Data-Mining-22-23](#)'s default branch.
- Autocompletion of user and issues will be based on [fpontejos/Data-Mining-22-23](#).

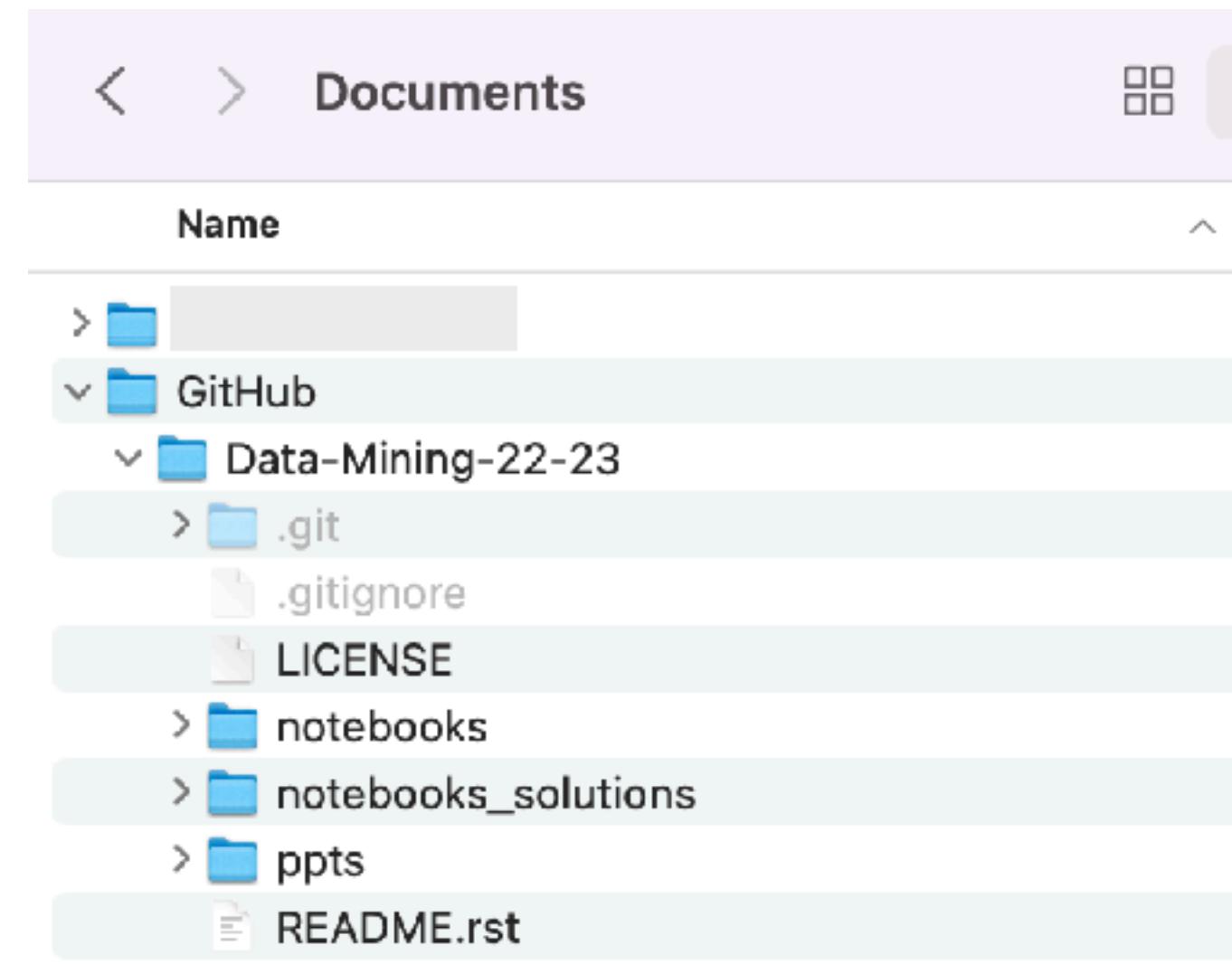
Cancel

Continue





[github.com \(remote origin\)](#)



local

**Keep up to date with upstream
(no local changes)**

[fpontejos / Data-Mining-22-23](#) Public

forked from [joaopfonseca/Data-Mining-22-23](#)

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

[main](#) [1 branch](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

This branch is 1 commit behind joaopfonseca:main.

