

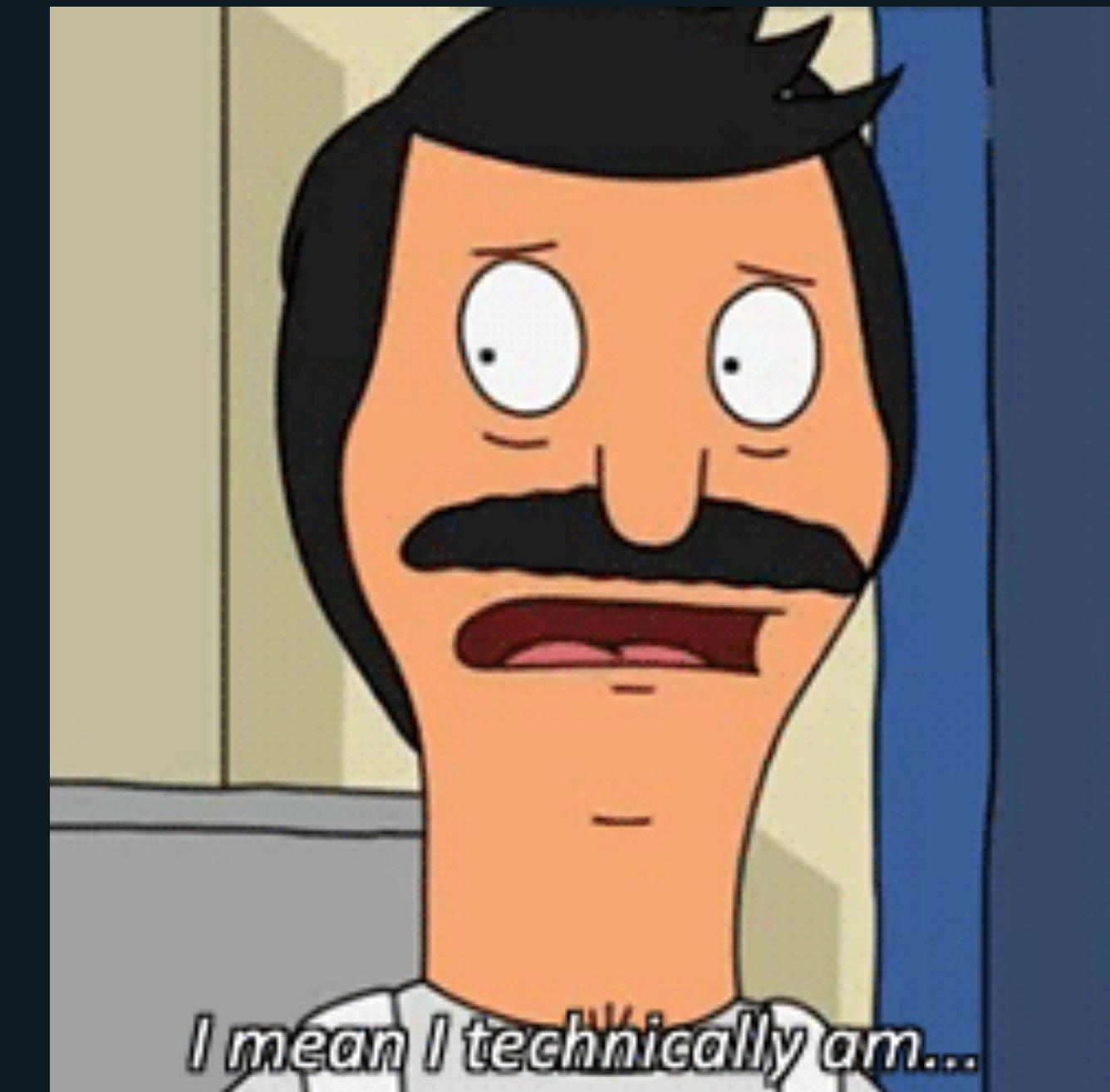


# Git Tips & Tricks

hosted by me, matt desmond!

