

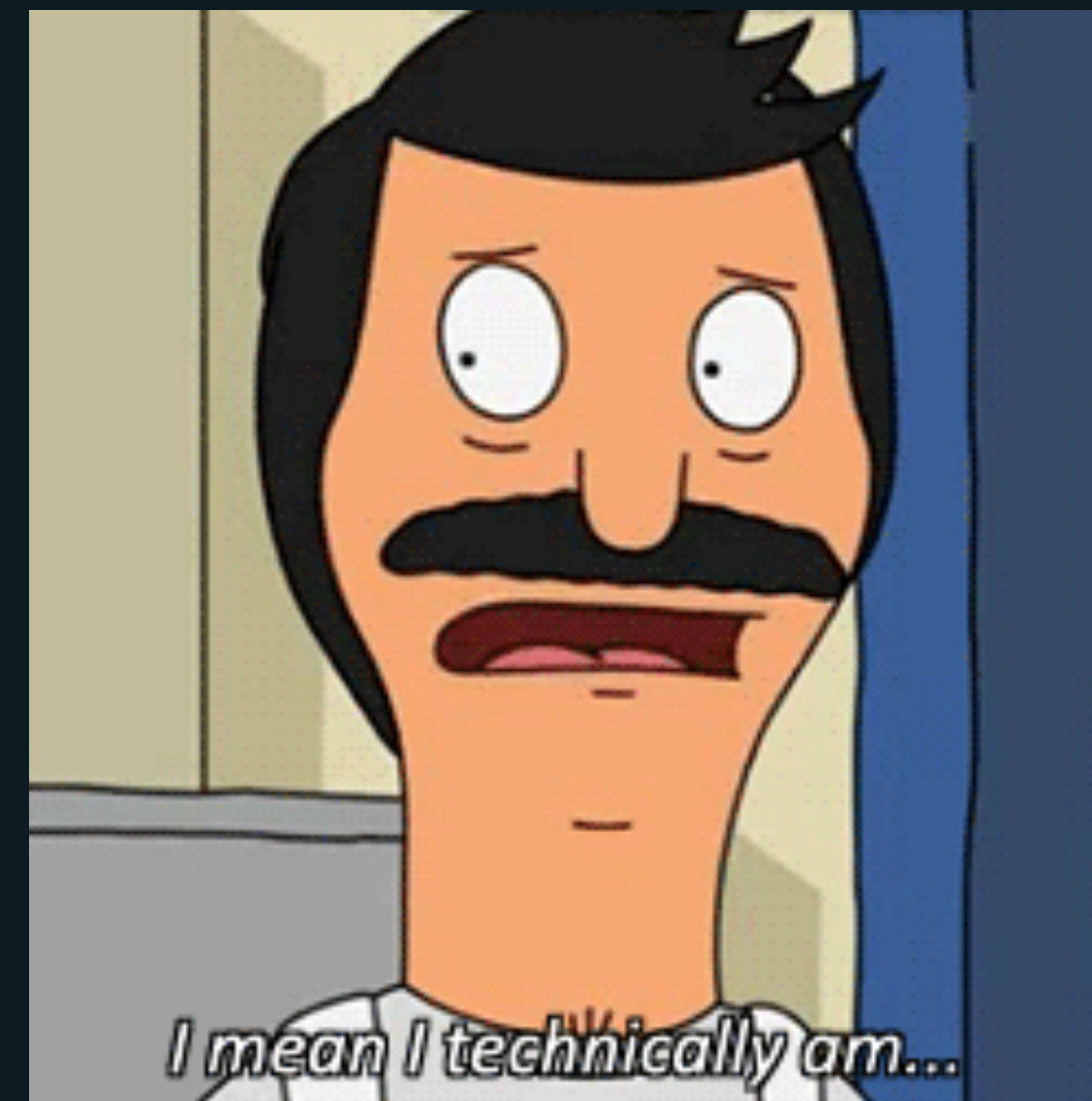


Git Tips & Tricks

hosted by me, matt desmond!

