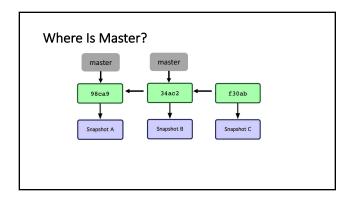
CS 35L Software Construction Lab Week 9 – Change Management

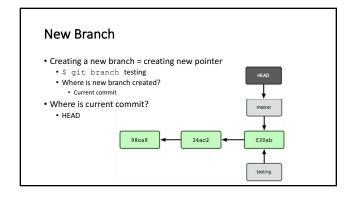
Final Information

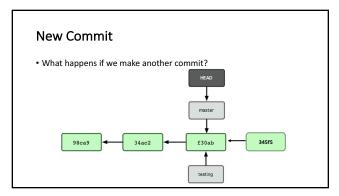
- Monday, December 11, 2017
- 8 AM 11 AM
- Open book and open note
- 50% of course grade
- No electronic devices

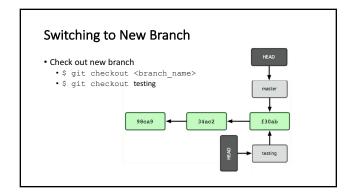
Git Branch

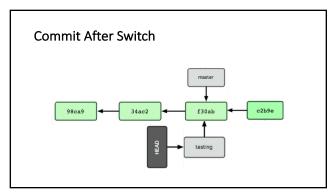
- A pointer to one of the commits in the repo (head) + all ancestor commits
- \bullet When you first create a repo, are there any branches?
- Default branch named 'master'
- The default master branch
 - points to last commit made
 - moves forward automatically, every time you commit











Why Branching?

- Experiment with code without affecting main branch
- Separate projects that once had a common code base
- 2 versions of the project

Homework 9

- Publish patch you made in lab 9

 Create a new branch "quote" off of version 3.0

 Branch command + Checkout command (git bussels quote v3.0; git check

 \$ 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 diffutilis directory

 Add early for your changes smiles to entries in changing

 Commit changes to the new branch

- Modify ChangeLog file in diffulls directory
 Adderently row changes into the renters in ChangeLog
 Commit changes to the new branch
 S git add. S git commit = F < Changelog file>
 Generate a patch that other people can use to get your changes
 S git format=patch from | --stoot > formatted-patch.txt
 Test your partner's patch
 Check out version 3.0 into a tmp branch
 Apphy patch with git am command: S git am < formatted-patch.txt
 Build and test with S mak echeck
 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/ joshuaflanagan/2010/ 09/03/use-gitk-to-understand-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