

Ask beforehand by email

- Have GitHub account
- Have [GitHub Desktop](#) installed

Open Science Café

Slides: <https://speakerdeck.com/damianooldoni/git-and-github-at-inbo>.

Open Science Café - git presentation (<30 min)

<https://inbo.github.io/git-course/static/presentations/git.pdf>

- Try to go fast and stay below **30 min**
- Say this is theoretical and to introduce some vocabulary
- People participating in workshop will apply all this theory

Open Science Café - present GitHub repositories

Introduce GitHub by showing the inspiring stories.

Start from craywatch

Workshop - github.com session (45 min)

Create a repo

- Shortname
- Description
- Gitignore (default R)
- Private vs public
- README
- License
- Explain that INBO repositories need to be requested

Code

- Code = files
- Edit the README.md: preview changes

- Write a commit message
- Raw file
- History
- Create a new file, in a directory: src/analysis.R, with content "# analysis will come here"
- Commit with default message
- Select line, copy permalink

Issues

- Issues = tasks or bugs
- New issue: "write analysis"
- Copy permalink
- Markdown (show especially the `\`backticks\``)
- Assign issue
- @mention (will not work)
- Close/Open/reopen

Insights

Show in particular:

- Contributors
- Network

Settings

- Repo name (redirects will work)
- Disable projects and wiki
- Explain danger zone
- Manage access (private vs public)

GitHub Desktop session (1h)

We will not give this workshop with RStudio as not everybody has RStudio and R installed. We will still follow some steps from this tutorial: https://inbo.github.io/git-course/course_rstudio.html

Installation GitHub Desktop

- Asked by email beforehand, check if successful

Welcome to GitHub Desktop

GitHub Desktop is a seamless way to contribute to projects on GitHub and GitHub Enterprise. Sign in below to get started with your existing projects.

[Sign in to GitHub.com](#)

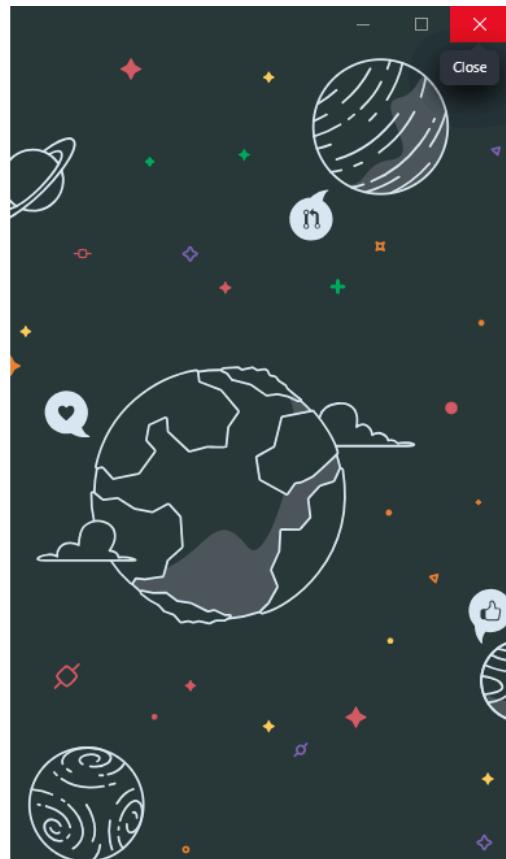
[Sign in to GitHub Enterprise](#)

New to GitHub? [Create your free account.](#)

[Skip this step](#)

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#).

GitHub Desktop sends usage metrics to improve the product and inform feature decisions.
[Learn more about user metrics.](#)



Configure Git



This is used to identify the commits you create. Anyone will be able to see this information if you publish commits.