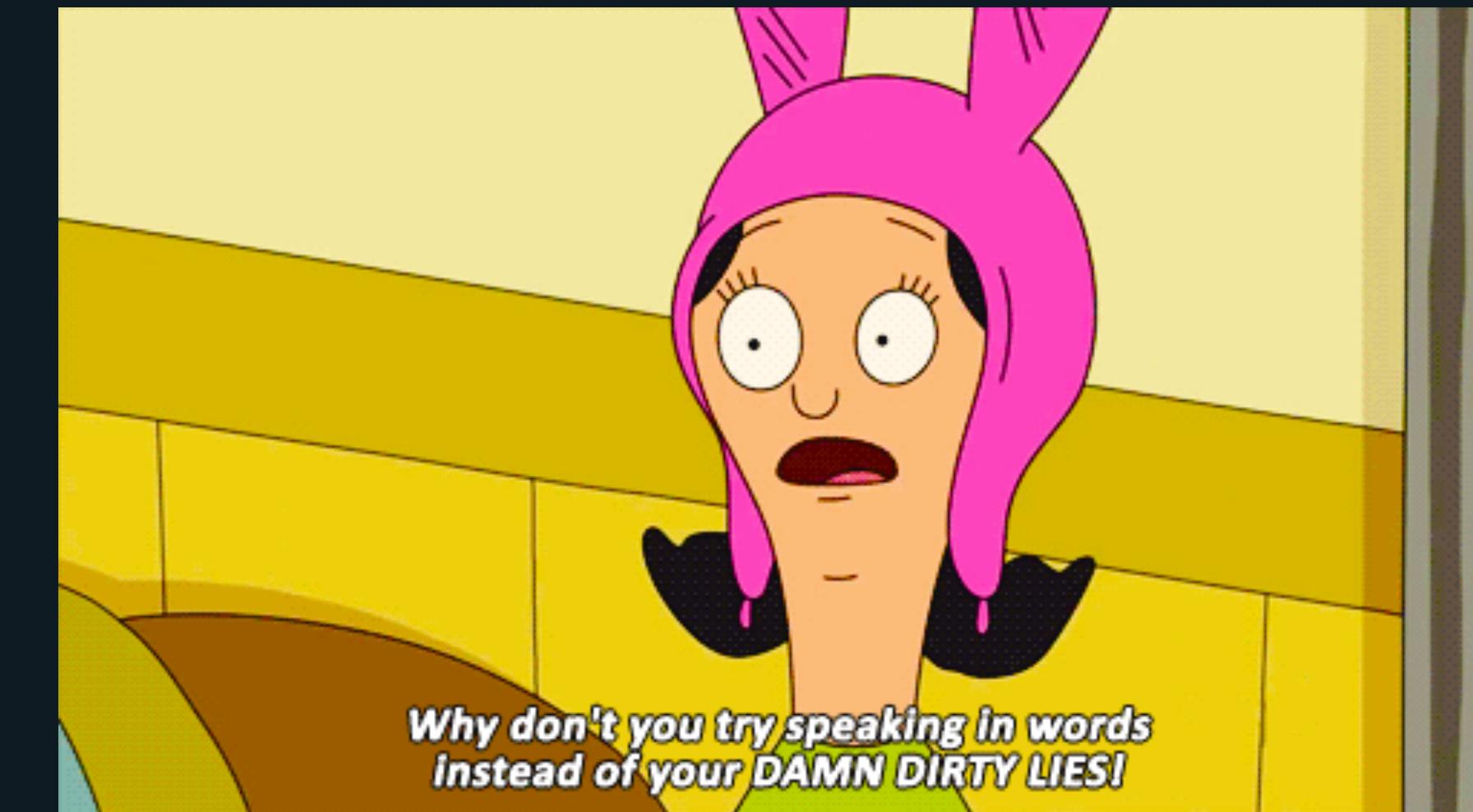
# i'm matt

- GitHub Trainer
- Big Bob's Burgers fan
- Documented a bunch of stuff in my past life
- Probably in an airport

