

git (/git/)

: "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
 - + **track bugs** and issues and tie patches to specific commits
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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)

The screenshot shows the GitHub interface for the repository 'crnch-rg/git-sandbox'. The page layout includes a header with the repository name and navigation tabs (Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings). Below the header, there's a section for the current branch 'main' with a dropdown menu for branches and tags. The main content area displays the commit history, showing a commit by 'ajezghani3' titled 'Update README.md' with a commit hash '2d7cbf5' and a timestamp '32 minutes ago'. Below the commit, the file 'README.md' is shown with its content. The right sidebar contains the 'About' section with a description 'A sample git repo to explore the tool', statistics (0 stars, 1 watching, 0 forks), and a 'Releases' section with the text 'No releases published' and a link 'Create a new release'.

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>