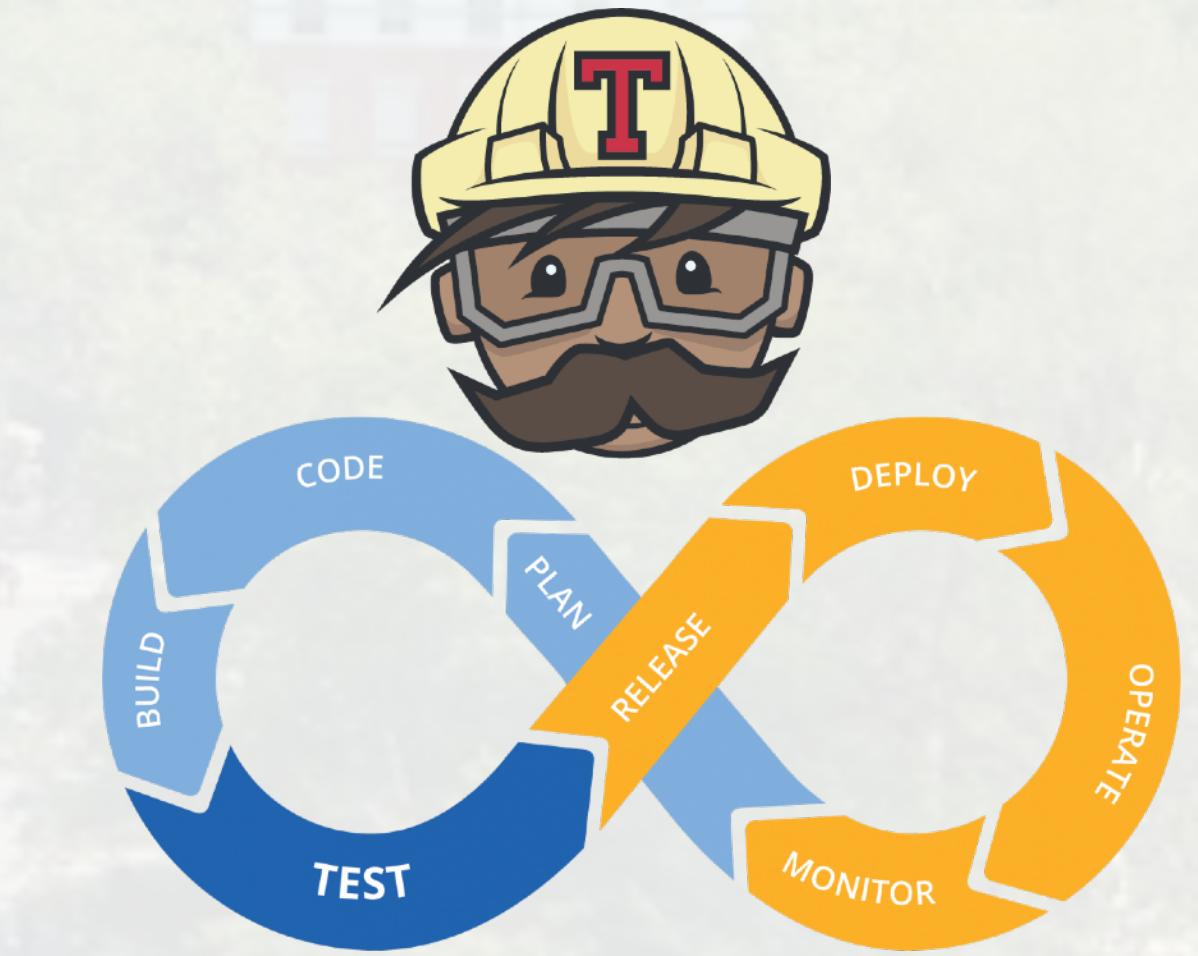


Continuous Integration with Travis CI

Fall 2020, CSCI-GA 2820, Graduate Division, Computer Science



Instructor:
John J Rofrano

Senior Technical Staff Member | DevOps Champion
IBM T.J. Watson Research Center
rofrano@cs.nyu.edu (@JohnRofrano)

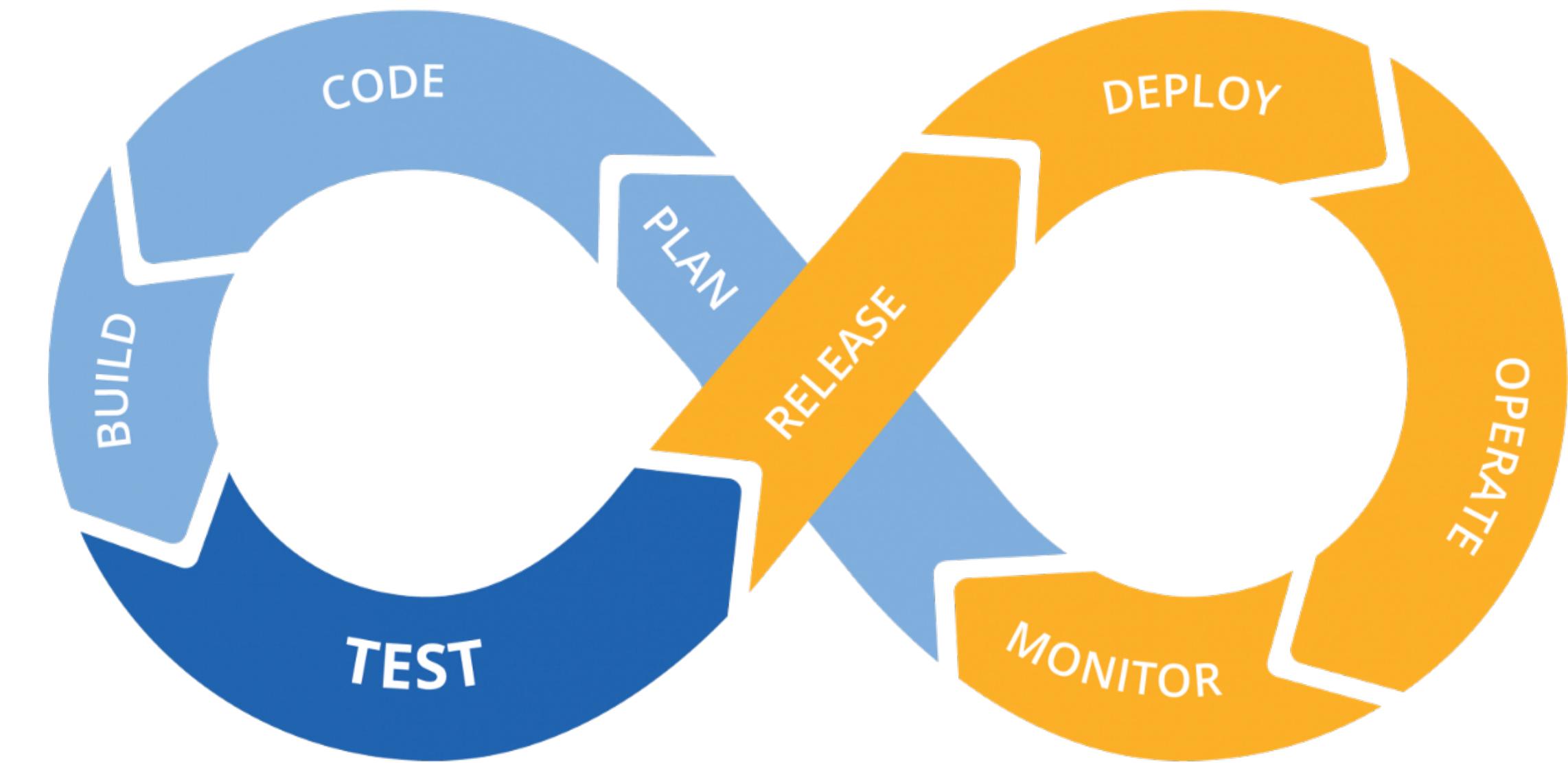
What Will You Learn?

- Gain a basic understanding of Continuous Integration
- Learn how to use Travis for your GitHub Repositories
- Understand how to construct a `.travis.yml` file to run jobs



Continuous Integration (CI) vs Continuous Delivery (CD)

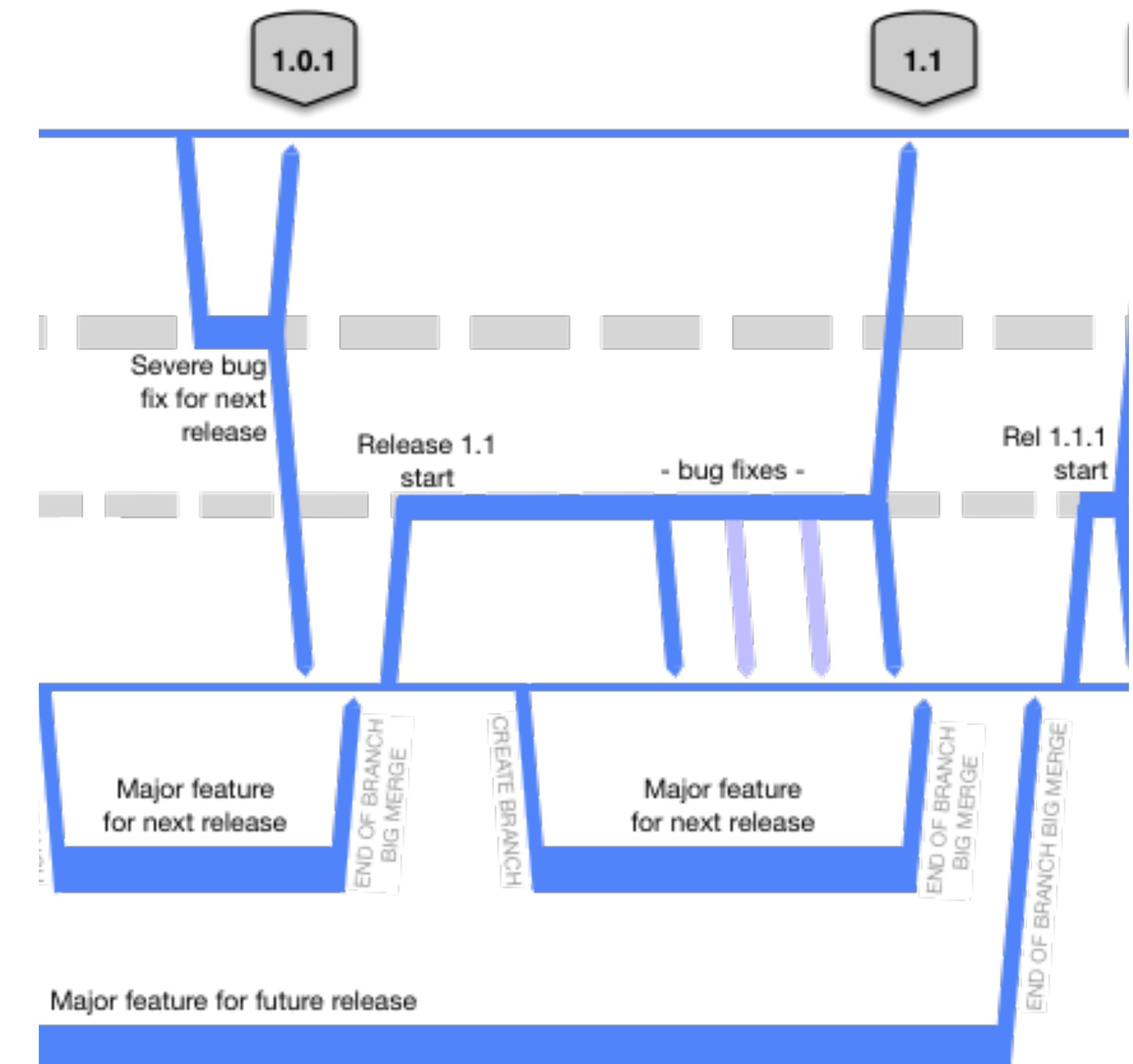
- Continuous Integration
 - The process of continuously integrating every developer change into the master branch after a set of tests have passed resulting in potentially deployable code
- Continuous Delivery
 - A series of practices designed to ensure that code can be rapidly and safely deployed to production by delivering every change to a production-like environment



Traditional Development

- Developers work in long lived development branches
- Branches are periodically merged into a release (with lots of breakage)
- Builds are run periodically (e.g., nightly) on release candidate branch
- Developers continue to add to the development branch which drifts further and further from the master branch

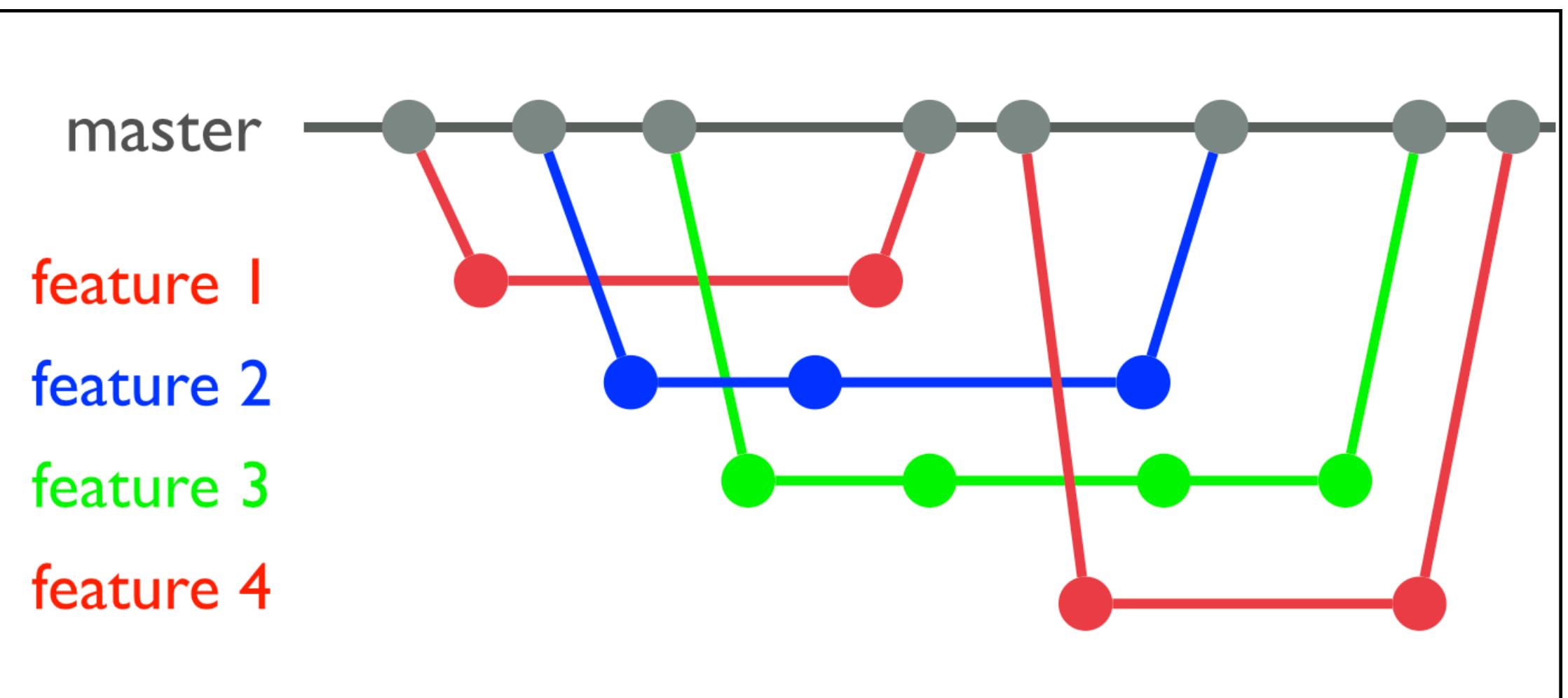
Long lived development branches breed merge nightmares



Continuous Integration

- A development practice that requires developers to integrate code into a shared repository often (e.g., daily)
- Developers work in short lived feature branches that are merged into master
- Each check-in is then verified by an automated build, allowing teams to detect problems early and often

Short feature branches makes merging easy



Everyone commits to the baseline

- Committing regularly, every developer can reduce the number of conflicting changes
 - Checking in a week's worth of work runs the risk of conflicting with other features and can be very difficult to resolve
- Using Pull Requests allows team members to communicate about the change they are making
- Committing all changes at least once a day (once per feature built) is generally considered part of the definition of Continuous Integration



Every commit (to baseline) should be built

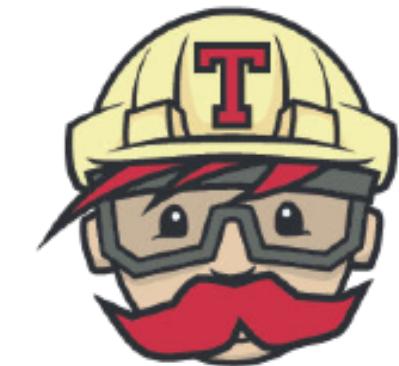
- The system should build commits to the current working version to verify that they integrate correctly
- A common practice is to use automated Continuous Integration where a continuous integration server or daemon monitors the revision control system for changes, then automatically runs the build process
- Once the code is built, all tests should run to confirm that it behaves as the developers expect it to behave (i.e, make the build self-testing)



Jenkins



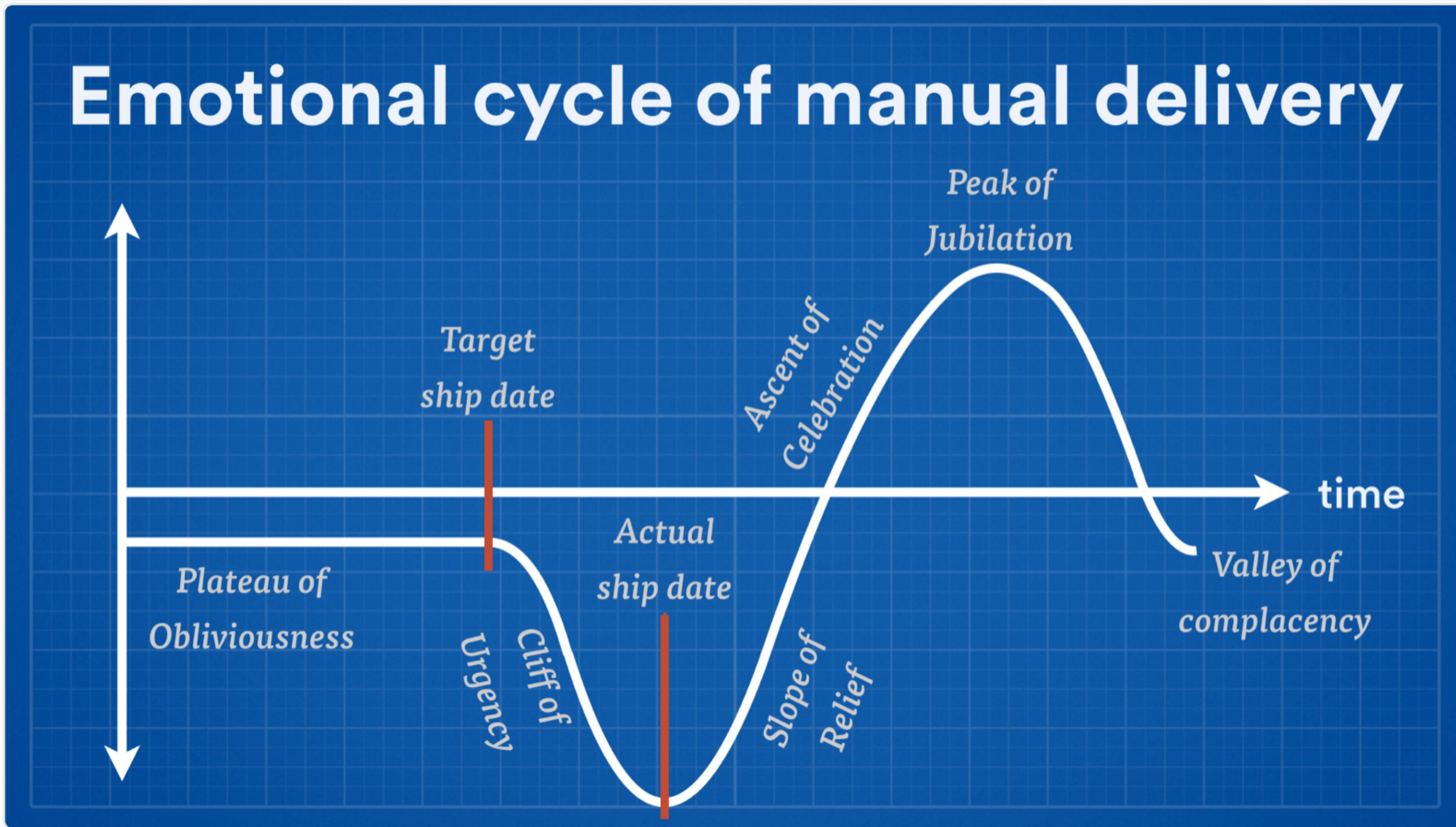
circleci



Travis CI

Tools like Jenkins, Travis CI, and Circle CI can build every Pull Request for you before merging to master

Delivery Should not be Emotional



Delivery Should Continuous



JEROLOGY.TUMBLR

Delivery Should Continuous



JEROLOGY.TUMBLR

Benefits of CI/CD

- Faster reaction times to changes
- Reduced code integration risk
- Higher code quality
- The code in version control works
- Less deployment time



Five Key Principles at the heart of Continuous Delivery

- Build quality in
- Work in small batches
- Computers perform repetitive tasks,
people solve problems
- Relentlessly pursue continuous
improvement
- Everyone is responsible

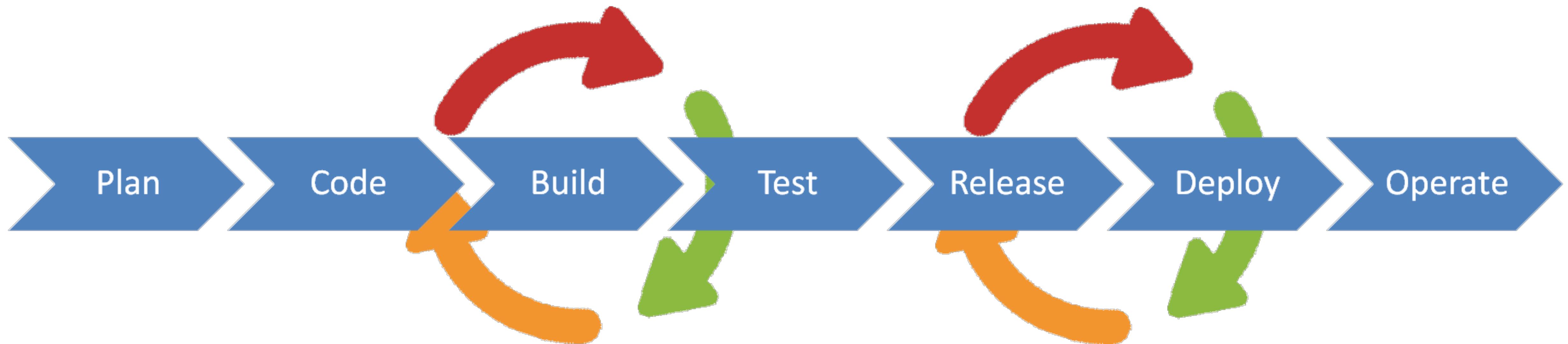


A CI/CD Pipeline Needs

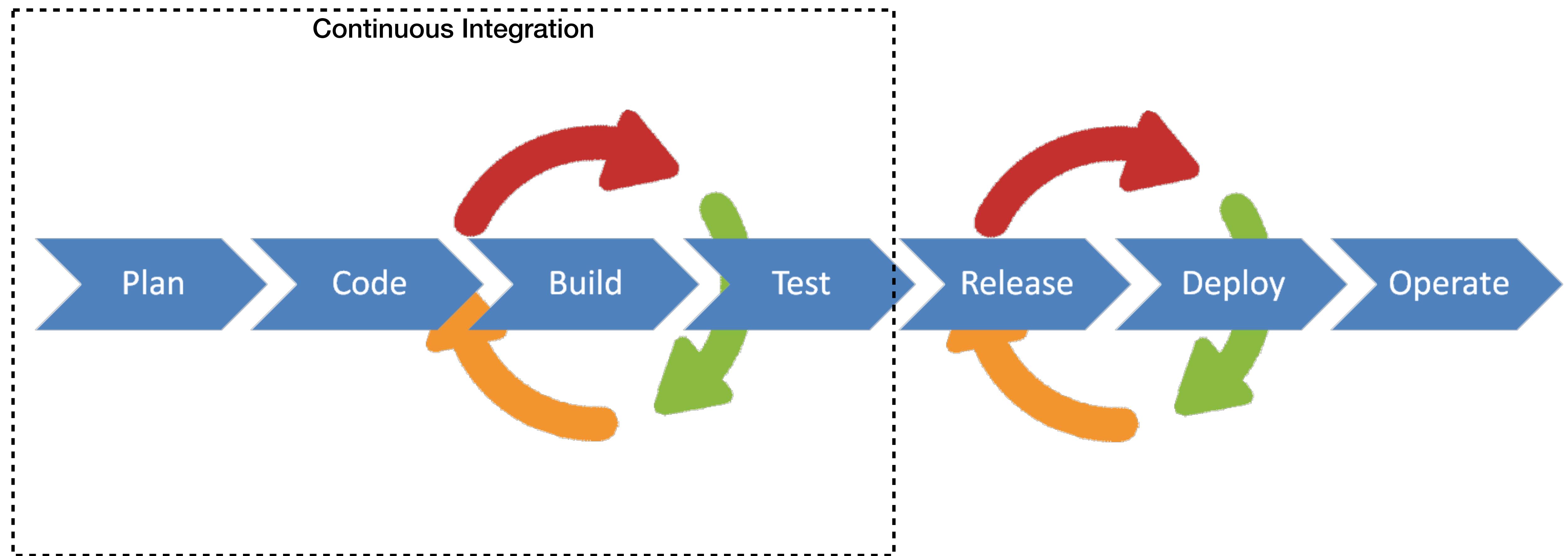
- A code repository to host and manage all your source code
- A build server to build the application from source code
- An integration server/orchestrator to automate the build and run test code
- A repository to store all the binaries and artifacts of the application
- Tools for automatic configuration and deployment



