



Everything I wish I knew when I started using GitHub



Everything I wish I knew when I started using GitHub

Who am I?



BRENT BEER



SALES ENGINEER





But wait a second,
let's chat: Why open
source?



But wait a second,
let's chat: Why open
source?

Largest Subversion Host



SVN HUB!

If you have people coming over from SVN, it may be easier to just have them use their existing commands to get their project over.

April 1, 2010 schacon New Features

Ever wanted to use SVN to grab code from GitHub? Well, now you can, and just like that GitHub is the world's biggest Subversion host. Here's a few things you might like to do with it:

- Use any GitHub repository as an SVN external.
- Use TortoiseSVN or your favorite SVN tool to view Git repositories.
- Use existing build tools or continuous integrations systems that only work with SVN.

How's it work? Just checkout your project from svn.github.com:

```
svn checkout http://svn.github.com/schacon/simplegit.git
```

Give it a shot! For now it's only read-only, but who knows what will happen in the future!

Update: I'd just like to reiterate that even though we had some fun with the timing of this announcement that it ACTUALLY WORKS!

Update: Subversion support has been upgraded. Projects should be checked out from [github.com](https://github.com/schacon/kidgloves) rather than svn.github.com:

```
svn checkout https://github.com/schacon/kidgloves
```

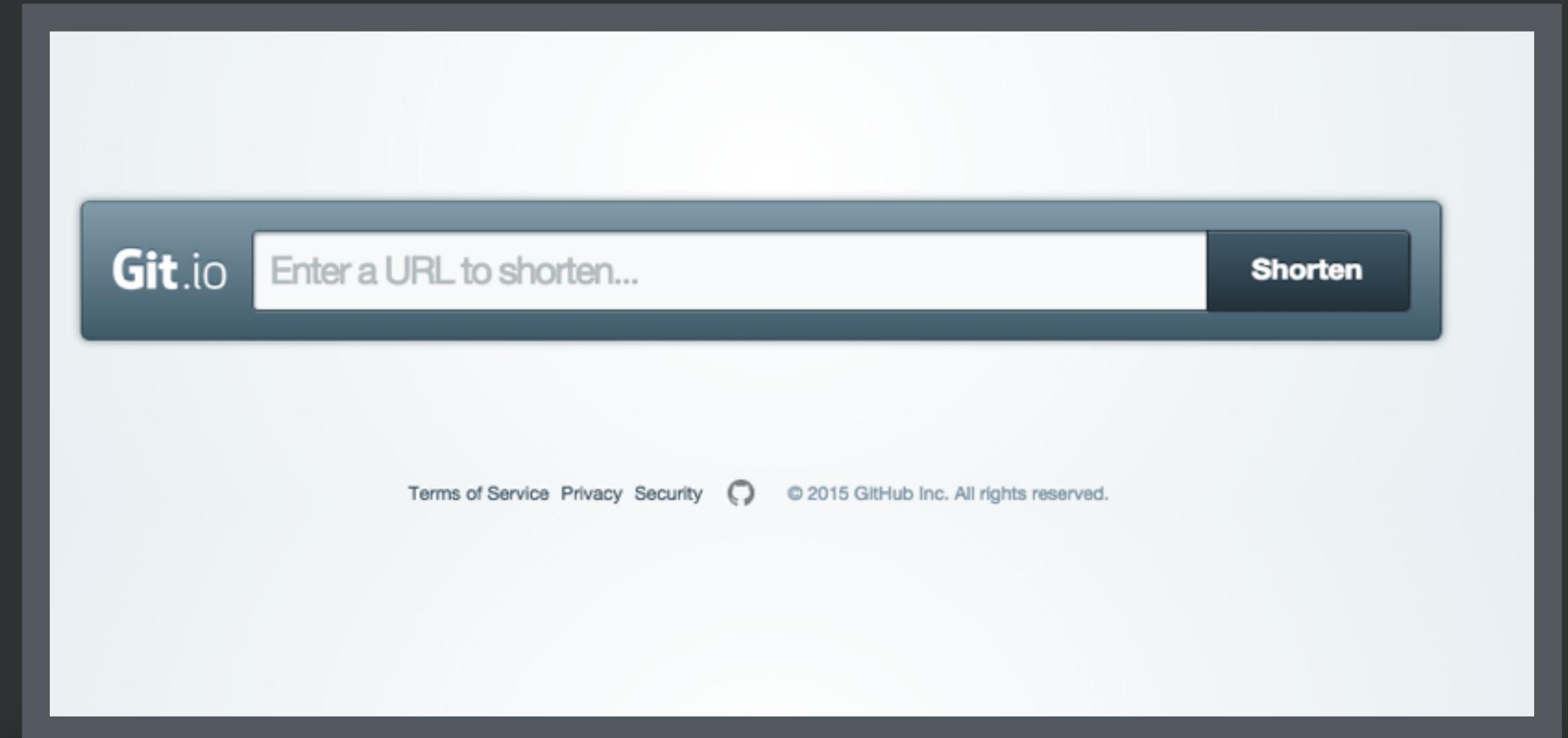
```
[/brntbeer/github]$ svn checkout https://github.com/brntbeer/training-utils
```

Easy URL Sharing



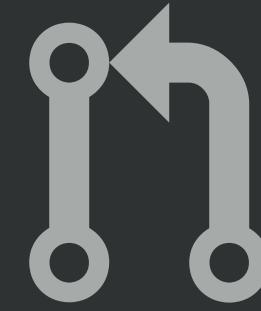
GIT.IO URL SHORTENER

Ever wish you had a
smaller URL to share with
your coworkers?



[/brntbeer/github]\$

Pull Requests as Patches



.PATCH

Adding a .patch to your pull request URL will generate a formatted patch.