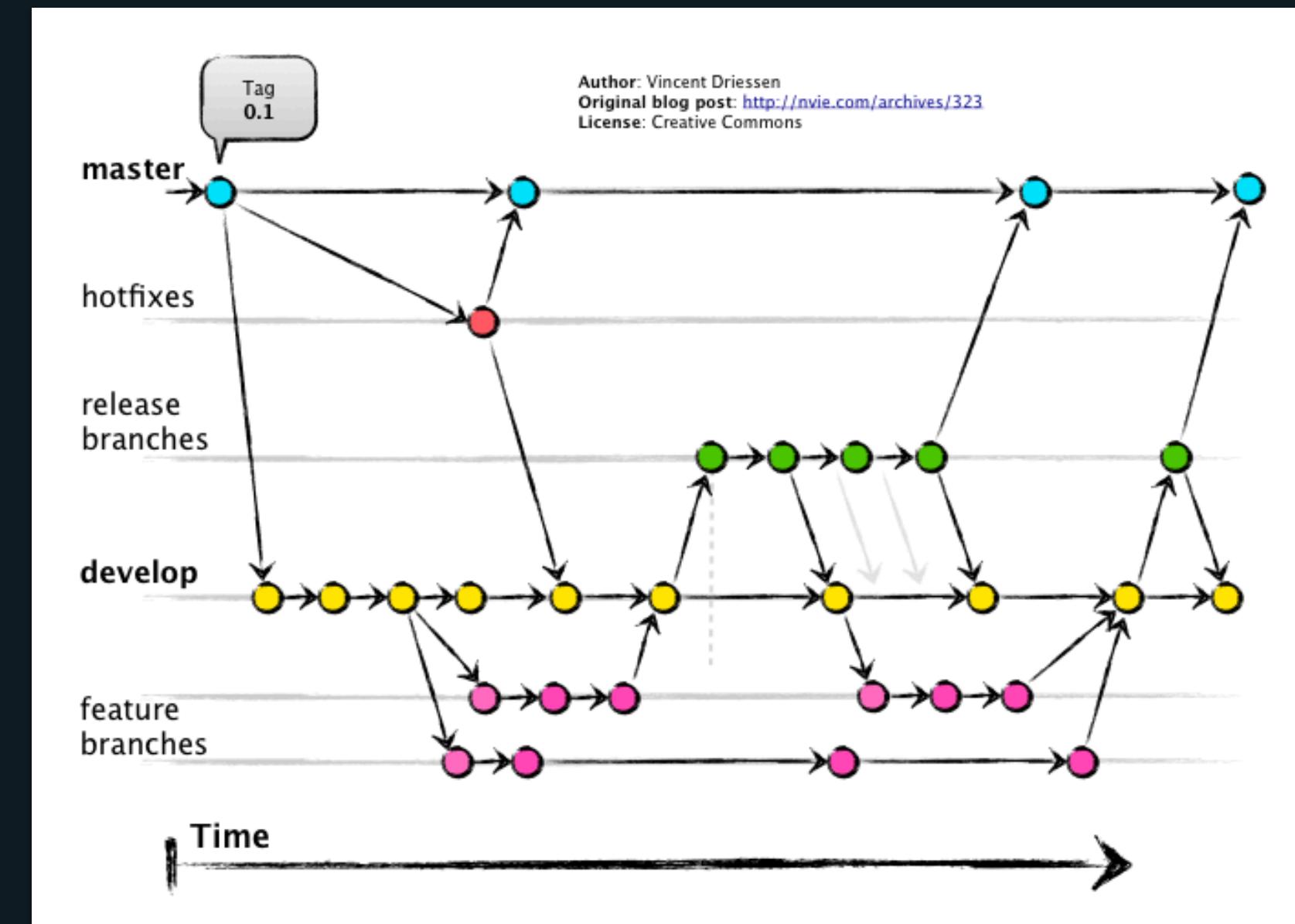
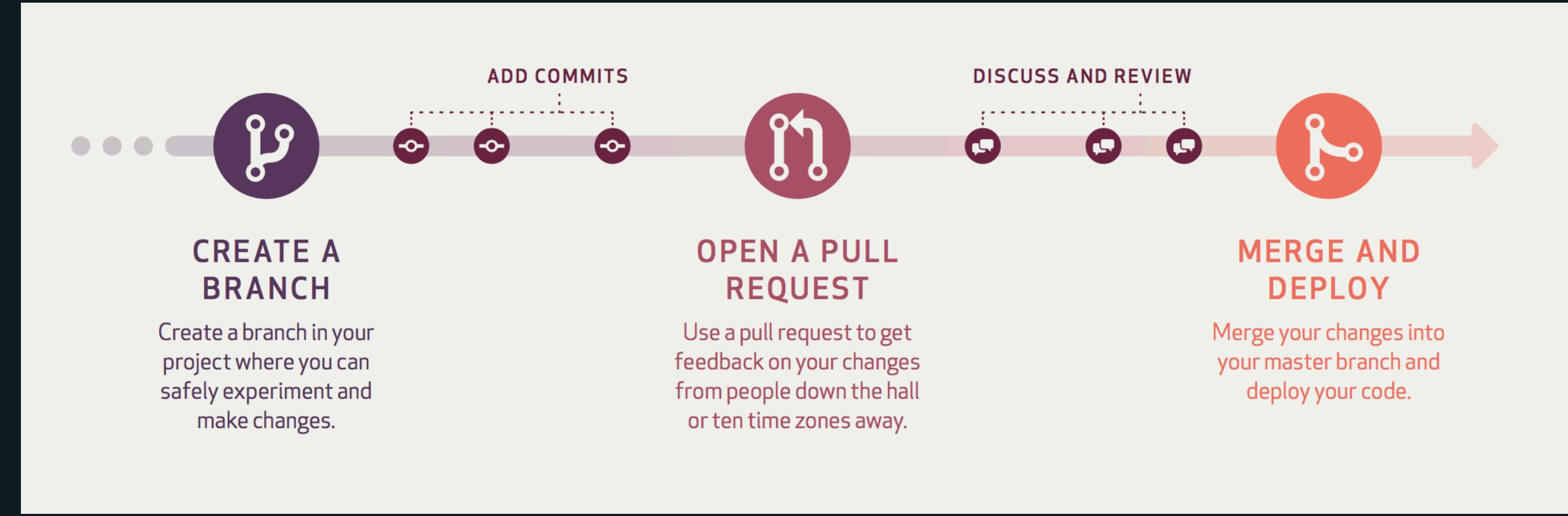