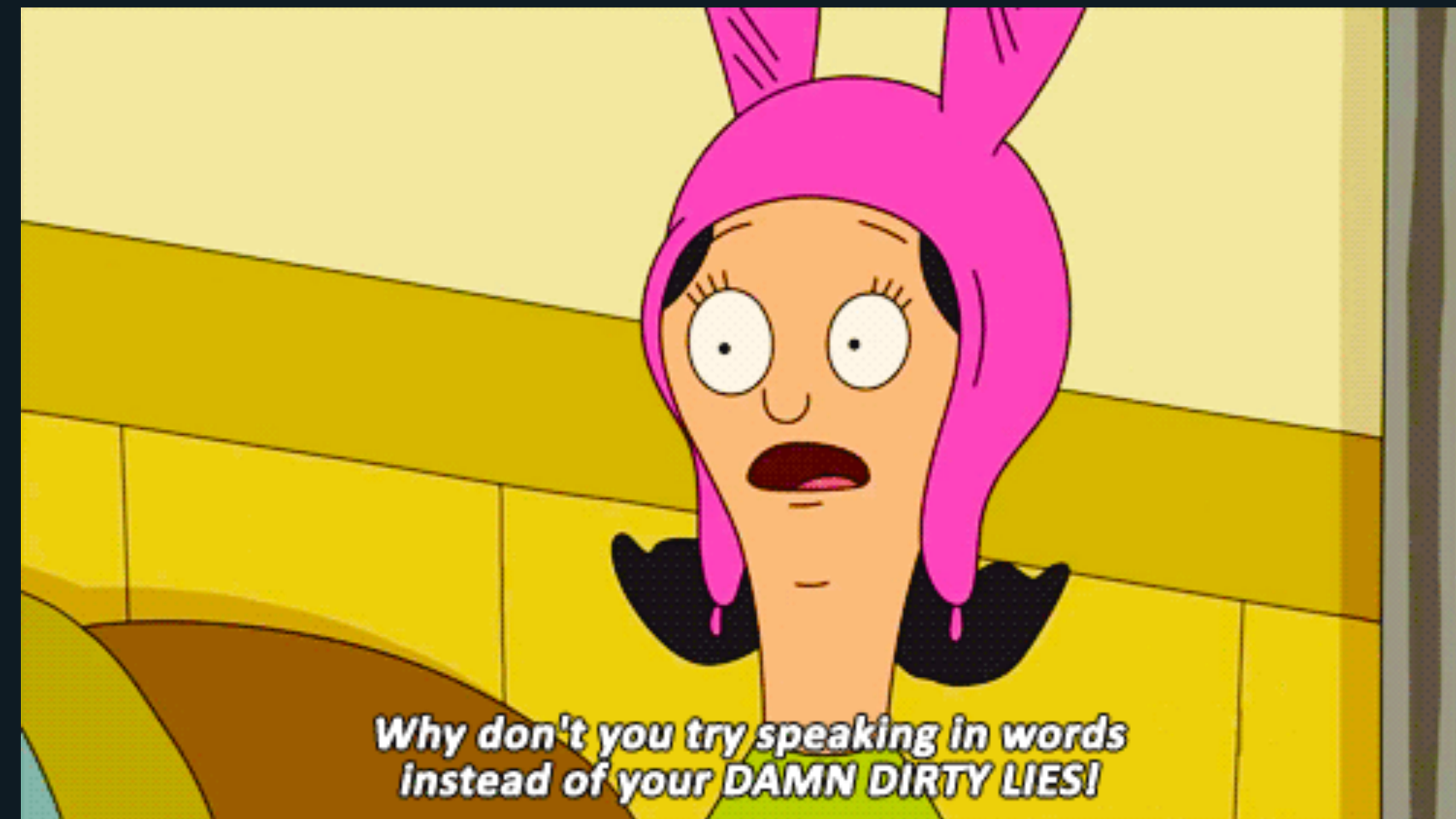
i'm matt

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

