# Rambling Git

Some rambling on using Git

#### Git: Where to start

Online Git book: http://git-scm.com/doc

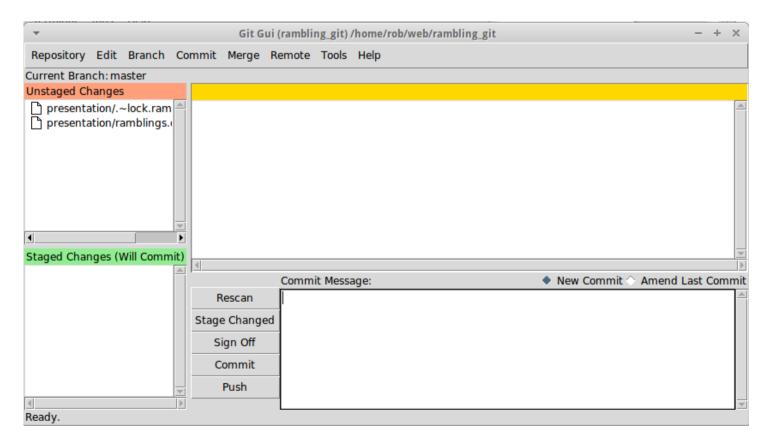
#### Git Gui

No one seems to use it, but I love it because:

- It means I don't have to remember so many commands.
- I get control and a nice view of files before I commit.
- It integrates nicely with gitk.
- It is cross platform. Works the same on Windows, Linux and Mac.

#### Get Gui

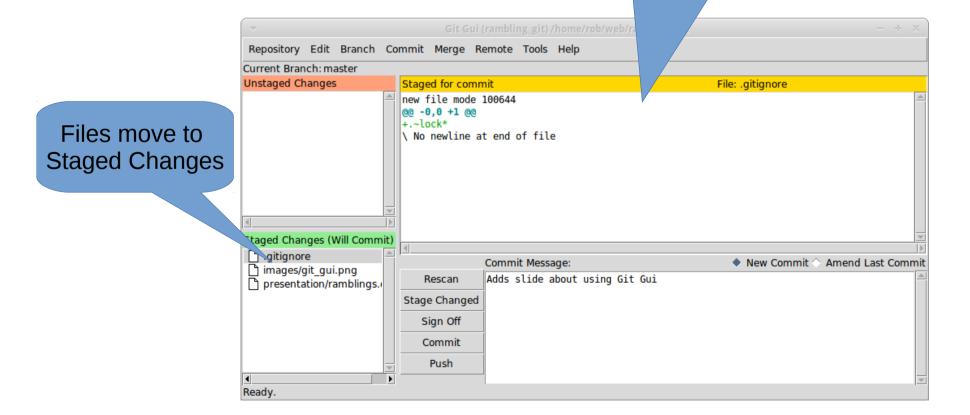
- On ubuntu: sudo apt-get install git-gui
- At the root of you app: git gui



# Committing

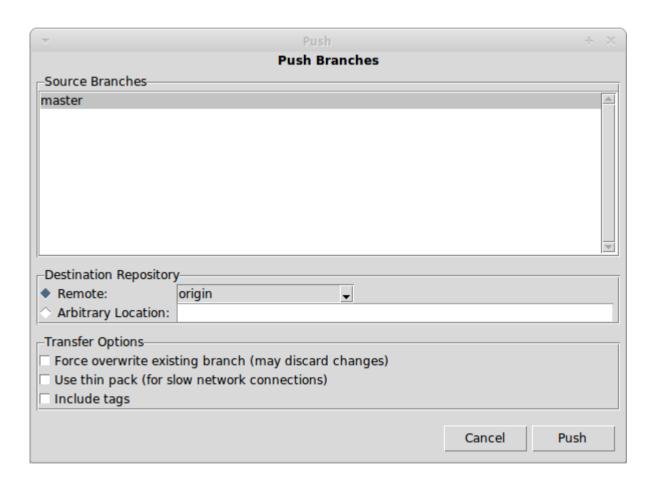
 Click 'Stage Changed', add a commit message, and click 'Commit'