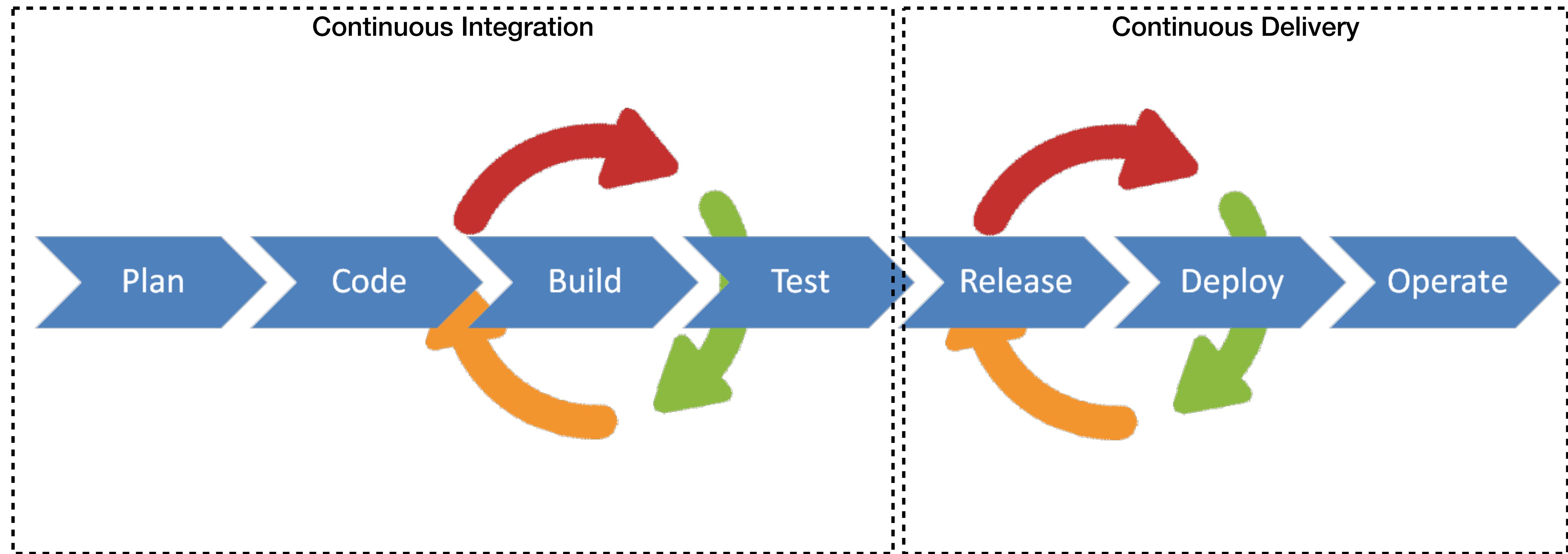
Continuous Integration and Delivery



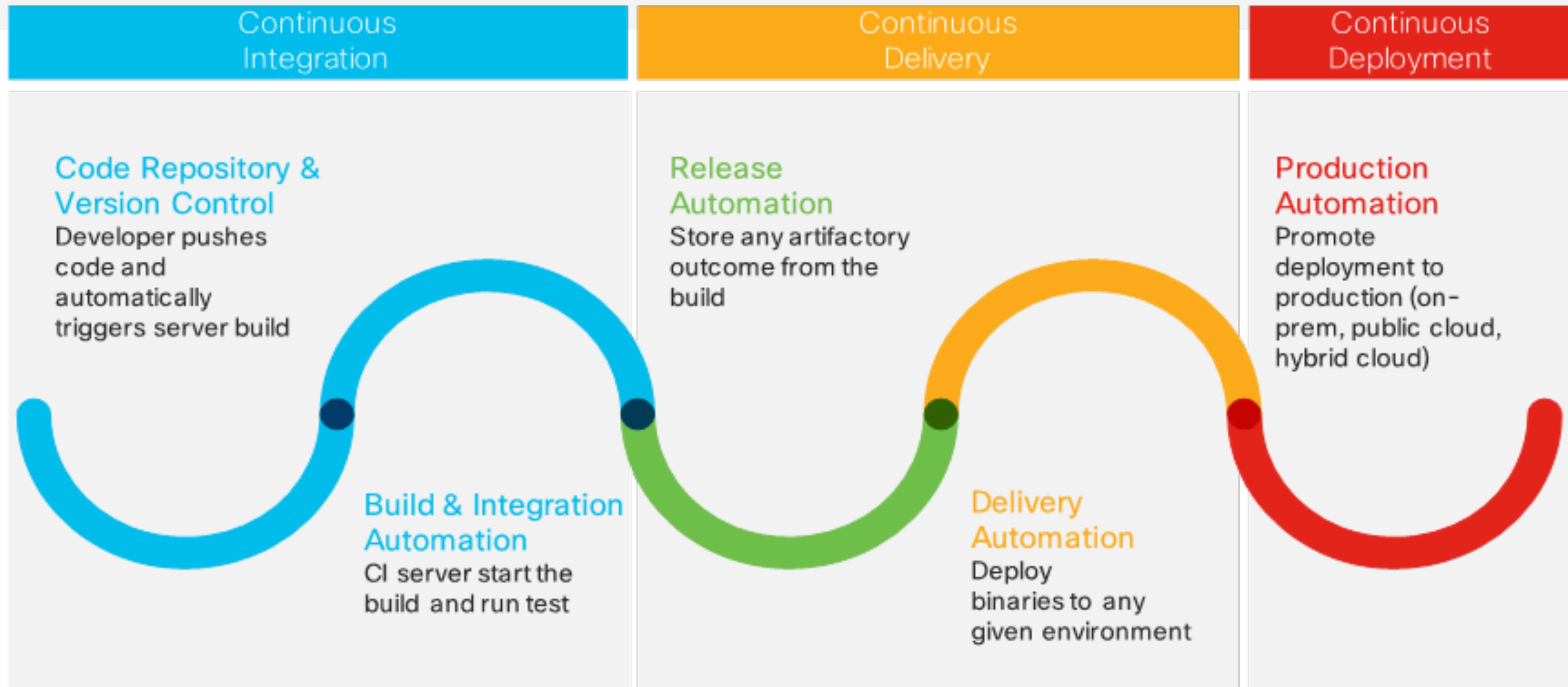
Continuous Integration and Delivery



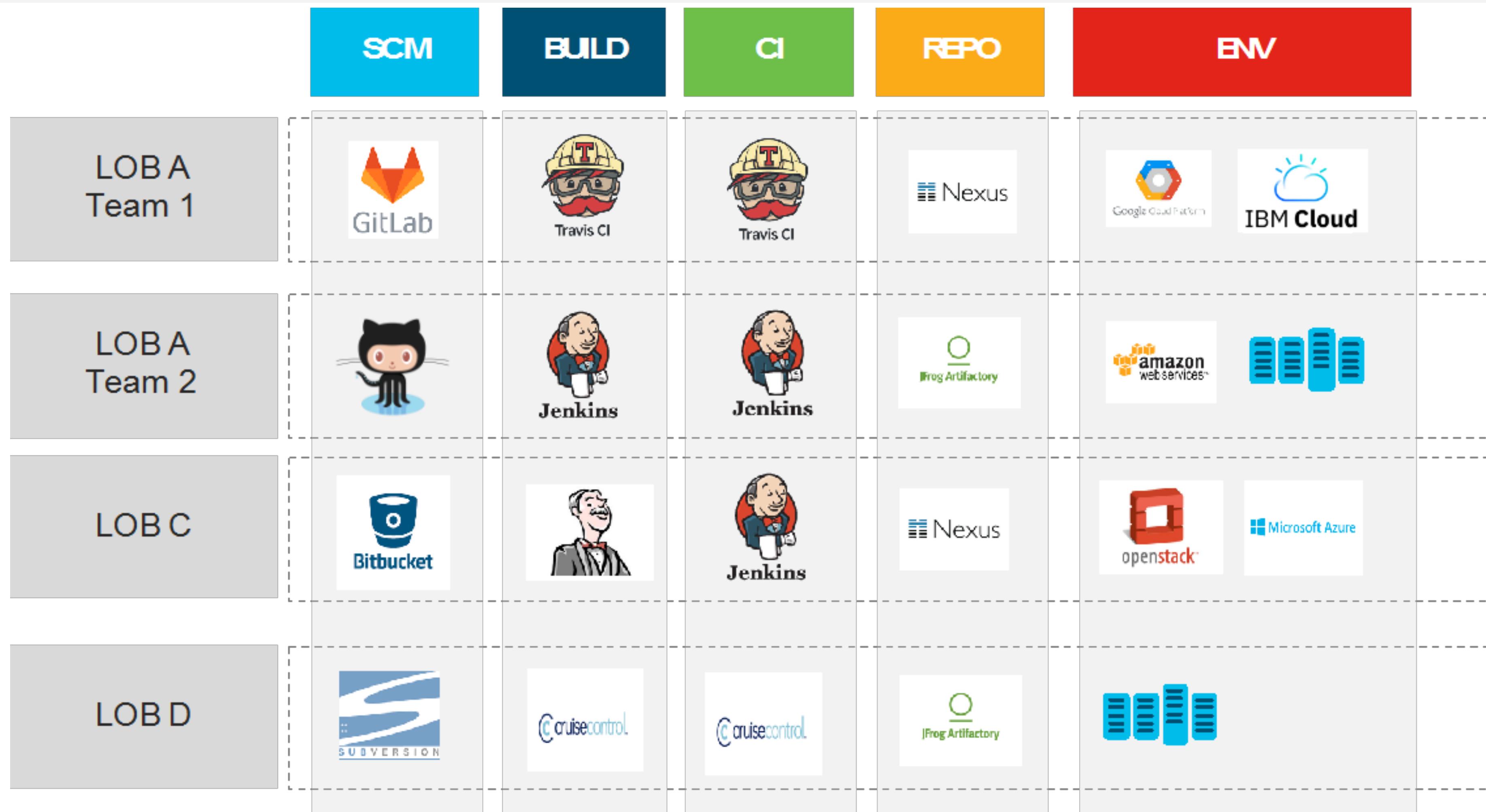
Continuous Integration and Delivery



CI/CD + Continuous Deployment



Pipelines can use many Tools



Automation is key but insufficient on it's own

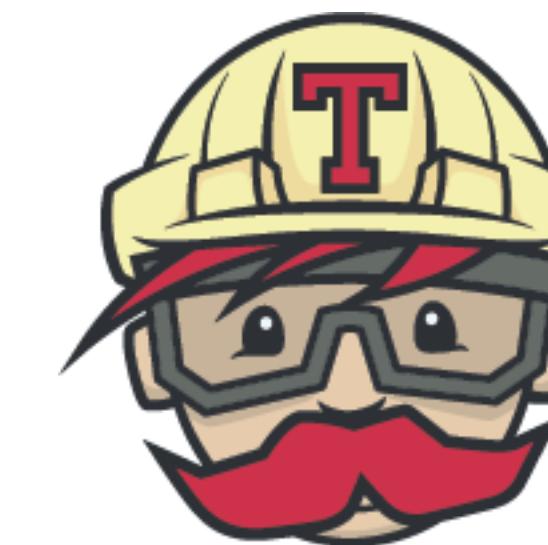
- For business to take advantage of continuous integration and continuous delivery, they must:
 - Have an **application design** that allows services to be deployed quickly and independently
 - Have automated all of their **testing**
 - Have organizational trust that allows **autonomy** and **shared responsibility**
 - Have **fast feedback loops** with minimal Mean Time to Recovery



Some CI/ CD Providers



Jenkins



Travis CI



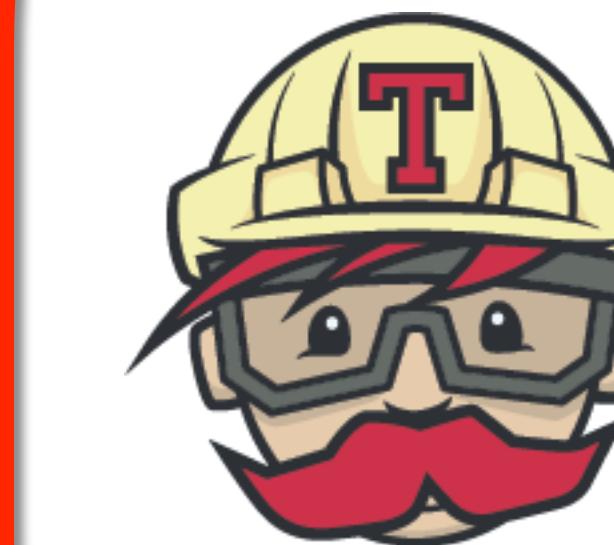
semaphore

...there's a whole lot more

Some CI/ CD Providers



Jenkins



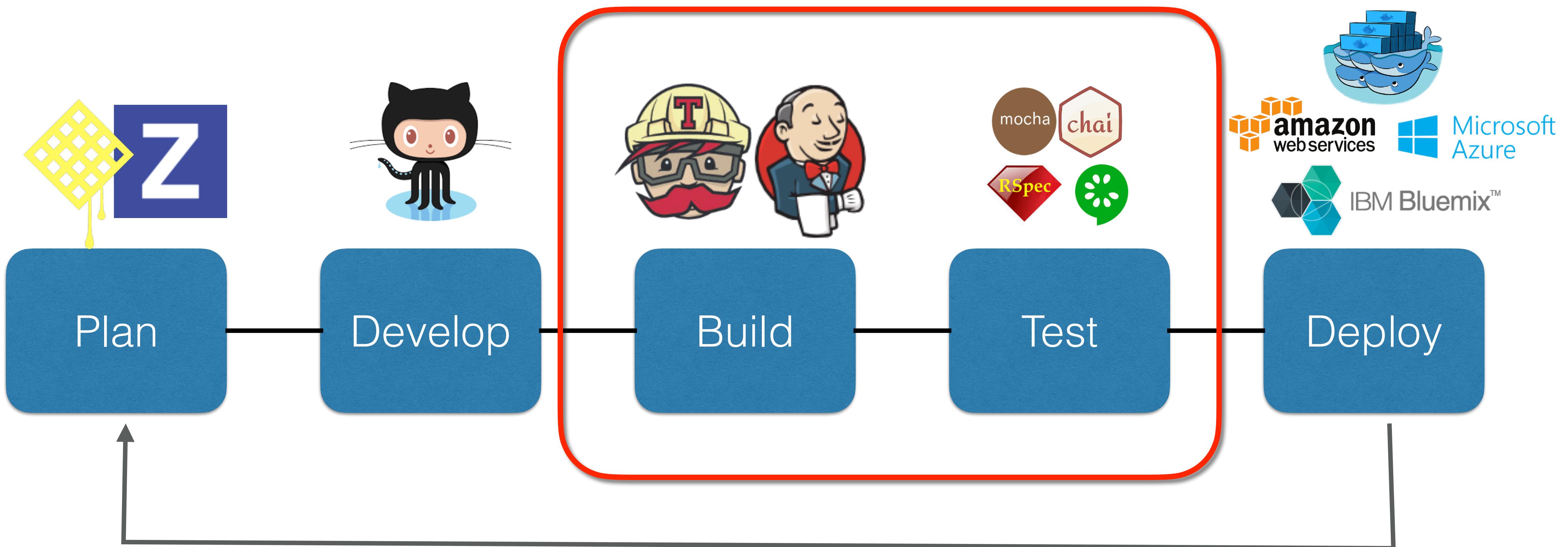
Travis CI



semaphore

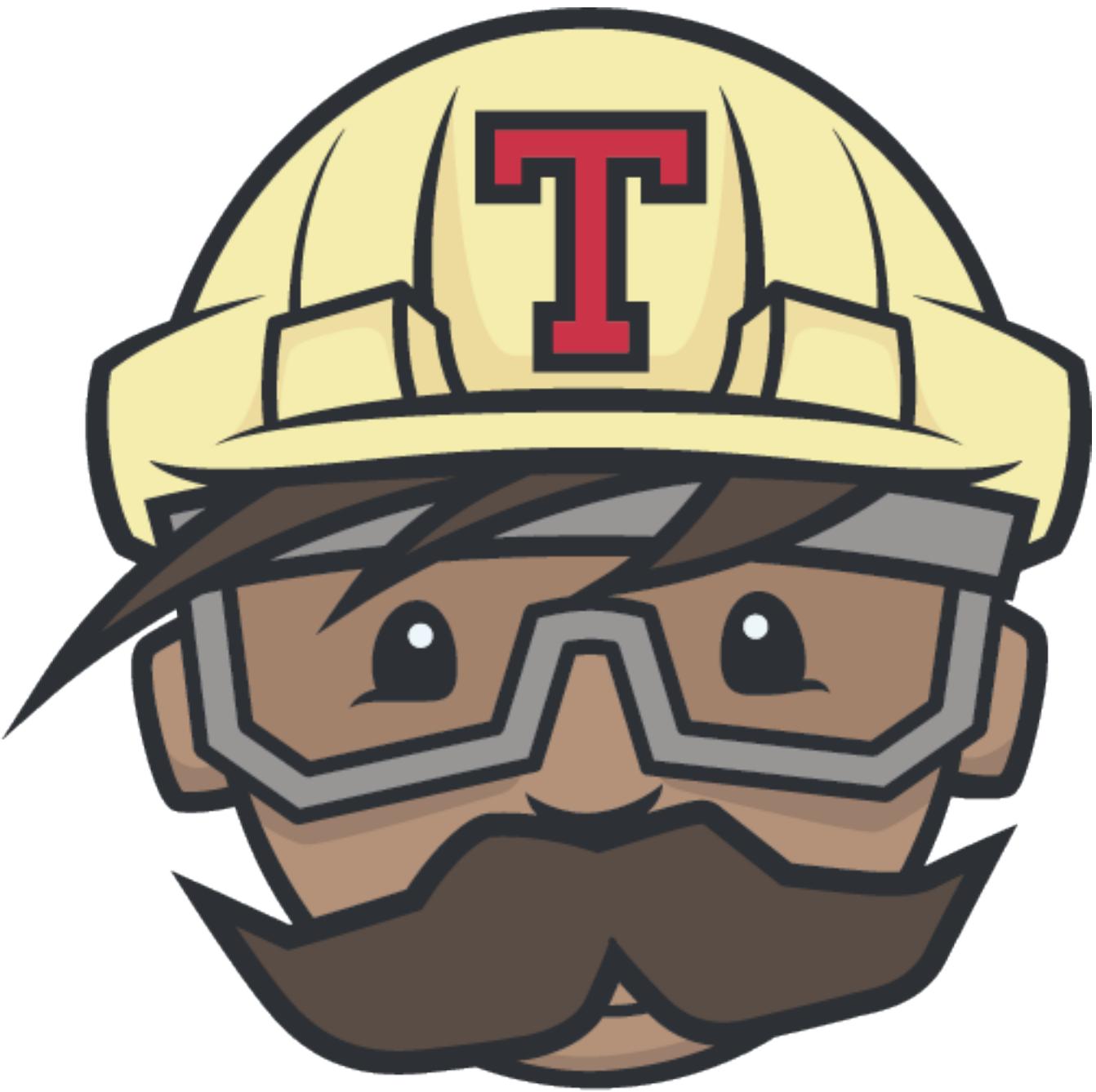
...there's a whole lot more

DevOps Pipeline



What is Travis CI?

- Travis CI is a Continuous Integration tool
- It allows you to treat your CI pipeline as code
- It can also do deployments for Continuous Delivery



Continuous Delivery Goals

- Continuous Delivery is a software development discipline where you build software in such a way that the software can be released to production at any time
 - Martin Fowler
- That means:
 - The Master branch should always be ready to deploy
 - You need a way to know if something will "break the build"
- Travis CI gives you a way to achieve this



Know if the Build is Broken

- Automated Testing is CRITICAL to Continuous Integration
- Travis CI can work with any language and any test suite
- Lots of languages and test suite support is built-in
- Database support is built-in
- Webhooks allow Travis-CI to run on every Pull Request
- Status is delivered to the Pull Request before a merge



Travis CI Language Support

- C
- C++
- Clojure
- C#
- D
- Dart
- Erlang
- F#
- Go
- Groovy
- Haskell
- Haxe
- Java
- JavaScript (with Node.js)
- Julia
- Objective-C
- Perl
- PHP
- Python
- R
- Ruby
- Rust
- Scala
- Smalltalk
- Visual Basic

Travis CI Databases Support

- STARTING SERVICES
- MYSQL
- POSTGRESQL
- MARIADB
- SQLITE3
- MONGODB
- COUCHDB
- RABBITMQ
- RIAK
- MEMCACHED
- REDIS
- CASSANDRA
- NEO4J
- ELASTICSEARCH
- RETHINKDB
- MULTIPLE DATABASE BUILDS

Travis CI

<http://travis-ci.org/>

- Travis CI is available at:
 - <http://travis-ci.org/>
- This is where you manage which repositories to use Travis with
- This is also where the logs from your build can be seen

The screenshot shows the Travis CI web interface. On the left, there's a sidebar titled "My Repositories" listing three repositories: "one-fish/two-fish" (2686), "hop-on/pop" (7001), and "horton-hears/awho" (209). Each entry includes a green checkmark, the repository name, a build number, duration, and finish time. On the right, the main area shows the "green-eggs / ham" repository. It displays a "Current" tab showing a successful build for the "master" branch (#209). The log message says: "You'll be on your way up! You'll be seeing great sights!" and lists a commit ("Commit abc123") and a branch ("Branch master"). It also credits "Sven Fuchs authored and committed". Below the log, there are "Job log" and "View config" buttons, and at the bottom, "Remove log" and "Raw log" buttons.

How Does Travis CI Work?

- You create a `.travis.yml` file in the root of your project
- Depending on how you configure Travis CI
 - Whenever you push to master a build is executed
 - Whenever you issue a pull request a build is executed
- Build runs in a isolated environment (VM or Docker)



Example .travis.yml file

```
.travis.yml

language: python
python:
  - "2.7"

# command to install dependencies
install: "pip install -r requirements.txt"

# command to run tests
before_script: redis-cli ping
script: python -m unittest test_server

services:
  - redis-server
```

Travis CI - Build Lifecycle

```
addons:  
before_install:  
install:  
before_script:  
script:  
after_success:  
after_failure:  
before_deploy:  
deploy:  
after_deploy:  
after_script:
```

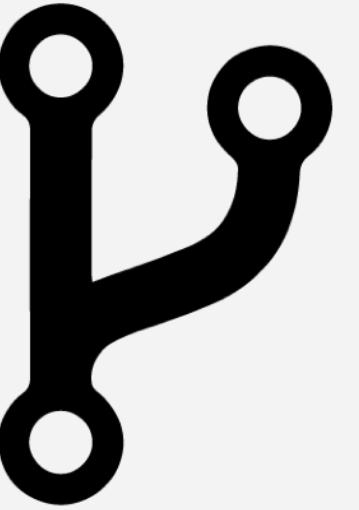
Hands-On

“live session”

Some Assembly Required

- Tools you will need to complete this lab:
 - GitHub Account
 - Travis CI Account
 - Git Client
 - Text Editor





FORK the Repository

The source for this lab can be FORKED from:

<https://github.com/nyu-devops/lab-travis-ci>



You must fork the code so that you can push back to your own copy and trigger Travis CI that we will set up

nyu-devops/lab-travis-ci

The screenshot shows a GitHub repository page for 'nyu-devops/lab-travis-ci'. A red box highlights the URL bar at the top, which displays 'GitHub, Inc. github.com/nyu-devops/lab-travis-ci'. A red arrow points from this URL bar down to a large orange box containing the text 'Go to <http://github.com/nyu-devops/lab-travis-ci>'. The main content area of the page includes the repository name, a description stating 'This lab demonstrates how to use Travis CI with Redis for Continuous Integration', and various repository statistics: 17 commits, 1 branch, 0 releases, 1 contributor, and Apache-2.0 license. Below these stats are buttons for 'Branch: master ▾', 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download ▾'. The commit history lists several recent changes, all made by user 'rofrano' for xenial64 and latest model, including updates to 'static', 'tests', '.gitignore', '.travis.yml', and 'LICENCE' files, along with an initial commit.

Go to <http://github.com/nyu-devops/lab-travis-ci>

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

travis-ci Manage topics

17 commits 1 branch 0 releases 1 contributor Apache-2.0

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

rofrano updated for xenial64 and latest model Latest commit f62faec 29 minutes ago

static updated for xenial64 and latest model 29 minutes ago

tests updated for xenial64 and latest model 29 minutes ago

.gitignore updated for xenial64 and latest model 29 minutes ago

.travis.yml Updated to use Pet model with Redis 7 months ago

LICENCE Initial commit 11 months ago

nyu-devops/lab-travis-ci

The screenshot shows a GitHub repository page for 'nyu-devops/lab-travis-ci'. A red box highlights the URL in the browser's address bar: <http://github.com/nyu-devops/lab-travis-ci>. Another red box highlights the 'Fork' button in the top right corner, which has 12 forks. A large red arrow points from the 'Fork' button towards the text 'Fork it to your personal GitHub Account'.

Go to <http://github.com/nyu-devops/lab-travis-ci>

Fork it to your personal GitHub Account

GitHub, Inc. github.com/nyu-devops/lab-travis-ci

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

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17 commits 1 branch 0 releases 1 contributor Apache-2.0

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tests updated for xenial64 and latest model 29 minutes ago

.gitignore updated for xenial64 and latest model 29 minutes ago

.travis.yml Updated to use Pet model with Redis 7 months ago

LICENSE Initial commit 11 months ago

<your account>/lab-travis-ci

Your new Fork

rofrano / lab-travis-ci
forked from nyu-devops/lab-travis-ci

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

17 commits 1 branch 0 releases 1 contributor

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

This branch is even with nyu-devops:master.

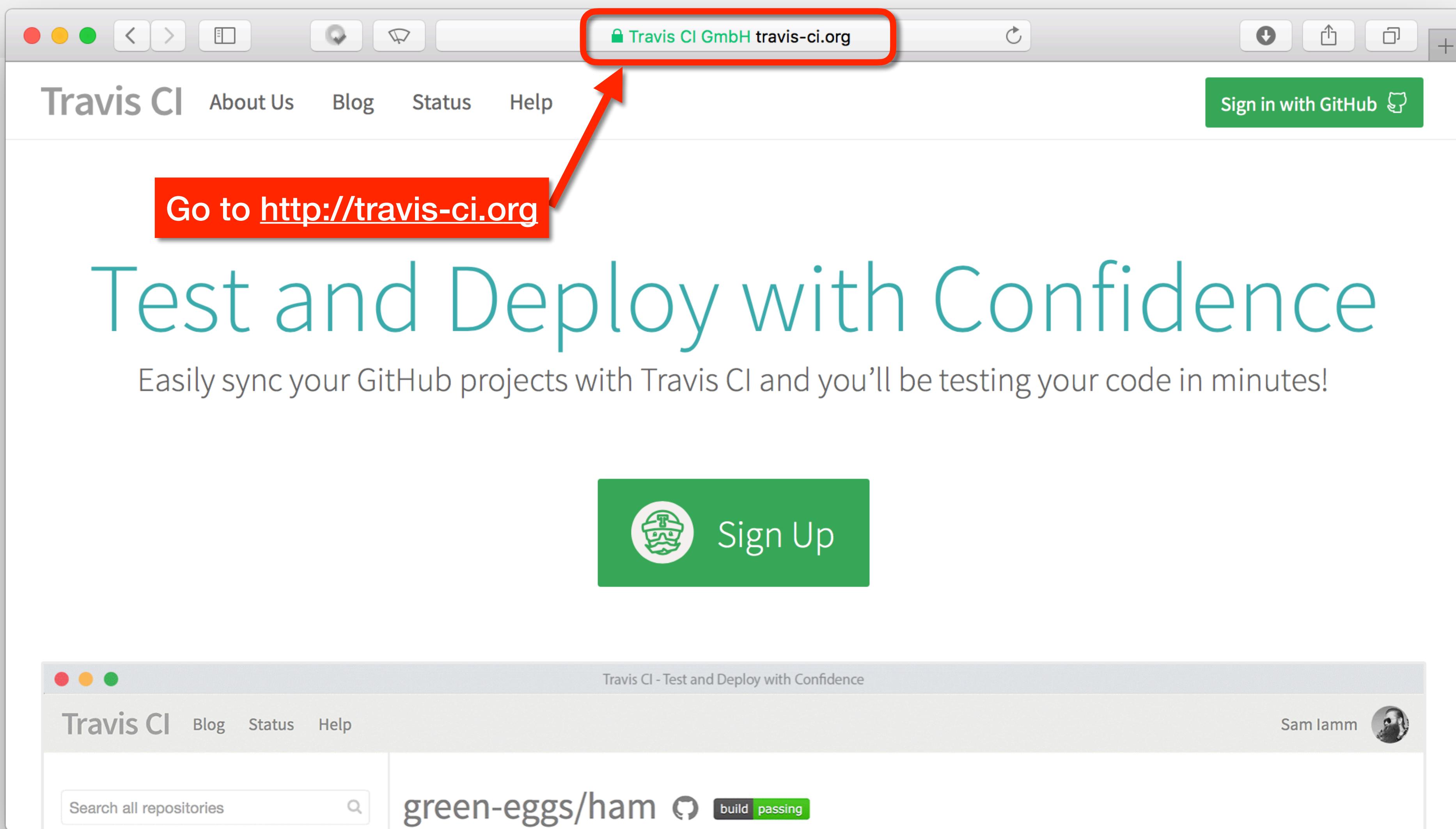
rofrano updated for xenial64 and latest model

static updated for xenial64 and latest model an hour ago

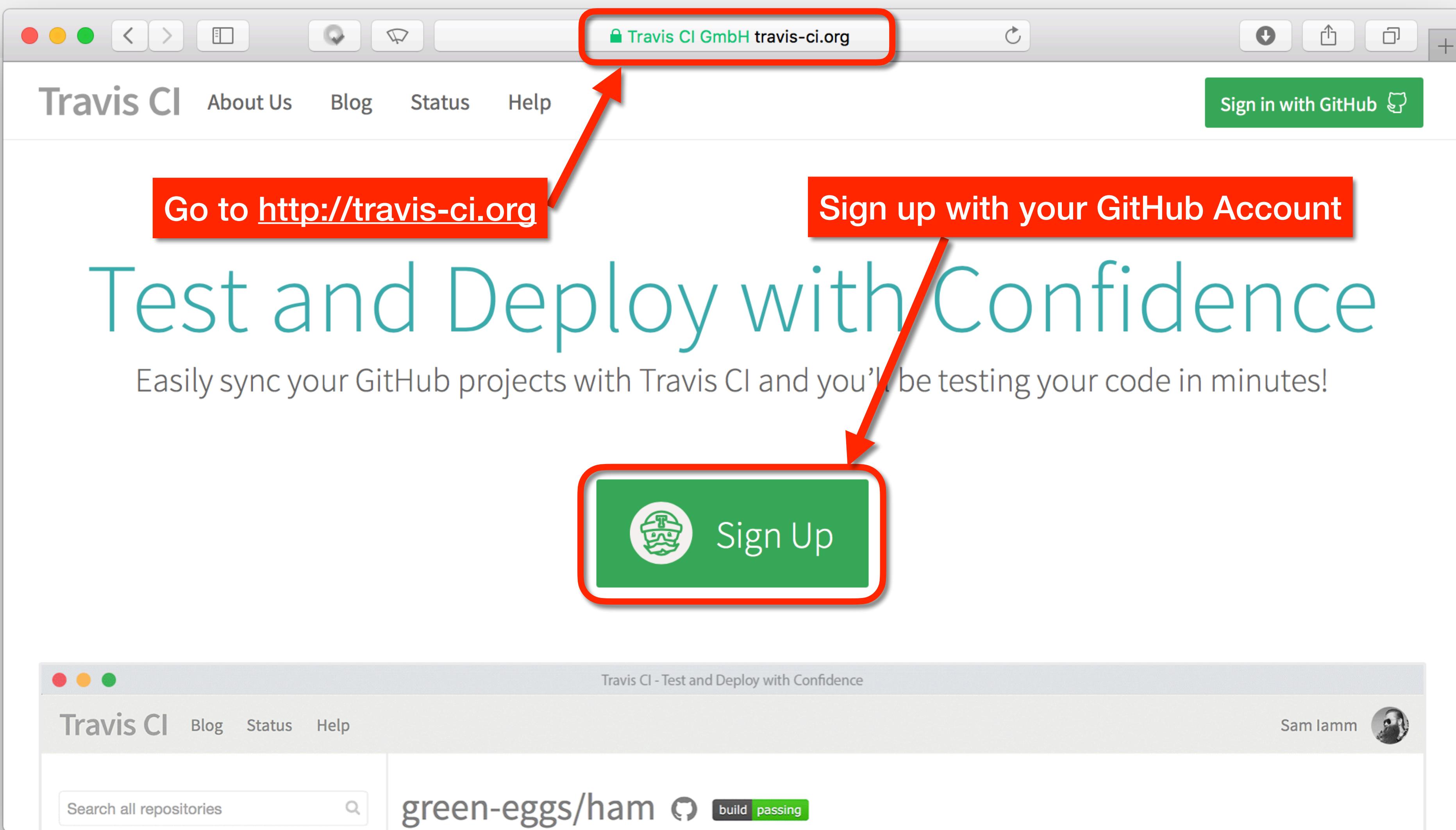
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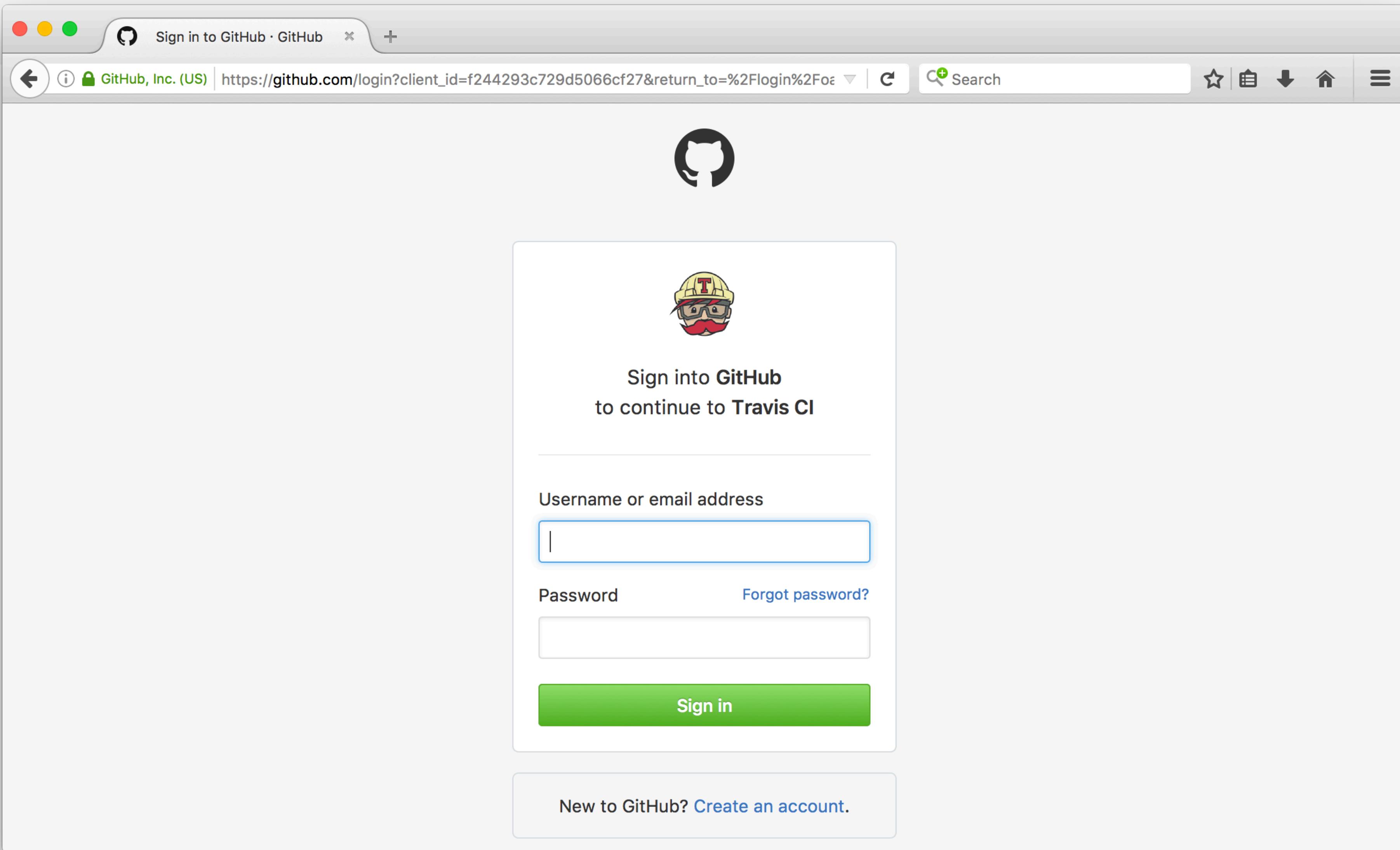
Sign up for Travis CI