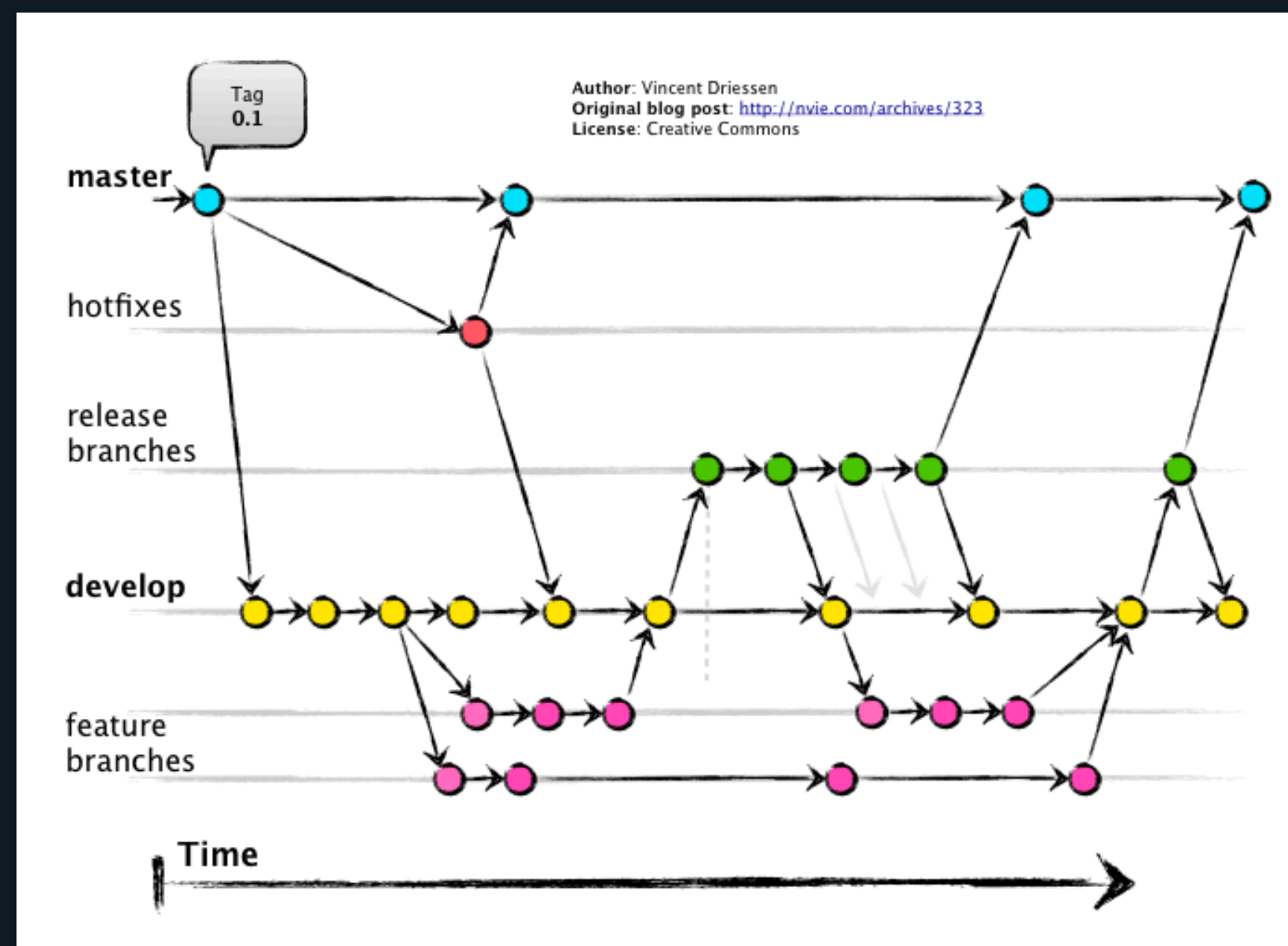
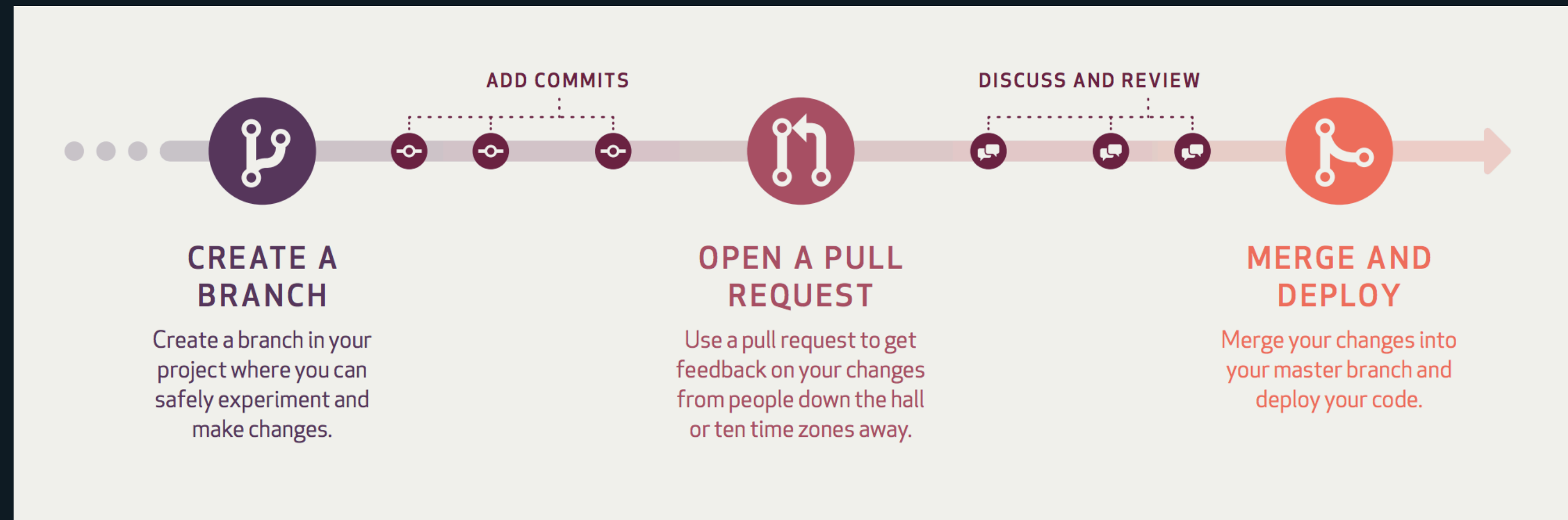