# what if i can make git-ing easier?

- review helpful alias
- talk about commands you should be using
- avoid problems by using workflows correctly



# workflow



# covering things

| Config                            | Working              | Staging      | History                |
|-----------------------------------|----------------------|--------------|------------------------|
| multi-command alias<br>.gitignore | add -p<br>git status | commit amend | rebase -i<br>--no-edit |
|                                   |                      |              |                        |

# alias (simple)

- co = git checkout -b

```
~/g/s/tipsntricks >>> git co newer-branch
Switched to a new branch 'newer-branch'
~/g/s/tipsntricks >>> █
```

- s = status

```
~/g/s/tipsntricks >>> git s
On branch newer-branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    example-file.md
```

- unstage = reset HEAD

# alias (not as simple)

- open = "!f() { REPO\_URL=\$(git config remote.origin.url); open \${REPO\_URL%%.git}; }; f"
- browse = !git open

<http://haacked.com/archive/2017/01/04/git-alias-open-url/>

# alias (multi-tasking)

```
chs = !git checkout $1 $2 && git status && :
```

```
~/g/s/tipsntricks >>> git chs -b new-branch                         master
Switched to a new branch 'new-branch'
On branch new-branch
nothing to commit, working directory clean
~/g/s/tipsntricks >>> git chs master                                     new-branch
Switched to branch 'master'
On branch master
nothing to commit, working directory clean
~/g/s/tipsntricks >>> touch example-file.md                           master
~/g/s/tipsntricks >>> git chs new-branch                                master
Switched to branch 'new-branch'
On branch new-branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)

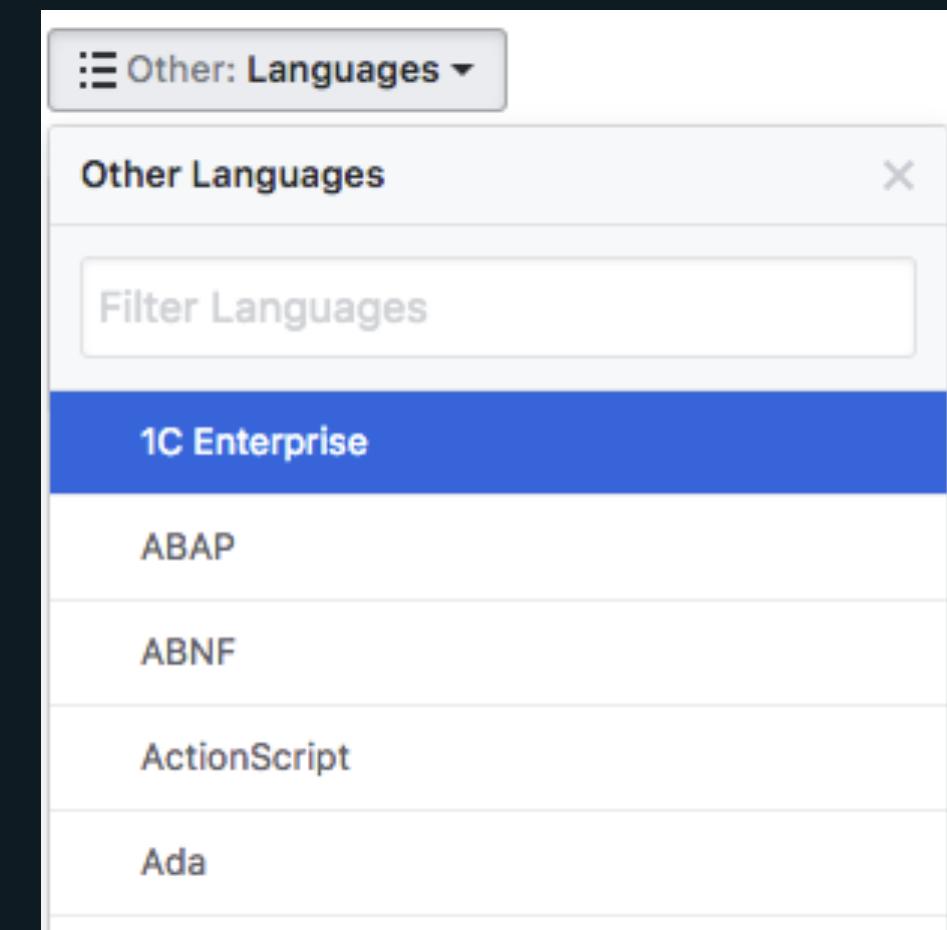
    example-file.md

nothing added to commit but untracked files present (use "git add" to track)
~/g/s/tipsntricks >>>                                             new-branch
```