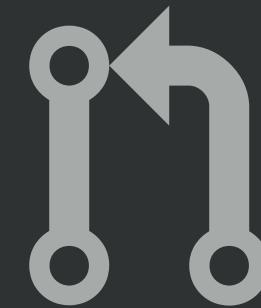
```
From be2fca6e2a0503cb99e09c8c45b90f9b064bea8b Mon Sep 17 00:00:00 2001
From: Brent Beer <brent.beer@gmail.com>
Date: Mon, 20 Jul 2015 10:48:32 -0700
Subject: [PATCH 1/2] open source of script to add collaborators

---
add-collaborators.rb | 65 ++++++++++++++++++++++++++++++++++++++++
1 file changed, 65 insertions(+)
create mode 100644 add-collaborators.rb

diff --git a/add-collaborators.rb b/add-collaborators.rb
new file mode 100644
index 000000..ba7afbd
--- /dev/null
+++ b/add-collaborators.rb
@@ -0,0 +1,65 @@
+#
+#
+## add-collaborators.rb
+## add as collaborators anyone who comments on a given issue in a given repo
+## assumes you created and stored the appropriate OAuth token as an ENV variable called GITHUBTEACHER_TOKEN
+
+require 'octokit'
+require 'optparse'
+
+
+## Make sure arguments are specified
+ARGV << '-h' if ARGV.empty?
+
```



Pull Requests as Patches



.PATCH

Adding a .patch to your pull request URL will generate a formatted patch.

```
From be2fc6e2a0503cb99e09c8c45b90f9b064bea8b Mon Sep 17 00:00:00 2001
From: Brent Beer <brent.beer@gmail.com>
Date: Mon, 20 Jul 2015 10:48:32 -0700
Subject: [PATCH 1/2] open source of script to add collaborators

---
add-collaborators.rb | 65 ++++++++++++++++++++++++++++++++++++++++
1 file changed, 65 insertions(+)
create mode 100644 add-collaborators.rb

diff --git a/add-collaborators.rb b/add-collaborators.rb
new file mode 100644
index 000000..ba7afbd
--- /dev/null
+++ b/add-collaborators.rb
@@ -0,0 +1,65 @@
+#
+#
+## add-collaborators.rb
+## add as collaborators anyone who comments on a given issue in a given repo
+## assumes you created and stored the appropriate OAuth token as an ENV variable called GITHUBTEACHER_TOKEN
+
+require 'octokit'
+require 'optparse'
+
+
+## Make sure arguments are specified
+ARGV << '-h' if ARGV.empty?
+
```

Pull Requests to Anyone!



REPOSITORY NETWORK

You don't just have to
send the PR to the parent
repository.

A screenshot of a GitHub pull request interface. The repository is "jaw6 / training-utils", forked from "githubtraining/training-utils". The pull request is titled "Open a pull request" and is described as "Create a new pull request by comparing changes across two branches. If you need to, you can also compare across forks." It shows a mergeable branch comparison between "base fork: jaw6/training-utils" (master) and "head fork: brntbeer/training-utils" (friendly-print-message). A green checkmark indicates "Able to merge. These branches can be automatically merged." The PR message says "ask for the name more nicely" and "Send this to anyone i choose|". There is a note at the bottom: "Attach images by dragging & dropping, selecting them, or pasting from the clipboard." A green "Create pull request" button is at the bottom.

training-utils/welcome at master · brntbeer/training-utils

GitHub, Inc. [US] https://github.com;brntbeer/training-utils/blob/master/welcome

This repository Search Pull requests Issues Gist

Unwatch 1 Star 0 Fork 5

branch: master training-utils / welcome

jaw6 on Jan 15 welcome should ask for name

2 contributors

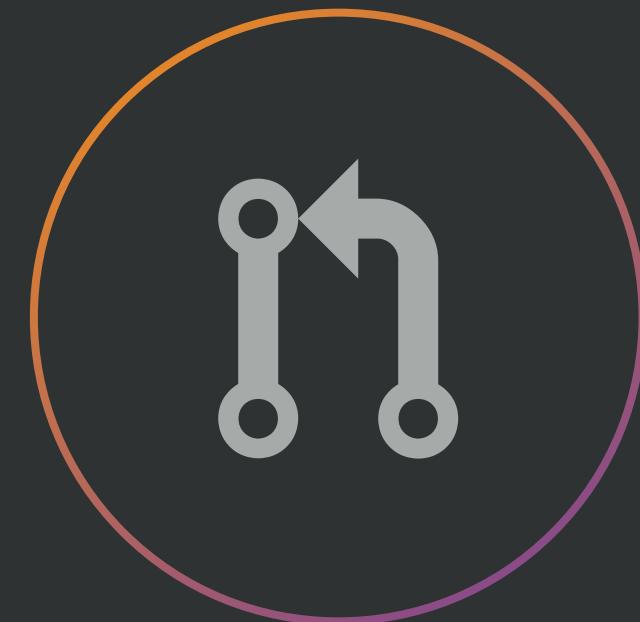
Executable File | 18 lines (14 sloc) | 0.328 kB

Raw Blame History

```
1 #!/bin/sh
2
3 answer=$@
4 #Ask for instructor unless specified
5 if [ -z "$1" ];
6 then
7     printf "Instructor name? "
8     read answer
9 fi
10
11 clear
12
13 echo '-----'
14 echo 'Welcome to class on:' `date`
15 echo "I'm ${answer}, your instructor"
16 echo '-----'
17 echo
```