Details of changes to selected file easily reviewed

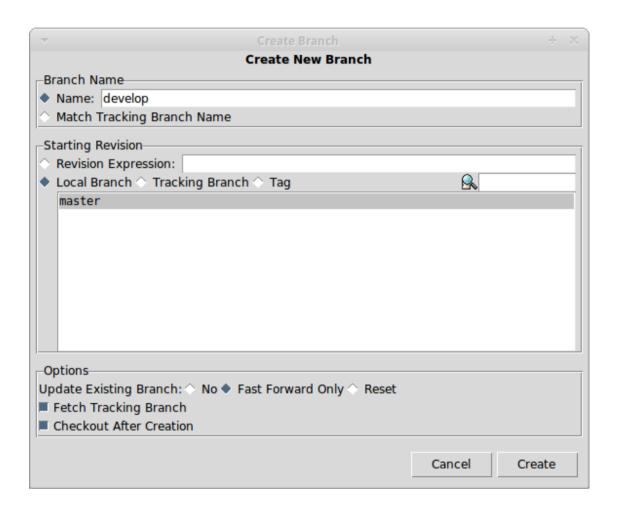


### Push

#### Click 'Push'

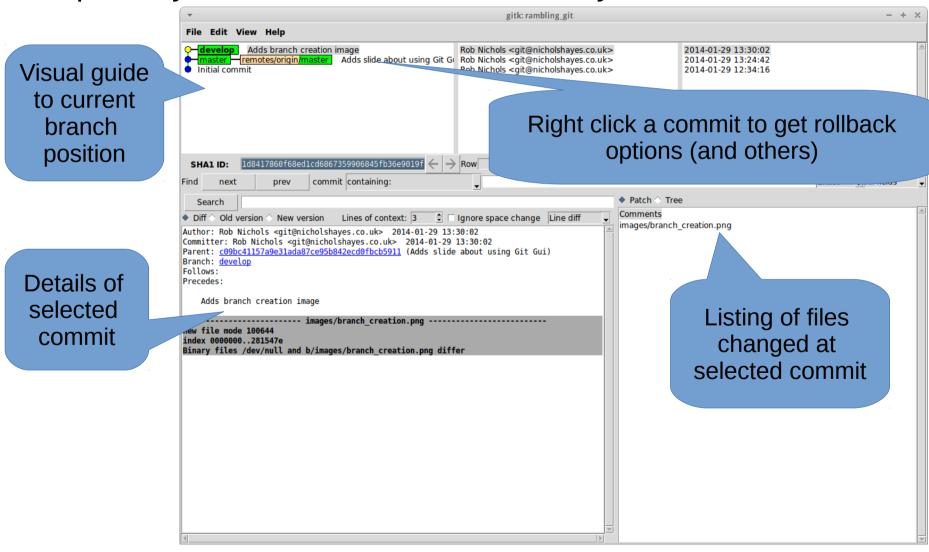


### Create a branch



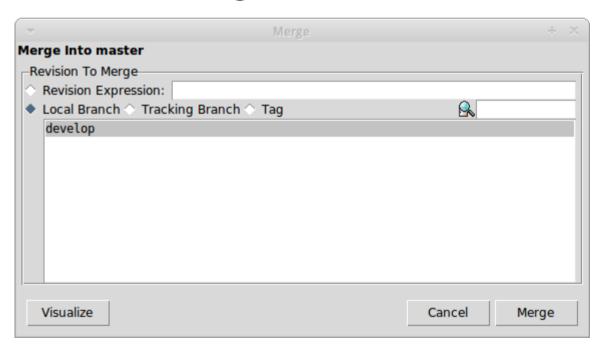
# View branch histories (via gitk)

Repository > Visualize All Branch History



### Merging branches

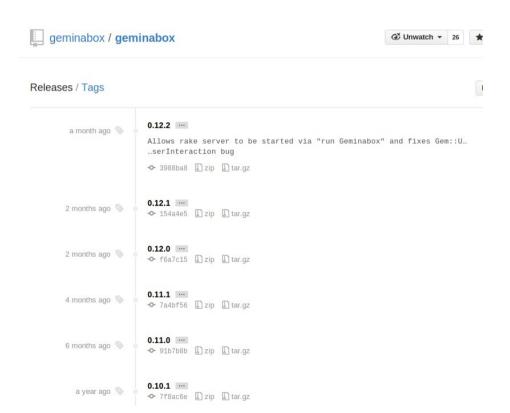
- Branch > Checkout : and checkout master
- Merge > Local Merge