# stop ignoring

- Stop making .gitignore files from scratch, grab them from Open Source projects like:  
GitHub's gitignore Repo <https://github.com/github/gitignore>
- But they don't have my language listed!?!?!!?  
Use GitHub Trending (<https://github.com/trending>) to find Open Source in any\* language.

\*not guaranteed.



# automatic ignore engaged

- [alias]

```
ignores = !(curl -o .gitignore https://  
raw.githubusercontent.com/github/gitignore/master/  
VisualStudio.gitignore) && git add . && git commit -m  
“gitignore” && :
```

Where “VisualStudio.gitignore” is the .gitignore file you want.



Rob Cooper for initial ignore design  
(<https://coderwall.com/p/ywqaxw/git-alias-for-quickly-adding-gitignore-files-from-github>)

# covering things

Config

multi-command alias  
.gitignore

Working

add -p  
git status

Staging

commit  
amend

History

rebase -i  
--no-edit

# add -p

```
[~/g/s/tipsntricks >>> git add -p patch.md          ↵master ↑*
```

```
diff --git a/patch.md b/patch.md
[index 0bafcf2..ec997d3 100644
--- a/patch.md
+++ b/patch.md
@@ -1,6 +1,6 @@
    This is an example of `add -p`.

-This is content on line 3.
+This is content on line III.

Stage this hunk [y,n,q,a,d,/,j,J,g,e,?]? y
@@ -10,4 +10,4 @@ This is content on line 3.

-This is content on line 13.
+This is content on line XIII and unrelated to line III.
Stage this hunk [y,n,q,a,d,/,K,g,e,?]? n

[~/g/s/tipsntricks >>> git status
On branch master
Your branch is ahead of 'origin/master' by 4 commits.
  (use "git push" to publish your local commits)
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   patch.md

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   patch.md
```

# git status

- obviously you use git status all the time ... but, check this out:

```
[~/g/s/tipsntricks >>> git status
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   hello.md

no changes added to commit (use "git add" and/or "git commit -a")
[~/g/s/tipsntricks >>> git status -s
  M hello.md
[~/g/s/tipsntricks >>> git status -sb
## master...origin/master [ahead 1]
  M hello.md
```

# covering things

Config

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# amending commit

- git commit --amend to modify a commit you just made.

```
[~/g/s/tipsntricks >>> git add README.md
[~/g/s/tipsntricks >>> git commit -m "Initializes with READMR.md"
[master (root-commit) 9967374] Initializes with READMR.md
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
[~/g/s/tipsntricks >>> git commit --amend
[master 40aa7a7] Initialize with README.md
 Date: Tue Apr 25 23:39:55 2017 -0400
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
~/g/s/tipsntricks >>> ]
```