Brent

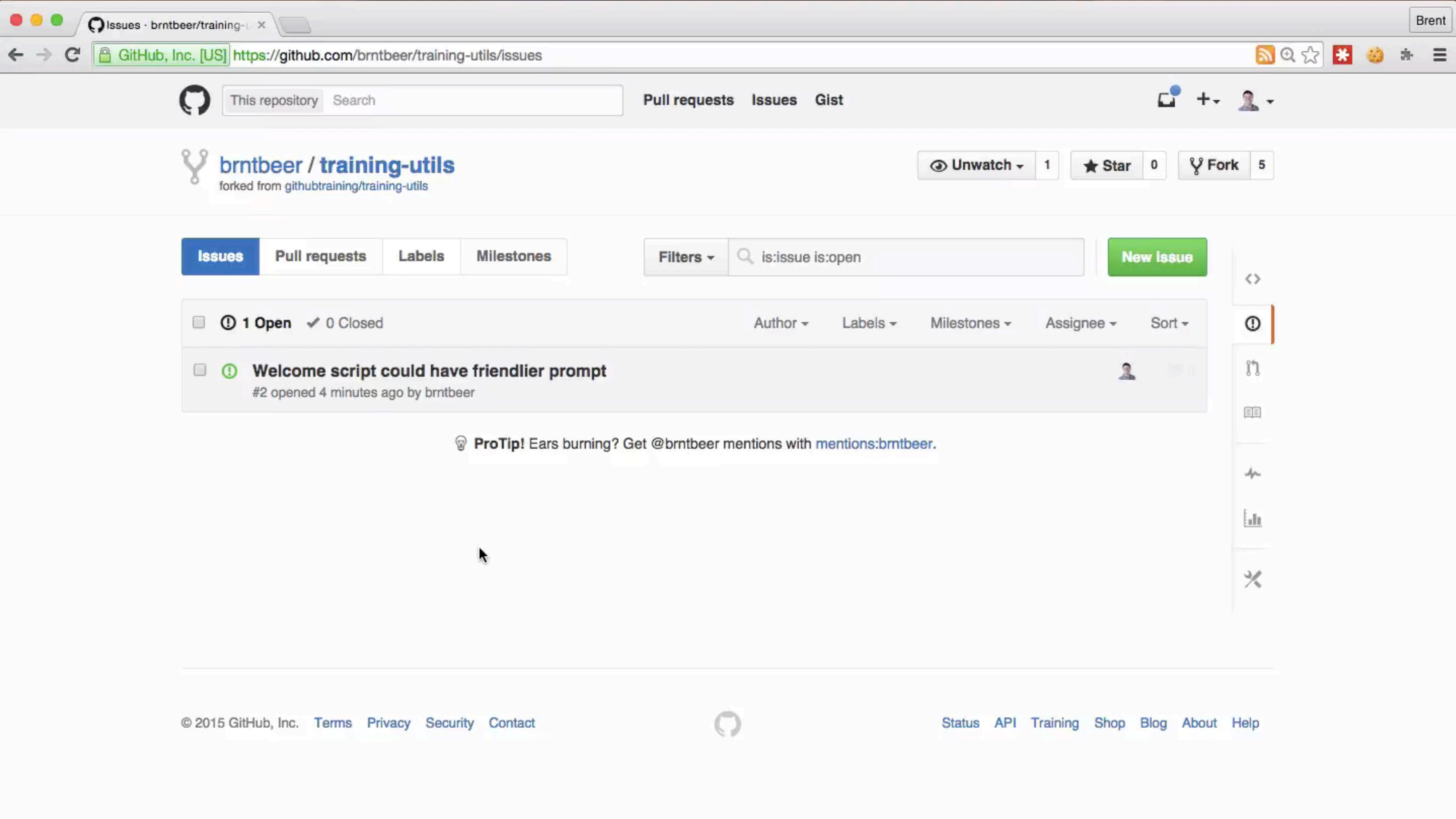
Closing Issues from Pull Requests



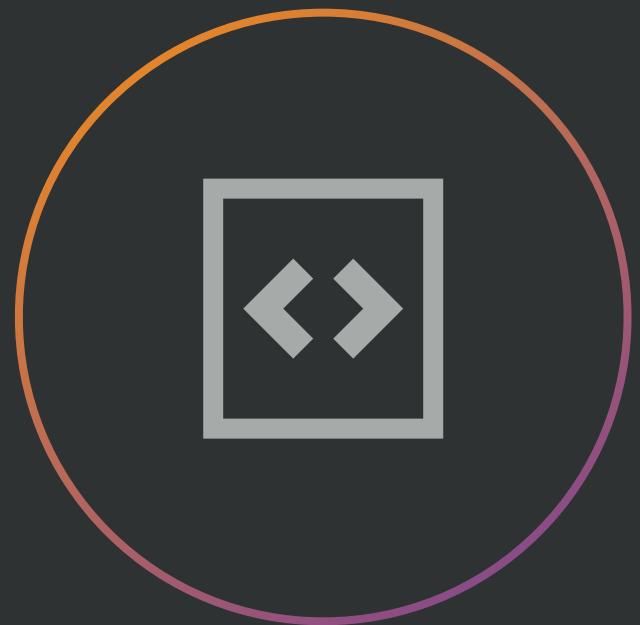
CLOSE THE ISSUE FROM THE PULL REQUEST

Some people know you can close an issue or pull request from a commit message, but you can do this in the web.

The screenshot shows a GitHub issue page for the repository 'brntbeer / training-utils'. The issue title is 'Welcome script could have friendlier prompt #2'. The status is 'Closed' with a note that 'brntbeer opened this issue 7 minutes ago · 0 comments'. A comment from 'brntbeer' says 'We need a friendlier prompt for the welcome file. Should read like a human asking a question'. Another comment from 'brntbeer' says 'brntbeer self-assigned this 5 minutes ago'. A final action shows 'brntbeer closed this in 98d5aa8 16 seconds ago'. On the right side, there are sections for Labels (None yet), Milestone (No milestone), Assignee (brntbeer), and Notifications (Unsubscribe). It also shows 1 participant and 0 lock issues. At the bottom, there are 'Reopen issue' and 'Comment' buttons.



Gists



FULL GIT REPOSITORY

Gists aren't just place to drop a nice easy sharable file. They're full git repositories

The screenshot shows a GitHub Gist page for user 'brntbeer'. It displays two files: 'README.md' and 'generatorandomchanges'. The 'README.md' file contains the text: 'generate random files. 1 commit per file. Place this in /usr/local/bin or somewhere so it can be executed'. The 'generatorandomchanges' file is a bash script:

```
1 #!/bin/bash
2
3 #Ensure we have the quantity specified on the CLI
4 if [ -z "$3" ]; then ARG_ERR=ERR; fi
5 if [ -z "$2" ]; then ARG_ERR=ERR; fi
6 if [ -z "$1" ]; then ARG_ERR=ERR; fi
7 if [ -n "$ARG_ERR" ];
8 then
```

https://gist.github.com/brntbeer/3b8ed824a9d0e5fc014f

GitHub Gist

All gists GitHub +

brntbeer / generaterandomchanges

generate random files. 1 commit per file. Place this in /usr/local/bin or somewhere so it can be executed

