

Git and Github

Edwin Kofler

October 23, 2022



Image by Art G. on [Flickr](#) licensed as CC BY-NC-ND

2.0

Edwin Kofler

- ▶ [Website](#)
- ▶ [GitHub](#)
- ▶ [Twitter](#)
- ▶ [LinkedIn](#)

Agenda

1. Introduce Git and Github
2. Tour GitHub (create account, explore site)
3. Download Git and GitHub Desktop
4. Make a GitHub Contribution
5. Bonus Points: Using Git over the Command Line
6. Resources

Introducing Git

From the official Git [website](#):

*Git is a **free and open source** distributed version control system...*

But what does that mean in practice? Git...

- ▶ Lets you “look at” a file at a previous point in time
- ▶ Allows multiple people to work on the same codebase at a time
- ▶ Lets you experiment with your code (and keep the original copy safe)

Introducing GitHub

- ▶ Sort of a combination of Dropbox and Twitter
- ▶ Better to show, than tell...

Tour of GitHub

- ▶ Create GitHub account
- ▶ Explore “home” view
- ▶ Show “profile” view
- ▶ Create a “profile README”
- ▶ Show small repository: [hyperupcall/website](#)
- ▶ Show large repository: [xournalpp/xournalpp](#)

Downloading Git and GitHub

Git must be installed before using GitHub Desktop

- ▶ For **Git**
 - ▶ Go to git-scm.com
 - ▶ See middle-right part of page for download button
- ▶ For **GitHub Desktop**
 - ▶ Go to desktop.github.com (Linux users, see [shiftkey/desktop](#))
 - ▶ See download button

Make a GitHub Contribution

1. Find a repository to contribute too (ex. [ecc-cs-club/practice](#))
2. Find an issue to “fix” (optional)
3. Fork the repository (usually required)
4. Clone your “forked” repository to your computer with a Git client (ex. GitHub Desktop)
5. Open the repository with a code editor (ex. VSCode)
6. Make the code or text changes required
7. Make a Git commit, then push your changes
8. Create a Pull Request (PR)
9. Wait

Resources

- ▶ [The Coding Train: Git](#)
- ▶ [Using Git on the command line \(video\)](#)
- ▶ [Git cheatsheet by GitHub](#)
- ▶ [Git cheatsheet by GitLab](#)
- ▶ [Video: How to contribute to GitHub](#)