# adding files to last commit



*Let's see your "everything is okay" face.*

```
[~/g/s/tipsntricks >>> touch file1.md
[~/g/s/tipsntricks >>> git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    file1.md

nothing added to commit but untracked files present (use "git add" to track)
[~/g/s/tipsntricks >>> git add file1.md
[~/g/s/tipsntricks >>> git status
On branch master
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

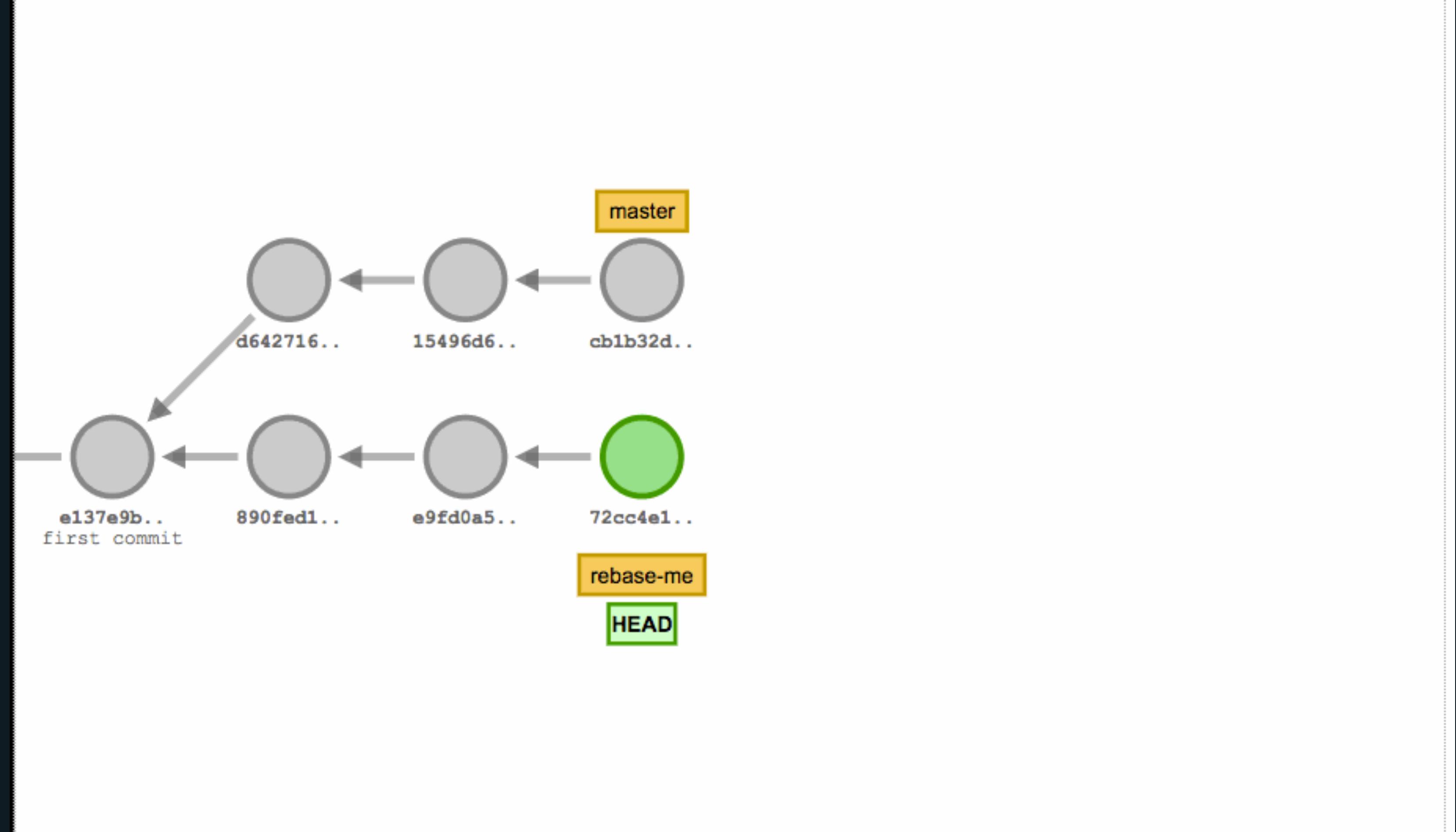
    new file:   file1.md

[~/g/s/tipsntricks >>> git commit --amend
[master 6b95db3] Initialize with README.md and file1.md
  Date: Tue Apr 25 23:39:55 2017 -0400
  2 files changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 README.md
  create mode 100644 file1.md
~/g/s/tipsntricks >>>
```

# covering things

| Config                            | Working              | Staging      | History                |
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| multi-command alias<br>.gitignore | add -p<br>git status | commit amend | rebase -i<br>--no-edit |
|                                   |                      |              |                        |

# rebase



# interactive rebase

```
[~/G/s/rebase-ex >>> git log --oneline
ba30803 edit content due to headings
6fd89af formatting with headings
9b797cc add additional content
b5bbf6c add content and edit
5a5a1c6 add more content
25e52e7 add content
a26da1d initial commit
[~/G/s/rebase-ex >>> git rebase -i master HEAD~7
fatal: no such branch: HEAD~7
[~/G/s/rebase-ex >>> git rebase -i HEAD~6
[detached HEAD ea83341] add content
  Date: Wed Apr 26 13:27:55 2017 -0400
  1 file changed, 7 insertions(+)
[detached HEAD 8236c22] formatting with headings
  Date: Wed Apr 26 13:29:34 2017 -0400
  1 file changed, 6 insertions(+), 3 deletions(-)
Successfully rebased and updated refs/heads/rebase-this.
[~/G/s/rebase-ex >>> git log --oneline
8236c22 formatting with headings
ea83341 add content
a26da1d initial commit
```