what if i can make git-ing easier?

- 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 .gitignore	add -p git status	commit amend	rebase -i --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)

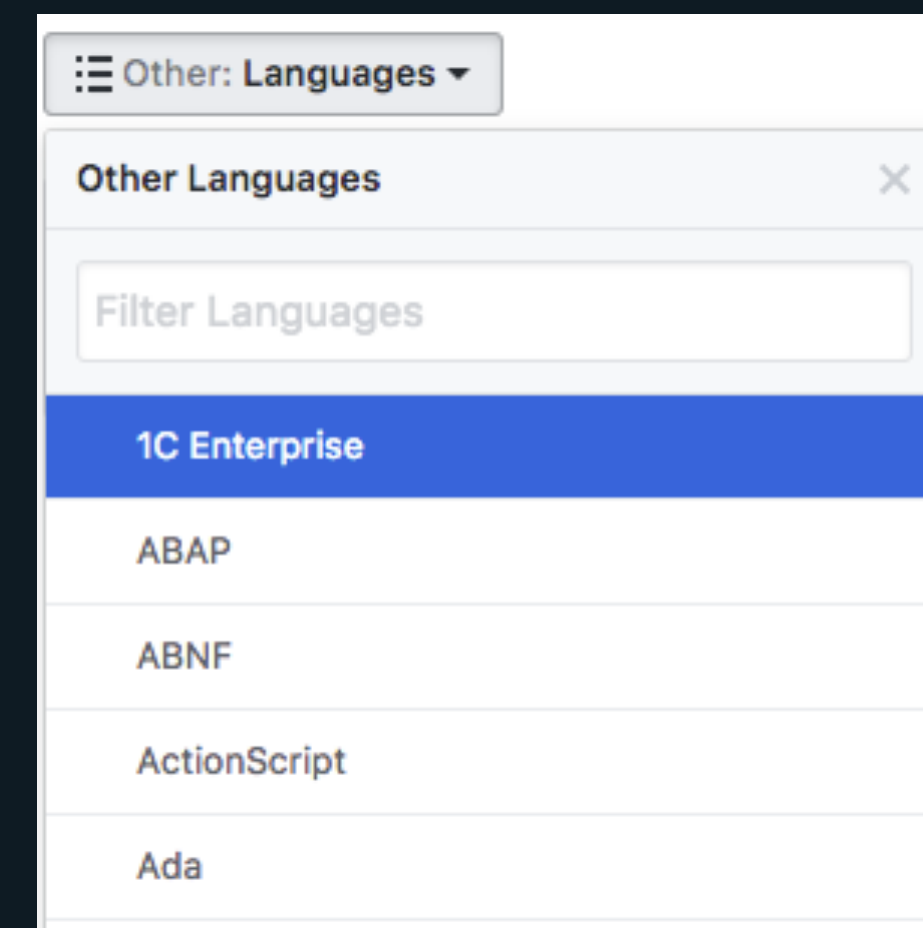
        example-file.md

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	Working	Staging	History
multi-command alias .gitignore	add -p git status	commit amend	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	Working	Staging	History
multi-command alias .gitignore	add -p git status	commit amend	rebase -i --no-edit

