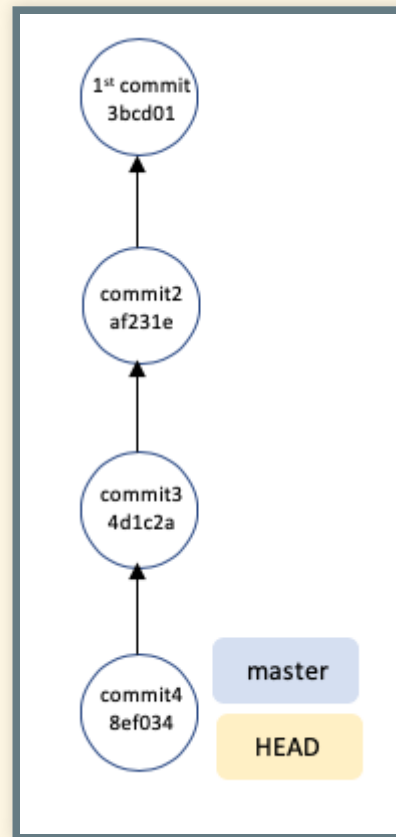


GIT (CONT.)

RECAPPING LAST CLASS

- Idea of local version control
- Distributed vs centralized
- File states and idea of working directory
- Creating local repo and committing

RECAPPING LAST CLASS (CONT.)



OOPS!

- I added (staged) a file I didn't mean to...
- `reset` to the rescue:
 - `git reset filename` - unstages but keeps changes in working directory
- I've really screwed up a file, I just want to get rid of all my changes...
- `checkout` to the rescue:
 - `git checkout filename`
 - `git checkout -- filename` - if branch exists with same name as file

OOPS! (CONT.)

- I've screwed up my whole working directory, can't I just go back to the last commit?
 - `git reset --hard` -> this deletes things

REMOTES

- So far, everything has been local
- Remotes: github, gitlab, bitbucket, ... (servers somewhere else)
- Current local repo, no existing remote:
 - Go to github/bitbucket and create new empty repo
 - `git remote add origin
remote_repo_url`
 - `git push --set-upstream origin
master`

REMOTES (CONT.)

- No local or remote
 - Go to github/bitbucket and create new empty repo
 - `git clone remote_repo_url`
- Same workflow locally: modify/create, add, commit

REMOTES (CONT.)

- Whenever you want to update remote with your commits:
 - `git push`
- If you are working with other people, need to get any changes made by others first:
 - `git fetch` - go see what changes were made on remote
 - `git merge` - merge those changes with mine
 - `git push`
- Can replace fetch + merge with `git pull`

BRANCHING

- Branching workflow
 - typically keep master clean/working
 - create branches for bug fixes and development
 - can branch off other branches

BRANCHING (CONT.)

- List branches: `git branch -a`
- Create and go to (checkout) new branch:
`git checkout -b branchname`
- Just create new branch:
`git branch branchname`
- Switch to existing branch:
`git checkout branchname`

BRANCHING (CONT.)

- Done working and want to incorporate changes:
 - `git checkout branch_merging_to`
 - `git merge`
 - `git branch -d branchname`

THINGS NOT TO DO:

- rebase
- commit from a detached head (checkout a certain commit, then make a commit)
- reset to a commit
- ammend a commit once it's been pushed
- DO NOT REWRITE HISTORY IN ANY WAY!!