Lecture 7 Intermediate Git: Stash, Revert, and Searching History

Sign in on the attendance sheet!



# Scenario: you want to switch branches, but you have uncommitted changes

What if you don't want to commit?

#### git stash

Example use:

git stash

- Makes a "pseudo-commit" and puts it on a stack of stashed pseudocommit.
- Use git stash save <message> to store stashes with better messages

#### git stash list

Example use:

git stash list

• Lists all stashed changes on the stash stack.

# git stash apply (stash@{<depth>})

Example use:

git stash apply stash@{2}

- Reapplies the stashed change at the specified depth, if given.
- Depth is just another way of choosing from a list of saved stashes

### git stash pop

Example use:

git stash pop

 Reapplies the top stashed change and removes it from the stash stack.

# git stash drop (stash@{<depth>})

Example use:

git stash drop stash@{2}

• Removes the stashed change at the specified depth, if given.

# git stash show (-p) (stash@{<depth>})

Example use:

git stash show stash@{2}

• Show details about the stashed change at the specified depth, if given.

#### git revert < commit hash> ...

#### Example use:

git revert HEAD (putting HEAD there is optional)

- Makes a new commit that "undoes" the commit at HEAD
- For when you made a mistake and want to completely reverse a commit
- Can cause a conflict (just like a merge) that you have to manually resolve
- Cause use with a list of commits

# Spelunking with Git (and Github)



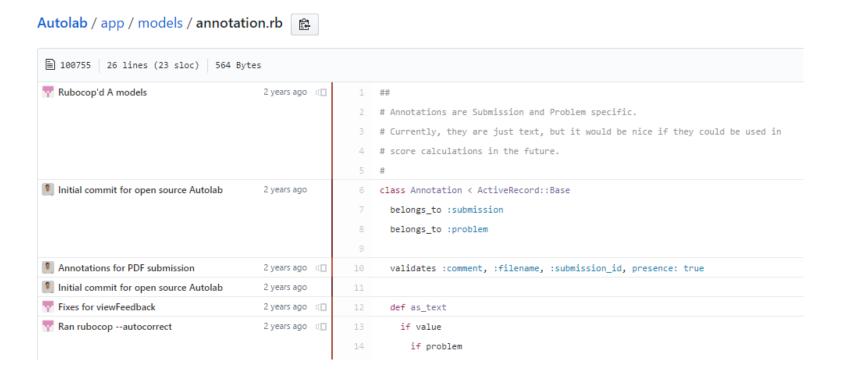
### File History on Github



• Same as git log <filename>

#### git blame <filename>

Shows which commit last modified a specific line



# git log -G "regex to search for"

Searches for commits whose diff contains the text

```
$ git log --pretty=short -G "validates :comment"
commit ce723aad8a5ab59994f8f55110d7de9c404e2fc8
Author: Ilter Canberk <iltercanberk@gmail.com>

Annotations for PDF submission

commit 1494872c7f780a406d5aadc20087b2b9840fefd6
Author: Daniel Bucci <dlbucci@superftc.com>

Rubocop'd A models
```



#### Activity!

- Go to the Autolab project on Github
- Take a look at line #20 of the file app/views/devise/sessions/new.html.erb
- In which commit was the text on that line initially added to the repository?
- To which file was the text moved to in April 2015?
- When was the text moved back to the original file? By whom? Why?