Raw

```
1 #!/bin/bash
2
3 #Ensure we have the quantity specified on the CLI
4 if [ -z "$3" ]; then ARG_ERR=ERR; fi
5 if [ -z "$2" ]; then ARG_ERR=ERR; fi
6 if [ -z "$1" ]; then ARG_ERR=ERR; fi
7 if [ -n "$ARG_ERR" ];
8 then
9     echo "Usage: <filecount> <filenamebase> <filenameextension>"
10    exit
11 fi
12
13 count=$1
14 filenamebase=$2
15 filenameextension=$3
16 for (( filenumber = 1; filenumber <= $count ; filenumber++ )); do
17     echo "Some new random text: $RANDOM" >> $filenamebase$filenumber.$filenameextension
18     git add $filenamebase$filenumber.$filenameextension
19     git commit -m"A random change of $RANDOM to $filenamebase$filenumber.$filenameextension"
20 done
```

Code

Revisions 2

Embed URL

```
<script src="https://gist.github.com/brntbeer/3b8ed824a9d0e5fc014f.js">
```

SSH clone URL

```
git@gist.github.com
```

You can clone with HTTPS, SSH, or Subversion.

Clone In Desktop

Download ZIP

Write Preview

Markdown supported Edit in fullscreen

Leave a comment

Attach images by dragging & dropping, selecting them, or pasting from the clipboard.

Web Blame and Linked Pull Request Information



INVESTIGATE A FILE AND A COMMIT

If you don't know how to use blame from command line, that's fine. Finding things in the web can be easier.

The screenshot shows a GitHub repository page for `github / backup-utils`. The specific file `backup-utils / bin / ghe-backup` is displayed in a blame view. The blame view shows the following history of changes:

Commit	Author	Date	Message
27e2f24	riomayko	Jul 29, 2014	Back to /bin/sh shebang
4fe8713	riomayko	Jul 27, 2014	Simple verbose output mode
e7ede4d	riomayko	Jul 27, 2014	Tweak main ghe-backup and ghe-r...
4fe8713	riomayko	Jul 27, 2014	Simple verbose output mode
909f027	riomayko	Jul 29, 2014	Bring set -e back in ghe-backup
0ec34fc	riomayko	Jul 8, 2014	First crack at backup script with c...
ca7e1a3	Xeago	Oct 18, 2014	Rename libexec to share/github-ba...
0ec34fc	riomayko	Jul 8, 2014	First crack at backup script with c...
909f027	riomayko	Jul 29, 2014	Bring set -e back in ghe-backup
a5ec91b	joewilliams	Jul 29, 2014	check the status and collect failures

The blame view also shows the raw code and provides links to raw, normal view, and history.

github/backup-utils

GitHub, Inc. [US] https://github.com/github/backup-utils

This repository Search Pull requests Issues Gist

Watch 58 Star 248 Fork 51

github / backup-utils

GitHub Enterprise Backup Utilities — Edit

664 commits 22 branches 9 releases 17 contributors

branch: master / +

Merge pull request #134 from github/no-hookshot-backup-restore ...
tmm1 authored 23 days ago latest commit 2fe9d51fd6

File	Commit Message	Date
bin	remove hookshot backup/restore	24 days ago
debian	Merge pull request #101 from spotify/master	2 months ago
script	Run tests with 2.2.0 remote version	4 months ago
share/github-backup-utils	remove hookshot backup/restore	24 days ago
test	remove hookshot backup/restore	24 days ago
.gitattributes	Exclude .gitignore and .gitattributes files from archives	a year ago
.gitignore	Always read version from share/github-backup-utils/version	6 months ago
.travis.yml	Add .travis.yml	9 months ago
CONTRIBUTING.md	Fix up for new project name	11 months ago
LICENSE	Add MIT license	a year ago
Makefile	script/cibuild --no-package runs tests only	4 months ago

Code Issues 12 Pull requests 0

Pulse Graphs

Settings

SSH clone URL
git@github.com:github/backup-utils

You can clone with HTTPS, SSH, or Subversion.