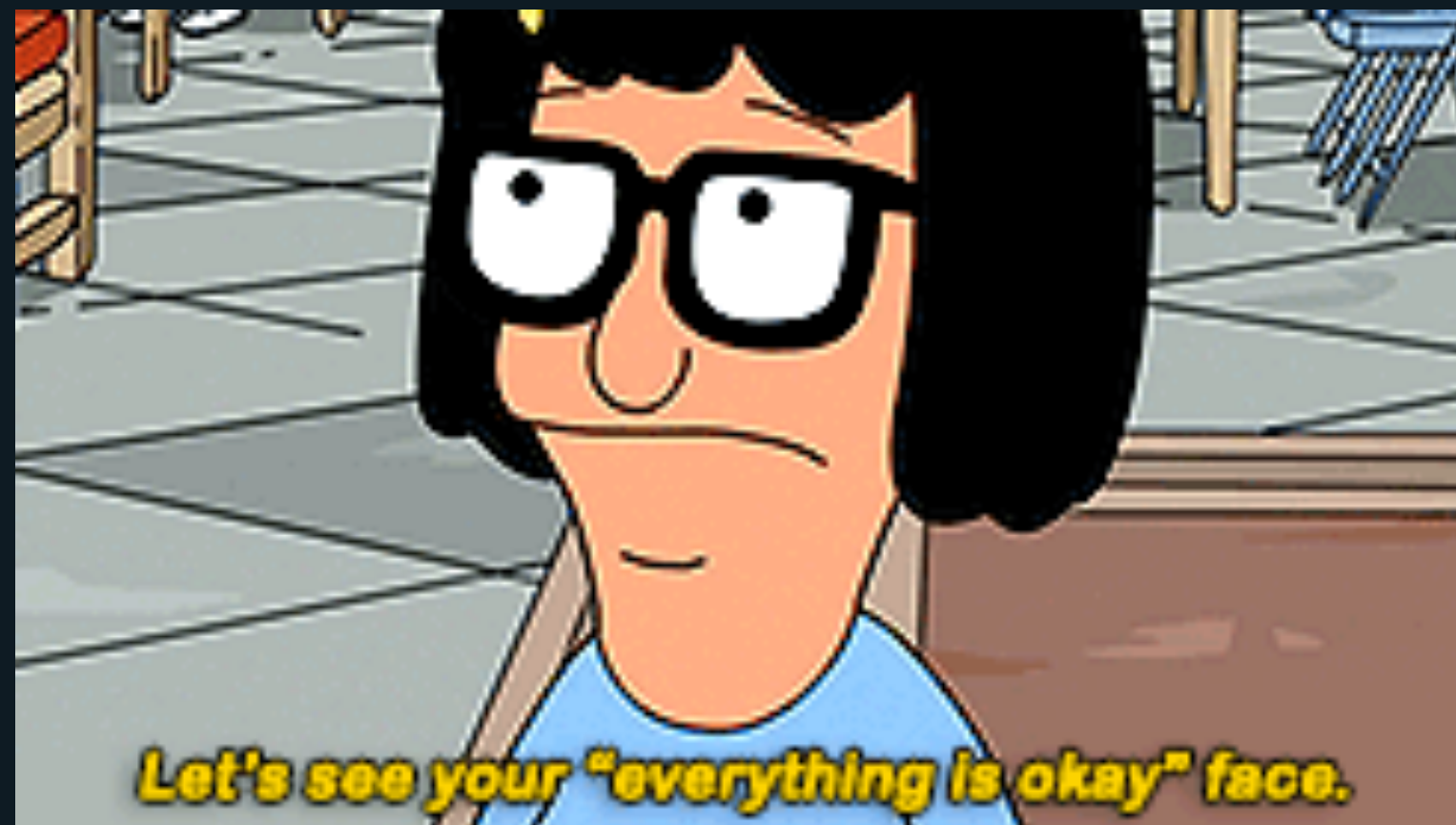
amending commit

- `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



```
[~/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)

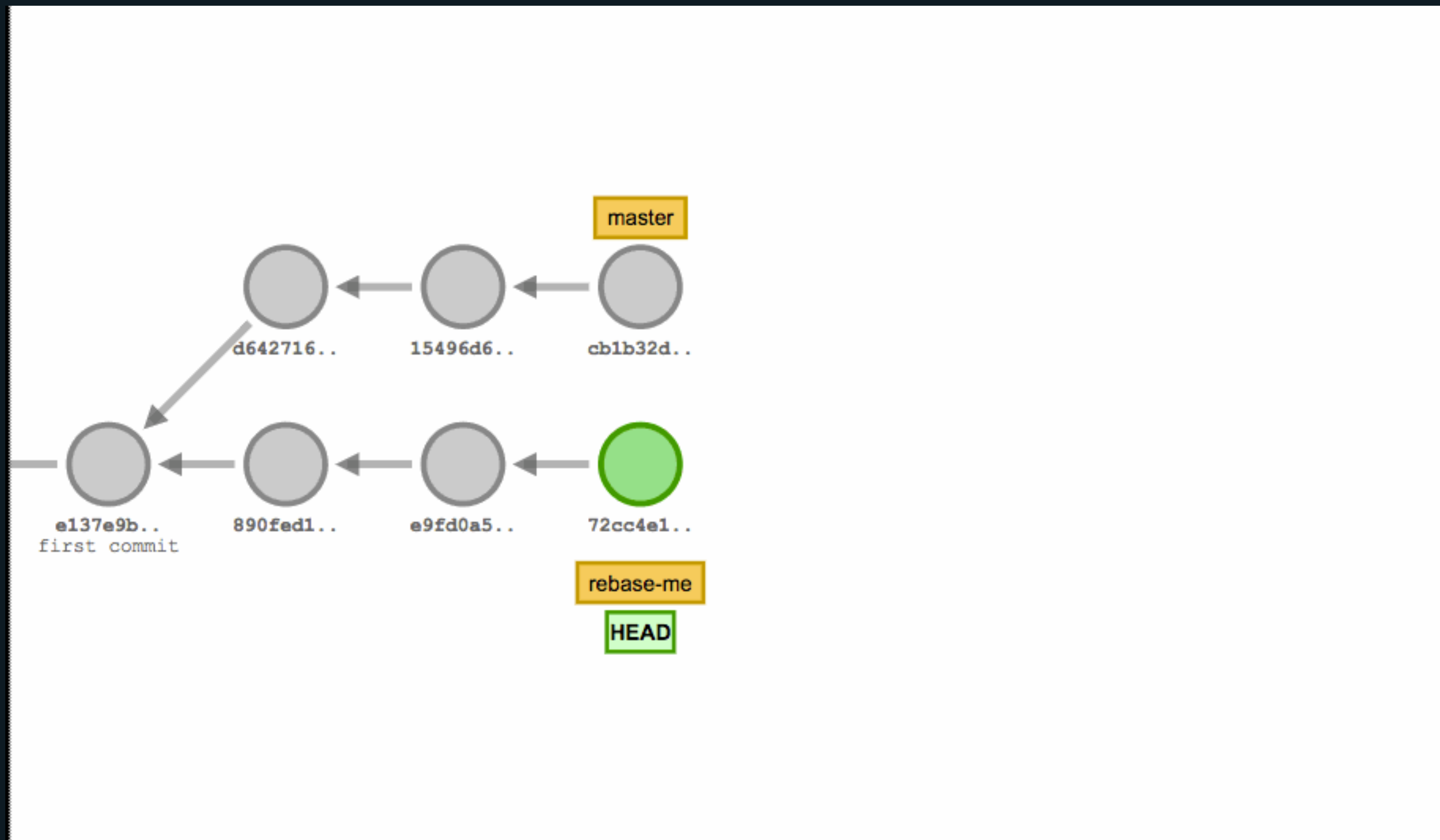
        new file:   file1.md

~/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
multi-command alias .gitignore	add -p git status	commit amend	rebase -i --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 3fbd5d0..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
```