[Contribute](#) [Sync fork](#)

Author	Commit Message	Time	Commits
joaopfonseca Lab 2	Lab 2	yesterday	8 commits
	notebooks	yesterday	
	notebooks_solutions	yesterday	
	ppts	4 days ago	
	.gitignore	First commit	
	LICENSE	First commit	
	README.rst	7 days ago	

Your fork
(Remote Origin) on [github.com](#)

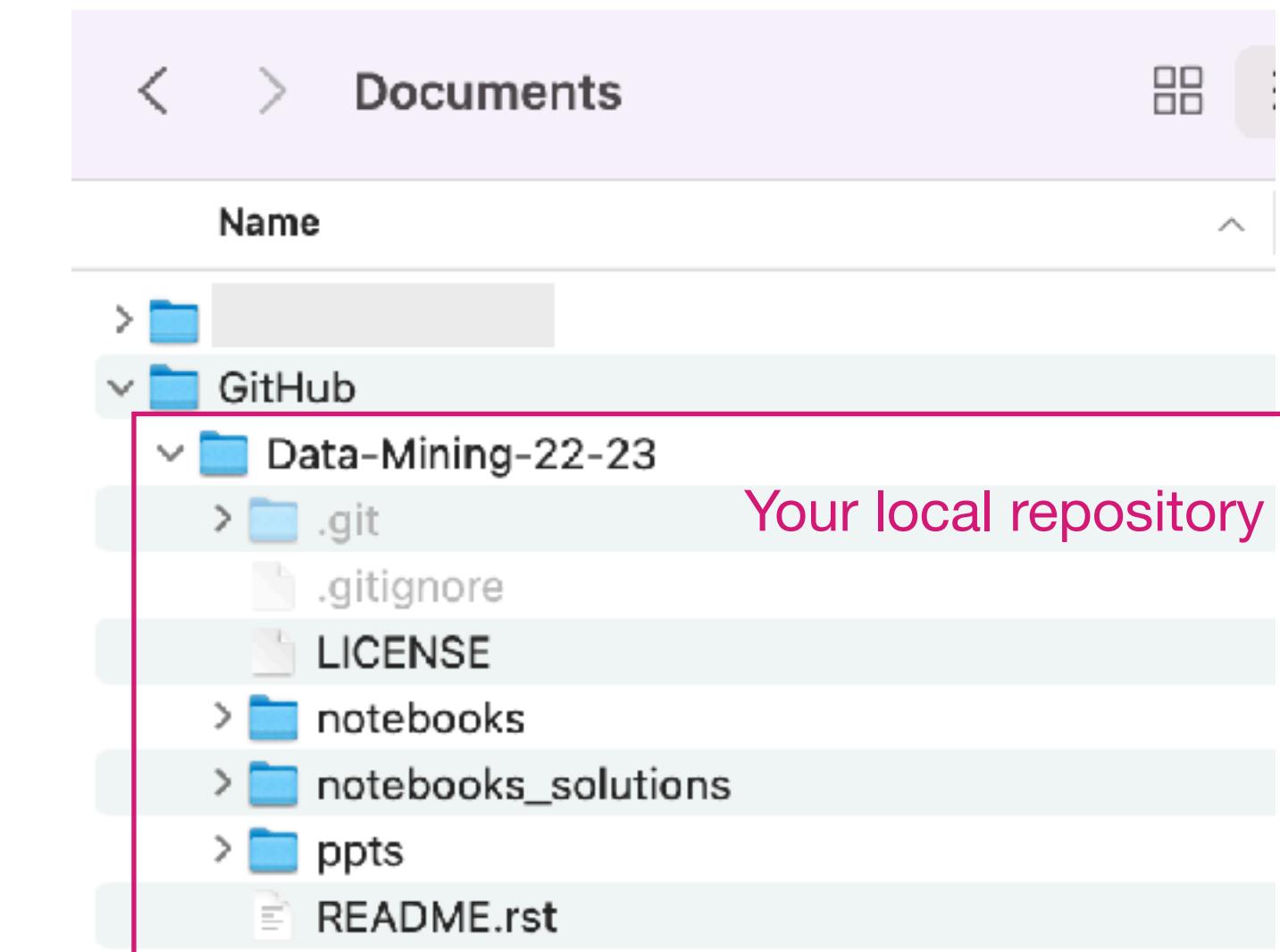
[joaopfonseca / Data-Mining-22-23](#) Public

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

[main](#) [1 branch](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

Author	Commit Message	Time	Commits
joaopfonseca Lab 2	Lab 2	22 hours ago	8 commits
	notebooks	22 hours ago	
	notebooks_solutions	22 hours ago	
	ppts	4 days ago	
	.gitignore	First commit	
	LICENSE	First commit	
	README.rst	7 days ago	

The repo you forked from
(Remote Upstream)



Your Local repository is the copy of your remote that exists on github that lives on your local machine

Some terminologies

 **fpontejos / Data-Mining-22-23** Public

forked from [joaopfonseca/Data-Mining-22-23](#)

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

[main](#) [1 branch](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

This branch is [2 commits behind](#) joaopfonseca:main.