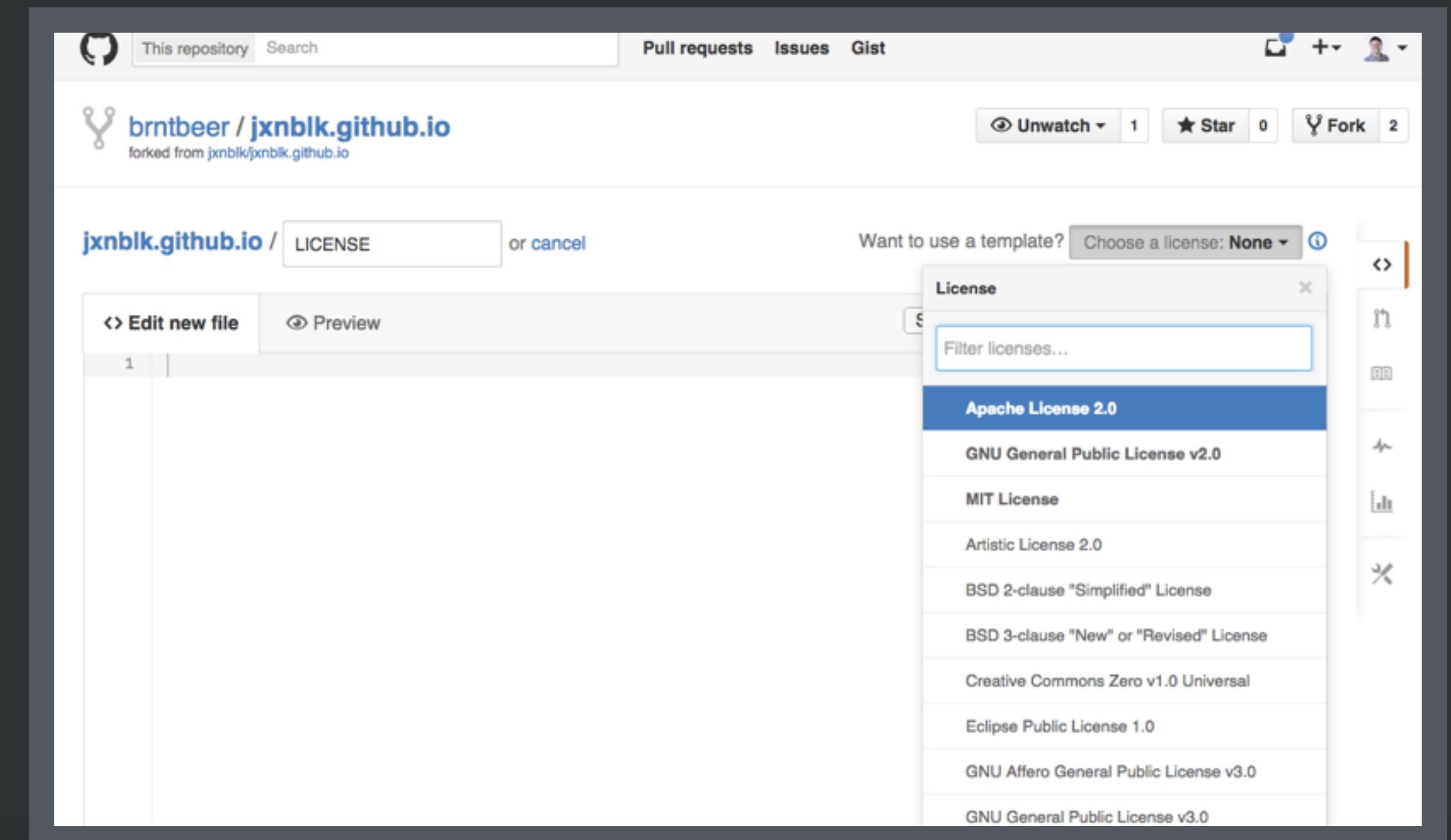
Clone in Desktop Download ZIP

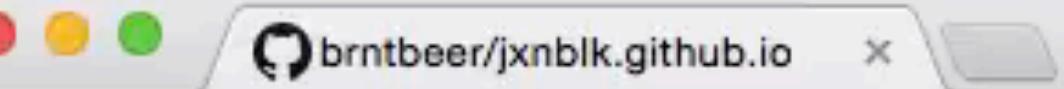
Licenses and Line Comments



QUICKLY CREATE A LICENSE OR COMMENT ON SPECIFIC LINES

Creating a LICENSE fast and easy
is important for all true open
source projects. Commenting on
specific changes is equally
important for review





brntbeer/jxnblk.github.io

GitHub, Inc. [US] https://github.com/brntbeer/jxnblk.github.io



brntbeer / jxnblk.github.io

forked from jxnblk/jxnblk.github.io

[Unwatch](#) 1[Star](#) 0[Fork](#) 2

Curated list of notable repositories <http://jxnblk.github.io> — Edit

98 commits

1 branch

0 releases

3 contributors



branch: master

[jxnblk.github.io](#) / +

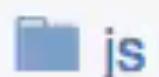
This branch is 10 commits behind jxnblk:master

[Pull Request](#) [Compare](#)

Add link

jxnblk authored on Jun 23

latest commit 399052f494



Adjust scripts for ga



Add link



Add gitignore



nojekyll



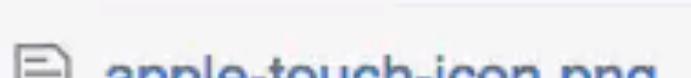
Design tweaks



Adjust CNAME



Edit readme



Add favicon

Code

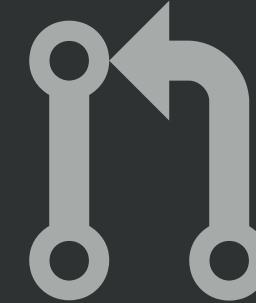
[Pull requests](#) 0[Wiki](#)[Pulse](#)[Graphs](#)[Settings](#)

SSH clone URL

git@github.com:brntbl

You can clone with [HTTPS](#), [SSH](#), or [Subversion](#). [Clone in Desktop](#)[Download ZIP](#)

Revert Pull Requests



PULL REQUEST DIDN'T GO AS PLANNED? REVERT!

Sometimes our features don't work as we intended and we need to undo them. Don't bother leaving the UI, revert the whole feature right now.

brntbeer / training-utils
forked from githubtraining/training-utils

Revert "ask for the name more nicely" #3

Merged brntbeer merged 1 commit into master from revert-1-friendly-print-message 4 minutes ago

Conversation 0 Commits 1 Files changed 1

brntbeer commented 4 minutes ago

Reverts brntbeer/training-utils#1

I noticed that maybe i should have received some additional feedback, let's revert this and remove it. Then we can get some feedback on another pull request.

Revert "ask for the name more nicely"

brntbeer merged commit f628100 into master 4 minutes ago

Write Preview Markdown supported Edit in fullscreen

GitHub, Inc. [US] <https://github.com/brntbeer/training-utils/pull/1>

This repository Search Pull requests Issues Gist

Unwatch 1 Star 0 Fork 5

ask for the name more nicely #1

Merged brntbeer merged 1 commit into master from friendly-print-message 8 hours ago

Conversation 0 Commits 1 Files changed 1 +1 -1

brntbeer commented 10 hours ago
Send this to myself only!

ask for the name more nicely 8c3cb27

brntbeer merged commit 98d5aa8 into master 8 hours ago Revert

brntbeer deleted the friendly-print-message branch 8 hours ago Restore branch

Write Preview Markdown supported Edit in fullscreen

Labels None yet

Milestone No milestone

Assignee No one—assign yourself

Notifications

Unsubscribe

You're receiving notifications because you modified the open/close state.

Task List



TRACKING ISSUES

An issue that keeps track of other sub tasks is a great way to work on small pieces of code

The screenshot shows a GitHub issue page for the repository `brntbeer / training-utils`. The issue is titled `[Tracking] Needing additional features #5`. It is marked as `Open` by `brntbeer`, who opened it 8 minutes ago with 0 comments. A comment from `brntbeer` just now states: "There are some features on here that we still are missing that we normally teach in classes and use for our post class activities". Below this, there is a `TODO` section with two items: "Post class automatic issue closing" (unchecked) and "Assigning of issues based on students who opened them" (checked). At the bottom, there is a comment input field with "Leave a comment" placeholder text, and buttons for "Write" and "Preview".