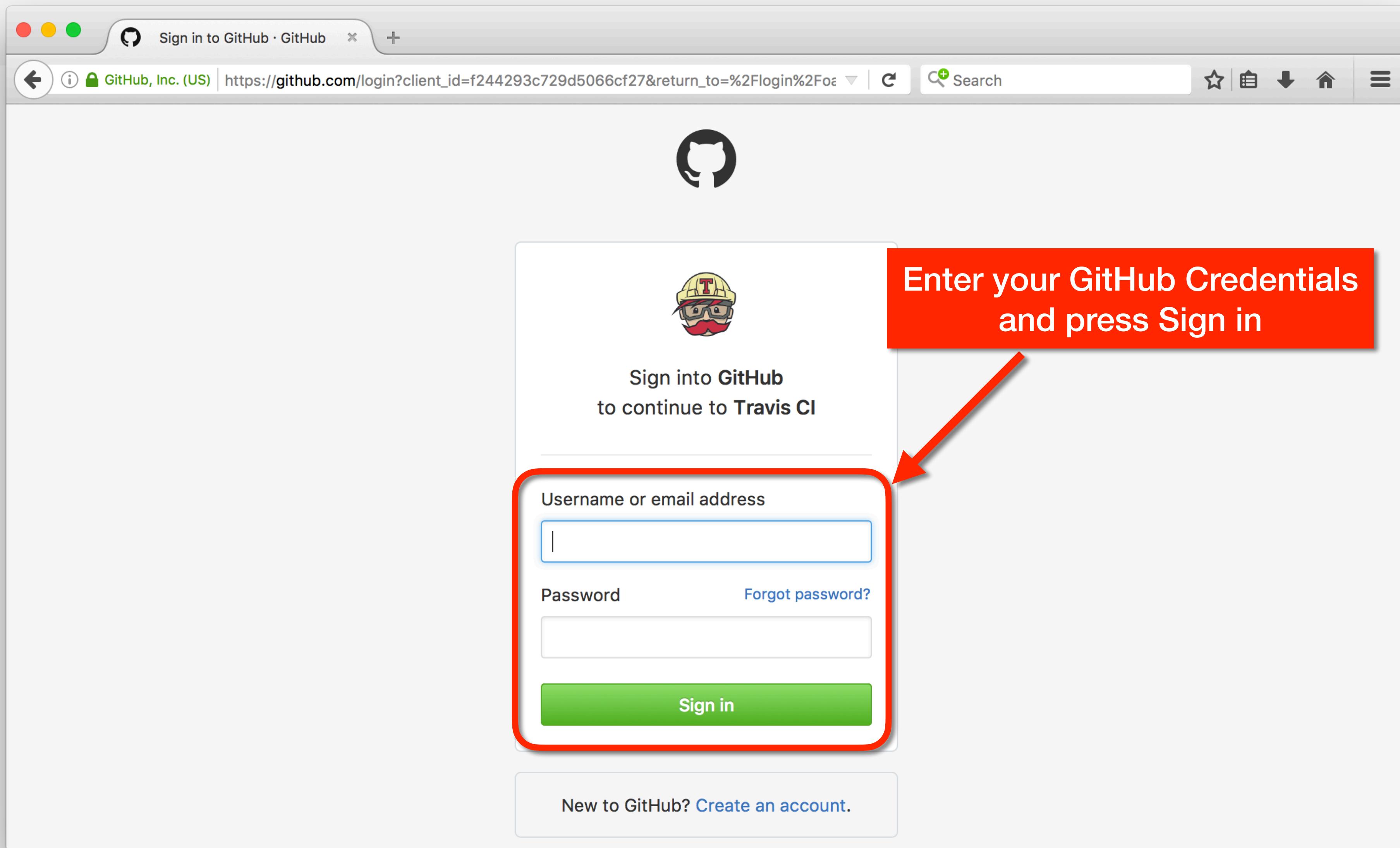
Sign up for Travis CI



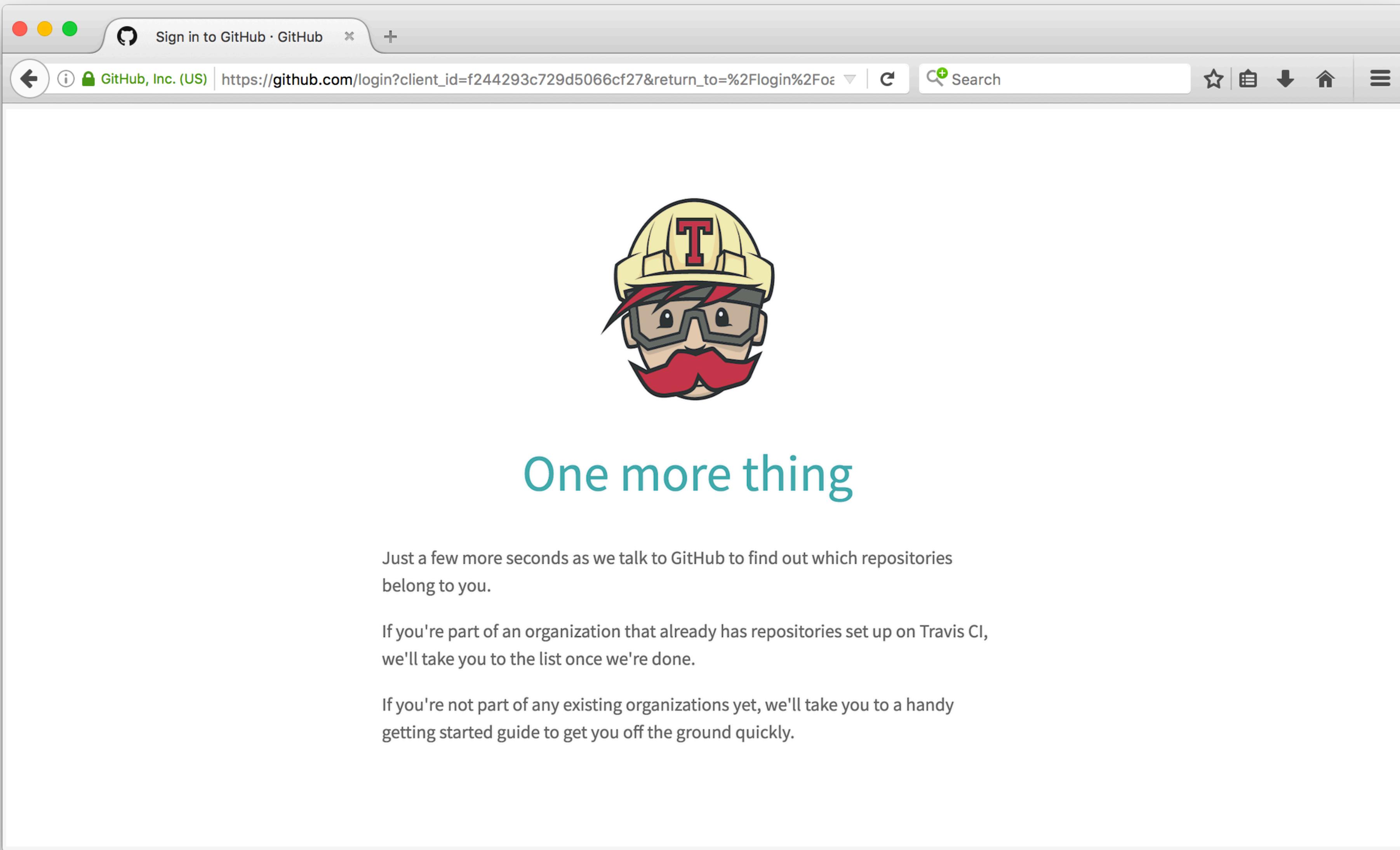
Sign-in Using GitHub



Sign-in Using GitHub



Wait while Syncing...



The screenshot shows a web browser window with a GitHub sign-in page. The title bar says "Sign in to GitHub · GitHub". The address bar shows the URL "https://github.com/login?client_id=f244293c729d5066cf27&return_to=%2Flogin%2Fo...". The page features a large, friendly cartoon character wearing a yellow cap with a red 'T' and a red mustache. Below the character, the text "One more thing" is displayed in a teal font. A message follows: "Just a few more seconds as we talk to GitHub to find out which repositories belong to you." Another message states: "If you're part of an organization that already has repositories set up on Travis CI, we'll take you to the list once we're done." A final message reads: "If you're not part of any existing organizations yet, we'll take you to a handy getting started guide to get you off the ground quickly."

Add your Repository

The screenshot shows a web browser window for Travis CI GmbH at travis-ci.org/getting_started. The page has a header with the Travis CI logo, navigation links for Blog, Status, and Help, and a user profile for John Rofrano. A search bar and a 'My Repositories' section are visible on the left. The main content area features a large heading 'First time here? Let's get you started!' and two numbered steps:

- 1 Activate GitHub Repositories**

Once you're signed in, and we've initially synchronized your repositories from GitHub, go to your [profile](#) page for open source or for your private projects.

You'll see all the organizations you're a member of and all the repositories you have access to. The ones you have administrative access to are the ones you can enable the service hook for.

Flip the switch to on for all repositories you'd like to enable.
- 2 Add .travis.yml file to your repository**

In order for Travis CI to build your project, you need to tell the system a little bit about it. You'll need to add a file named `.travis.yml` to the root of your repository.

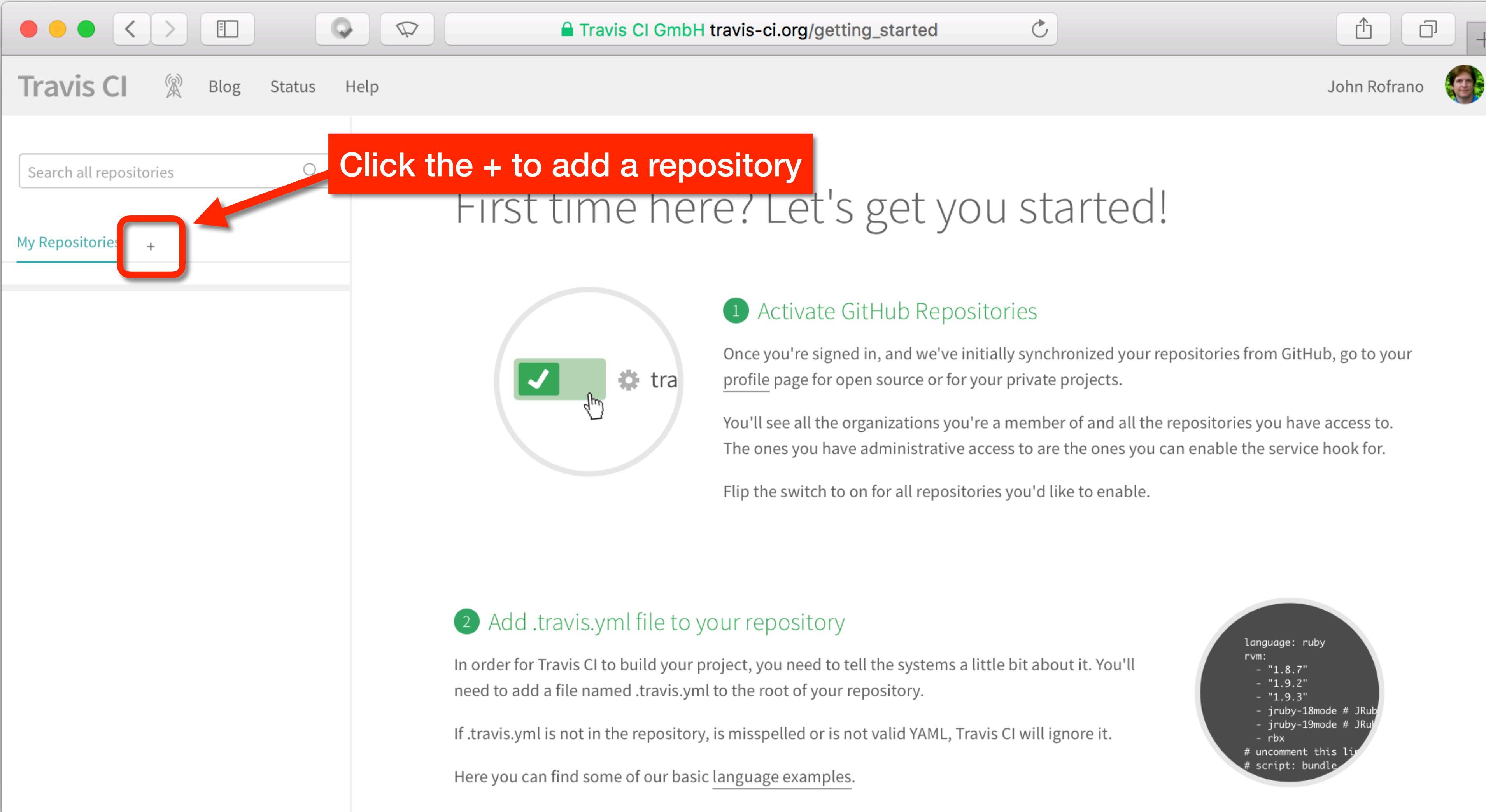
If `.travis.yml` is not in the repository, is misspelled or is not valid YAML, Travis CI will ignore it.

Here you can find some of our basic [language examples](#).

A circular inset on the right shows a snippet of a `.travis.yml` configuration file:

```
language: ruby
rvm:
  - "1.8.7"
  - "1.9.2"
  - "1.9.3"
  - jruby-18mode # JRuby
  - jruby-19mode # JRuby
  - rbx
# uncomment this line if you're using JRuby
# script: bundle
```

Add your Repository



Click the + to add a repository

First time here? Let's get you started!

My Repositories +

1 Activate GitHub Repositories

Once you're signed in, and we've initially synchronized your repositories from GitHub, go to your [profile](#) page for open source or for your private projects.

