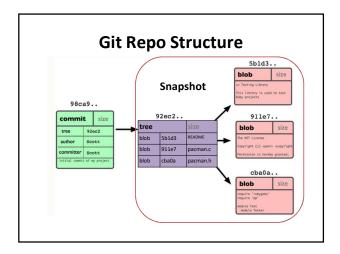
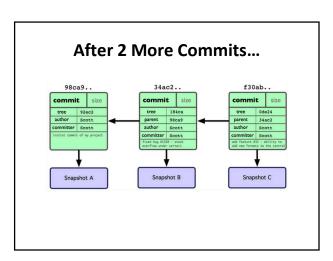
CS35L – 5 Week 9 Lec 2

GIT Repository Objects

- · Objects used by GIT to implement source control
 - Blobs
 - ${}^{\raisebox{1pt}{\text{\circle*{1.5}}}}$ Sequence of bytes. Correspond more or less to inodes/ file contents
 - Trees
 - Groups blobs/trees together. Correspond to UNIX directories
 - Commit
 - Refers to a particular "git commit" Contains all information about the commit
 - Tags
 - Just a named commit object for convenience (example: versions of the software)
- . Objects uniquely identified with hashes





Homework 9

- Publish patch you made in lab 9

 Create a new branch "quote" off of version 3.0

 - Branch command + checkout command (git be
 \$ git checkout v3.0 -b quote

 - \$ git checkout v3.0 -b quote

 Use patch from lab 4 to modify this branch

 Patch command

 \$ patch -pnum < quote-3.0-patch.txt

 Modify Changelog file in diffulls directory

 Add entry foryour changes similar to entries in Changelog

 Commit changes to the new branch

 \$ git add . \$ git commit -F < Changelog file>

 Generate a patch that other people can use to get your changes

 \$ git format-patch -{num} --stdout > formatted-patch.txt

 Test your partner's patch

 Check out version 3 0 into a tron branch
 - - est your partner's patch

 Check out version 3.0 into a tmp branch

 Apply patch with git am command: \$ git am < formatted-patch.txt

 Build and test with \$ make check

 Make sure partner's name is in HW9.txt for #8

Gitk

- · A repository browser
 - Visualizes commit graphs
 - Used to understand the structure of the repo
 - Tutorial: http://lostechies.com/j oshuaflanagan/2010/0 9/03/use-gitk-tounderstand-git/



Gitk

- SSH into the server with X11 enabled
 - ssh -X for OS with terminal (OS X, Linux)
 - Select "X11" option if using putty (Windows)
- Run gitk in the ~eggert/src/gnu/emacs directory
 - Need to first update your PATH
 - \$ export PATH=/usr/local/cs/bin:\$PATH