[Contribute](#) [Sync fork](#)

 **fpontejos** Add link to git cheat sheet

	notebooks	Lab 1
	notebooks_solutions	Lab 1
	ppts	Lab 1 PPT presentation
	.gitignore	First commit
	LICENSE	First commit
	README.rst	Add link to git cheat sheet

This branch is out-of-date
Update branch to keep this branch up-to-date by syncing 2 commits from the upstream repository.
[Learn more](#)

[Compare](#) [Update branch](#)

Sync fork on GitHub

Successfully fetched and fast-forwarded from upstream joaopfonseca:main.

fponcejos / Data-Mining-22-23 Public

forked from [joaopfonseca/Data-Mining-22-23](#)

Pin

Watch 0

Code

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main ▾

1 branch

0 tags

Go to file

Add file ▾

Code ▾

This branch is up to date with [joaopfonseca/Data-Mining-22-23:main](#).

Contribute ▾ Sync fork ▾



joaopfonseca Lab 2

1c68e84 22 hours ago 8 commits

	notebooks	Lab 2	22 hours ago
	notebooks_solutions	Lab 2	22 hours ago
	ppts	Fix incorrect hyperlink	4 days ago
	.gitignore	First commit	7 days ago
	LICENSE	First commit	7 days ago
	README.rst	Add link to git cheat sheet	7 days ago

Current Repository Data-Mining-22-23

Current Branch main

Fetch origin
Last fetched 15 minutes ago

Changes History

0 changed files

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.

Open the repository in your external editor
Select your editor in [Preferences](#)

Repository menu or ⌘ ⌘ A

Open in Visual Studio Code

View the files of your repository in Finder
Repository menu or ⌘ ⌘ F

Show in Finder

Open the repository page on GitHub in your browser
Repository menu or ⌘ ⌘ G

View on GitHub

Summary (required)

Description

Commit to main

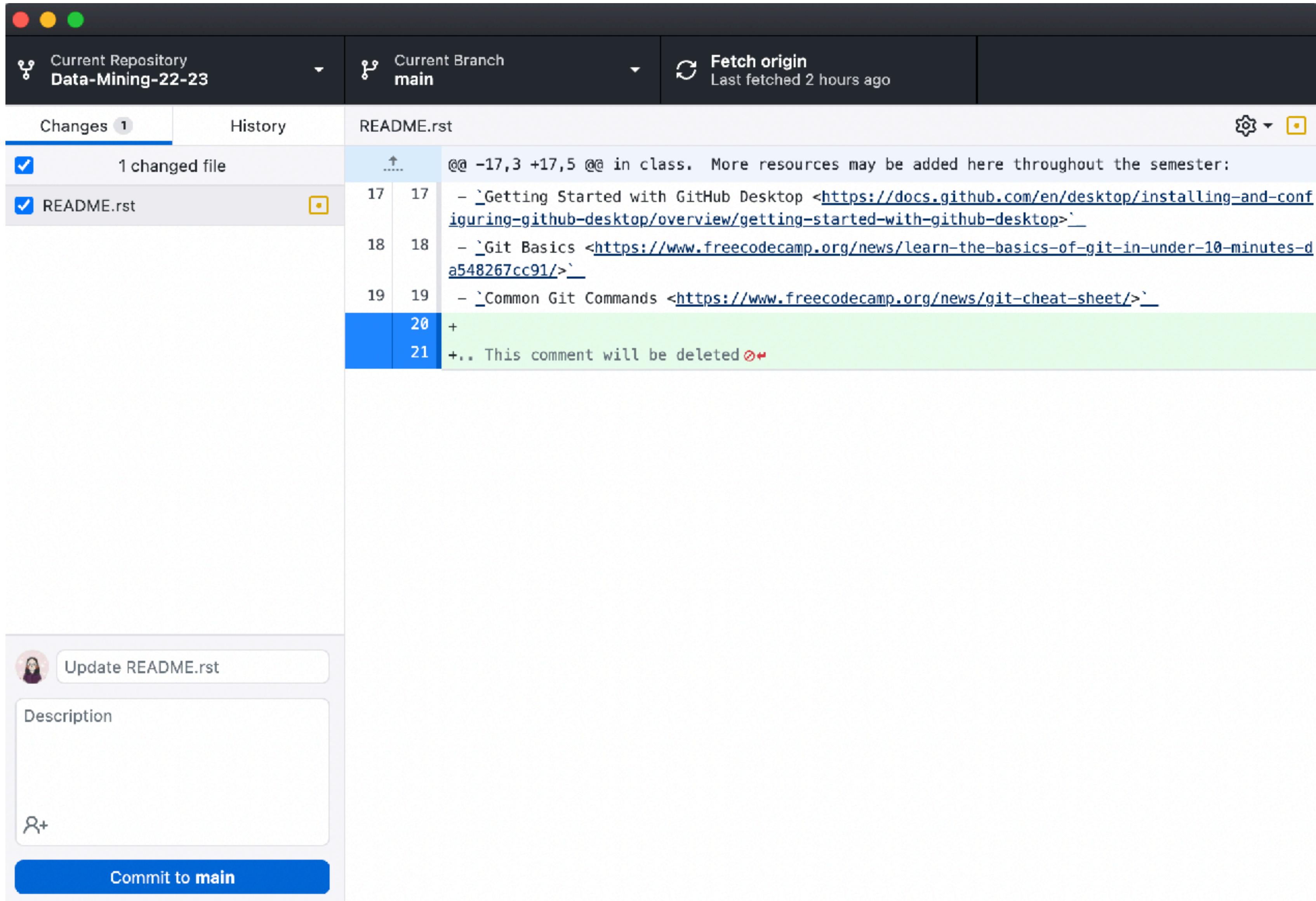
Refreshing Repository Hang on...