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language: ruby
rvm:
  - "1.8.7"
  - "1.9.2"
  - "1.9.3"
  - jruby-18mode # JRuby
  - jruby-19mode # JRuby
  - rbx
# uncomment this line if you're using Ruby 2.0+
# script: bundle
```

General Layout

The screenshot shows a Mac OS X browser window displaying the Travis CI profile page for user 'John Rofrano'. The URL in the address bar is travis-ci.org/profile/rofrano. The page has a light gray header with the Travis CI logo, navigation links for Blog, Status, and Help, and a user profile section for John Rofrano. Below the header, there's a sidebar with sections for Beta Features (a 'See what's new!' button), Organizations (a message stating 'You are not currently a member of any organization.'), and a note about organization missingness. The main content area features a large title 'John Rofrano' and a 'Sync account' button. It includes a message about public repositories and a 'Sync account' button. A central call-to-action box contains three numbered steps: 1. Flick the repository switch on, 2. Add .travis.yml file to your repository, and 3. Trigger your first build with a git push. At the bottom, a list of repositories is shown, each with a delete icon and a repository name:

- rofrano/api-test
- rofrano/bluemix-starter-code
- rofrano/catalog-api-toolchain-demo-1487266622212
- rofrano/lab-bluemix-cf
- rofrano/lab-deploy-test
- rofrano/lab-vagrant

General Layout

The screenshot shows the Travis CI profile page for a user named John Rofrano. The top navigation bar includes links for Travis CI, Blog, Status, Help, and a profile picture of John Rofrano. A red arrow points from the text "Your personal repositories will be listed here" down to the list of repositories.

John Rofrano

Your personal repositories will be listed here

Sync account

John Rofrano

Repositories 8

Token: [View](#)

Beta Features

See what's new!

Organizations

You are not currently a member of any organization.

Is an organization missing? [Review and add your authorized organizations.](#)

1 Flick the repository switch on

2 Add .travis.yml file to your repository

3 Trigger your first build with a git push

rofrano/api-test

rofrano/bluemix-starter-code

rofrano/catalog-api-toolchain-demo-1487266622212

rofrano/lab-bluemix-cf

rofrano/lab-deploy-test

rofrano/lab-vagrant

General Layout

The screenshot shows the Travis CI profile page for John Rofrano. At the top, there's a navigation bar with icons for search, refresh, and account management. The URL is travis-ci.org/profile/rofrano. Below the nav is the Travis CI logo and links to Blog, Status, and Help. On the right, there's a profile picture of John Rofrano and a "Sync account" button.

On the left, there's a sidebar with John Rofrano's profile picture, name, repository count (8), and a "Token" link. A large red call-to-action box contains the text: "If you have a GitHub Organization Click here to add your organization". A red arrow points from this box down to a link: "Is an organization missing? Review and add your authorized organizations." This link is highlighted with a red border.

The main content area has a title "John Rofrano" and a note: "We're only showing your public repositories. You can find your private projects on [travis-ci.com](#)". Below this is a three-step guide:

- 1 Flick the repository switch on
- 2 Add .travis.yml file to your repository
- 3 Trigger your first build with a git push

Under the guide, there's a list of repositories:

- rofrano/api-test
- rofrano/bluemix-starter-code
- rofrano/catalog-api-toolchain-demo-1487266622212
- rofrano/lab-bluemix-cf
- rofrano/lab-deploy-test
- rofrano/lab-vagrant

Grant Access to Organization

The screenshot shows the GitHub settings interface for managing organization access. On the left, a sidebar lists various settings categories like Emails, Notifications, Billing, etc. The 'Authorized applications' section is currently selected. The main area displays a list of applications with their logos and names: 'devops-foxtrot-s17' (with a red 'X'), 'nyu-devops' (with a red 'X'), and 'NYU-DevOps-Charlie-CSCI-GA-3033-013'. To the right of each application is a 'Request access' button and a 'Grant access' button, with the 'Grant access' button for the third application highlighted with a red box and a red arrow pointing to it. A large red box also highlights the text 'Grant Access to your Org'.

Permissions

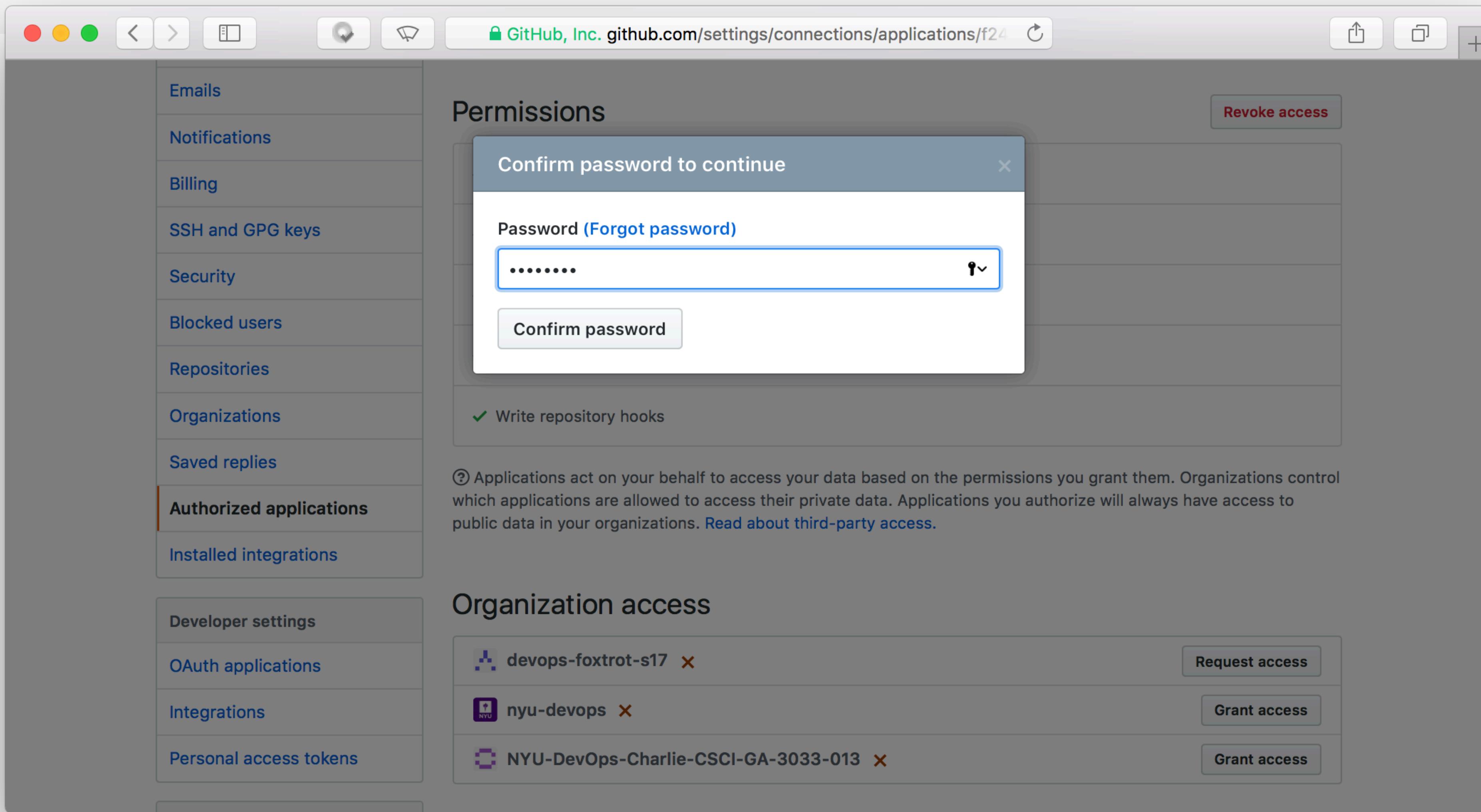
- ✓ Read org and team membership
- ✓ Access commit status
- ✓ Access deployment status
- ✓ Access user email addresses (read-only)
- ✓ Write repository hooks

Grant Access to your Org

Organization access

| Application | Status | Action |
|-------------------------------------|--------|----------------|
| devops-foxtrot-s17 | X | Request access |
| nyu-devops | X | Grant access |
| NYU-DevOps-Charlie-CSCI-GA-3033-013 | X | Grant access |

Authenticate



Grant Access Successful

The screenshot shows a Mac OS X window for GitHub settings at github.com/settings/connections/applications/f24. The left sidebar lists various settings categories. The 'Authorized applications' section is selected, highlighted by a red border. The main content area shows a list of authorized applications under 'Organization access'. The application 'nyu-devops' is listed with a green checkmark next to it, indicating successful authorization. A large red arrow points from a text overlay to this green checkmark. A red box highlights the entire 'nyu-devops' row. A text overlay with a red background and white text reads 'Green checkmark shows it worked'. The 'Revoke' button is visible next to the 'nyu-devops' entry.

Permissions

- ✓ Read org and team membership
- ✓ Access commit status
- ✓ Access deployment status
- ✓ Access user email addresses (read-only)
- ✓ Write repository hooks

② Applications act on your behalf to access your data based on the permissions you grant them. Organizations control which applications are allowed to access their private data. Applications you authorize will always have access to public data.

Green checkmark shows it worked

Organization access

| Application | Status | Action |
|-------------------------------------|--------|----------------|
| devops-foxtrot-s17 | ✓ | Request access |
| nyu-devops | ✓ | Revoke |
| NYU-DevOps-Charlie-CSCI-GA-3033-013 | ✗ | Grant access |

Sync if you don't see your new repo

The screenshot shows the Travis CI dashboard interface. At the top, there's a red banner with the text "Press Sync Account if you don't see your repo". On the left, under "MY ACCOUNT", there's a profile card for "John Rofrano" with a "Sync account" button highlighted by a red box and an arrow pointing to it. Below this, there are sections for "ORGANIZATIONS" (IBM DevOps, NYU Devops) and "MISSING AN ORGANIZATION?" (Review and add your authorized organizations). On the right, the user profile for "John Rofrano (@rofrano)" is shown, along with tabs for "Repositories" (which is selected) and "Settings". A message states "We're only showing your public repositories. You can find your private projects on [travis-ci.com](#)". Under "Legacy Services Integration", there are three repository cards: "bluemix-starter-code", "dockerfiles", and "hitcounter", each with a "Settings" button.

Press Sync Account if you don't see your repo

MY ACCOUNT

John Rofrano

Sync account

ORGANIZATIONS

IBM DevOps

NYU Devops

MISSING AN ORGANIZATION?

Review and add your authorized organizations.

John Rofrano
@rofrano

Repositories Settings

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

Legacy Services Integration

Filter repositories

bluemix-starter-code

dockerfiles

hitcounter

Settings

Settings

Settings

Scroll down to your repo

The screenshot shows the Travis CI dashboard for user John Rofrano (@rofrano). The top navigation bar includes links for Travis CI, Dashboard, Changelog, Documentation, Help, and a user profile icon. A red box highlights the 'Sync account' button, with the text 'Org will show up here' overlaid. Below this, the 'ORGANIZATIONS' section lists two organizations: 'IBM DevOps' and 'NYU Devops', with 'NYU Devops' highlighted by a red box. A red arrow points from this highlighted box towards the 'Sync account' button. The 'repositories' tab is selected, showing three public repositories: 'bluemix-starter-code', 'dockerfiles', and 'hitcounter'. A message indicates that only public repositories are shown, with private projects available on [travis-ci.com](#). A 'Filter repositories' button is also present.

MY ACCOUNT

John Rofrano

Sync account

Org will show up here

IBM DevOps

NYU Devops

MISSING AN ORGANIZATION?
Review and add your authorized organizations.

John Rofrano
@rofrano

repositories Settings

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

Legacy Services Integration

Filter repositories

bluemix-starter-code

dockerfiles

hitcounter

Scroll down to your repo

The screenshot shows the Travis CI dashboard for user John Rofrano (@rofrano). The top navigation bar includes links for Travis CI, Dashboard, Changelog, Documentation, Help, and a user profile icon. The main content area starts with a 'MY ACCOUNT' section featuring a profile picture and the name 'John Rofrano'. Below this is a teal button labeled 'Sync account'. A red box highlights this button with the text 'Org will show up here'. To the right, the user's GitHub profile is shown with the name 'John Rofrano' and handle '@rofrano'. Further down, there's a 'Sync account' button, a 'repositories' tab (which is currently selected), and a 'Settings' tab. A red arrow points from the 'Sync account' button towards the 'repositories' tab. The 'repositories' section displays three public repositories: 'bluemix-starter-code', 'dockerfiles', and 'hitcounter'. Each repository has a small icon, a name, and a 'Settings' button. A red box highlights the 'Settings' button for the 'hitcounter' repository with the text 'Scroll Down', and a red arrow points downwards from this box towards the bottom of the screen.

MY ACCOUNT

John Rofrano

Sync account

Org will show up here

Sync account

repositories Settings

ORGANIZATIONS

IBM DevOps

NYU Devops

MISSING AN ORGANIZATION?

Review and add your authorized organizations.

John Rofrano
@rofrano

We're only showing your public repositories. You can find your private projects on [travis-ci.com](#).

Legacy Services Integration

Filter repositories

bluemix-starter-code

dockerfiles

hitcounter

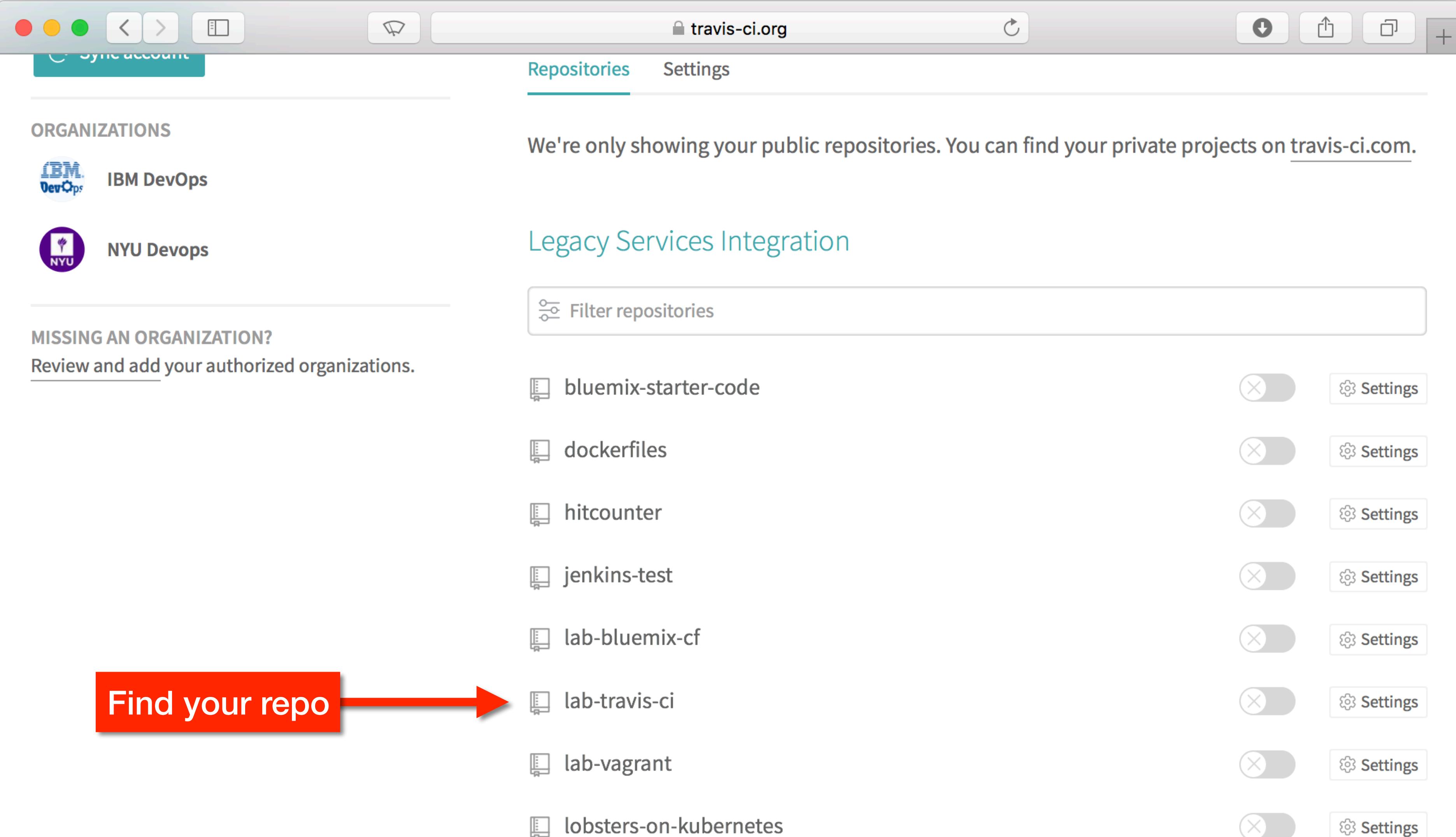
Settings

Settings

Settings

Scroll Down

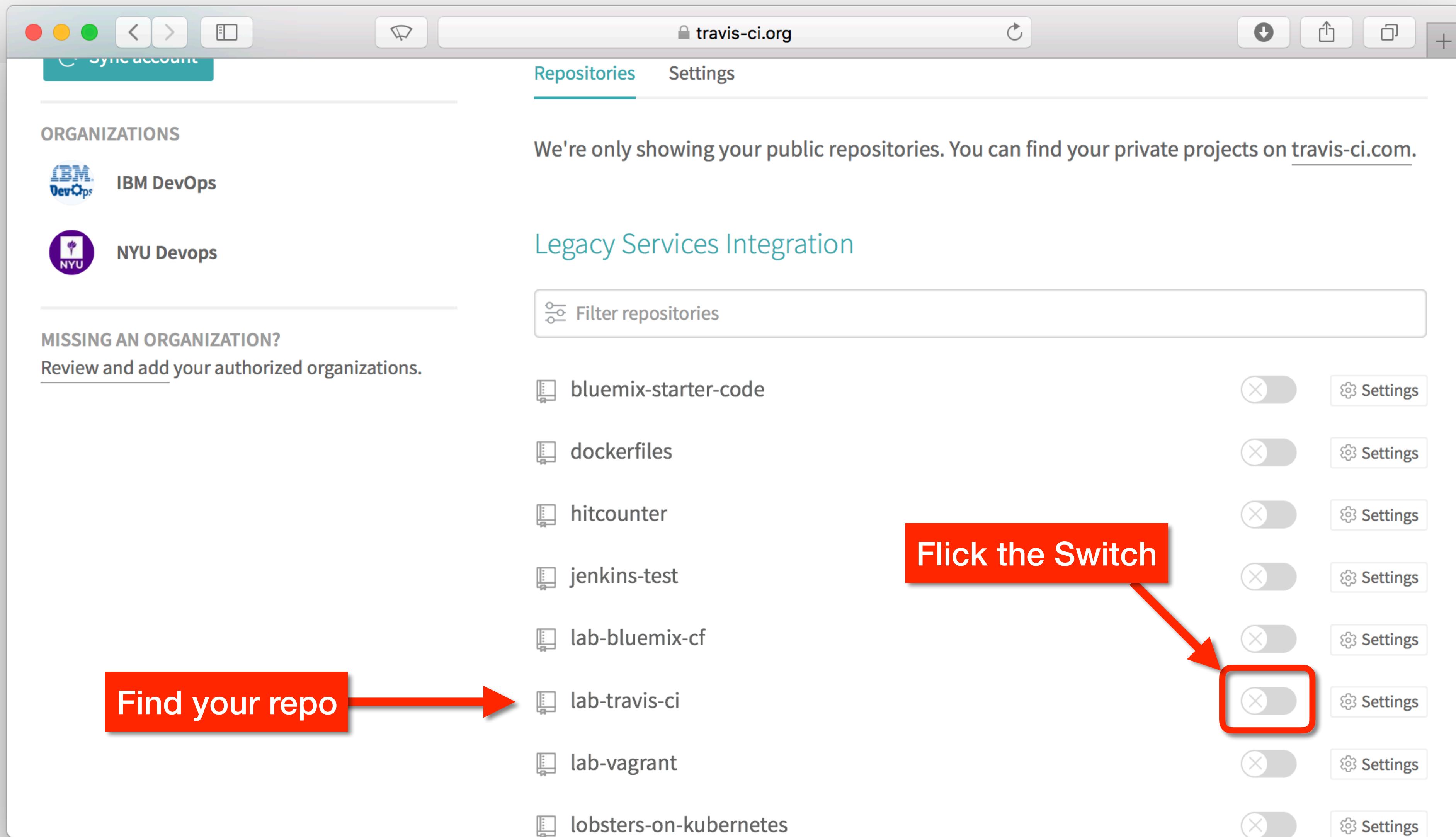
Turn on Your Repo



The screenshot shows the Travis CI web interface with the URL `travis-ci.org` in the address bar. The interface has a light gray header with standard OS X-style buttons. Below the header, there are tabs for 'Repositories' (which is selected) and 'Settings'. On the left, there's a sidebar titled 'ORGANIZATIONS' showing two entries: 'IBM DevOps' and 'NYU Devops'. Below this, a section titled 'MISSING AN ORGANIZATION?' encourages users to review and add authorized organizations. A large red button at the bottom left is labeled 'Find your repo' with a red arrow pointing towards the repository list. The main content area is titled 'Legacy Services Integration' and contains a 'Filter repositories' input field. A list of repositories is shown, each with a small icon, the repository name, a toggle switch, and a 'Settings' button. The repositories listed are: bluemix-starter-code, dockerfiles, hitcounter, jenkins-test, lab-bluemix-cf, lab-travis-ci, lab-vagrant, and lobsters-on-kubernetes.

| Repository | Status | Actions |
|------------------------|--------|----------|
| bluemix-starter-code | Off | Settings |
| dockerfiles | Off | Settings |
| hitcounter | Off | Settings |
| jenkins-test | Off | Settings |
| lab-bluemix-cf | Off | Settings |
| lab-travis-ci | Off | Settings |
| lab-vagrant | Off | Settings |
| lobsters-on-kubernetes | Off | Settings |

Turn on Your Repo



Click Gear Icon

The screenshot shows the Travis CI dashboard with the URL travis-ci.org in the browser's address bar. The interface includes a top navigation bar with tabs for 'Sync account', 'Repositories' (which is active), and 'Settings'. On the left, there's a sidebar for 'ORGANIZATIONS' with entries for 'IBM DevOps' and 'NYU Devops'. Below this, a section for 'MISSING AN ORGANIZATION?' encourages users to review and add authorized organizations. The main content area displays a list of public repositories under 'Legacy Services Integration'. Each repository entry includes a small icon, the repository name, a delete button, and a 'Settings' button. A large red callout box with the text 'Click Settings to go to the Dashboard' is overlaid on the 'Settings' button for the 'lab-travis-ci' repository, which has a checked status indicator. A red arrow points from this callout to the 'Settings' button.

| Repository | Status | Actions |
|------------------------|-----------|----------|
| bluemix-starter-code | unchecked | Settings |
| dockerfiles | unchecked | Settings |
| hitcounter | unchecked | Settings |
| jenkins-test | unchecked | Settings |
| lab-bluemix-cf | unchecked | Settings |
| lab-travis-ci | checked | Settings |
| lab-vagrant | unchecked | Settings |
| lobsters-on-kubernetes | unchecked | Settings |

You Control The Build

The screenshot shows the Travis CI web interface. At the top, there's a navigation bar with links for Travis CI, Dashboard, Changelog, Documentation, Help, and a user profile icon. Below the navigation is a search bar labeled "Search all repositories". On the left, a sidebar titled "My Repositories" lists three repositories: "nyu-devops/lab-travis-ci" (33 builds, duration 56 sec, finished 24 minutes ago), "nyu-devops/lab-flask-tdc" (10 builds, duration 58 sec, finished 21 days ago), and "nyu-devops/lab-restful-fl" (18 builds, duration 27 sec, finished 29 days ago). The main content area shows the repository "rofrano / lab-travis-ci" with a green "build passing" status indicator. The "Settings" tab is selected. Under "General", there are two toggle switches: "Build pushed branches" (on) and "Build pushed pull requests" (on). A section titled "Auto Cancellation" explains that it allows running builds for the latest commits in the queue separately for branch and pull request builds. At the bottom, there are two buttons: "Auto cancel branch builds" and "Auto cancel pull request builds".

You Control The Build

The screenshot shows the Travis CI interface for the repository `rofrano / lab-travis-ci`. A red callout box highlights the text "The default is Pushes and Pull Requests". An arrow points from this text to the "Build pushed branches" and "Build pushed pull requests" toggle switches, which are both highlighted with a red border. The "Build pushed branches" switch is turned on, while the "Limit concurrent jobs" switch is turned off.

The repository page displays three previous build logs:

- `nyu-devops/lab-travis-ci` # 33: Duration: 56 sec, Finished: 24 minutes ago
- `nyu-devops/lab-flask-tdc` # 10: Duration: 58 sec, Finished: 21 days ago
- `nyu-devops/lab-restful-fi` # 18: Duration: 27 sec, Finished: 29 days ago

General

Build pushed branches [?](#)

Build pushed pull requests [?](#)

Limit concurrent jobs [?](#)

Auto Cancellation

Auto Cancellation allows you to only run builds for the latest commits in the queue. This setting can be applied to builds for Branch builds and Pull Request builds separately. Builds will only be canceled if they are waiting to run, allowing for any running jobs to finish.

[Auto cancel branch builds](#) [Auto cancel pull request builds](#)

You Control The Build

Press the badge

Travis CI Dashboard Changelog Documentation Help

Search all repositories

My Repositories +

✓ nyu-devops/lab-travis-ci # 33 Duration: 56 sec Finished: 24 minutes ago

✓ nyu-devops/lab-flask-tdc # 10 Duration: 58 sec Finished: 21 days ago

✓ nyu-devops/lab-restful-fl # 18 Duration: 27 sec Finished: 29 days ago

rofrano / lab-travis-ci

build passing

Current Branches Build History Pull Requests Settings More options

General

Build pushed branches Limit concurrent jobs

Build pushed pull requests

Auto Cancellation

Auto Cancellation allows you to only run builds for the latest commits in the queue. This setting can be applied to builds for Branch builds and Pull Request builds separately. Builds will only be canceled if they are waiting to run, allowing for any running jobs to finish.

Auto cancel branch builds Auto cancel pull request builds

Get your Badge

The screenshot shows a web browser window for travis-ci.org. The main navigation bar includes links for Dashboard, Changelog, Documentation, and Help. A user profile picture is visible in the top right corner. On the left, there's a sidebar titled "My Repositories" with a search bar above it. Below the search bar, two repository cards are listed: "nyu-devops/lab-travis-ci" and "nyu-devops/lab-flask-tde". Each card shows a green checkmark icon, duration (56 sec and 58 sec respectively), and a timestamp (25 minutes ago and 21 days ago). A modal dialog box is open in the center, titled "Status Image". It contains a dropdown menu set to "master" under "BRANCH". Another dropdown menu is set to "Markdown". Below these dropdowns is a code editor-like area containing the following Markdown code:

```
![Build Status](https://travis-ci.org/rofrano/lab-travis-ci.svg?branch=master)](https://travis-ci.org/rofrano/lab-travis-ci)
```

A close button ("X") is located in the top right corner of the modal. At the bottom of the modal, there's a section titled "Auto Cancellation" with a descriptive text about the feature.

Search all repositories

My Repositories

nyu-devops/lab-travis-ci

Duration: 56 sec
Finished: 25 minutes ago

nyu-devops/lab-flask-tde

Duration: 58 sec
Finished: 21 days ago

nyu-devops/lab-restful-f # 18

Duration: 27 sec
Finished: 29 days ago

Status Image

BRANCH

master

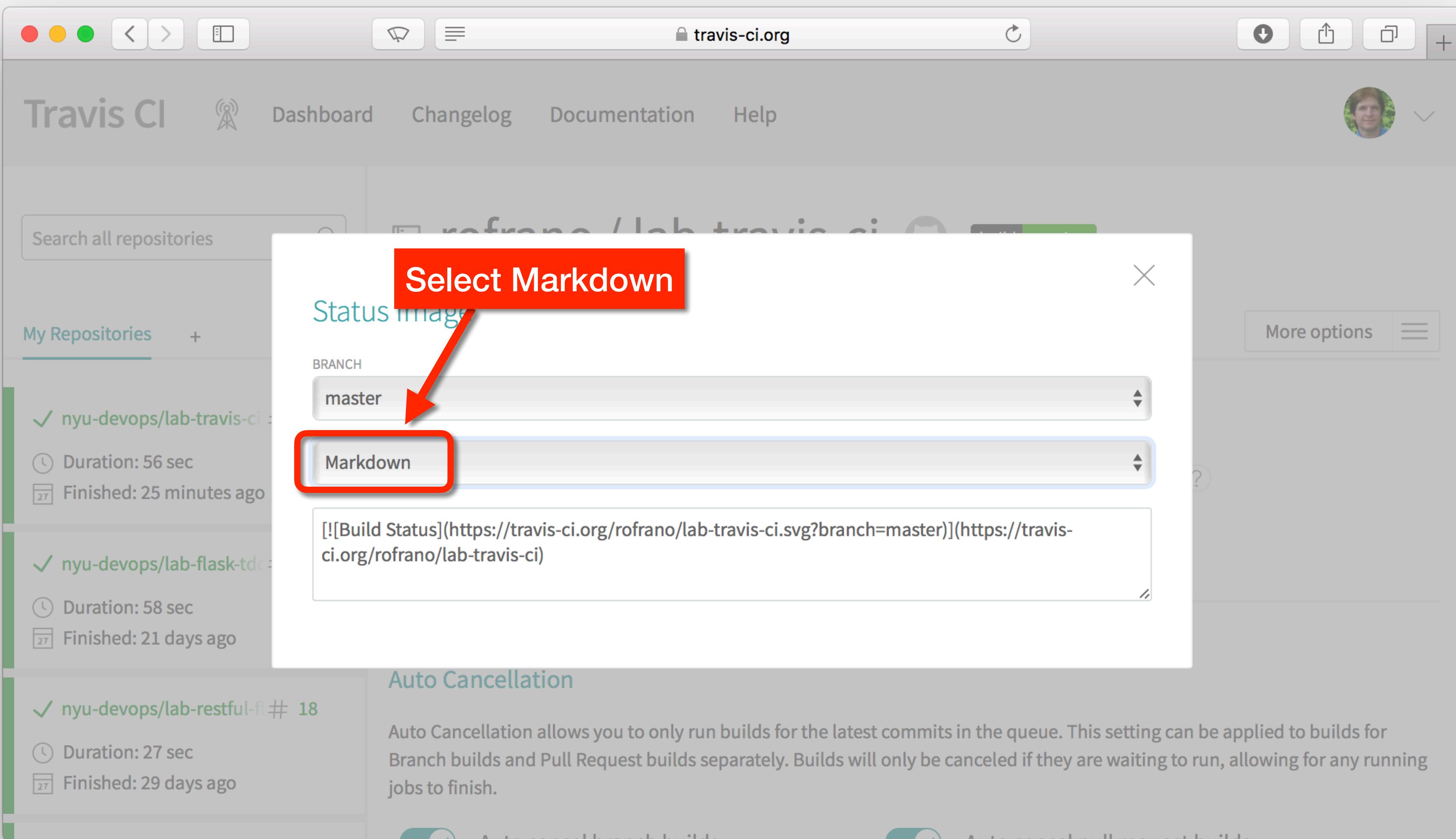
Markdown

```
![Build Status](https://travis-ci.org/rofrano/lab-travis-ci.svg?branch=master)](https://travis-ci.org/rofrano/lab-travis-ci)
```

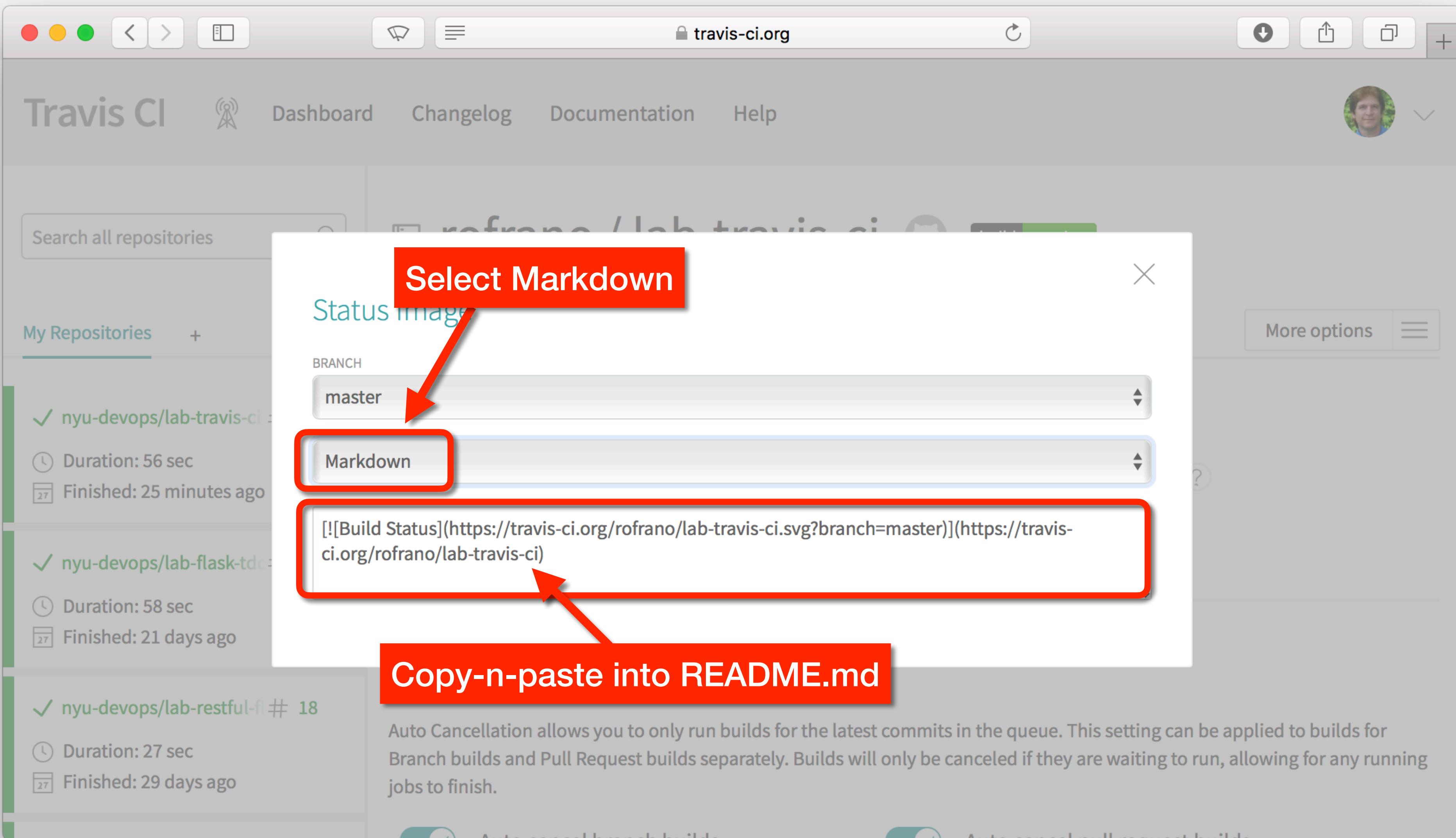
Auto Cancellation

Auto Cancellation allows you to only run builds for the latest commits in the queue. This setting can be applied to builds for Branch builds and Pull Request builds separately. Builds will only be canceled if they are waiting to run, allowing for any running jobs to finish.

Get your Badge



Get your Badge



Go To Your Repo

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

Add topics

17 commits | 1 branch | 0 releases | 1 contributor

Branch: master ▾ | New pull request | Create new file | Upload files | Find file | Clone or download ▾

This branch is even with nyu-devops:master.

Pull request | Compare

| File / Commit | Description | Time |
|---|---------------------------------------|---------------|
| rofrano updated for xenial64 and latest model | Latest commit f62faec an hour ago | |
| static | updated for xenial64 and latest model | an hour ago |
| tests | updated for xenial64 and latest model | an hour ago |
| .gitignore | updated for xenial64 and latest model | an hour ago |
| .travis.yml | Updated to use Pet model with Redis | 7 months ago |
| LICENSE | Initial commit | 11 months ago |
| Procfile | added Bluemix files | 11 months ago |
| README.md | Added a license badge | 5 months ago |
| Vagrantfile | updated for xenial64 and latest model | an hour ago |

Go To Your Repo

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

Add topics

17 commits | 1 branch | 0 releases | 1 contributor

Branch: master ▾ | New pull request | Create new file | Upload files | Find file | Clone or download ▾

This branch is even with nyu-devops:master.

Pull request | Compare

rofrano updated for xenial64 and latest model | Latest commit f62faec an hour ago

static updated for xenial64 and latest model | an hour ago

tests updated for xenial64 and latest model | an hour ago

.gitignore | an hour ago

.travis.yml Updated to use Pet model with Redis | 7 months ago

LICENSE Initial commit | 11 months ago

Procfile added Bluemix files | 11 months ago

README.md Added a license badge | 5 months ago

Vagrantfile updated for xenial64 and latest model | an hour ago

Edit

Clone or download ▾

Edit the README.md to add the badge

Edit the Readme.md

The screenshot shows a GitHub repository page for 'rofrano / lab-travis-ci'. The repository is a fork from 'nyu-devops/lab-travis-ci'. The README.md file is displayed, containing the text 'nyu-travis-ci' and a note about using Travis CI with Redis for Continuous Integration. The page includes standard GitHub navigation and repository statistics.

rofrano / lab-travis-ci
forked from nyu-devops/lab-travis-ci

Code Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master lab-travis-ci / README.md Find file Copy path

rofrano Added a license badge f7cf48b on May 13

1 contributor

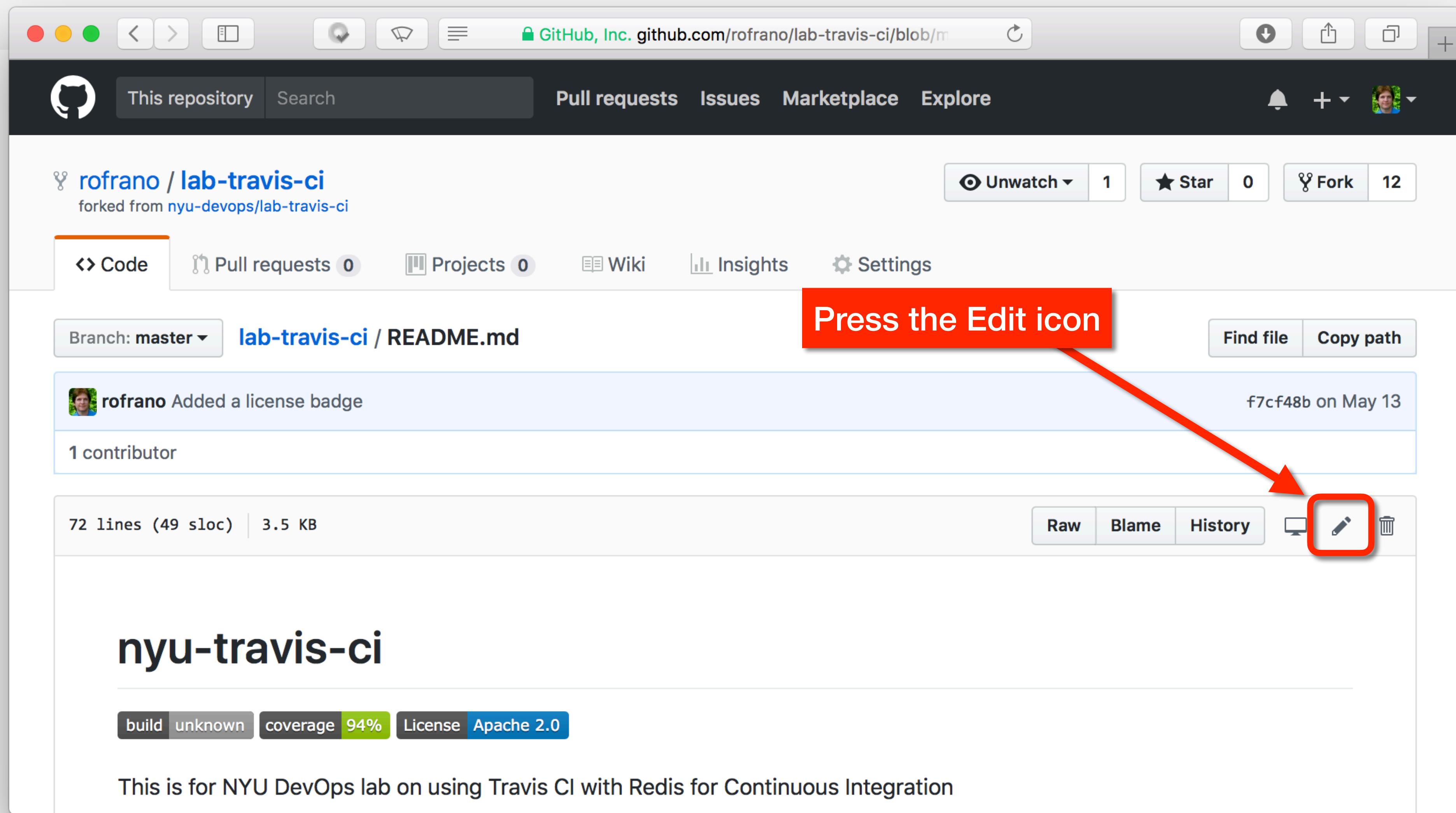
72 lines (49 sloc) | 3.5 KB Raw Blame History

nyu-travis-ci

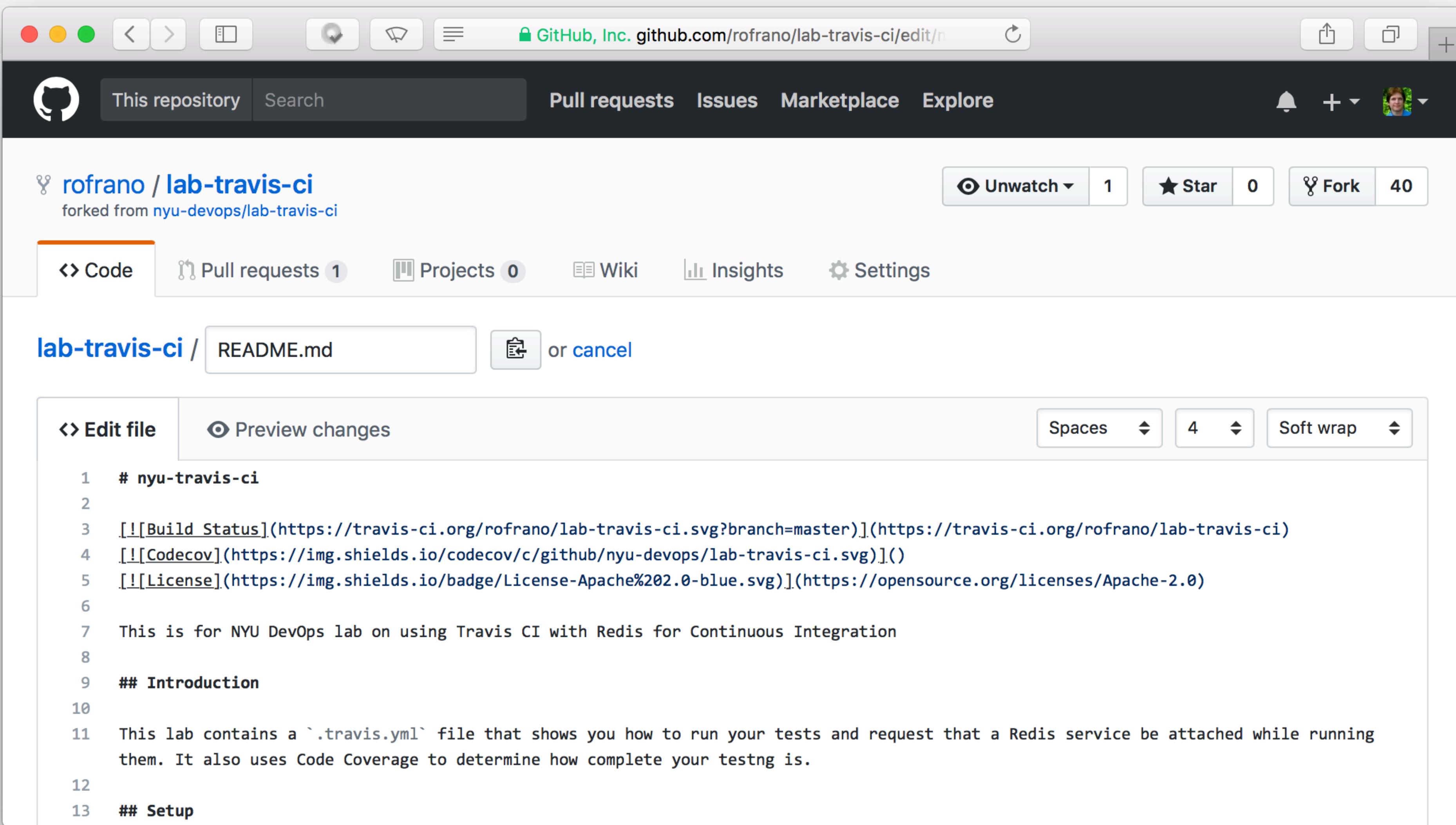
build unknown coverage 94% License Apache 2.0

This is for NYU DevOps lab on using Travis CI with Redis for Continuous Integration

Edit the Readme.md



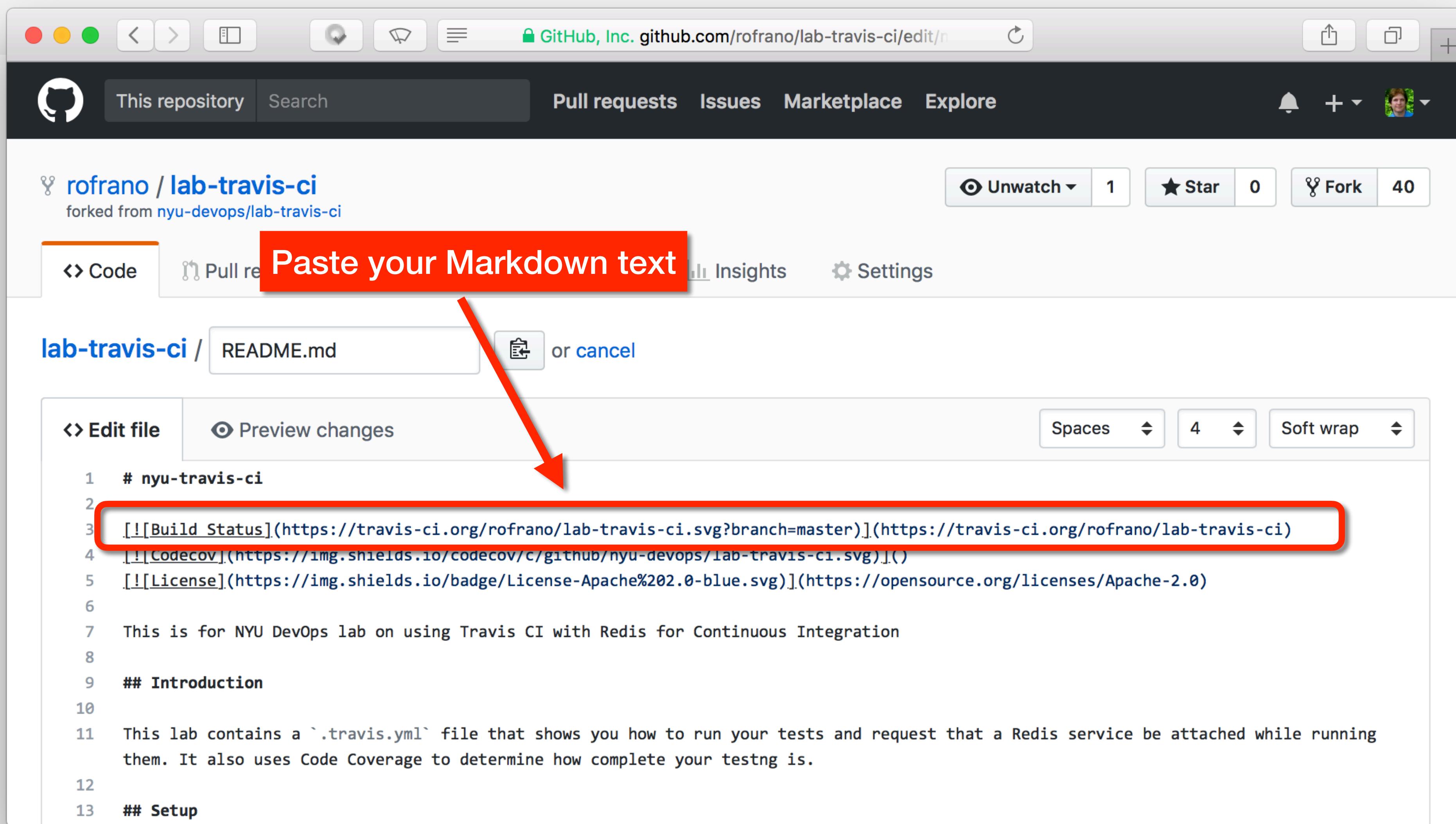
Paste the Badge Markdown



The screenshot shows a GitHub repository page for `rofrano / lab-travis-ci`. The user is editing the `README.md` file. The code editor contains the following Markdown:

```
1 # nyu-travis-ci
2
3 [![Build Status](https://travis-ci.org/rofrano/lab-travis-ci.svg?branch=master)](https://travis-ci.org/rofrano/lab-travis-ci)
4 [![Codecov](https://img.shields.io/codecov/c/github/nyu-devops/lab-travis-ci.svg)]()
5 [![License](https://img.shields.io/badge/License-Apache%202.0-blue.svg)](https://opensource.org/licenses/Apache-2.0)
6
7 This is for NYU DevOps lab on using Travis CI with Redis for Continuous Integration
8
9 ## Introduction
10
11 This lab contains a .travis.yml file that shows you how to run your tests and request that a Redis service be attached while running them. It also uses Code Coverage to determine how complete your testing is.
12
13 ## Setup
```

Paste the Badge Markdown



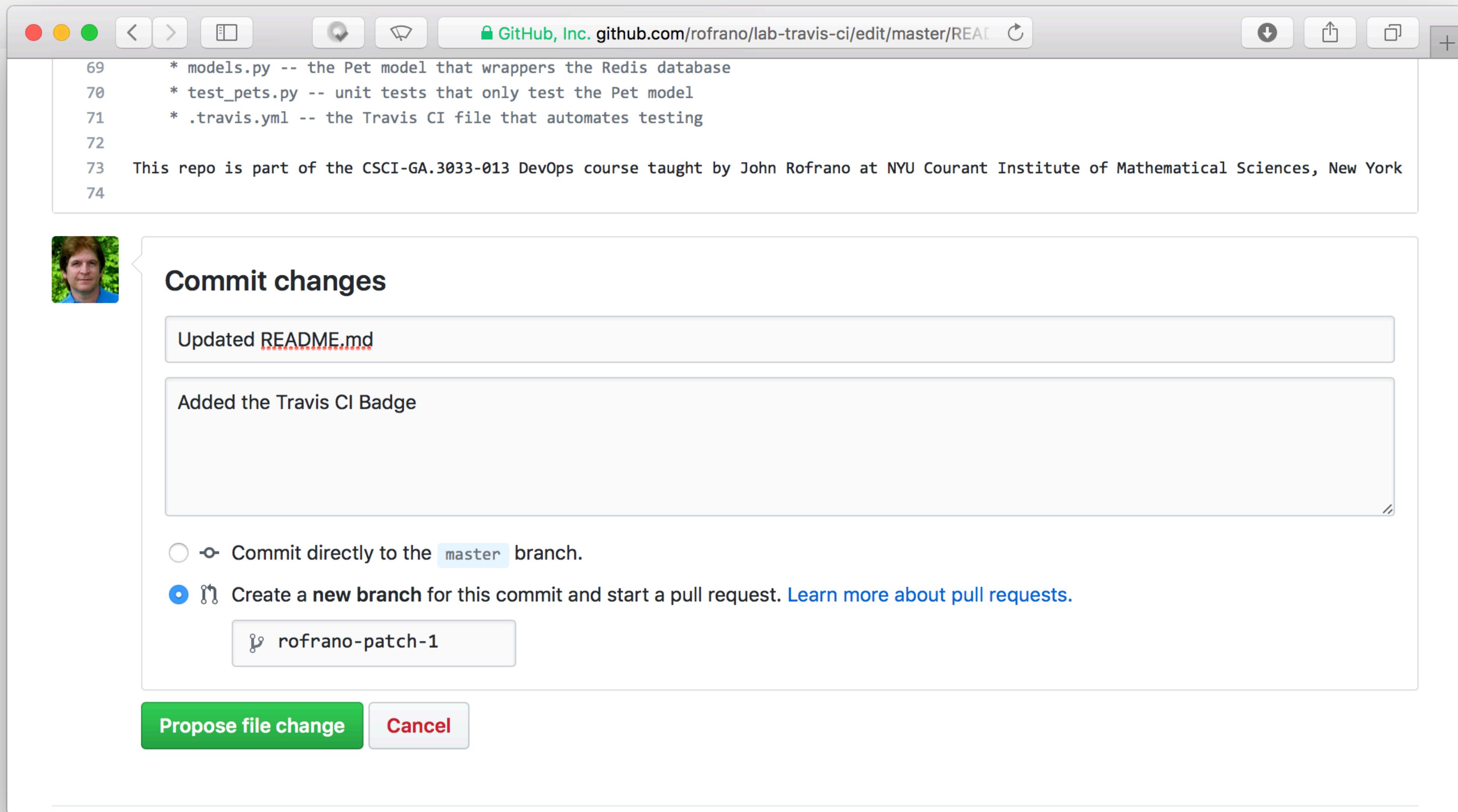
Paste the Badge Markdown

The screenshot shows a GitHub repository named `rofrano / lab-travis-ci`. The user is editing the `README.md` file. The code editor contains the following content:

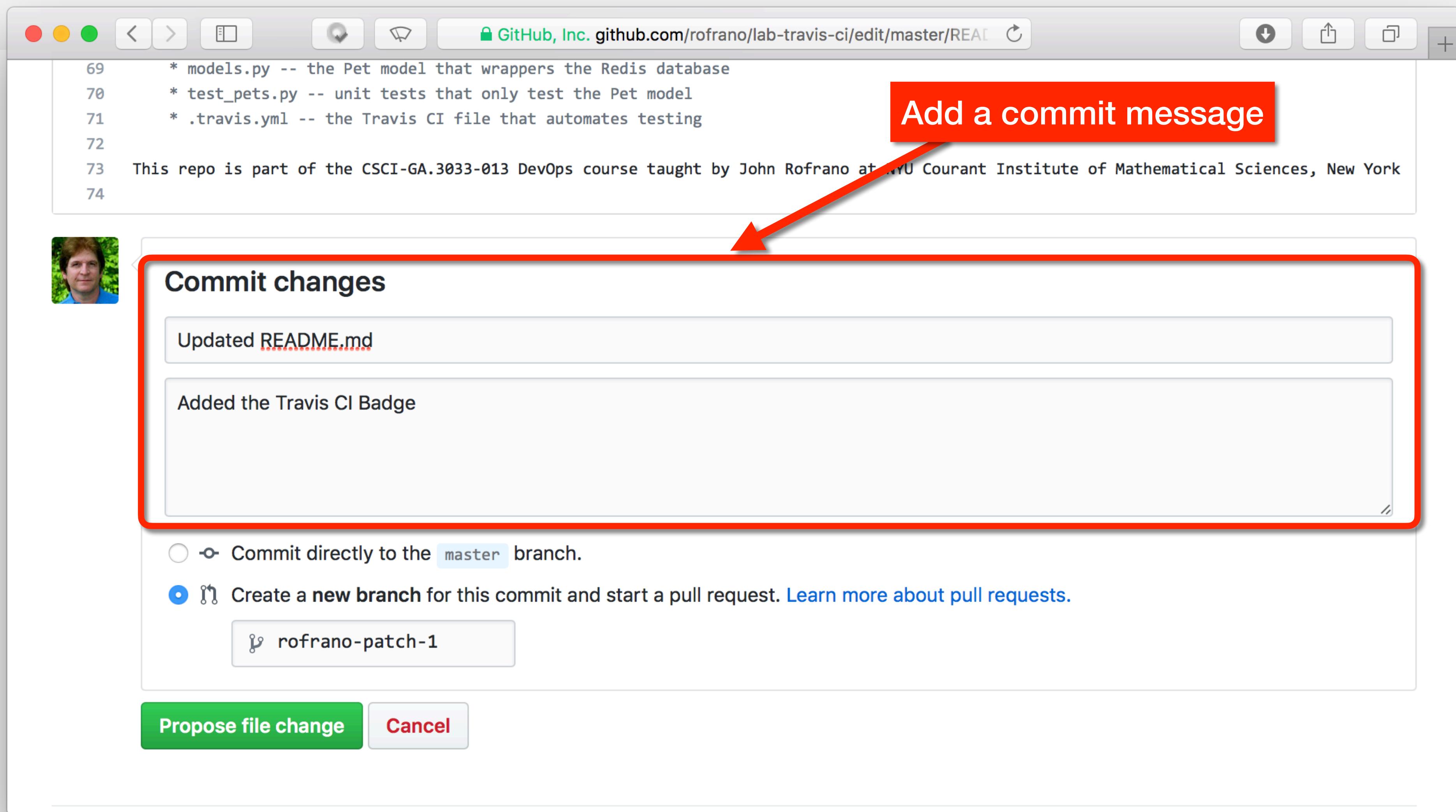
```
1 # nyu-travis-ci
2
3 [![Build Status](https://travis-ci.org/rofrano/lab-travis-ci.svg?branch=master)](https://travis-ci.org/rofrano/lab-travis-ci)
4 [![Codecov](https://img.shields.io/codecov/c/github/nyu-devops/lab-travis-ci.svg)]()
5 [![License](https://img.shields.io/badge/License-Apache%202.0-blue.svg)](https://opensource.org/licenses/Apache-2.0)
6
7 This is for NYU DevOps lab on using Travis CI with Redis for Continuous Integration
8
9 ## Introduction
10
11 This lab contains a .travis.yml file that shows you how to run your tests and request that a Redis service be attached while running them. It also uses Code Coverage to determine how complete your testing is.
12
13 ## Setup
```

A red arrow points downwards from the bottom right towards the bottom of the code editor, indicating where to scroll. A red box with the text "Scroll Down" is positioned over the scroll bar area.

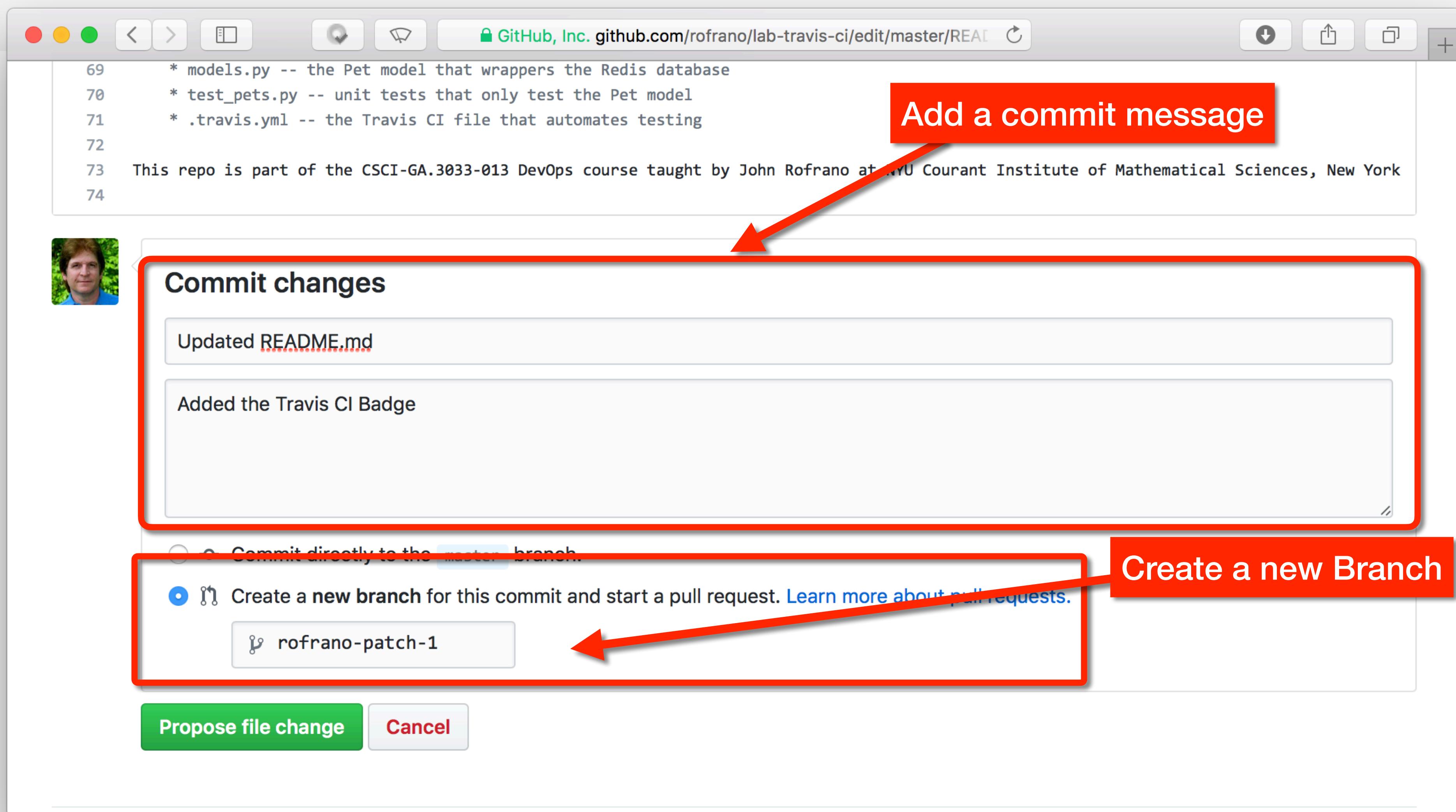
Commit the Change



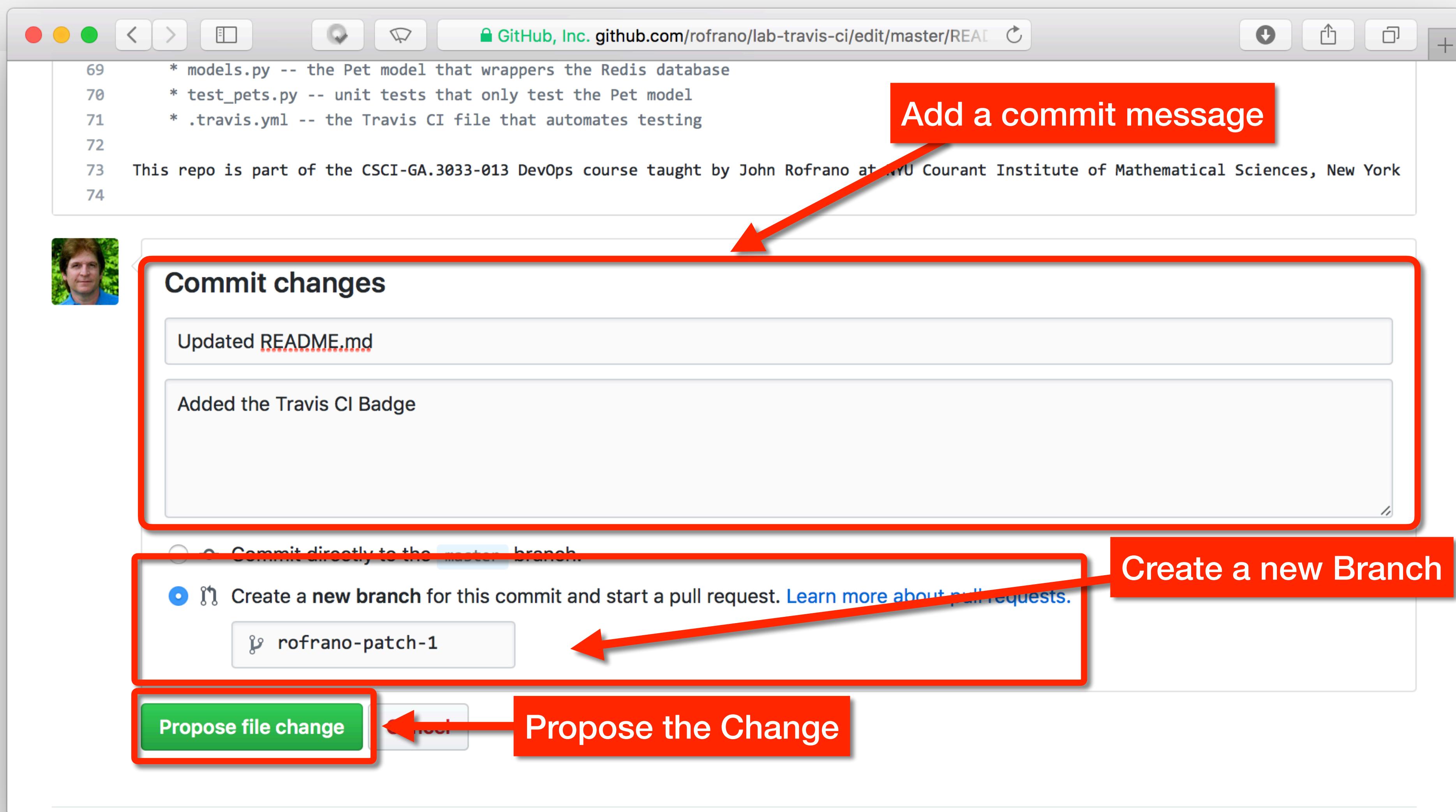
Commit the Change



Commit the Change



Commit the Change



Create Pull Request

The screenshot shows a GitHub pull request creation interface. At the top, the URL is github.com/rofrano/lab-travis-ci/compare/master...rofrano-patch-1. The main title is "Open a pull request". A message below it says, "The change you just made was written to a new branch named rofrano-patch-1. Create a pull request below to propose these changes." Below this, there are dropdown menus for "base: master" and "compare: rofrano-patch-1". A green checkmark indicates "Able to merge. These branches can be automatically merged." On the left, there's a user profile picture and a preview of the "Updated README.md" file, which contains the text "Added the Travis CI Badge". There are "Write" and "Preview" tabs, along with a rich text editor toolbar. On the right, there are sections for "Reviewers" (No reviews—request one), "Assignees" (No one—assign yourself), "Labels" (None yet), "Projects" (None yet), and "Milestone" (No milestone). At the bottom, there's a note about Markdown support and a large green "Create pull request" button.

base: master ... compare: rofrano-patch-1 ✓ Able to merge. These branches can be automatically merged.

Updated README.md

Write Preview

Added the Travis CI Badge

Attach files by dragging & dropping or [selecting them](#).

M Styling with Markdown is supported

Create pull request

Reviewers

No reviews—request one

Assignees

No one—assign yourself

Labels

None yet

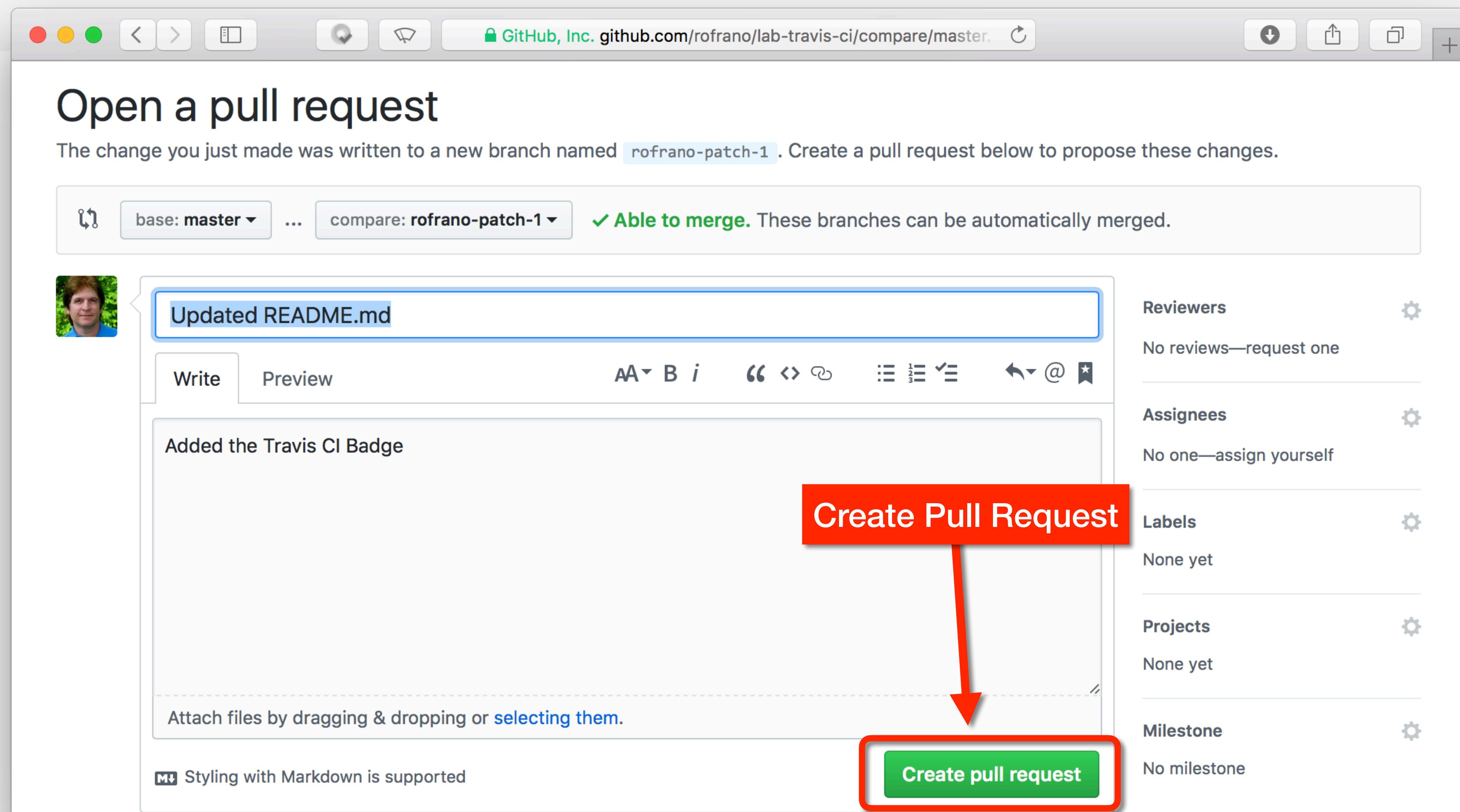
Projects

None yet

Milestone

No milestone

Create Pull Request



Tests are Running

The screenshot shows a GitHub pull request page for a repository named `rofrano/lab-travis-ci`. The pull request has 1 commit and 1 file changed. A comment from `rofrano` says "Added the Travis CI Badge". A red callout box with the text "The tests are running on Travis CI" points to the Travis CI status section. This section shows a yellow icon with a gear and the text "Some checks haven't completed yet" and "2 pending checks". An arrow from the callout points to this section. The Travis CI status also lists two pending checks: "continuous-integration/travis-ci/pr" and "continuous-integration/travis-ci/push", both of which are described as "The Travis CI build is in progress". Below this, a green checkmark icon indicates "This branch has no conflicts with the base branch" and "Merging can be performed automatically". On the right side of the page, there are sections for "Reviewers" (No reviews—request one), "Assignees" (No one—assign yourself), "Labels" (None yet), "Projects" (None yet), "Milestone" (No milestone), and "Notifications" (Unsubscribe). The GitHub URL in the address bar is `github.com/rofrano/lab-travis-ci/pull/1`.

Tests are Still Running

The screenshot shows a GitHub pull request page for a repository named `rofrano/lab-travis-ci`. The pull request has 1 commit and 1 file changed. A Travis CI badge indicates +3 green and -1 red builds.

A red callout box highlights the Travis CI status section, which shows:

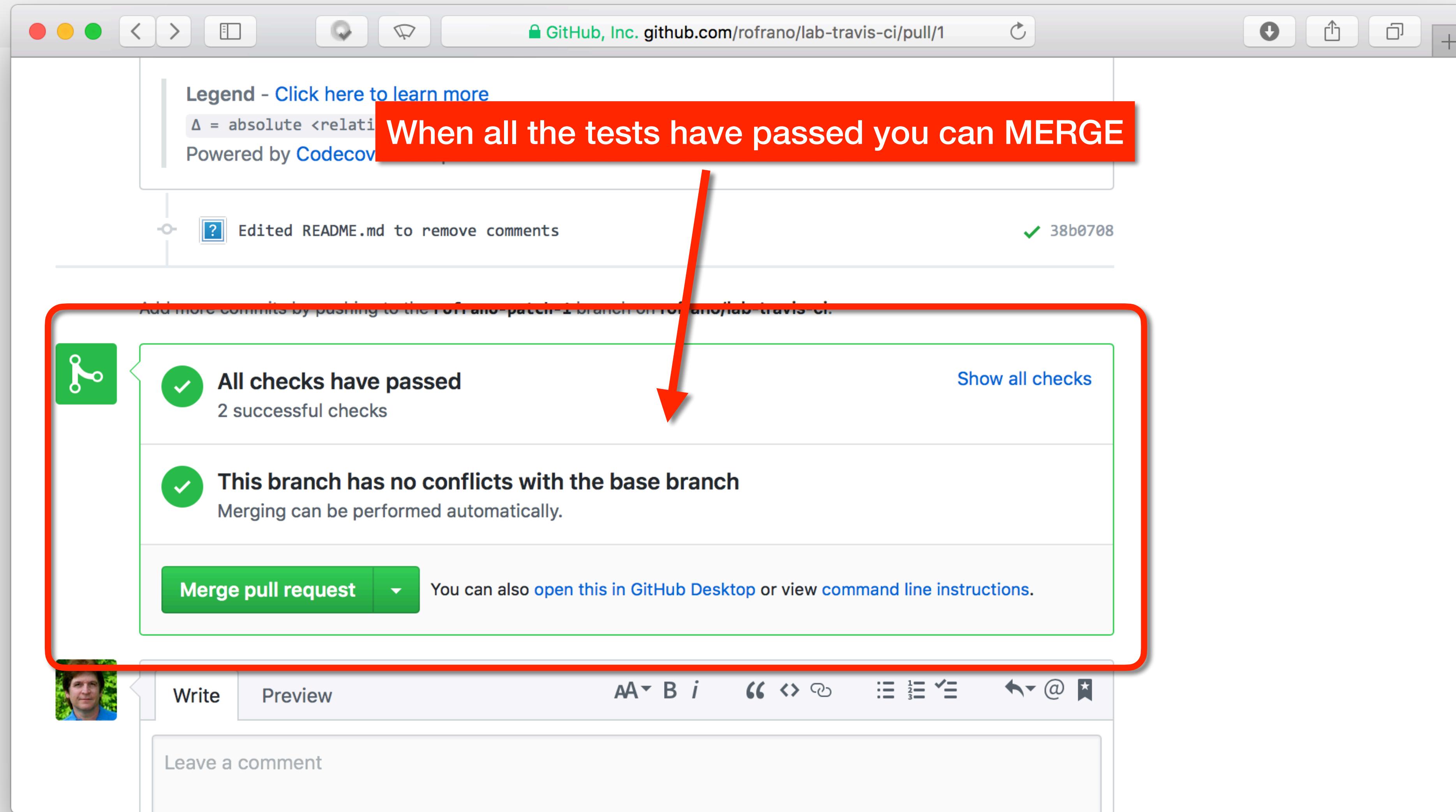
- Some checks haven't completed yet**: 1 pending and 1 successful checks
- continuous-integration/travis-ci/pr** — The Travis CI build is in progress
- continuous-integration/travis-ci/push** — The Travis CI build passed

A large red arrow points from the text "Wait until all the tests have completed" to the "continuous-integration/travis-ci/pr" status line.

On the right side of the page, there are sections for Reviewers, Assignees, Labels, Projects, Milestone, and Notifications. The Notifications section includes an "Unsubscribe" button.

At the bottom, there are buttons for "Merge pull request" and "Cancel". A note at the bottom says "You can also open this in GitHub Desktop or view command line instructions".

Green means Go



.travis.yml