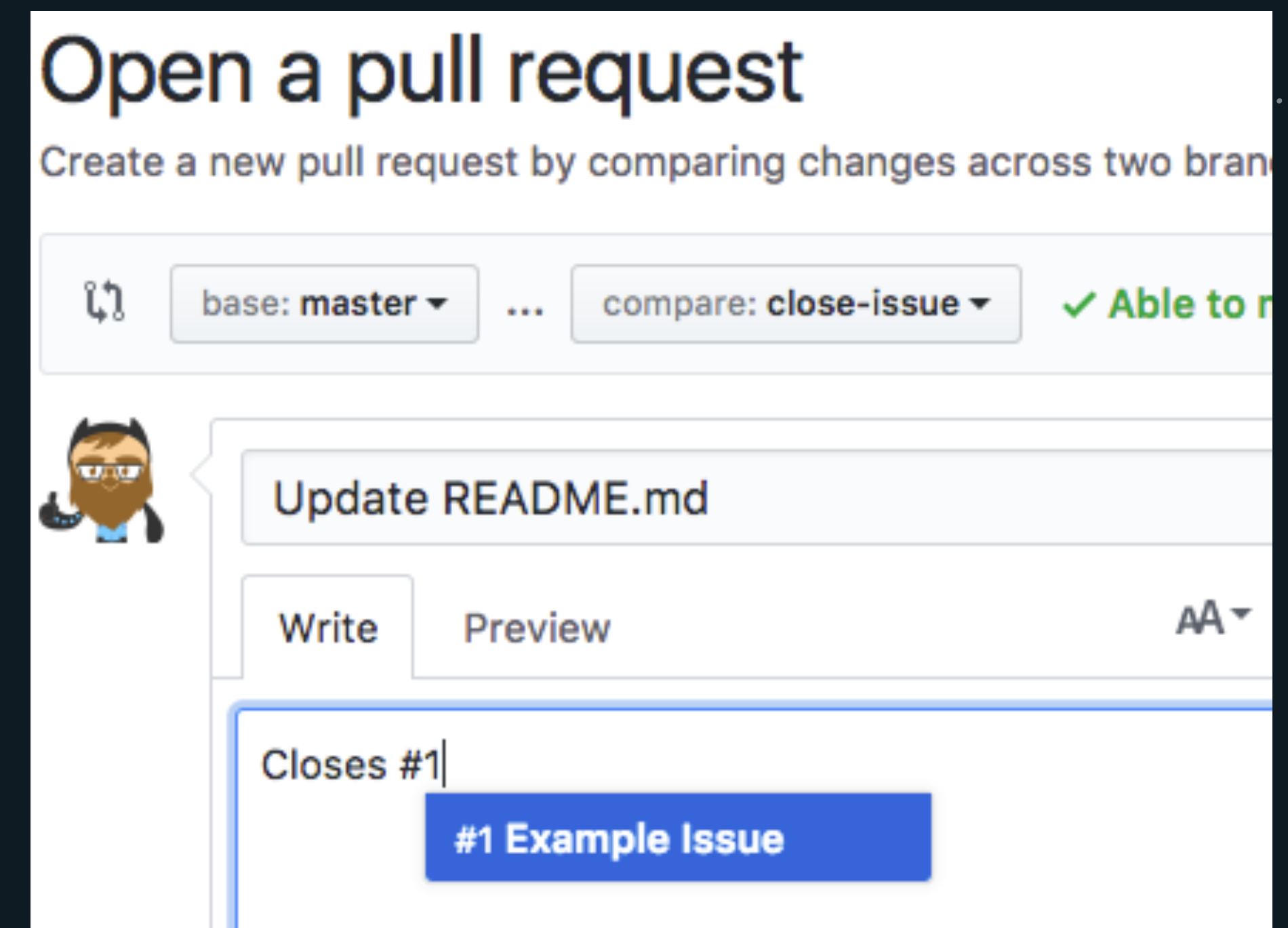
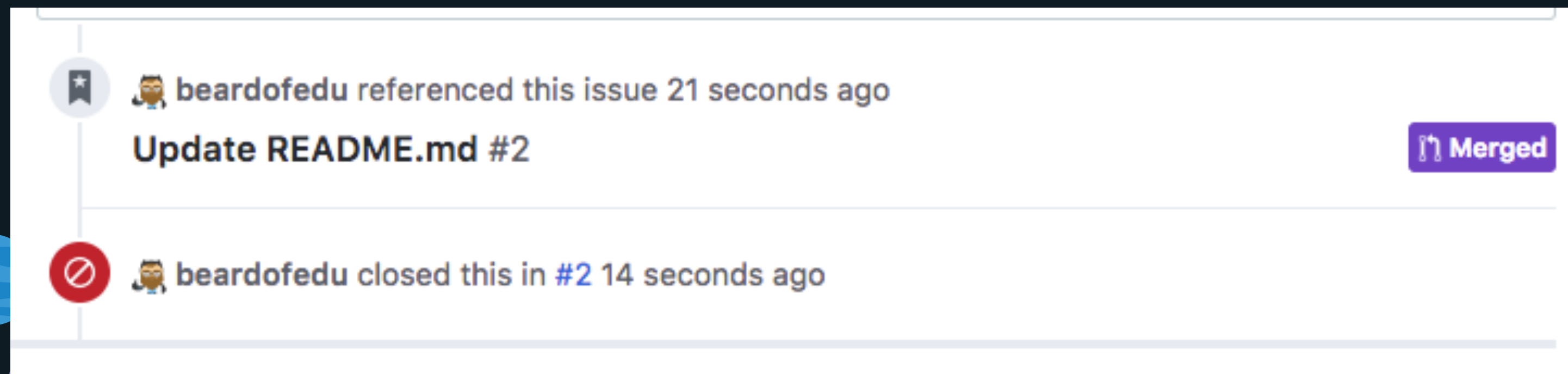
```
Date: Wed Apr 26 01:02:49 2017 -0400
```

```
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



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!

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- [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

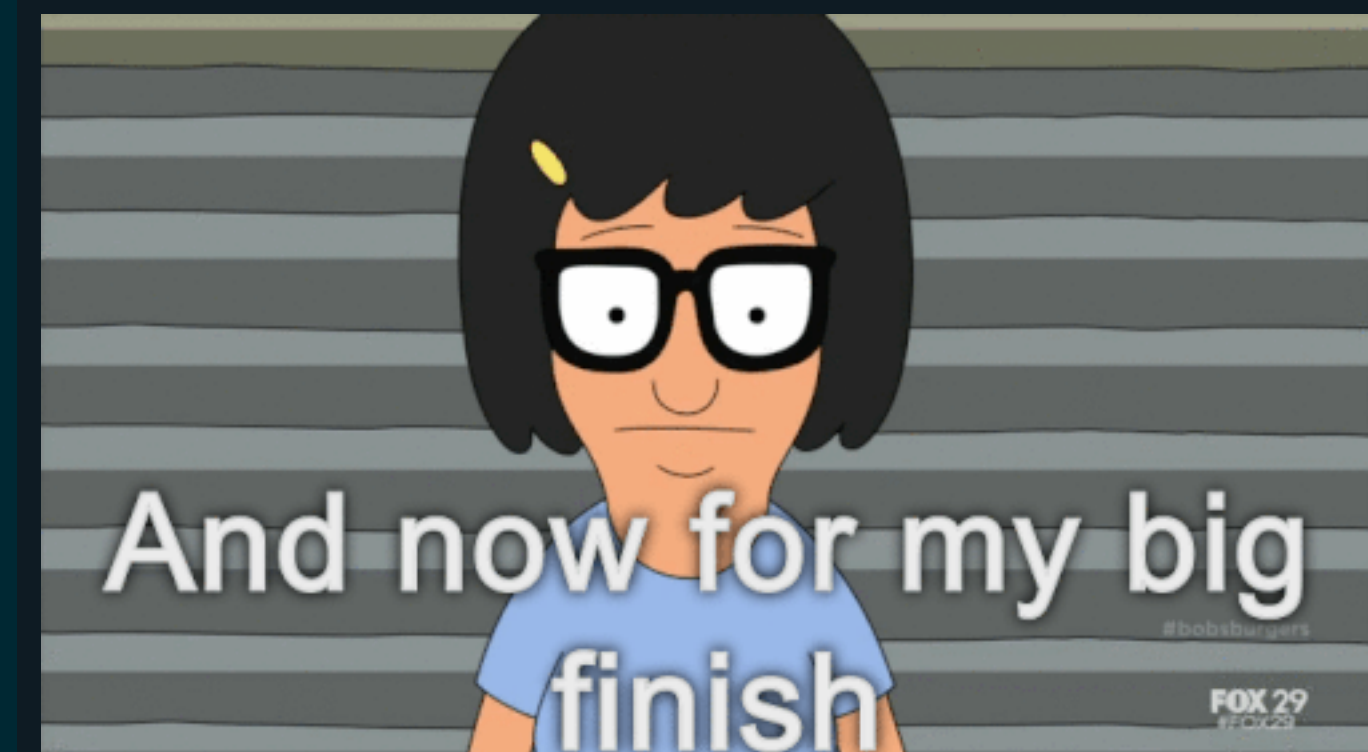
 3

 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
3fbd5d0 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
3fbd5d0 HEAD@{3}: checkout: moving from new-branch to master
a563030 HEAD@{4}: commit: add new-branch.md
3fbd5d0 HEAD@{5}: checkout: moving from master to new-branch
3fbd5d0 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 READMR.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
3fbd5d0 add hello.md
7036b83 Initialize with README.md and file1.md
```



covering things

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

good-bye :wave:

- find me: @beardofedu / beardofedu@github.com
- services.github.com
- services@github.com



q & a ???

