



Final Review

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Last Time in Git Stuco

- git revert
- git filter-branch
- git daemon
- submodules

Syncing forks

- You fork a repo
- You make changes to the fork
- The original project has updates
- How do get these updates?
 - `git remote add upstream https://github.com/ORIGINAL_OWNER/ORIGINAL_REPOSITORY.git`
 - `git fetch upstream`
 - `git merge upstream/master`

git cherry

- This command shows all the commits from upstream that have not been merged into master
- Useful for cherry picking

git describe --tags

- git describe --tags
 - Shows the last reachable tag

```
git svn clone -s -r 40000:HEAD https://svn.  
parrot.org/parrot # choose some recent-ish  
commit
```

Showing Commits by Author

- `git shortlog`
- displays commits by author alphabetically

git count-objects

- Have you ever wanted to know how many objects are in your repo
- git count-objects returns the number of loose objects and the size

Showing File with Commit information

- `git annotate`
- Shows which commit lines were introduced in

Annotating objects

- git notes
- adds a note to a object
- allows addition of metadata without changing hash
- show, add, edit, remove

Learning More: Resources

- Our class was loosely based on the Pro Git book
- git man pages
- stack overflow

Final

- Same format as midterm
- Similar length

Commands Covered in Detail

- git clone
- git add (rm, mv)
- git commit
- git push
- git status
- git log
- git diff

Continued

- git checkout
- git reset
- git merge
- git branch
- git pull
- git remote
- git init

Continued again

- git cherry pick
- git reflog
- git stash
- git rebase
- git rerere
- git bisect
- git revert

More Commands with Less Detail

- git filter-branch
- git ls-tree
- git cat-file
- git submodule
- git notes
- git daemon
- git hash-object

Continued

- git clean
- git gc
- git annotate
- git count-objects
- git shortlog
- git show

High Level Concepts and Definitions

- Point of VCS
- Advantages of distributed/centralized
- Point of branching
- Difference between rebase and merge
- Merge conflicts
- Be able to define index, repository, branch, head, master, remote, origin, and working directory

Continued

- Feature based commits
- Changesets vs Snapshots
- Continuous Integration
- Difference between checkout and reset
- Recovering from destructive mistakes
- Git internals-how it is implemented

Continued

- Hooks
- Workflows

Next Week in Git Stuco

- Thanksgiving



- Also final next next week