```
language: python
python:
  - "2.7"

# command to install dependencies
install: "pip install -r requirements.txt"

# command to run tests
before_script: redis-cli ping

script:
  - nosetests --with-coverage --cover-erase

#after_success:
#  - codecov

services:
  - redis-server
```

.travis.yml

```
language: python
python:
  - "2.7"

# command to install dependencies
install: "pip install -r requirements.txt"

# command to run tests
before_script: redis-cli ping

script:
  - nosetests --with-coverage --cover-erase

#after_success:
#  - codecov

services:
  - redis-server
```

Not needed if you created a setup.cfg file like I did in this repo

Yellow while Building

The screenshot shows the Travis CI web interface for the repository `rofrano / nyu-lab-travis-ci`. The build status is listed as "build unknown". The current build is for branch `master`, which has been updated with a new Readme. The build was started recently and has an elapsed time of 16 seconds. The commit hash is `296fd7c`, and the comparison range is `b1660fb..296fd7c`. The author of the commit is John J. Rofrano. The build log is partially visible at the bottom, showing worker information, build system information, and some command-line output related to DEBIAN_FRONTEND and git checkout.

Travis CI Blog Status Help John Rofrano

Search all repositories

My Repositories +

- rofrano/nyu-lab-travis-ci # 1
Duration: 16 sec
Finished: -
- rofrano/nyu-lab-bdd-tdd # 8
Duration: 39 sec
Finished: a day ago
- rofrano/nyu-lab-restful-flask # 7
Duration: 22 sec
Finished: 3 days ago
- rofrano/nyu-lab-docker # 6
Duration: 28 sec

rofrano / nyu-lab-travis-ci build unknown

Current Branches Build History Pull Requests More options

master Updated Readme #1 started Cancel build

Commit 296fd7c Elapsed time 16 sec

Compare b1660fb..296fd7c -

John J. Rofrano authored and committed

Job log View config

Remove log Raw log

Worker information Build system information

\$ export DEBIAN_FRONTEND=noninteractive fix.CVE-2015-7547

\$ git clone --depth=50 --branch=master https://github.com/rofrano/nyu-lab- git.checkout 0.72s

Green When Successful

The screenshot shows the Travis CI web interface. At the top, there's a navigation bar with icons for file operations, a search bar, and the URL "Travis CI GmbH travis-ci.org/rofrano/nyu-lab-travis-ci". On the right of the nav bar are download, upload, and other buttons. Below the nav bar, the user "John Rofrano" is logged in, shown with a profile picture.

The main area displays the repository "rofrano / nyu-lab-travis-ci". A green "build passing" badge is prominently displayed. Below it, tabs for "Current", "Branches", "Build History", and "Pull Requests" are visible, with "Current" being the active tab.

The "Current" tab shows a single build entry for branch "master":

- Build #1**: Status is "passed".
- Duration:** 27 sec.
- Finished:** about a minute ago.
- Commit:** Commit 296fd7c
- Compare:** Compare b1660fb..296fd7c
- Author:** John J. Rofrano authored and committed
- Elapsed time:** 27 sec.
- Time:** about a minute ago.

Below the build details are links for "Job log" and "View config". The "Job log" section shows a dark log terminal window with some yellow text at the top:

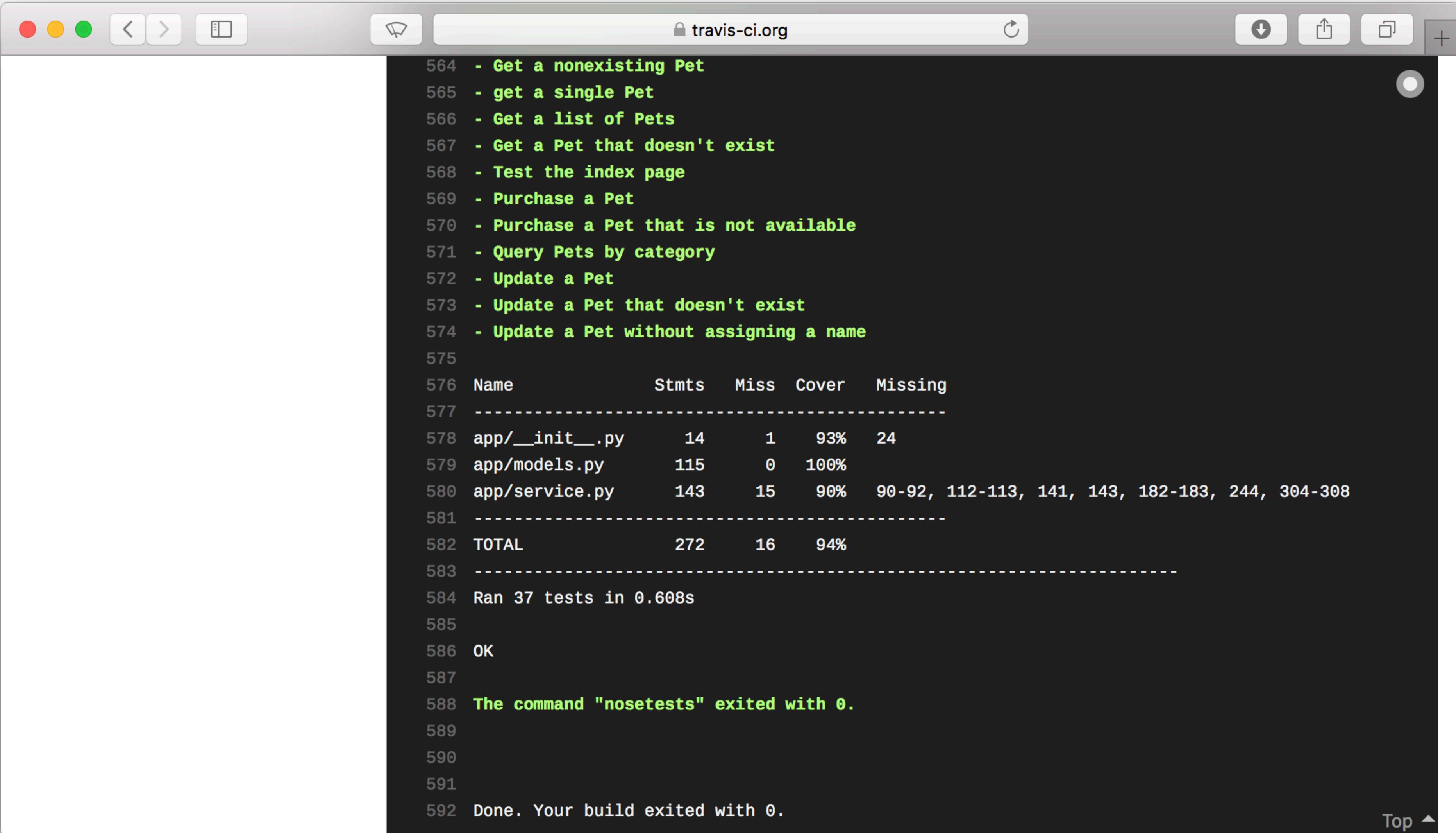
- ▶ 1 **Worker information** worker_info
- ▶ 6 **Build system information** system_info
- ▶ 91
- ▶ 92 \$ export DEBIAN_FRONTEND=noninteractive fix.CVE-2015-7547
- ▶ 98 \$ git clone --depth=50 --branch=master https://github.com/rofrano/nyu-lab- git.checkout 0.72s

At the bottom of the log window are buttons for "Remove log" and "Raw log".

On the left side, there's a sidebar titled "My Repositories" with a "+" button. It lists four repositories:

- rofrano/nyu-lab-travis-ci** # 1: Duration: 27 sec, Finished: about a minute ago.
- rofrano/nyu-lab-bdd-tdd** # 8: Duration: 39 sec, Finished: a day ago.
- rofrano/nyu-lab-restful-flask** # 7: Duration: 22 sec, Finished: 3 days ago.
- rofrano/nyu-lab-docker** # 6: Duration: 28 sec.

Scroll Down to see the Log

A screenshot of a web browser window displaying a Travis CI build log. The window has a light gray header bar with standard OS X-style buttons (red, yellow, green) and a search bar containing 'travis-ci.org'. The main content area is a dark gray terminal window showing the build process. The log output is as follows:

```
564 - Get a nonexisting Pet
565 - get a single Pet
566 - Get a list of Pets
567 - Get a Pet that doesn't exist
568 - Test the index page
569 - Purchase a Pet
570 - Purchase a Pet that is not available
571 - Query Pets by category
572 - Update a Pet
573 - Update a Pet that doesn't exist
574 - Update a Pet without assigning a name
575
576     Name          Stmts   Miss  Cover    Missing
577 -----
578 app/__init__.py      14      1  93%    24
579 app/models.py       115      0 100%
580 app/service.py      143     15  90%  90-92, 112-113, 141, 143, 182-183, 244, 304-308
581 -----
582 TOTAL                  272     16  94%
583 -----
584 Ran 37 tests in 0.608s
585
586 OK
587
588 The command "nosetests" exited with 0.
589
590
591
592 Done. Your build exited with 0.
```

A small 'Top' button with an upward arrow is located in the bottom right corner of the terminal window.

Display your Badges

The screenshot shows a GitHub repository page for `github.com/rofrano/lab-travis-ci`. The page displays two files: `server.py` and `setup.cfg`, both updated 2 days ago. Below the files is a `README.md` file. A red callout box with white text is overlaid on the page, pointing to the Travis CI status badge. The badge indicates a passing build. The callout text reads:

Displays your build test status
Note: This lets developers know
that the build is good to use

A red arrow points from the text in the callout box to the "passing" badge in the Travis CI status bar.

This is for NYU DevOps lab on using Travis CI with Redis for Continuous Integration

Introduction

This lab contains a `.travis.yml` file that shows you how to run your tests and request that a Redis service be attached while running them. It also uses Code Coverage to determine how complete your testing is.

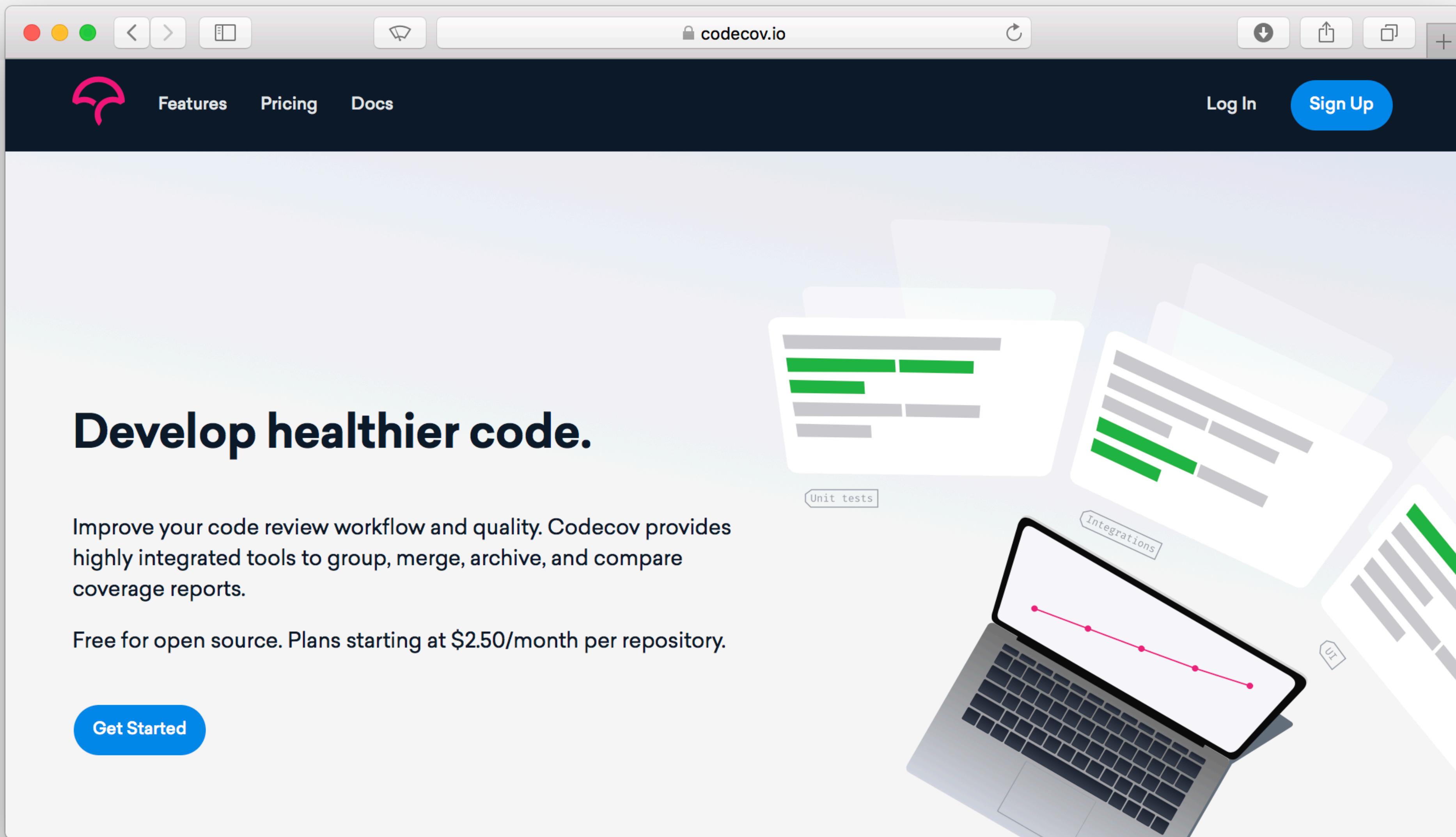
Setup

To complete this lab you will need a mirror of this repo. You cannot just clone the repo because you need to make a change in order to trigger Travis CI. You also don't want to Fork it because you want to test Pull Requests and the Pull

What About Code Coverage?



codecov.io



The screenshot shows the homepage of codecov.io. At the top, there is a navigation bar with a logo, 'Features', 'Pricing', 'Docs', 'Log In', and a 'Sign Up' button. Below the navigation bar, the main headline reads 'Develop healthier code.' followed by a subtext: 'Improve your code review workflow and quality. Codecov provides highly integrated tools to group, merge, archive, and compare coverage reports.' Below this text is a 'Get Started' button. To the right of the text, there is a graphic featuring a laptop and several overlapping cards representing coverage reports for 'Unit tests', 'Integrations', and 'UI'. The laptop screen shows a pink line graph.

codecov.io

Features Pricing Docs Log In Sign Up

Develop healthier code.

Improve your code review workflow and quality. Codecov provides highly integrated tools to group, merge, archive, and compare coverage reports.

Free for open source. Plans starting at \$2.50/month per repository.

Get Started

Unit tests

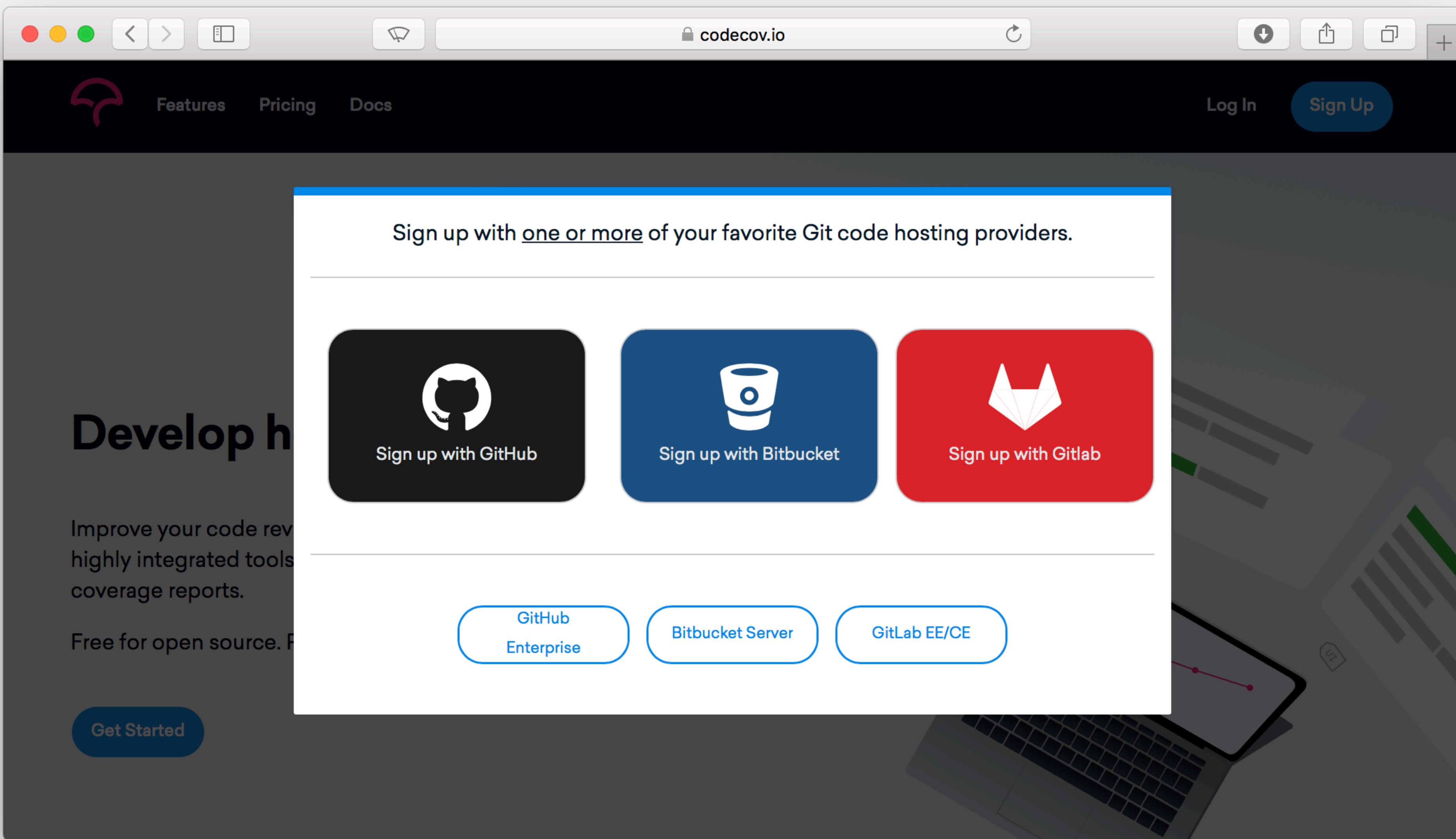
Integrations

UI

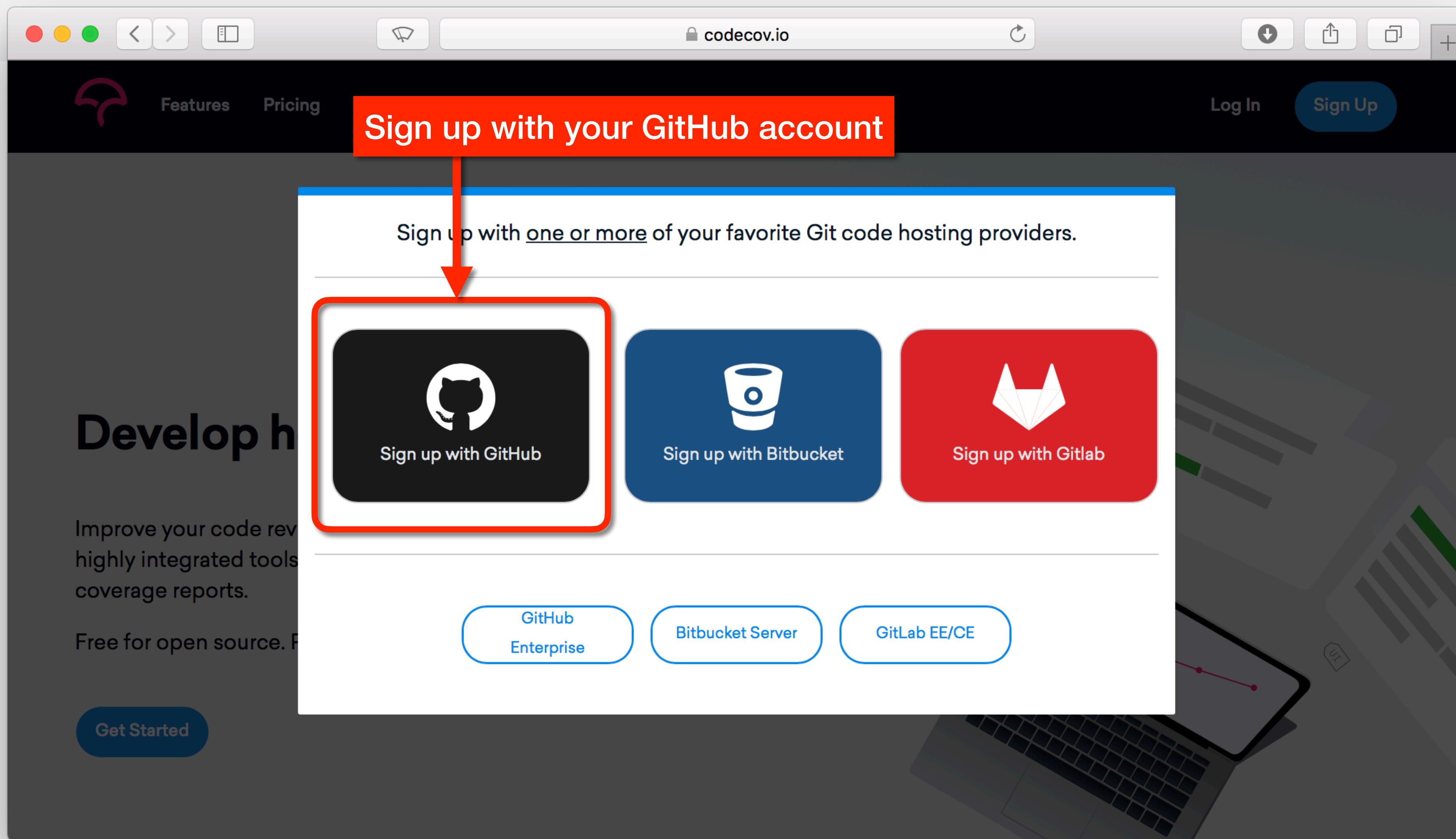
codecov.io

The screenshot shows the homepage of codecov.io. At the top, there is a navigation bar with a logo, 'Features', 'Pricing', and 'Docs' links. To the right of the navigation bar is a large orange button labeled 'Select Sign up'. An orange arrow points from this button to a blue 'Sign Up' button, which is highlighted with a red rounded rectangle. Below the navigation bar, the main heading 'Develop healthier code.' is displayed in a large, bold, dark font. To the right of the heading, there is a graphic featuring a laptop and several overlapping cards showing green and grey bars, with labels like 'Unit tests', 'Integrations', and 'UI'. Below the heading, there is a paragraph of text: 'Improve your code review workflow and quality. Codecov provides highly integrated tools to group, merge, archive, and compare coverage reports.' Underneath this paragraph is another text block: 'Free for open source. Plans starting at \$2.50/month per repository.' At the bottom left, there is a blue 'Get Started' button.

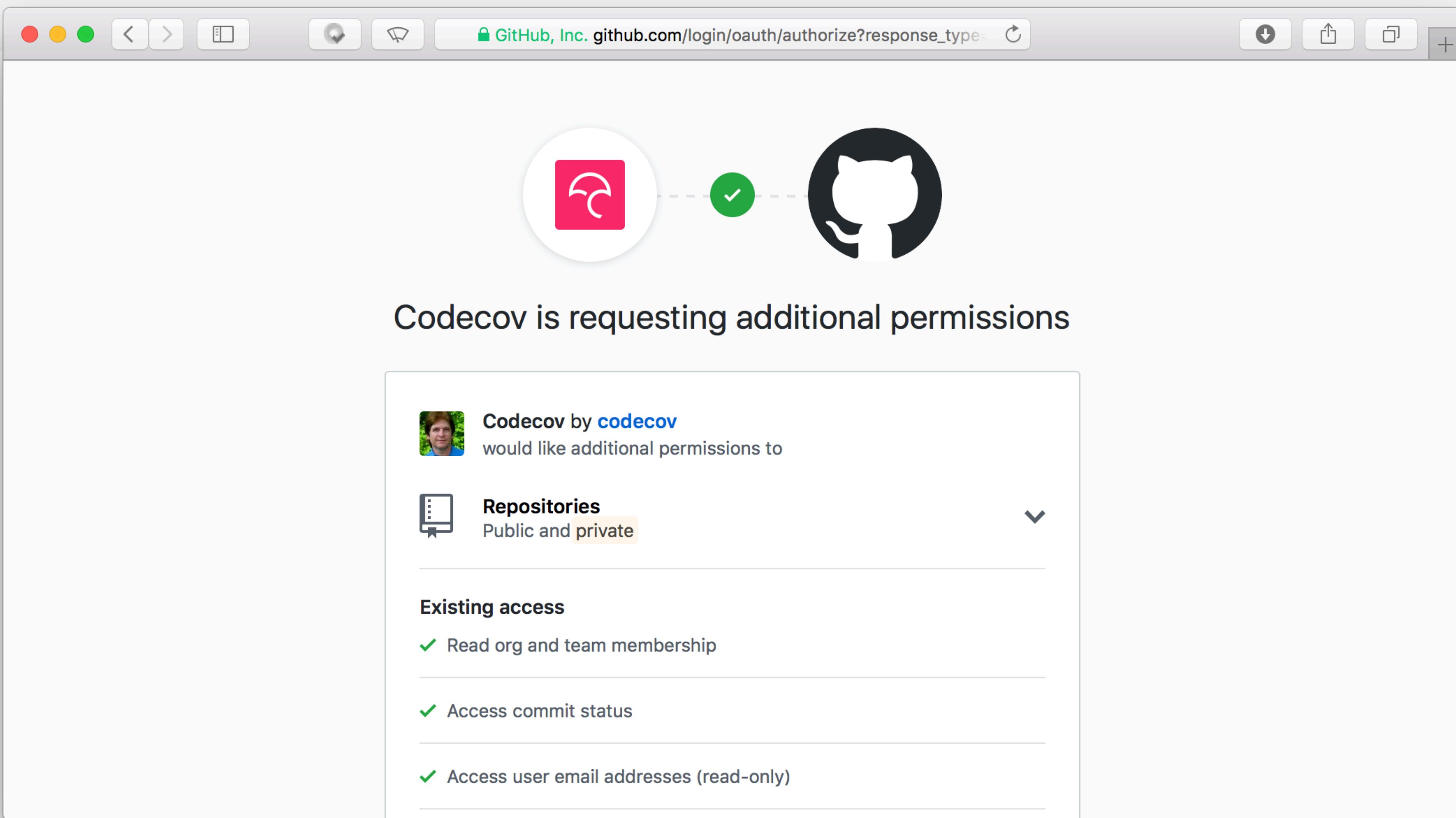
Sign up with GitHub



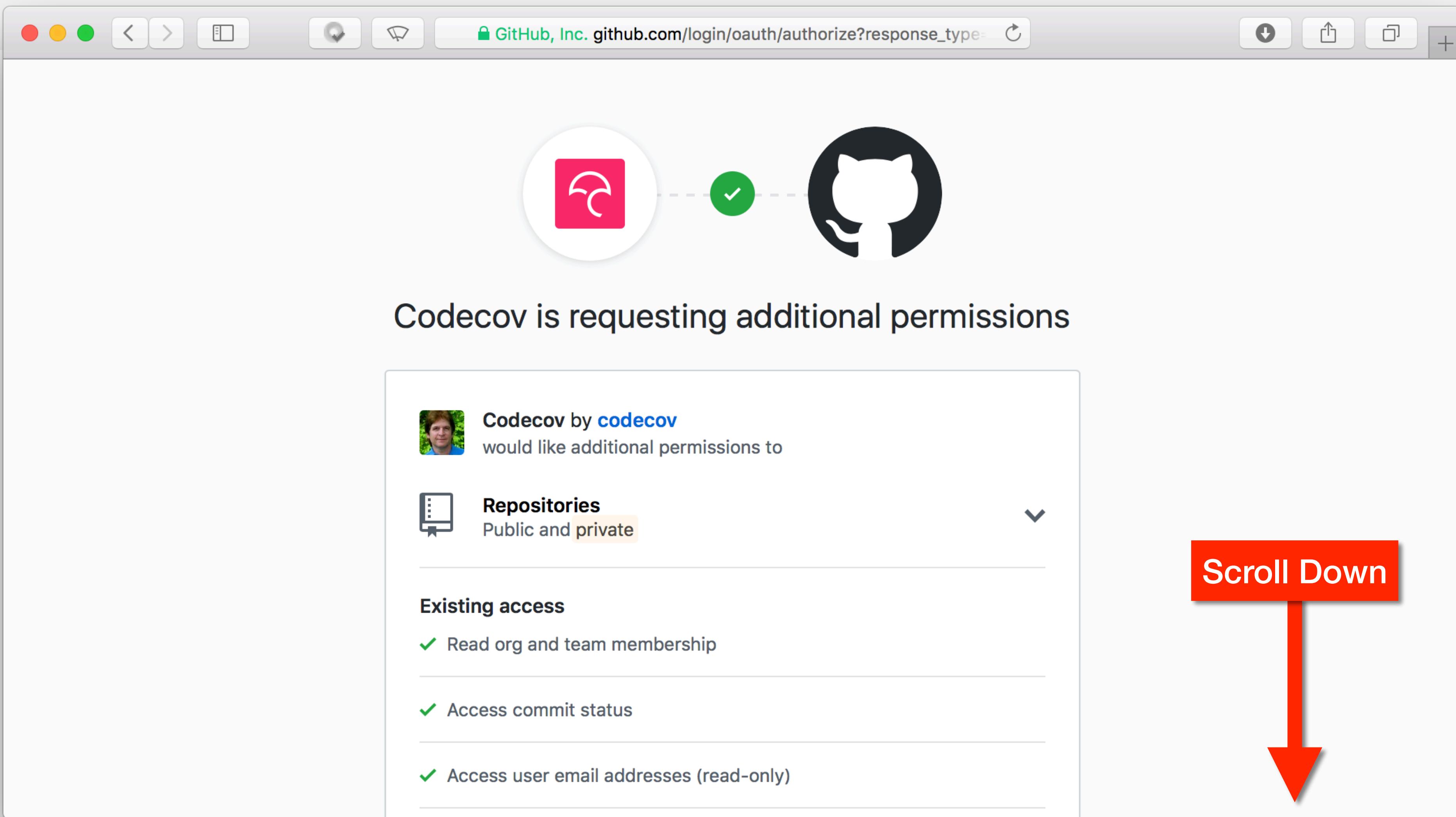
Sign up with GitHub



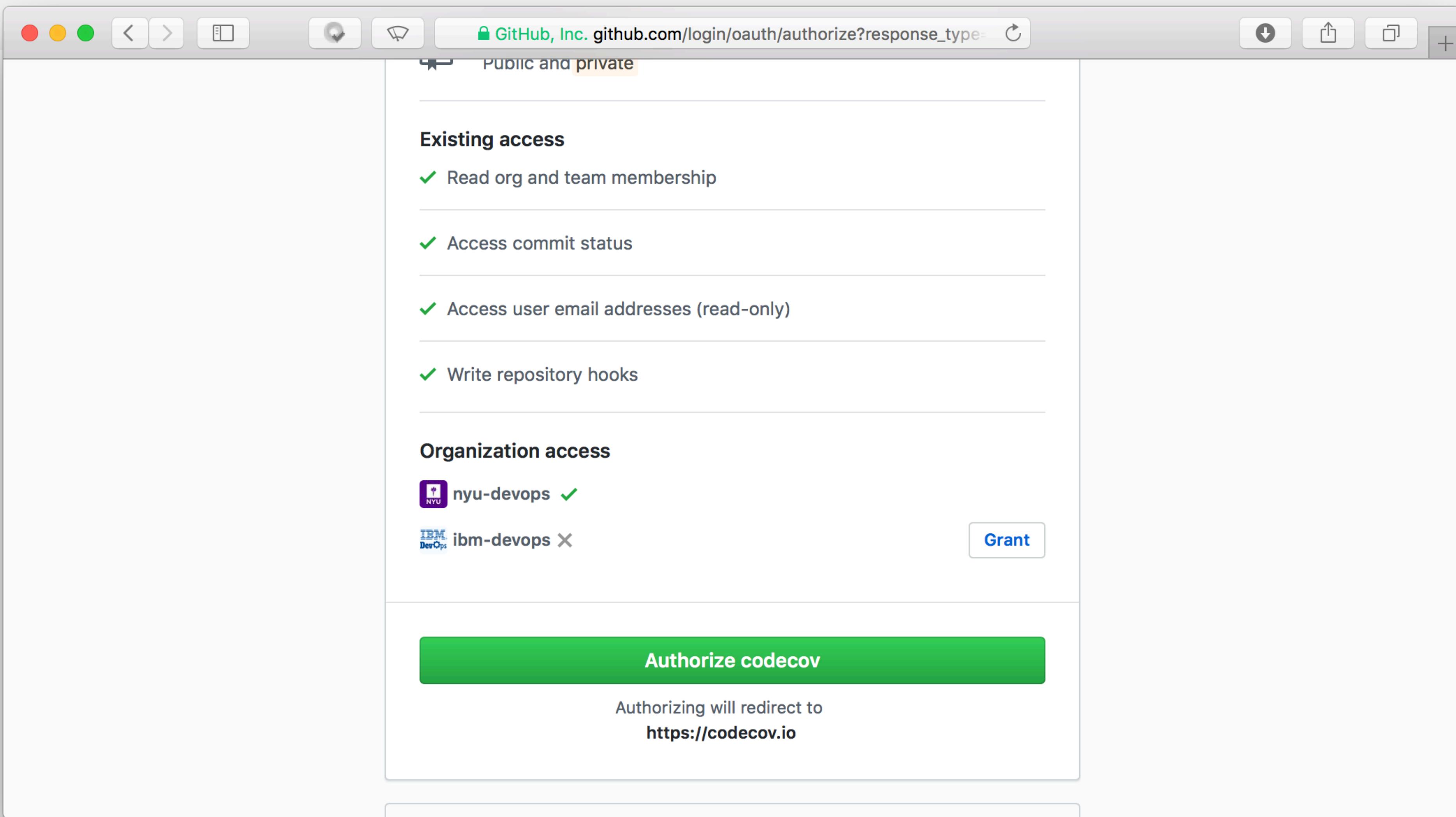
Grant Permissions



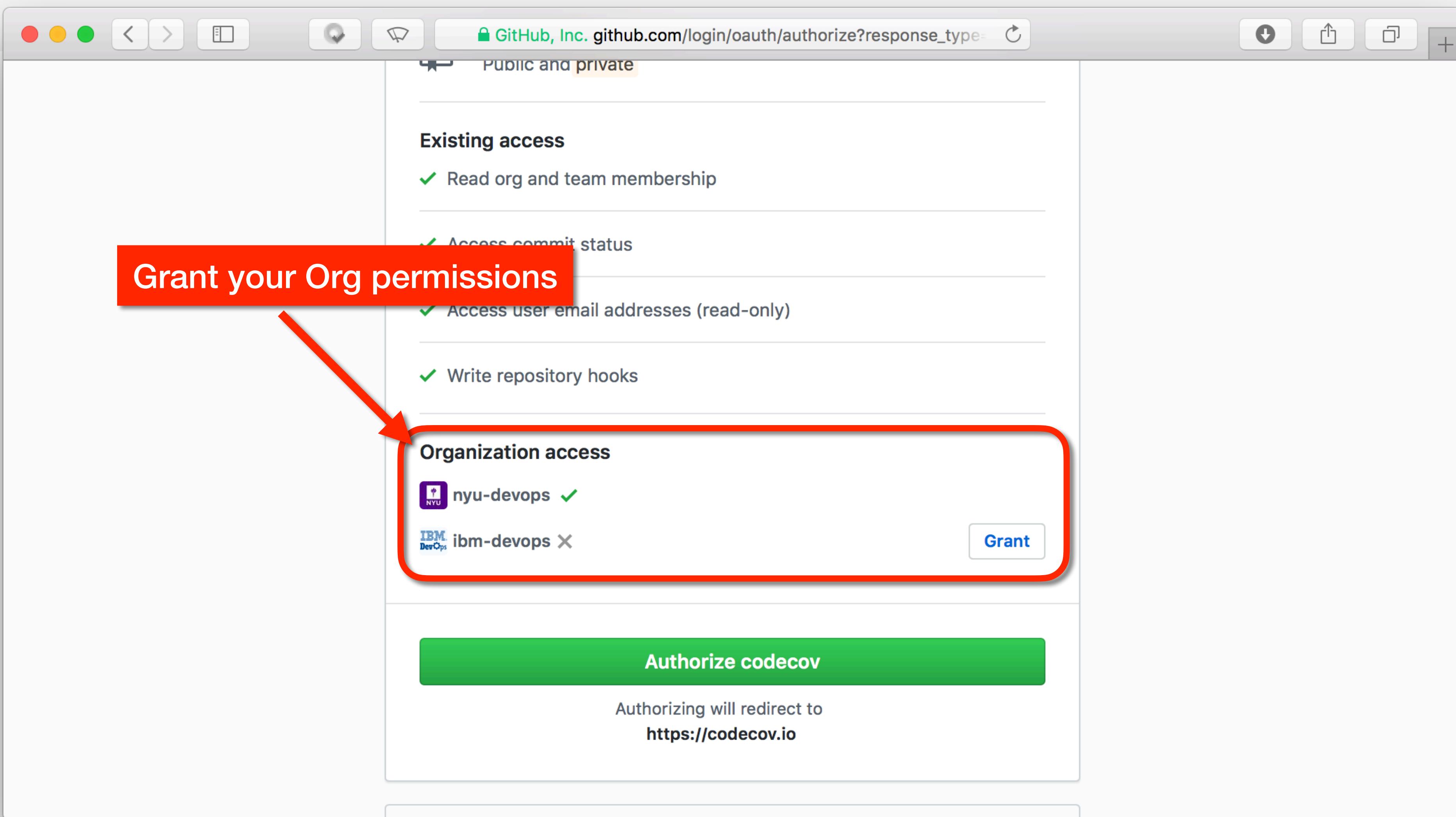
Grant Permissions



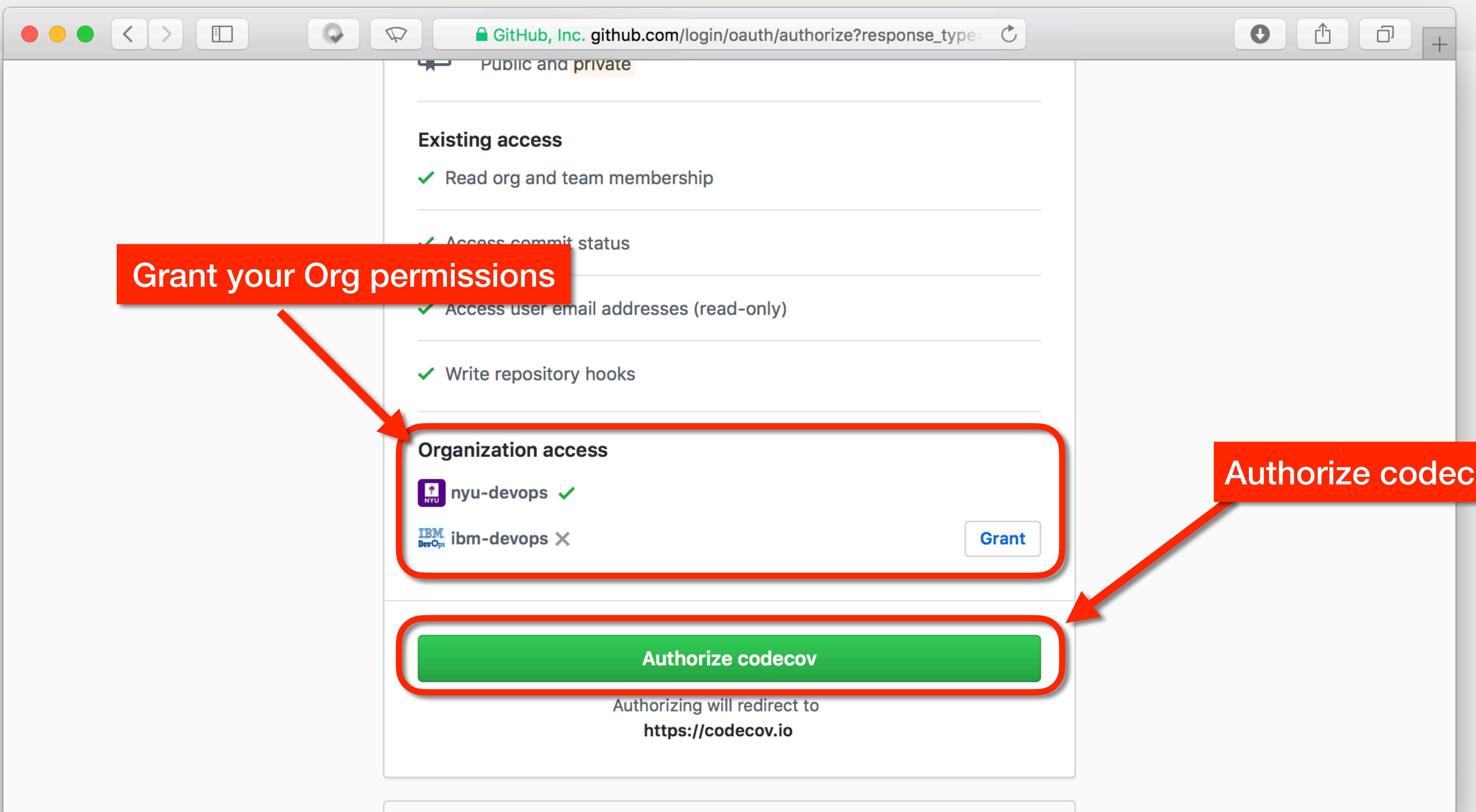
Authorize



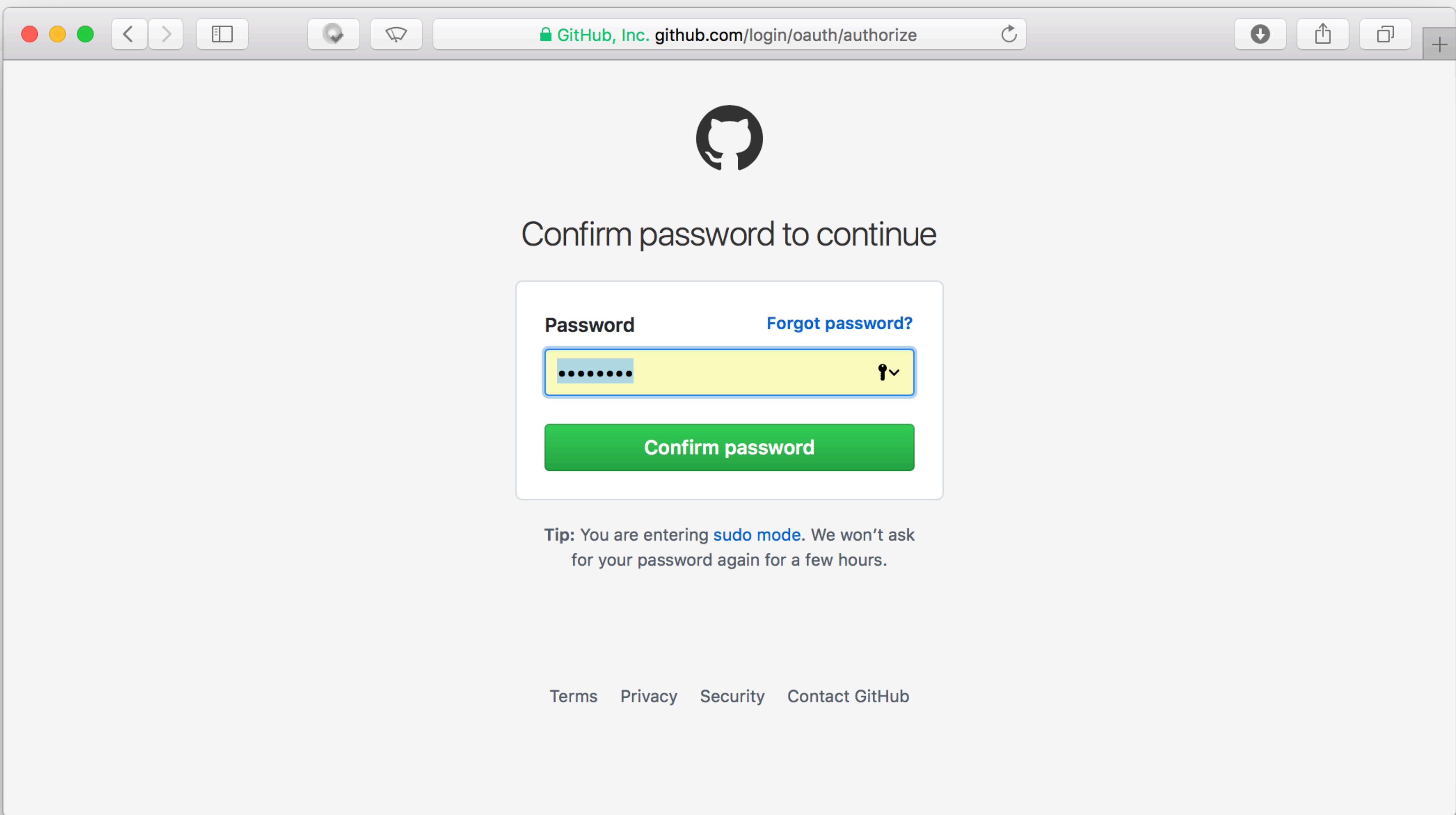
Authorize



Authorize



Confirm GitHub Password



Codecov

The screenshot shows the Codecov web interface. At the top, there's a navigation bar with icons for GitHub, Bitbucket, Travis CI, CircleCI, and other services. Below the bar, a banner features the NYU logo and the text "nyu-devops". Underneath, three repository cards are listed: "lab-flask-bdd", "lab-flask-swagger", and "lab-travis-ci". A summary at the bottom of this section indicates "3 Repositories" and "1 Member". To the right, a user profile for "rofrano" is shown, featuring a photo of a man and the text "No repositories covered yet." A prominent pink button labeled "Add a repository" is located below his profile. At the bottom of the page, there are links for "Sync your team list" and "Application Settings in GitHub". A circular icon with a smiley face is positioned in the bottom right corner.

Codecov

Secure | https://codecov.io/gh

Docs Support

nyu-devops

lab-flask-bdd

lab-flask-swagger

lab-travis-ci

3 Repositories 1 Member

rofrano

No repositories covered yet.

Add a repository

Don't see your team above? [Sync your team list](#).

Still nothing? Check your [Application Settings in GitHub](#). Click "Grant Access" in your team list.

Codecov

The screenshot shows the Codecov web interface. At the top, there's a navigation bar with icons for GitHub, Bitbucket, and Travis CI, along with links for 'Docs' and 'Support'. A user profile picture for 'rofrano' is visible. The main area displays two teams: 'nyu-devops' (with 3 repositories and 1 member) and 'rofrano' (which has no repositories covered yet). A prominent red button labeled 'Add a Repository' is located at the bottom right of the 'rofrano' section, with a red arrow pointing towards it. Below this button, another red box highlights the 'Add a repository' link. At the bottom of the page, there are links for 'Sync your team list.' and 'Application Settings in GitHub'. A pink circular icon with a white smiley face is also present.

Secure | https://codecov.io/gh

Docs Support

nyu-devops

lab-flask-bdd

lab-flask-swagger

lab-travis-ci

3 Repositories 1 Member

rofrano

No repositories covered yet.

Add a Repository

Add a repository

Don't see your team above? [Sync your team list.](#)

Still nothing? Check your [Application Settings in GitHub](#). Click "Grant Access" in your team list.

lab-travis-ci

The screenshot shows a web browser window with the title bar "Team · rofrano". The address bar displays a secure connection to "https://codecov.io/gh/rofrano/+". The main content area is titled "Choose a new repository below" and lists several GitHub repositories:

- nyu-lab-bdd-tdd**: Latest commit 10 months ago. Coverage is 97.53%.
- bluemix-starter-code**
- catalog-api-toolchain-demo-1487266622212**
- hello-containers-20170717142629800**
- lab-bluemix-cf**
- lab-deploy-test**
- lab-docker**
- lab-pipeline-jr**
- lab-travis-ci**

A pink speech bubble icon is visible in the bottom right corner of the page.

lab-travis-ci

The screenshot shows a web browser window titled "Team · rofrano". The URL in the address bar is <https://codecov.io/gh/rofrano/>. The main content is a list of repositories under the heading "Choose a new repository below". The repositories listed are:

- nyu-lab-bdd-tdd (Latest commit 10 months ago)
- bluemix-starter-code
- catalog-api-toolchain-demo-1487266622212
- hello-containers-20170717142629800
- lab-bluemix-cf
- lab-deploy-test
- lab-docker
- lab-pipeline-jr
- lab-travis-ci

A red callout box with the text "Select the Repository you just Forked" is positioned over the "lab-docker" and "lab-travis-ci" entries. A red arrow points from this callout to the "lab-travis-ci" entry, which is also highlighted with a red border.

Token for Bluemix Use Only (not needed for now)

The screenshot shows a GitHub repository page for 'gh/rofrano/lab-travis-ci'. The browser title bar reads 'codecov.io/gh/rofrano/lab-travis-ci'. The page features a navigation bar with links for Overview, Commits, Branches, Pulls, Compare, and Settings. The 'Overview' tab is active. A large, friendly green cartoon character with glasses and a red umbrella is centered on the page. Below the character, the text 'Hey! Let's get your project covered.' is displayed. A note below states 'No repository activation required. Simply upload a report and the project activates automatically.' At the bottom, there is a section titled 'STEP 1 - COPY TOKEN' with a 'Copy' button next to a token value: '2482a11a-75db-41aa-a5f5-27426110be8e'. A 'Upload Token' input field is also present.

Token for Bluemix Use Only (not needed for now)

The screenshot shows a web browser window for the URL `codecov.io/gh/rofrano/lab-travis-ci`. The page displays a green cartoon character holding a pink umbrella. A red callout box contains the text: "This token is NOT needed for Travis CI but it is needed for Bluemix for uploading results". Below the character, there is a message: "Hey! Let's get your project covered." and a note: "No repository activation required. Simply upload a report and the project activates automatically". At the bottom, there is a section titled "STEP 1 - COPY TOKEN" with a "Copy" button next to a token value. A red arrow points from the text in the callout box to the "Copy" button.

This token is NOT needed for Travis CI but it is needed for Bluemix for uploading results

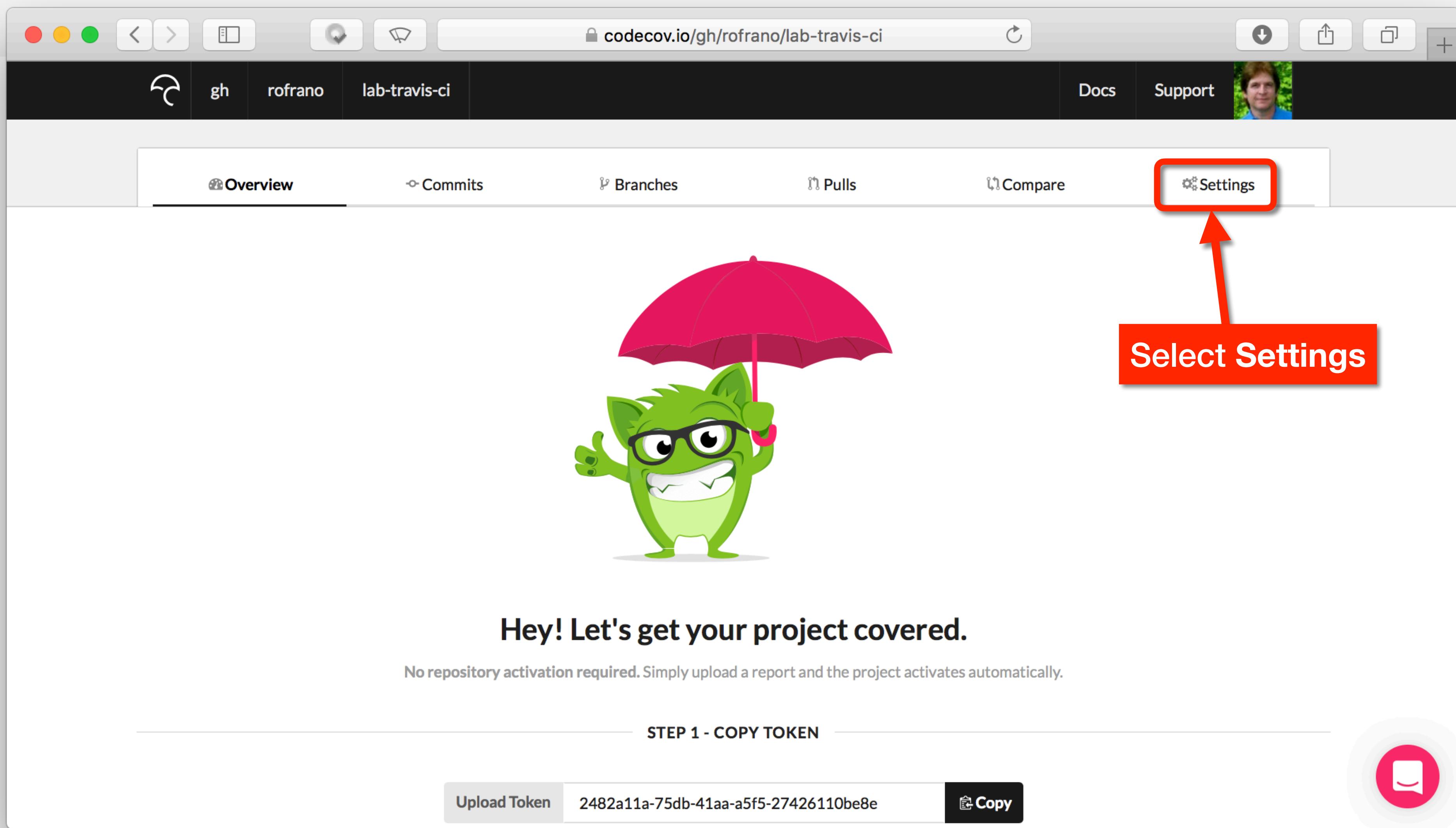
Hey! Let's get your project covered.

No repository activation required. Simply upload a report and the project activates automatically.

STEP 1 - COPY TOKEN

Upload Token 2482a11a-75db-41aa-a5f5-27426110be8e Copy

Generate A Badge forCodecov



A screenshot of a web browser displaying the codecov.io/gh/rofrano/lab-travis-ci page. The browser interface includes standard OS X window controls (red, yellow, green buttons) and a toolbar with icons for refresh, search, and file operations. The address bar shows the URL. The main content area has a dark header with the GitHub logo, the repository name "gh rofrano lab-travis-ci", and links for "Docs" and "Support". Below the header is a navigation bar with tabs: "Overview" (which is active), "Commits", "Branches", "Pulls", "Compare", and "Settings". A red box and an arrow point to the "Settings" tab. The central part of the page features a cartoon character of a green leafy creature with glasses holding a pink umbrella. Below the character is the text "Hey! Let's get your project covered." and a note: "No repository activation required. Simply upload a report and the project activates automatically." At the bottom, there is a section titled "STEP 1 - COPY TOKEN" with a "Upload Token" input field containing the value "2482a11a-75db-41aa-a5f5-27426110be8e", a "Copy" button, and a circular "Share" icon.

Select Settings

Select Badge

The screenshot shows a web browser window with the URL `codecov.io/gh/rofrano/lab-travis-ci/settings`. The page is titled "Settings". The left sidebar has sections: General (selected), Yaml, Badge, and Logs. The main content area has tabs: Overview, Commits, Branches, Pulls, Compare, and Settings (selected). A callout box on the left says "GitHub Integration is installed. However, this repository is not enabled." It lists steps: 1. Click here to your installation listings 2. Find Repository access and add lab-travis-ci to the list. Below it says "May take a couple minutes for our system to get notices of new projects added." Another callout box below says "Repository Upload Token". It states "The token below is used exclusively for uploading coverage reports." and includes a note: "Note: Token not required for public repositories uploading from [Travis](#), [CircleCI](#) or [AppVeyor](#)". A token "2482a11a-75db-41aa-a5f5-27426110be8e" is shown with a "Copy" button. A "Regenerate" button is also present. A pink speech bubble icon is in the bottom right corner.

General

Yaml

Badge

Logs

GitHub Integration is installed. However, this repository is not enabled.

1. Click here to your installation listings
2. Find Repository access and add **lab-travis-ci** to the list.

May take a couple minutes for our system to get notices of new projects added.

Repository Upload Token

The token below is used exclusively for uploading coverage reports.

Note: Token not required for public repositories uploading from [Travis](#), [CircleCI](#) or [AppVeyor](#).

2482a11a-75db-41aa-a5f5-27426110be8e [Copy](#)

[How do I use this token?](#)

Select Badge

The screenshot shows a browser window for the URL `codecov.io/gh/rofrano/lab-travis-ci/settings`. The page is titled "Select Badge". A red arrow points from the text "Select Badge" to the "Badge" button in the sidebar menu. The sidebar also includes options for "General", "Yaml", and "Logs". The main content area displays a message about GitHub integration and provides steps to enable it. Below this is a "Repository Upload Token" section with a token value and a "Copy" button.

Select Badge

General

Yaml

Badge

Logs

GitHub Integration is installed. However, this repository is not enabled.

1. Click here to your installation listings
2. Find Repository access and add lab-travis-ci to the list.

May take a couple minutes for our system to get notices of new projects added.

Repository Upload Token

The token below is used exclusively for uploading coverage reports.

Note: Token not required for public repositories uploading from [Travis](#), [CircleCI](#) or [AppVeyor](#).

2482a11a-75db-41aa-a5f5-27426110be8e [Copy](#)

[How do I use this token?](#)

Copy the Markdown

The screenshot shows a web browser window with the URL `codecov.io/gh/rofrano/lab-travis-ci/settings/badge`. The page is titled "Settings". On the left, there's a sidebar with "General", "Yaml", "Badge" (which is highlighted in blue), and "Logs". The main content area has tabs for "Overview", "Commits", "Branches", "Pulls", "Compare", and "Settings". Under "Settings", there are three sections: "Markdown", "HTML", and "RST", each with a "Copy" button. A large red circle with a white speech bubble icon is overlaid on the bottom right.

General

Yaml

Badge

Logs

Markdown