New Issue · brntbeer/training-utils

GitHub, Inc. [US] https://github.com/brntbeer/training-utils/issues/new

Brent

This repository Search

Pull requests Issues Gist

Unwatch 1 Star 0 Fork 5

brntbeer / training-utils
forked from githubtraining/training-utils

Issues Pull requests Labels Milestones

Title

Write Preview Markdown supported Edit in fullscreen

Leave a comment

Attach images by dragging & dropping, selecting them, or pasting from the clipboard.

Submit new issue

Labels None yet

Milestone No milestone

Assignee No one—assign yourself

Helpful icons:

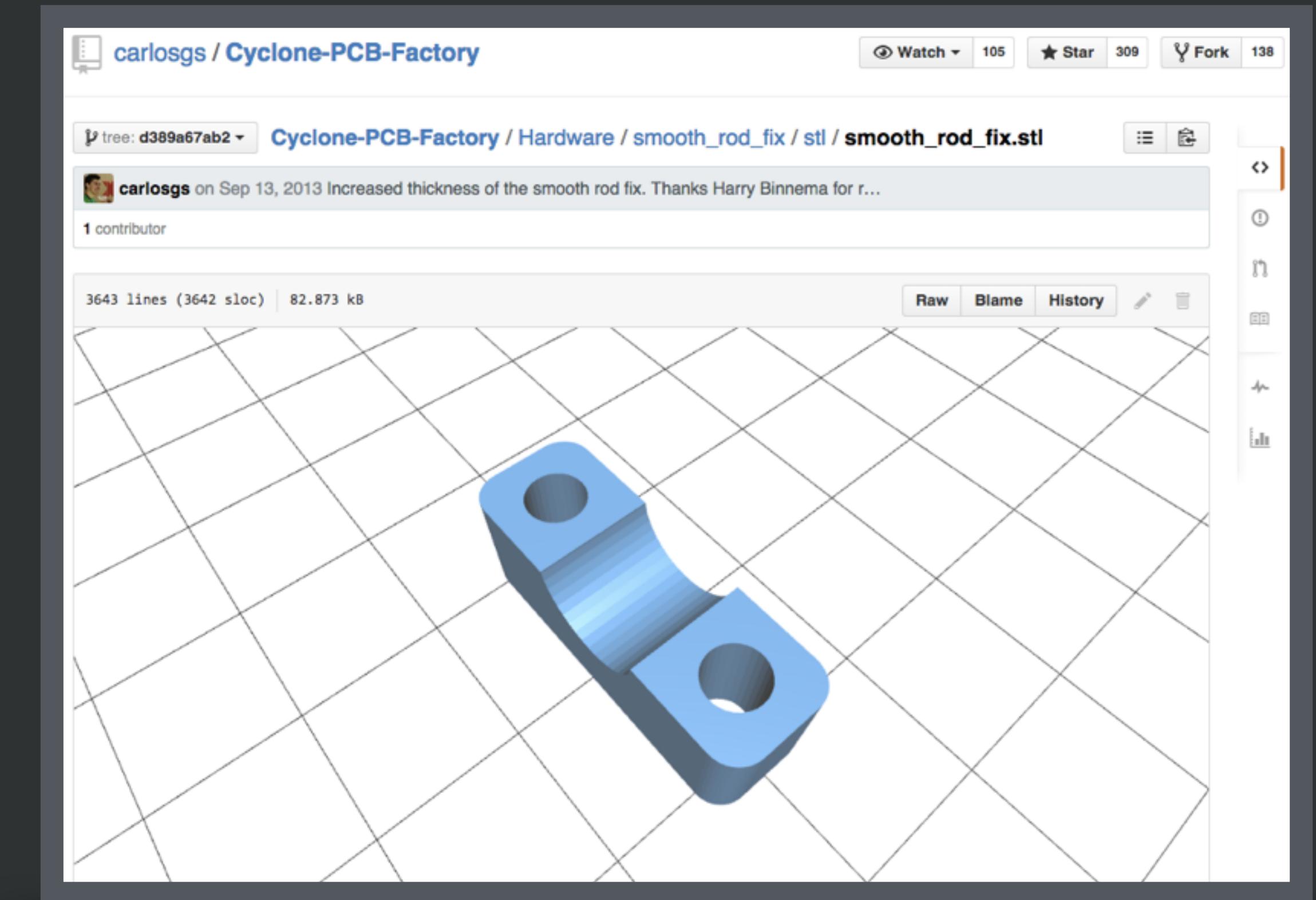
This screenshot shows the GitHub 'New Issue' interface for the repository 'brntbeer/training-utils'. The 'Issues' tab is selected. The main area contains fields for 'Title' (with 'Write' and 'Preview' tabs), 'Markdown supported', and 'Edit in fullscreen'. Below is a large text area for 'Leave a comment' with a note about attaching images. A green 'Submit new issue' button is at the bottom. To the right, there are sections for 'Labels' (None yet), 'Milestone' (No milestone), and 'Assignee' (No one—assign yourself). On the far right, there's a vertical sidebar with icons for linking, info, list, book, chart, and X. The top navigation bar includes links for 'Pull requests', 'Issues', 'Gist', and user profile 'Brent'.

Rendering Files



VIEWING NON-CODE
FILES ON GITHUB IS
IMPORTANT

GitHub doesn't just have to contain
your code. It can include your
images, geojson maps, 3d files,
and even pdfs



updated the gears for the compact extruder < pvslib/intersection-paper-e

GitHub, Inc. [US] https://github.com/underverk/3D_Printer/commit/d6b19d047647fcd4415b739903b630649c487cc1

Brent

This repository Search Pull requests Issues Gist

underverk / 3D_Printer Watch 36 Star 76 Fork 73

<updated the gears for the compact extruder>

master dkbe1983 authored on Sep 13, 2013 1 parent 86557b3 commit d6b19d047647fcd4415b739903b630649c487cc1

Showing 1 changed file with 5,686 additions and 6,162 deletions.

