

GIT BASICS - LOCAL

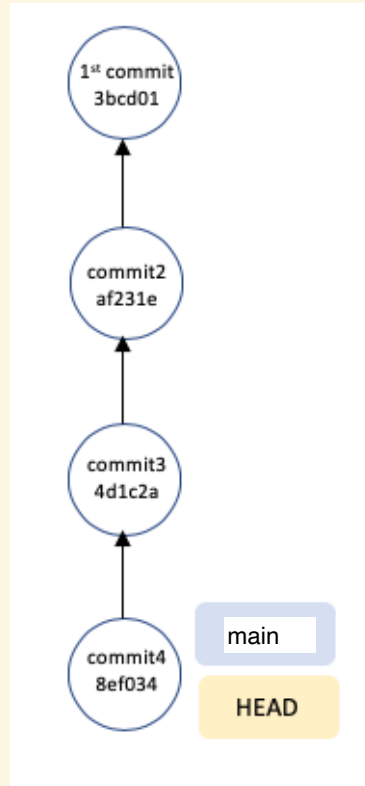
COMMON REFERENCES

- HEAD - reference to tip of current branch
- index - staging area
- SHA-1 hashes - for referencing commit hashes

BASIC OPERATIONS LOCALLY

- `git init` -> initialize new repo
- `git add` -> stage changes to file (or add untracked file)
- `git rm` -> remove
- `git mv` -> rename or move
- `git commit` -> commit staged changes

GIT COMMITS



BASIC OPERATIONS LOCALLY (CONT.)

- `git status`
- `git diff`: view changes
- `git log`: view list of commits

OOPS!

- I added (staged) a file I didn't mean to...
- Options - both unstage but keep changes in working directory
 - `git restore --staged filename <- "new" way`
 - `git reset filename <- "old" way`

OOPS! (CONT.)

- I've really screwed up a file, I just want to get rid of all my changes...
- Options:
 - `git restore filename` <- "new" way
 - `checkout` <- "old" way
 - `git checkout filename`
 - `git checkout -- filename`
if branch exists with same name as file
- If already staged, must first unstage or
 - `git restore --staged --worktree filename`

OOPS! (CONT.)

- I've screwed up my whole working directory, can't I just go back to the last commit?
- `git reset --hard` (CAREFUL -> this deletes things)
- Or `git restore --staged --worktree .`
from top level directory in repo