



GitHub

What is GitHub



GitHub is a cloud-based platform



Allows developers to store, manage and share code using Git



Where developers worldwide can share open-source projects

What's the Difference?

GitHub

- ▶ Cloud-based
- ▶ Hosts repositories online, code sharing is easy
- ▶ Project management
- ▶ Allows you to control who can view or contribute
- ▶ Is a central place for finding and contributing to code

Git

- ▶ Git is a version control system, which operates on your computer
- ▶ Manual sharing of code
- ▶ Only provides the functions mentioned before
- ▶ Access control and permissions need to be configured separately
- ▶ Used for individuals and can be set up for teams.

Features of GitHub

- Repositories
- Forks
- Pull Requests
- Issues

The screenshot shows the GitHub interface for the repository 'Ekaroune / Open-Science-in-Phytolith-Research'. Red arrows point from numbered boxes to specific features on the page:

- 1. Project**: Points to the repository name and header area.
- 2. Issues**: Points to the 'Issues' tab in the top navigation bar.
- 3. Files**: Points to the file list on the left side of the repository page.
- 4. Landing page or README.md file**: Points to the 'Open Science in Phytolith Research' section of the README.
- 5. Insights**: Points to the 'Insights' tab in the top navigation bar.
- 6. Edit repo details**: Points to the gear icon (repository settings) in the top right.
- 7. Description of the repository**: Points to the 'About' section describing the project's purpose.
- 8. Link for Git pages**: Points to the 'ekaroune.github.io/open-science-in-p...' link in the 'About' section.
- 9. Topic labels**: Points to the 'phytoliths', 'open-science', and 'open-data' topic labels.
- 10. License**: Points to the 'CC-BY-4.0 License' section.

Workflow Tools

Branches
on GitHub

Pull
Requests

GitHub
Actions

GitHub Pages

- ▶ Let's users host websites directly from a GitHub repo
 - ▶ Popular for personal projects

Security and Commit History

GitHub
permissions
and access

Commit
History and
Code Review

Tips and Tricks

Markdown
(readMe)

GitHub
Desktop
and CLI

Lastly,

- ▶ By integrating these features, developers can improve their coding practices, contribute to meaningful projects, and engage in collaboration.