- Use my GitHub account name and email address
 Configure manually

Name

Damiano Oldoni

Email

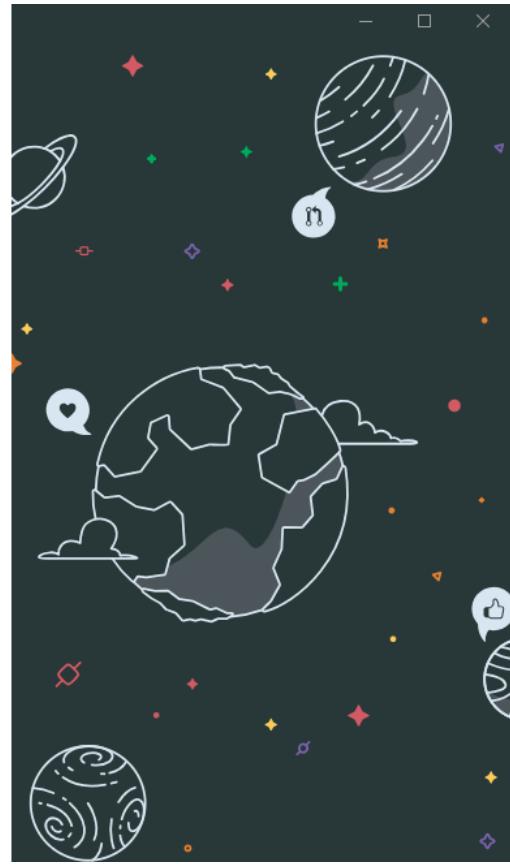
damiano.oldoni@inbo.be

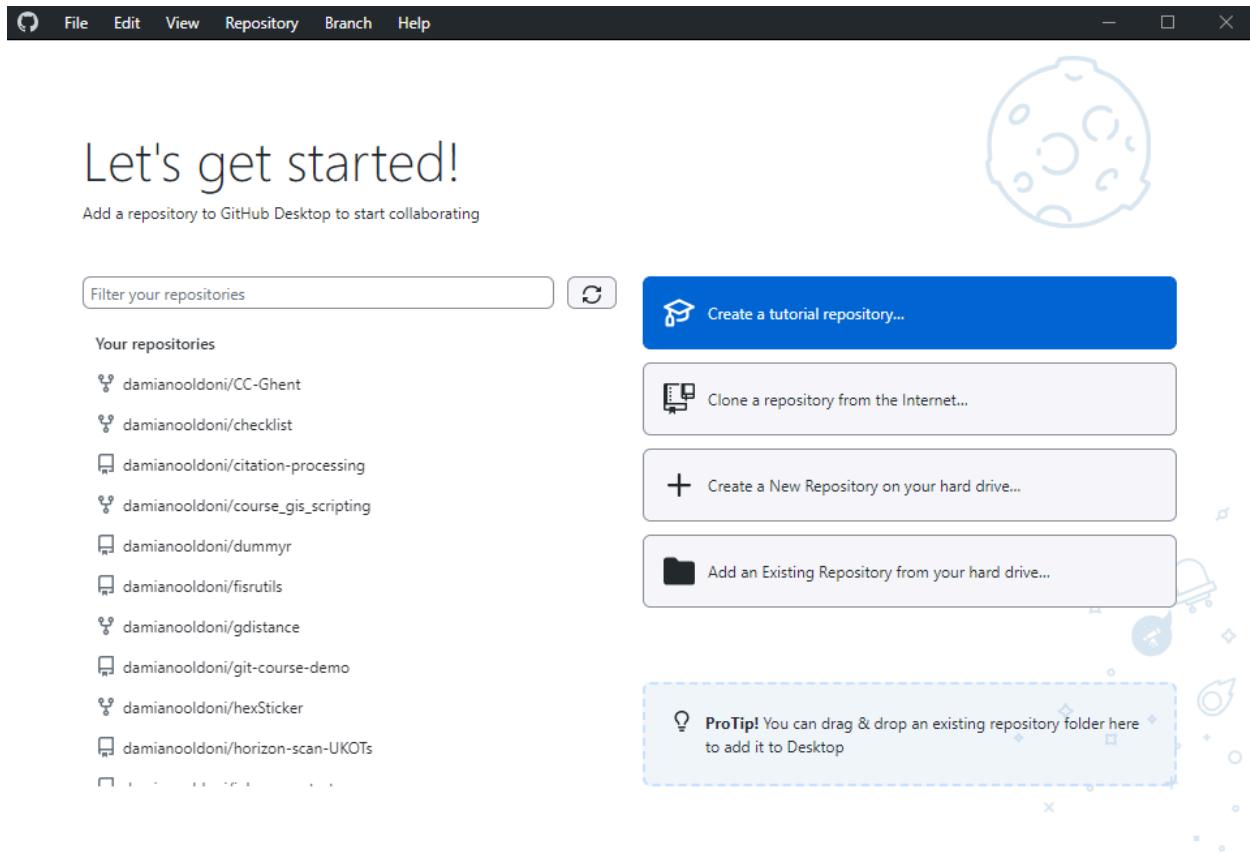
Finish **Cancel**

Example commit:

Fix all the things

 Damiano Oldoni • 30 minutes ago





Clone

- Go to your repository and copy url from clone button
- Clone: check that a new directory has been created. Repo name = directory name (it makes things easier)
- For RStudio users: open new project in existing directory: choose the directory where you cloned the repo.

Commit

- For RStudio users: There is a new `.rproj` file
- See changes, write commit
- See history commits online
- Change `analysis.R`: e.g. add `library(dplyr)`
- Commit `analysis.R`

Push

- Push

- Check online

Logical commits

- Change analysis.R: multiple lines
- Stage/unstage/discard line by line

Conflicts

- Go online and change README.md
- Change it on your laptop via a text editor (or RStudio) too
- Try push
- Pull
- Resolve conflict
- Push

Branches (optional)

- Create branch
- Add `./data` (show that empty directories are not tracked)
- Add `./data/flowers.csv`
- Commit
- Push
- Switch to main: `./data/flowers.csv` is gone 🤯
- Switch back to new branch
- Also show branches online

Pull request on own repo (optional)

- Do a pull request (show you can do via GitHub Desktop (**Ctrl + R**) or via **Branch -> Create a Pull Request**.)
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Open source contribution

- Go to <https://github.com/inbo/git-course>, then README.md
- See typo in last sentence (“converte” instead of “converted”)
- Correct it by clicking the pencil button or try to do it with GitHub Desktop
- Commit (and push in case you did via GitHub Desktop)
- Create pull request
- Show email notification
- Show comment

- Watch/unwatch a repository

GitHub Desktop tutorials

A lot of material online. In particular the entire section on the official GitHub documentation website, GitHub Docs: <https://docs.github.com/en/desktop>