Refreshing Repository Hang on...

GitHub

- GitHub
- Data-Mining-22-23
 - .git
 - .gitignore
 - LICENSE
 - notebooks
 - lab01_distance_matrix.ipynb
 - lab02_close_neighbors.ipynb
 - notebooks_solutions
 - ppts
 - README.rst

Keep track of local changes



GitHub Desktop shows you the changes you have made.

The screenshot shows a GitHub commit interface. At the top, there's a navigation bar with 'Changes 1' (highlighted in blue), 'History', and a file list containing 'README.rst'. Below this is a diff view for 'README.rst' showing additions and deletions. A specific addition is highlighted with a red box:

```
@@ -17,3 +17,5 @@ in class. More resources may be added here throughout the semester:  
17 | 17 - `Getting Started with GitHub Desktop <https://docs.github.com/en/desktop/installing-and-configuring-github-desktop/overview/getting-started-with-github-desktop>`_  
18 | 18 - `Git Basics <https://www.freecodecamp.org/news/learn-the-basics-of-git-in-under-10-minutes-d548267cc91/>`_  
19 | 19 - `Common Git Commands <https://www.freecodecamp.org/news/git-cheat-sheet/>`_  
20 | +  
21 | +.. This comment will be deleted 0.4
```

Below the diff is a commit form with the following fields:

- Commit message: "This is a commit message" (highlighted with a red box)
- Description: "Description" (highlighted with a blue box)
- Addition: "👤" (highlighted with a red box)
- Commit button: "Commit to main" (highlighted with a red box)

Add a helpful commit message. Click Commit.

Current Repository
Data-Mining-22-23

Current Branch
main

Push origin
Last fetched 5 minutes ago

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.

Push commits to the origin remote
You have 1 local commit waiting to be pushed to GitHub.
Always available in the toolbar when there are local commits waiting to be pushed or ⌘ P

Push origin

Open the repository in your external editor
Select your editor in Preferences
Repository menu or ⌘ ⌘ A

Open in Visual Studio Code

Description

View the files of your repository in Finder
Repository menu or ⌘ ⌘ F

Show in Finder

Open the repository page on GitHub in your browser
Repository menu or ⌘ ⌘ G

View on GitHub

Summary (required)

Commit to main

Committed just now
This is a commit message

Undo

Pushing to Origin only reflects the changes from your Local to YOUR Remote Origin, NOT to the original Remote Upstream repo you forked from.

Click Push origin to reflect this change to your remote.