Unified Split

11,848 STL's/small_gear.stl View

A 3D model of a small gear assembly, likely a filament guide or filament diverter, shown against a wireframe grid. The model is composed of several parts: a central black circular base with a green circular hole, and four red rectangular supports extending downwards from the base. The model is displayed in a 3D viewer interface.

Explore and Newsletter



EXPLORE REPOSITORIES AND GET EMAIL UPDATES

Finding new projects on GitHub can be done from our explore section. You can also find other users to find to make your newsletter more complete.

The screenshot shows a window titled "GitHub explore the week of Nov 29 – Dec 6 — Work". The main content area is titled "Explore this week on GitHub" with the subtitle "Here's what is happening on GitHub the week of Nov 29 - Dec 6.". A section header "★ Starred by people you follow this week" is followed by three repository cards:

- dmotz/oriDomi** ★ 6
CoffeeScript
Fold up DOM elements like paper
- muan/github-gmail** ★ 6
JavaScript
Open your GitHub notifications using `shift + G` in Gmail.
- SamyPesse/How-to-Make-a-Computer-Operating-System** ★ 4
C
How to Make a Computer Operating System in C++

Explore

GitHub, Inc. [US] https://github.com/explore

Brent

Search GitHub

Pull requests Issues Gist

All Showcases Trending Stars

Explore

Browse interesting projects, solving all types of interesting problems.

CSS preprocessors

All the CSS preprocessors you could dream of, wrapped up nice and neatly as web f...

Open source organizations

Projects that power GitHub for Mac

Package managers

Across programming languages and platforms, package managers make it eas...

23 12

Icon fonts

All the icons you could dream of all wrapped up nice and neatly as web f...

Web games

Security

Web application

Global Issues and Pull Request



ALL YOUR ISSUES AND
PULL REQUESTS IN
ONE PLACE

You may work on many projects
and you may have few projects
open. They're easy to access from
a single screen.

The screenshot shows the GitHub interface with a search bar at the top containing the query "is:open is:pr author:githubstudent". Below the search bar, there are three tabs: "Created" (selected), "Assigned", and "Mentioned". The results show 27 open pull requests. The first few items in the list are:

- githubstudent/git-for-everyone-28 Add gitignore file to ignore log, 'This PR is in response to #4' #5 opened 17 days ago by githubstudent
- githubstudent/git-for-everyone-19 Add gitignore file to ignore log, 'This PR is in response to #4' #5 opened 23 days ago by githubstudent
- githubteacher/cloaked-octo-shame Collect links to useful articles #11 opened on Jun 8 by githubstudent
- githubstudent/foundations-class Link to contributing guidelines from read me #3 opened on Mar 24 by githubstudent
- githubstudent/example-markdown Rebase example #1 opened on Mar 10 by githubstudent
- githubschool/example-markdown adding london and oxford githubstudent files #1 opened on Mar 10 by githubstudent
- githubschool/recipes Test branch #226 opened on Feb 23 by githubstudent
- githubschool/recipes More cleanup ✓ #225 opened on Feb 23 by githubstudent

Pull Requests

GitHub, Inc. [US] https://github.com/pulls

Search GitHub

Pull requests Issues Gist

Created Assigned Mentioned

is:open is:pr author:githubstudent

27 Open ✓ 110 Closed

Visibility Organization Sort

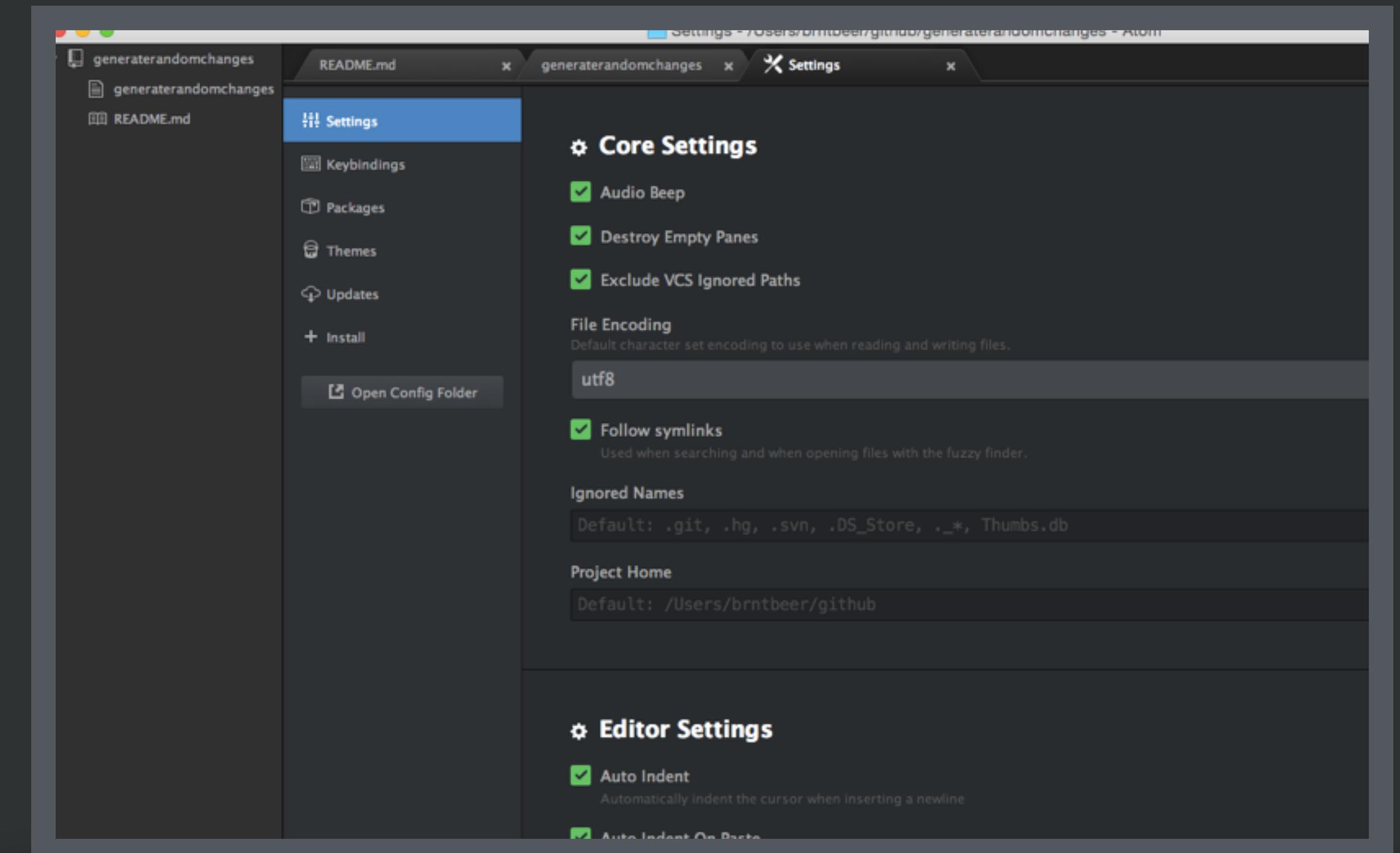
- githubstudent/git-for-everyone-28 Add gitignore file to ignore log', 'This PR is in response to #4
#5 opened 17 days ago by githubstudent
- githubstudent/git-for-everyone-19 Add gitignore file to ignore log', 'This PR is in response to #4
#5 opened 23 days ago by githubstudent
- githubteacher/cloaked-octo-shame Collect links to useful articles
#11 opened on Jun 8 by githubstudent
- githubstudent/foundations-class Link to contributing guidelines from read me
#3 opened on Mar 24 by githubstudent
- githubstudent/example-markdown Rebase example
#1 opened on Mar 10 by githubstudent
- githubschool/example-markdown adding london and oxford githubstudent files
#1 opened on Mar 10 by githubstudent
- githubschool/recipes Test branch
#226 opened on Feb 23 by githubstudent
- githubschool/recipes More cleanup ✓
#225 opened on Feb 23 by githubstudent
- githubschool/pm-cookbook Side recipes for review
#224 opened on Feb 23 by githubstudent

