git (/ɡɪt/)

: "The stupid content tracker."
: Random three-letter combination that is pronounceable, and not actually used by any common UNIX command. The fact that it is a mispronunciation of "get" may or may not be relevant.
: Stupid. Contemptible and despicable. Simple. Take your pick from the dictionary of slang.
: "Global information tracker": you're in a good mood, and it actually works for you. Angels sing, and a light suddenly fills the room.
: "G*****n idiotic truckload of sh*t" (when it breaks).
: "The information manager from hell."

what is git

Git is a program that directly manages files and a version control database for a repository, allowing recovery from past commits.

: **some definitions:**

+ **repository:** a collection of files of various different versions of a project

+ **version control:** a method to track the state of a repository (i.e., what is in the files) at different points in time

: **why use git?**

+ **track bugs** and issues and tie patches to specific commits

+ create **branches or forks** to isolate work until ready to merge

+ freeze specific versions of the code **using tags** for distribution

+ provide **pretty documentation** through markdown READMEs and wiki pages

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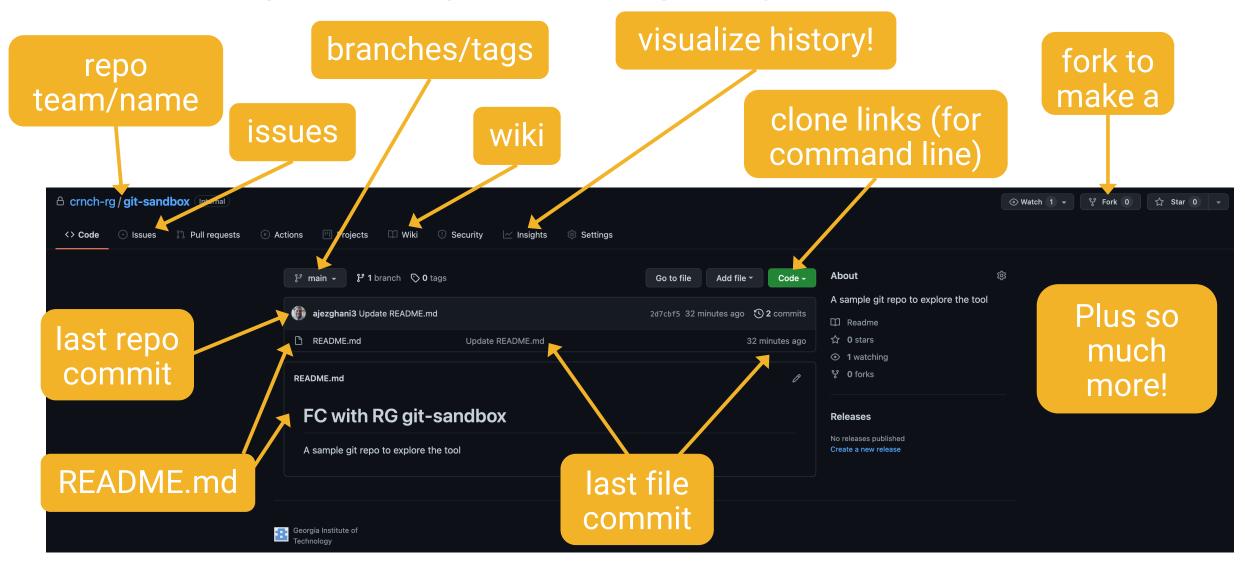
: **how to access:** through **command line**, **GUI** utility, or **browser** (if allowed)

: **cloud repo** examples are **github**, **bitbucket**, and **gitlab**

+ note that github can be **public** (github.com) or **private/enterprise** (github.gatech.edu)

+ command line access can be authenticated through **SSH** or **HTTPS**

: **invaluable for collaborative code development** as you can

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Looking at the github page layout

repo team/name

branches/tags

visualize history!

fork to make a

issues

wiki

clone links (for command line)

last repo commit

README.md

last file commit

Plus so much more!

"useful" links

Pro Git book: https://git-scm.com/book/en/v2

Git Markdown: https://docs.github.com/en/get-started/writing-on-github/getting-started-with-writing-and-formatting-on-github/about-writing-and-formatting-on-github