Changes 1 History README.rst

1 changed file README.rst

```
@@ -17,3 +17,5 @@ in class. More resources may be added here throughout the semester:  
17 17 - `Getting Started with GitHub Desktop <https://docs.github.com/en/desktop/installing-and-configuring-github-desktop/overview/getting-started-with-github-desktop>`_  
18 18 - `Git Basics <https://www.freecodecamp.org/news/learn-the-basics-of-git-in-under-10-minutes-d  
a548267cc91/>`_  
19 19 - `Common Git Commands <https://www.freecodecamp.org/news/git-cheat-sheet/>`_  
20 +  
21 .. This comment will be deleted 04
```

Remember from previous step:

This is a commit message

Description

+ Commit to main

fpon This is a commit message

File	Commit Message
notebooks	Lab 2
notebooks_solutions	Lab 2
ppts	add test file for git demo
.gitignore	First commit
LICENSE	First commit
README.rst	This is a commit message

raw.githubusercontent.com/fpontejos/Data-Mining-22-23/main/README.rst

```
=====  
Data Mining - Master Course  
=====  
  
Course taught at Nova IMS to Masters students, Fall semester of the academic  
year 2022/2023.  
  
Additional Materials  
=====  
  
The resources below may help you get started and complement your studies.  
However, they are not part of the course goals and are not necessarily covered  
in class. More resources may be added here throughout the semester:  
  
- `Download Anaconda <https://www.anaconda.com/products/distribution>`_  
- `Python Essentials <https://github.com/joaopfonseca/python-essentials>`_  
- `Getting Started with GitHub Desktop <https://docs.github.com/en/desktop/installing-and-  
desktop>`_  
- `Git Basics <https://www.freecodecamp.org/news/learn-the-basics-of-git-in-under-10-minut  
- `Common Git Commands <https://www.freecodecamp.org/news/git-cheat-sheet/>`_  
.. This comment will be deleted
```

Changes are now also on remote

Keep up to date with Upstream

 **fpontejos / Data-Mining-22-23** Public

forked from [joaopfonseca/Data-Mining-22-23](#)

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

[main](#) [1 branch](#) [0 tags](#) [Go to file](#) [Add file](#) [Code](#)

This branch is [2 commits behind](#) joaopfonseca:main.

[Contribute](#) [Sync fork](#)

 **fpontejos** Add link to git cheat sheet

	notebooks	Lab 1
	notebooks_solutions	Lab 1
	ppts	Lab 1 PPT presentation
	.gitignore	First commit
	LICENSE	First commit
	README.rst	Add link to git cheat sheet

This branch is out-of-date
Update branch to keep this branch up-to-date by syncing 2 commits from the upstream repository.
[Learn more](#)

[Compare](#) [Update branch](#)

Sync fork on GitHub

Successfully fetched and fast-forwarded from upstream joaopfonseca:main.

fponcejos / Data-Mining-22-23

Public

forked from joaopfonseca/Data-Mining-22-23

Pin

Watch 0

Code

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

main

1 branch

0 tags

Go to file

Add file

Code

This branch is up to date with joaopfonseca/Data-Mining-22-23:main.

Contribute Sync fork



joaopfonseca Lab 2

1c68e84 22 hours ago 8 commits

	notebooks	Lab 2	22 hours ago
	notebooks_solutions	Lab 2	22 hours ago
	ppts	Fix incorrect hyperlink	4 days ago
	.gitignore	First commit	7 days ago
	LICENSE	First commit	7 days ago
	README.rst	Add link to git cheat sheet	7 days ago

Remote now up to date with Upstream

The screenshot shows two GitHub Desktop windows. The top window displays a pull request titled "Data-Mining-22-23" with the branch "main". A status bar at the top says "Fetching upstream Hang on...". The diff view shows changes in the README.rst file, with line 20 highlighted in green. The bottom window shows the same pull request and diff view, with the status bar indicating "Pull origin Last fetched just now". Both windows have a sidebar on the left with a "Commit to main" button.

Current Repository Data-Mining-22-23

Current Branch main

Fetching upstream Hang on...

