

VERBVM VITÆ ET LVMEN SCIENTIÆ

git Flash Cards

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GitHub

- * A website for "git-stuff."
- * You can have a free account there (I do)
 - * Free accounts are public, and can be downloaded (but not changed) by anyone.
- You can have a paid account there for \$7/month (I do)
 - Paid accounts are private.

git

- * A program / a family of programs.
- All platforms, GUI and command line versions.
- Written by Linus Torvalds ("Linux").
- * Keeps your stuff in a database.
- Allows you to revisit old versions and share your work.

repo

- Repository a collection of files and revisions to them.
- * Each repo is generally associated with *one* directory
 - * And all its files
 - And all its sub directories
- * IMPORTANT: Any type of file may be in a repo.

commit

- Git is all about commit-ment. Repos contain commits.
- commit is a noun and a verb.
 - * "My repo has 700 commits in it."
 - "I committed five times yesterday."
- * A commit is a bookmark, a stopping point, a place you might want to go back to.
- * A commit applies to everything in the repo, not just the files that have changed.

commit ID

- * A (short) commit ID is the first seven hex-digits of a hash of all your work at that point.
 - 90cf8ac, 08eb119, 074903a, 859c534, ...
 - * The first one is really 90cf8acf4718cbb6332781920be51dba1d92c775 (ugh)
- * **commit** is a noun and a verb.
 - * "My repo has 700 commits in it."
 - "I committed five times yesterday."

tag

- 90cf8acf4718cbb6332781920be51dba1d92c775
 - Not sexy (unless you are a hash function).
 - * Not memorable.
- tags are the personalized license plates of git.
 - Just a memorable (to you) name
 - Spaces are not allowed in tags

branch

- * A branch is a name for a collection of related commits.
 - * Should be meaningful to you.
 - Spaces are not allowed in branch names.
- Every repo has at least one branch, and its name is master.

merge

- Merge is a reconciliation process.
 - * Between two commits.
 - Almost always the commits are on different branches.

Let's get started

- Visit github.com
- Setup an account.
- Create a repo.
- * Get committed.
- Make some mistakes.
- Learn to fix them.