# --no-edit

- Tired of having to close that automatically generated commit message for a merge?

```
[~/g/s/tipsntricks >>> git merge new-branch --no-edit
Updating 3fb5d5d0..a563030
Fast-forward
  new-branch.md | 0
   1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 new-branch.md
```



# amend AND no edit?

```
[~/g/s/tipsntricks >>> git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   hello.md

[~/g/s/tipsntricks >>> git commit --amend --no-edit
[master 9238b7b] add new-branch.md
Date: Wed Apr 26 01:02:49 2017 -0400
2 files changed, 1 insertion(+)
create mode 100644 new-branch.md
```

# closing stuff

- Automatically closes Issues by Merging Pull Requests
  - Fix / Fixes / Fixed
  - Close / Closes / Closed
  - Resolve / Resolves / Resolved

A screenshot of a GitHub pull request interface. At the top, there's a status bar with a star icon, the text "beardofedu referenced this issue 21 seconds ago", and a "Merged" button. Below this, a commit message says "Update README.md #2". At the bottom, there's another status bar with a circular icon containing a zero, the text "beardofedu closed this in #2 14 seconds ago", and a "Merged" button.

A screenshot of the GitHub "Open a pull request" interface. The title is "Open a pull request" and the subtitle is "Create a new pull request by comparing changes across two branches". It shows a base branch of "master" and a compare branch of "close-issue". A user profile picture of a person with glasses and a beard is shown next to a commit message "Update README.md". Below it, there are "Write" and "Preview" buttons. A blue callout box highlights the text "Closes #1" and "#1 Example Issue".

# to do items

- Create and track things to do, right in your issue or pull request!

↗ **Training: Git Reset course ✓**

#417 by beardofedu was merged on Jan 17 • Approved 26 of 32

**Things to do [Updated: 12.27.16]**

- New Outline with Welcome Page / Scenarios description
- Create new drop downs for Pushed / Didn't Push
- Scenario Intros (on actual scenario page)
  - Committed Something on Accident
  - Committed to Wrong Branch
  - Commit Message Sucks
  - Commit Broke EVERYTHING
  - Too Many Commits!
- Steps for Pushed per Scenario
  - Committed Something on Accident
  - Committed to Wrong Branch
  - Commit Message Sucks
  - Commit Broke EVERYTHING
  - Too Many Commits!

### Things to do [Updated: 12.27.16]

- [x] New Outline with Welcome Page / Scenarios description
- [x] Create new drop downs for Pushed / Didn't Push
- [x] Scenario Intros (on actual scenario page)
- [x] Committed Something on Accident
- [x] Committed to Wrong Branch
- [x] Commit Message Sucks
- [x] Commit Broke EVERYTHING
- [x] Too Many Commits!
- [x] Steps for Pushed per Scenario
- [x] Committed Something on Accident
- [x] Committed to Wrong Branch
- [x] Commit Message Sucks
- [x] Commit Broke EVERYTHING
- [x] Too Many Commits!