Changes 1 History README.rst

1 changed file

README.rst

@@ -17,3 +17,5 @@ in class. More resources may be added here throughout the semester:

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19 19 - `Common Git Commands <<https://www.freecodecamp.org/news/git-cheat-sheet/>>`_

20 +

21 +.. This comment will be deleted ⚡

Current Repository Data-Mining-22-23

Current Branch main

Pull origin Last fetched just now

Changes 1 History README.rst

1 changed file

README.rst

@@ -17,3 +17,5 @@ in class. More resources may be added here throughout the semester:

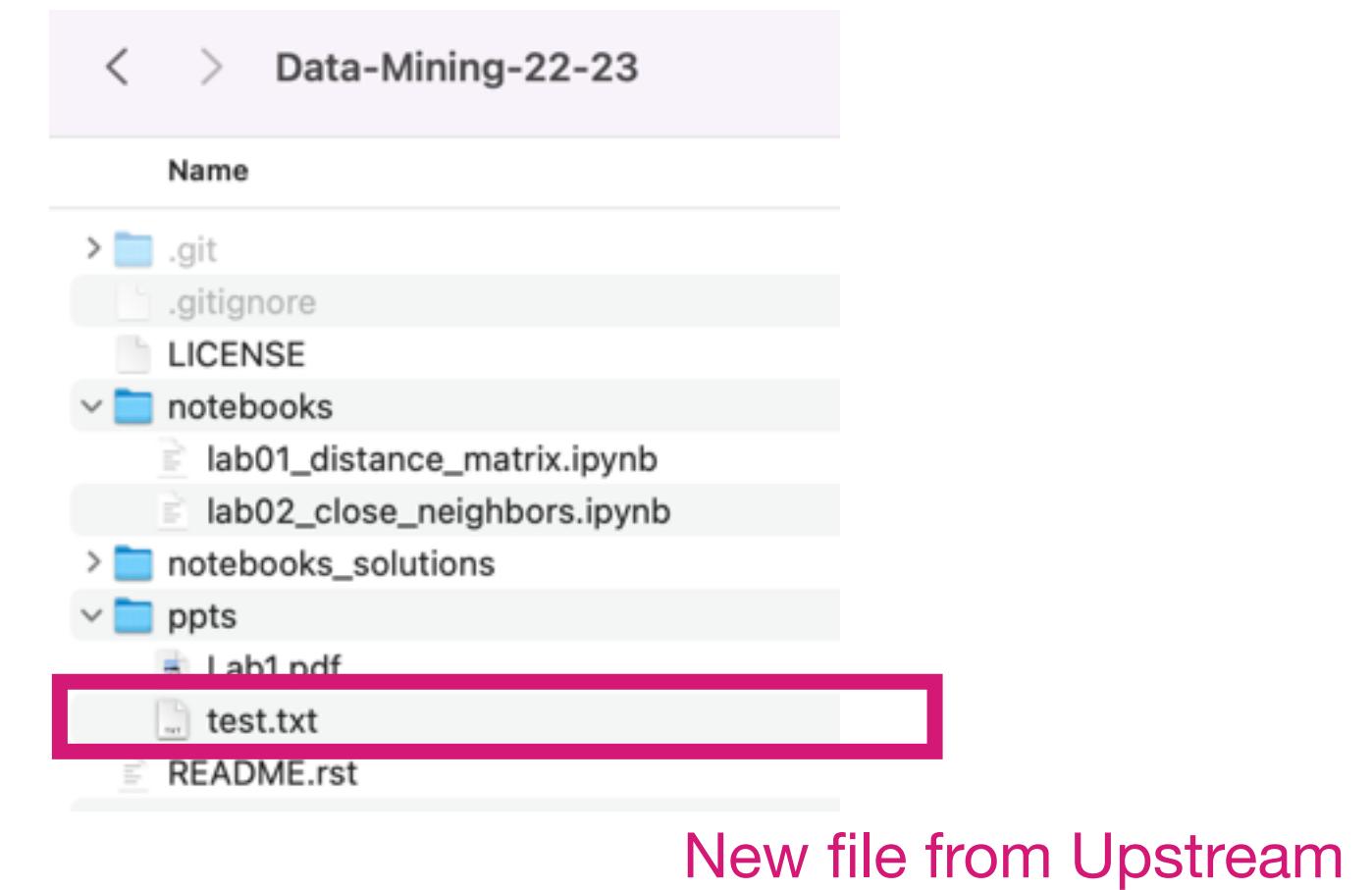
17 17 - `Getting Started with GitHub Desktop <<https://docs.github.com/en/desktop/installing-and-configuring-github-desktop/overview/getting-started-with-github-desktop>>`_

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19 19 - `Common Git Commands <<https://www.freecodecamp.org/news/git-cheat-sheet/>>`_

20 +

21 +.. This comment will be deleted ⚡



Pull changes from Remote to Local

**Additional use cases
may be added**