Remember to push the newly merged branch

# **Tagging**

Add Gem Version Badge 0.10.1 Version bump for ruby 1.8 compatibility release. 1.8.7 Compatibility. Make travis build in both 1.9 and 1.8. 0.10.0 Version bump now we handle the gemcutter API. Merge pull request #85 from rojotek/patch-1 removed timeouts on http client when uploading. Don't assume the test box has a gemcutter account Don't load the whole gem file into memory. Add test coverage to Bjørn's work. Merge pull request #87 from bmaland/rubygems api compat Added rubygems push API compatibility 0.9.0 Version bump. Don't rely on / being read only. Selectively flush disk cache based on which gems have changed Merge branch 'improve api caching' into api caching on incremental i Remove now-spurious sort on each request Just initialize the DiskCache object once Use Marshal as appropriate within cache data Rename disk cache Cache individual gem dependency info rather than API responses Add flush key method to Geminabox::DiskCache Fix ordering-sensitive test result, and note Mac OS X-specific test failure Fix issue 70: enable incremental index updates Merge pull request #83 from ashirazi/master Fixing a bug with older versions of httpclient. 0.8.0 Version bump. Fix .gem file permissions problem. Expand on Nat Williams' work on GemVersionCollection don't sort gems every time you add one added options for configuring the client to README 0.7.0 Version bump. Use fixture cacheing for more speedup. Test coverage for jballanc/index-fixup Merge pull request #71 from bakins/atomic write use atomic write Merge pull request #75 from jballanc/index-fixup Limit gem index listing to most recent 5 versions Move header content out of layout Merge pull request #69 from dlindahl/master



## Doing the tagging

- From command line. See: http://git-scm.com/book/en/Git-Basics-Tagging
- In gitk, (right click commit)
- Via git flow

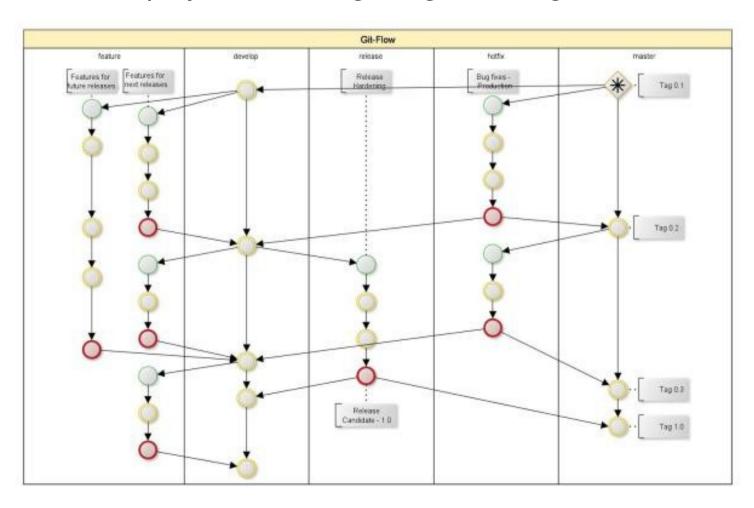
But where do you tag? The last change, the version file bump, or the merge into master?

Git flow is my preferred method as it gives the most consistent alignment of tag.

#### Git flow

https://github.com/nvie/gitflow

http://yakiloo.com/getting-started-git-flow/



### Summary

- Documentation: http://git-scm.com/doc
- Useful tools:
  - Git gui: http://git-scm.com/docs/git-gui
  - Gitk: http://git-scm.com/docs/gitk
  - Tagging: http://git-scm.com/book/en/Git-Basics-Tagging
  - Git flow: https://github.com/nvie/gitflow
- Homework:
  - Git stash:
    - http://git-scm.com/book/en/Git-Tools-Stashing
    - http://git-scm.com/docs/git-stash