beardofedu commented on Mar 7 • edited

City Voting  
@hectorsector @brianamarie @crichID @hollenberry @stoe

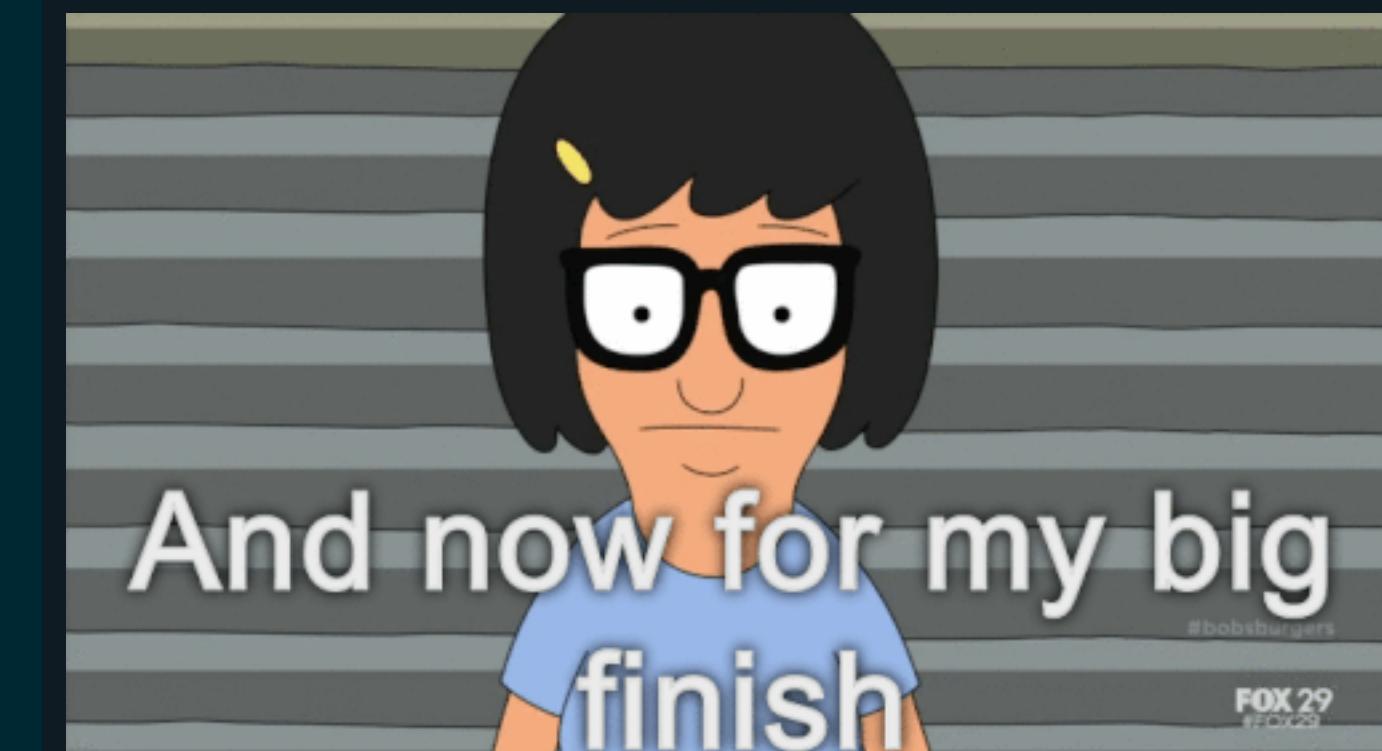
👍 Nashville, TN  
😊 Raleigh-Durham, NC  
❤️ Milwaukee  
🎉 Boston  
🤔 Savannah, GA  
👎 I hate these options, I need something else

Additional options that don't get emoji support (due to 6 reactions supported on .com):  
Prince Edward Island (Canada)  
Orlando, FL  
Minneapolis, MN

👍 3   😊 1   🎉 3   🤔 1   ❤️ 1

# reset hard to restore?

```
[~/g/s/tipsntricks >>> ls
README.md      file1.md      hello.md      new-branch.md
[~/g/s/tipsntricks >>> git log --oneline
9238b7b add new-branch.md
3fb5d0 add hello.md
7036b83 Initialize with README.md and file1.md
[~/g/s/tipsntricks >>> git reset --hard 7036
HEAD is now at 7036b83 Initialize with README.md and file1.md
[~/g/s/tipsntricks >>> ls
README.md file1.md
[~/g/s/tipsntricks >>> git reflog
7036b83 HEAD@{0}: reset: moving to 7036
9238b7b HEAD@{1}: commit (amend): add new-branch.md
a563030 HEAD@{2}: merge new-branch: Fast-forward
3fb5d0 HEAD@{3}: checkout: moving from new-branch to master
a563030 HEAD@{4}: commit: add new-branch.md
3fb5d0 HEAD@{5}: checkout: moving from master to new-branch
3fb5d0 HEAD@{6}: commit: add hello.md
7036b83 HEAD@{7}: checkout: moving from new-branch to master
7036b83 HEAD@{8}: checkout: moving from master to new-branch
7036b83 HEAD@{9}: commit (amend): Initialize with README.md and file1.md
6b95db3 HEAD@{10}: commit (amend): Initialize with README.md and file1.md
40aa7a7 HEAD@{11}: commit (amend): Initialize with README.md
9967374 HEAD@{12}: commit (initial): Initializes with README.md
[~/g/s/tipsntricks >>> git reset --hard 9238
HEAD is now at 9238b7b add new-branch.md
[~/g/s/tipsntricks >>> ls
README.md      file1.md      hello.md      new-branch.md
[~/g/s/tipsntricks >>> git log --oneline
9238b7b add new-branch.md
3fb5d0 add hello.md
7036b83 Initialize with README.md and file1.md
```



And now for my big  
finish

# covering things

| Config                            | Working              | Staging         | History                |
|-----------------------------------|----------------------|-----------------|------------------------|
| multi-command alias<br>.gitignore | add -p<br>git status | commit<br>amend | rebase -i<br>--no-edit |

# good-bye :wave:

- find me: @beardofedu / beardofedu@github.com
- [services.github.com](https://services.github.com)
- [services@github.com](mailto:services@github.com)



# q & a ???