Atom



OPEN SOURCE TEXT EDITOR

Atom is open source all the way down. Down to a project even called Electron (electron.atom.io) that helps you build desktop clients.

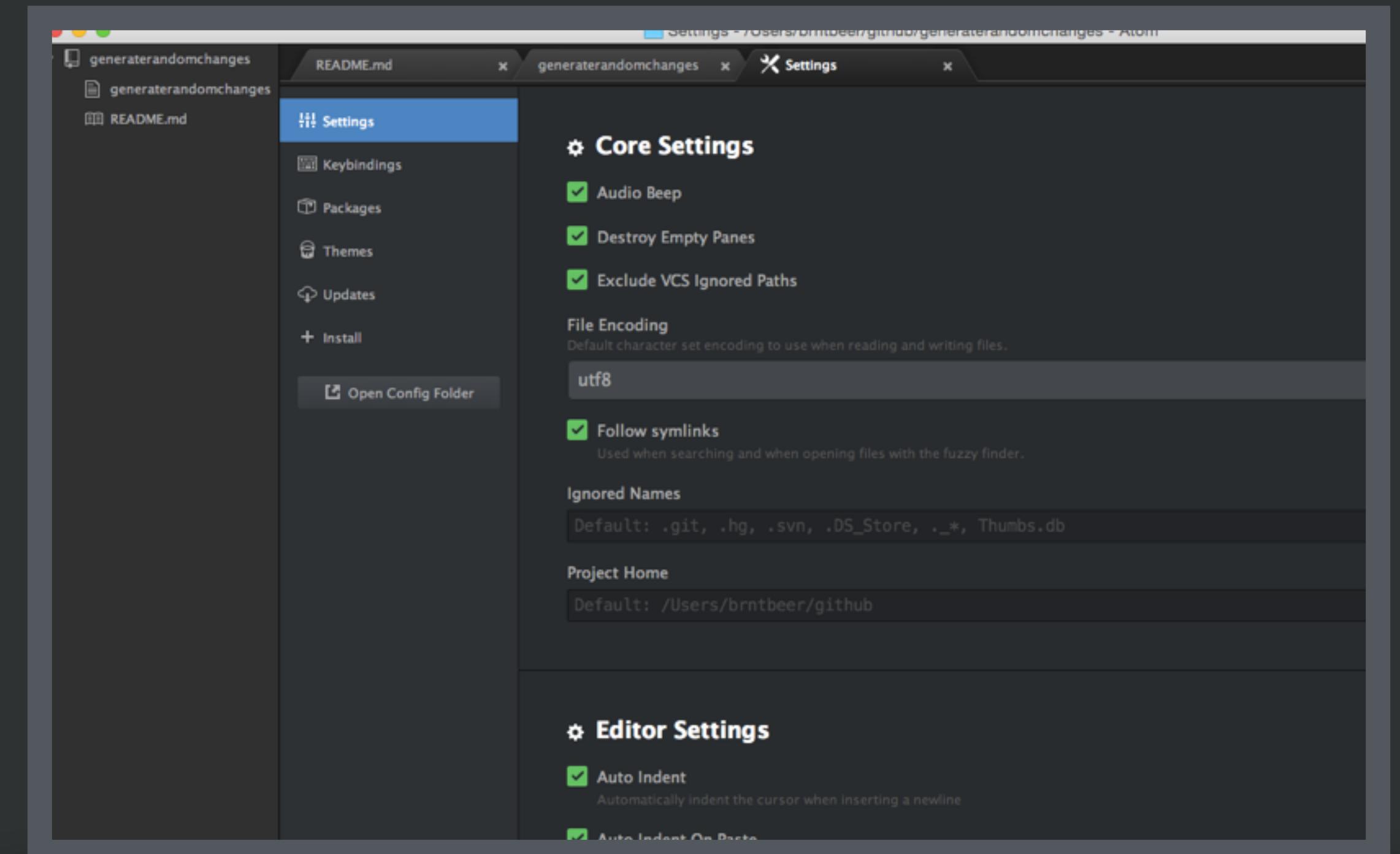


Atom



OPEN SOURCE TEXT EDITOR

Atom is open source all the way down. Down to a project even called Electron (electron.atom.io) that helps you build desktop clients.



[/github/generaterandomchanges]\$ █



What new feature or tool are
you going to use today?



Thank you