```
[ ! [codecov](https://codecov.io/gh/rofrano/lab-travis-ci/branch/master/graph/bad
```

Copy

HTML

```
<a href="https://codecov.io/gh/rofrano/lab-travis-ci">
  data:image/s3,anthropic-data-us-east-2/u/marker_images/0000/1010/0001/10100110/sfishman-chandramapper-0319211211/d01adb518774e7de7424d9304ba3dd05.jpg</antml:image>

# Select .travis.yml

The screenshot shows a GitHub repository page for `rofrano / lab-travis-ci`. The `.travis.yml` file is selected in the code editor.

**Repository Summary:**

- 21 commits
- 3 branches
- 0 releases
- 1 contributor
- Apache-2.0 license

**Your recently pushed branches:**

- `rofrano-patch-2` (2 minutes ago) [Compare & pull request](#)

**Branch Selection:** Branch: `rofrano-patch-2` [New pull request](#)

**File Actions:** [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

**Commit History:**

- `rofrano Update README.md` ... Latest commit `418ae61` 2 minutes ago
- `static` updated for xenial64 and latest model 5 months ago
- `tests` updated for xenial64 and latest model 5 months ago
- `.gitignore` updated for xenial64 and latest model 5 months ago
- `.travis.yml` disabled codecov 4 months ago
- `LICENSE` Initial commit a year ago

# Select .travis.yml

The screenshot shows a GitHub repository page for 'rofrano / lab-travis-ci'. The repository has 21 commits, 3 branches, and 1 contributor. A recent commit to the 'rofrano-patch-2' branch is highlighted. The commit history includes several commits related to Travis CI configuration, notably 'Update README.md', 'static', 'tests', '.aitianore', and '.travis.yml'. A red box highlights the '.travis.yml' file, and a red arrow points from it to the text 'Select .travis.yml'.

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

Add topics

21 commits 3 branches 0 releases 1 contributor Apache-2.0

Your recently pushed branches:

rofrano-patch-2 (2 minutes ago) Compare & pull request

Branch: rofrano-patch-2 New pull request Create new file Upload files Find file Clone or download

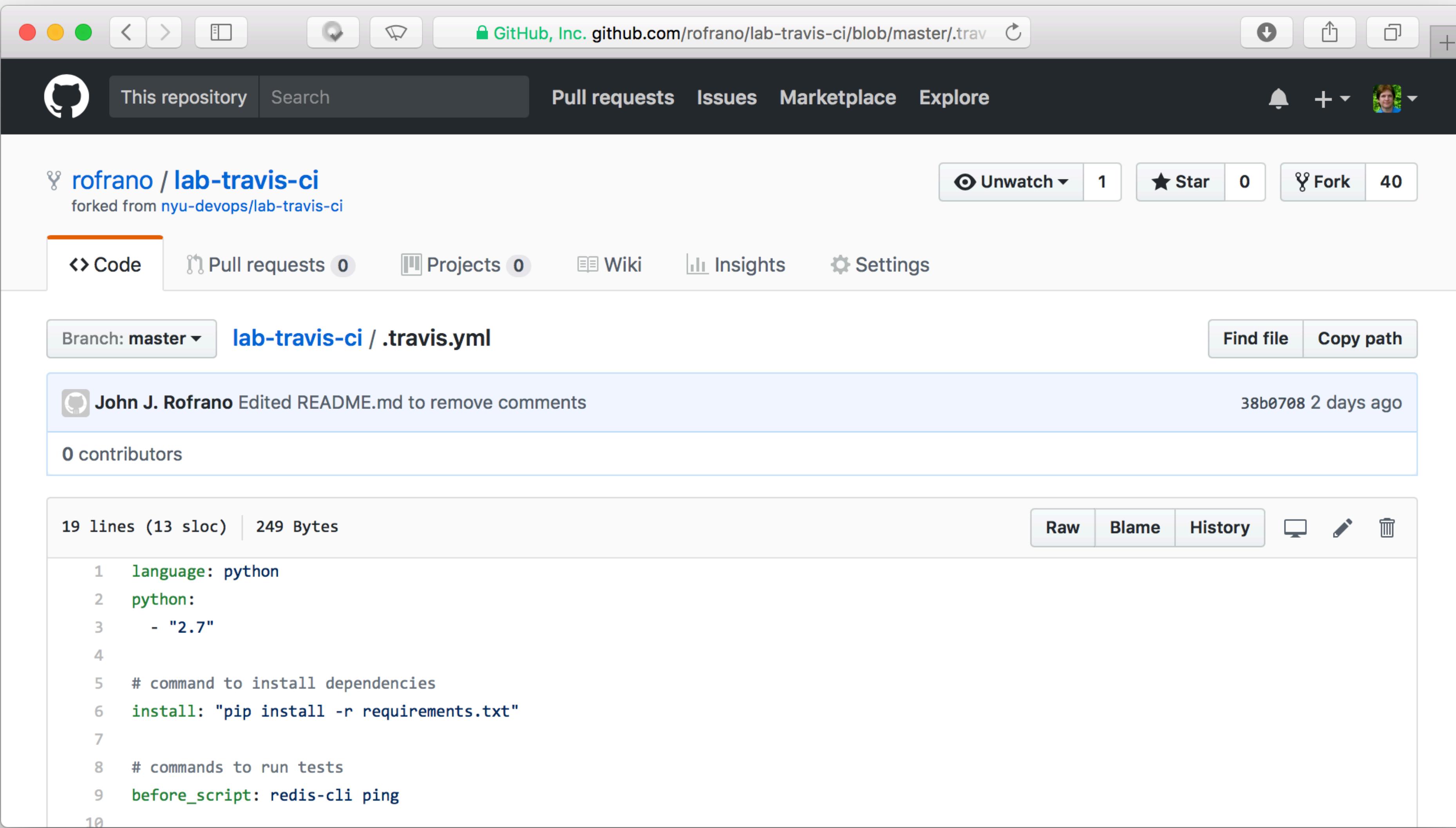
This branch is 1 commit ahead of nyu-devops:master.

rofrano Update README.md static tests .aitianore .travis.yml LICENSE

Select .travis.yml

| File                     | Message                               | Time                                |
|--------------------------|---------------------------------------|-------------------------------------|
| rofrano Update README.md | updated for xenial64 and latest model | Latest commit 418ae61 2 minutes ago |
| static                   | updated for xenial64 and latest model | 5 months ago                        |
| tests                    | updated for xenial64 and latest model | 5 months ago                        |
| .aitianore               | updated for xenial64 and latest model | 5 months ago                        |
| .travis.yml              | disabled codecov                      | 4 months ago                        |
| LICENSE                  | Initial commit                        | a year ago                          |

# Edit .travis.yml



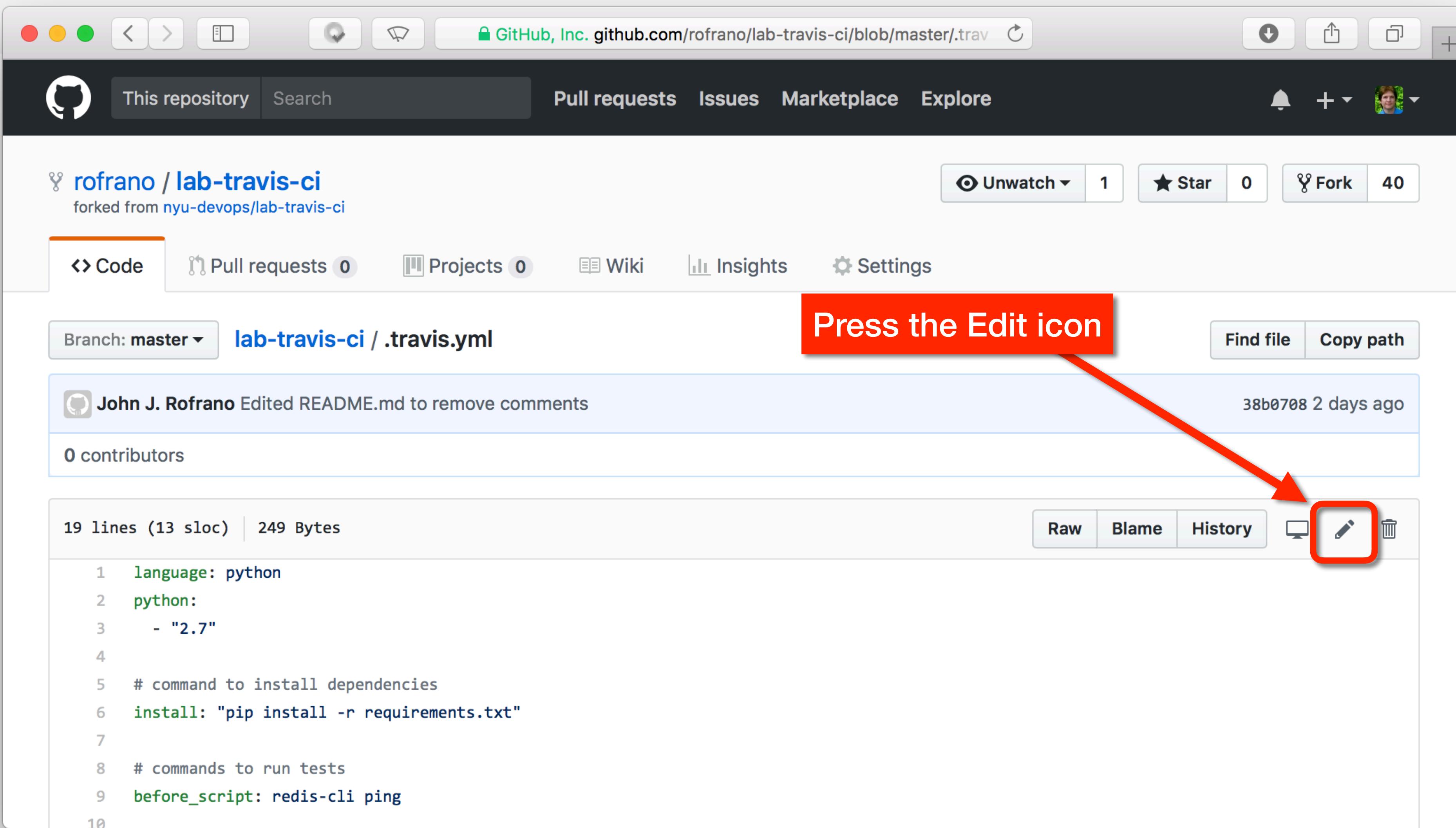
The screenshot shows a GitHub repository page for `rofrano / lab-travis-ci`. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the navigation bar, there are buttons for Unwatch (1), Star (0), and Fork (40). The main content area displays the `.travis.yml` file, which contains the following configuration:

```
language: python
python:
 - "2.7"

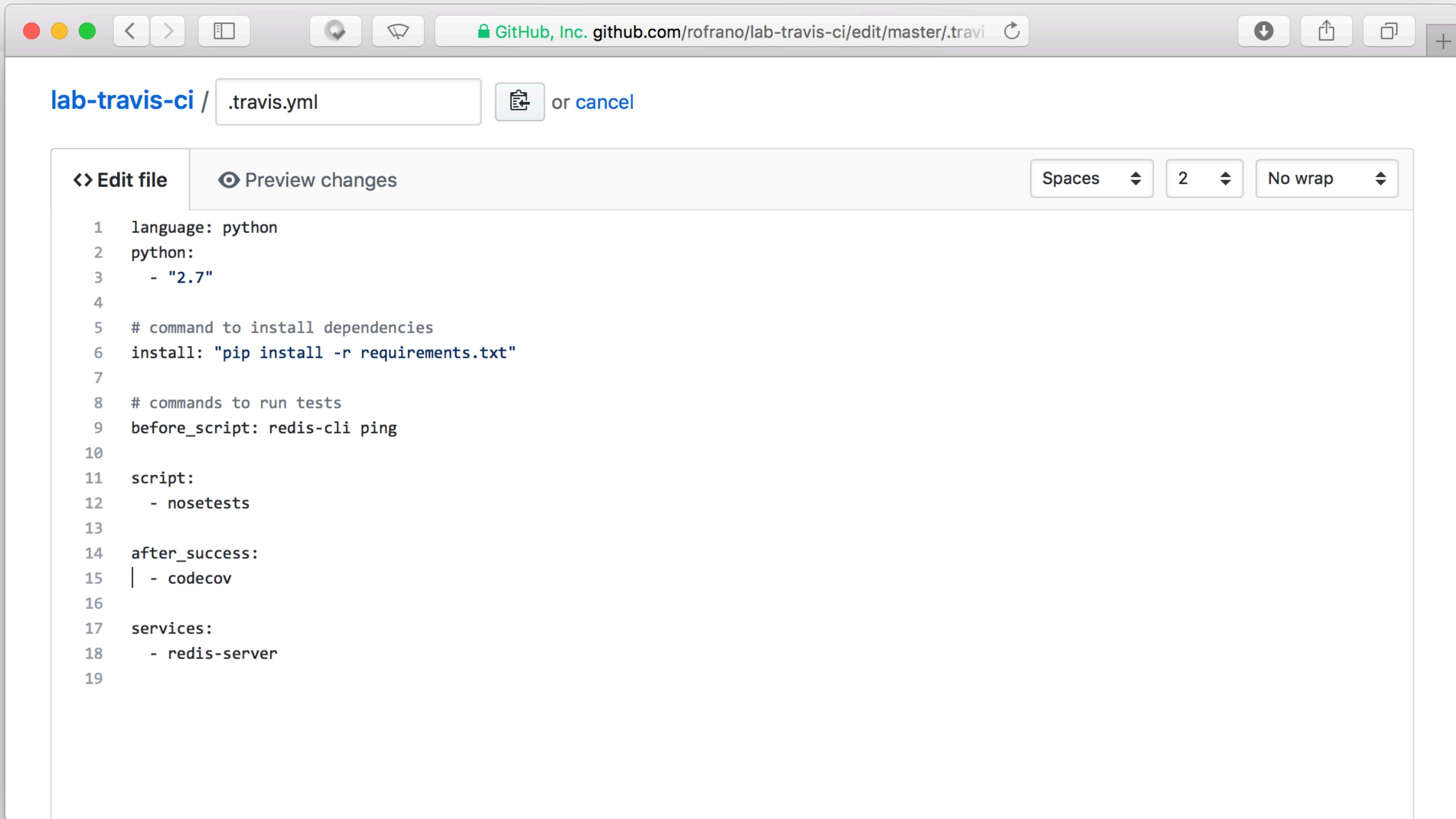
command to install dependencies
install: "pip install -r requirements.txt"

commands to run tests
before_script: redis-cli ping
```

# Edit .travis.yml



# Uncomment Codecov



The screenshot shows a GitHub code editor interface for the `.travis.yml` file of the `lab-travis-ci` repository. The URL in the browser bar is `github.com/rofrano/lab-travis-ci/edit/master/.travis.yml`.

The file content is as follows:

```
language: python
python:
 - "2.7"

command to install dependencies
install: "pip install -r requirements.txt"

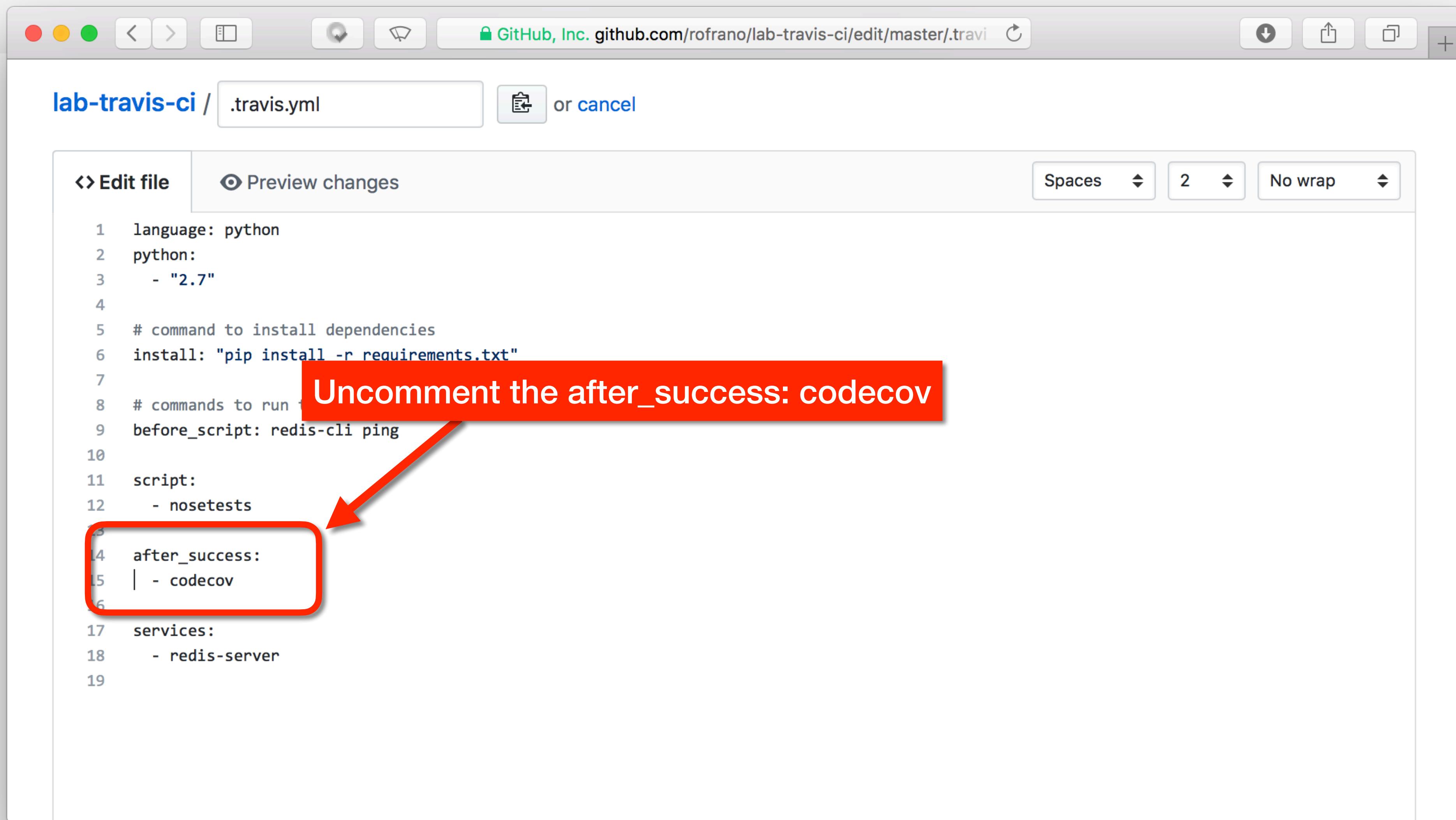
commands to run tests
before_script: redis-cli ping

script:
 - nosetests

after_success:
| - codecov

services:
 - redis-server
```

# Uncomment Codecov



A screenshot of a GitHub code editor showing the `.travis.yml` file for a repository named `lab-travis-ci`. The file contains configuration for a Travis CI build. A red callout box with the text "Uncomment the after\_success: codecov" is positioned above the `after_success` section, which is highlighted with a red border. A red arrow points from the text in the callout to the `codecov` command in the `after_success` block.

```
language: python
python:
 - "2.7"

command to install dependencies
install: "pip install -r requirements.txt"

commands to run
before_script: redis-cli ping

script:
 - nosetests

after_success:
 - codecov

services:
 - redis-server
```

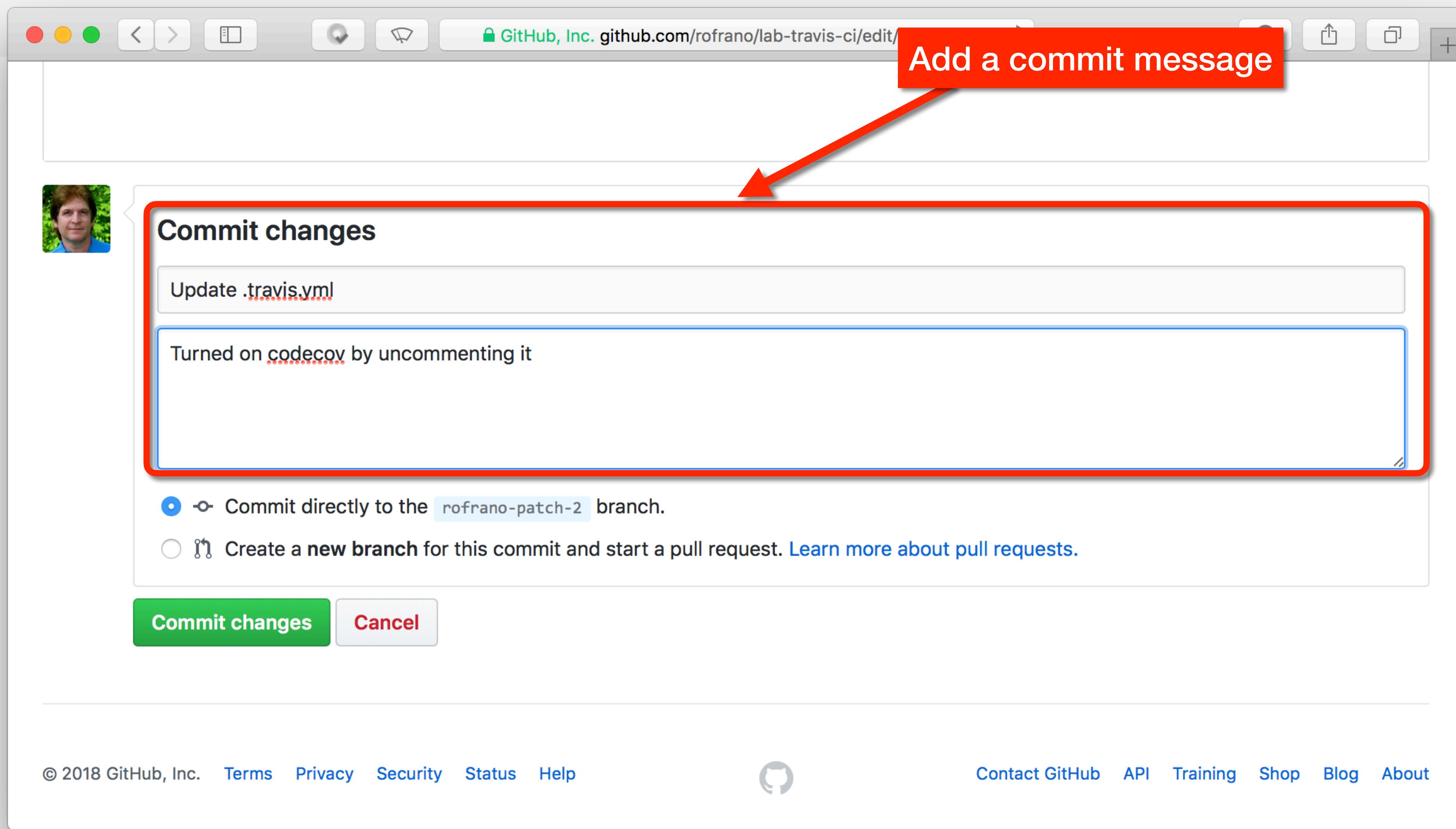
# Propose the Change

A screenshot of a GitHub commit changes dialog box. The dialog is titled "Commit changes" and shows a user profile picture of a man with brown hair. Below the title, there is a text input field containing "Update .travis.yml". A message box contains the text "Turned on codecov by uncommenting it", which is highlighted with a blue border. At the bottom of the dialog, there are two radio button options: one selected (blue outline) for "Commit directly to the rofrano-patch-2 branch." and another unselected (white outline) for "Create a new branch for this commit and start a pull request. Learn more about pull requests." At the very bottom of the dialog are two buttons: a green "Commit changes" button and a red "Cancel" button.

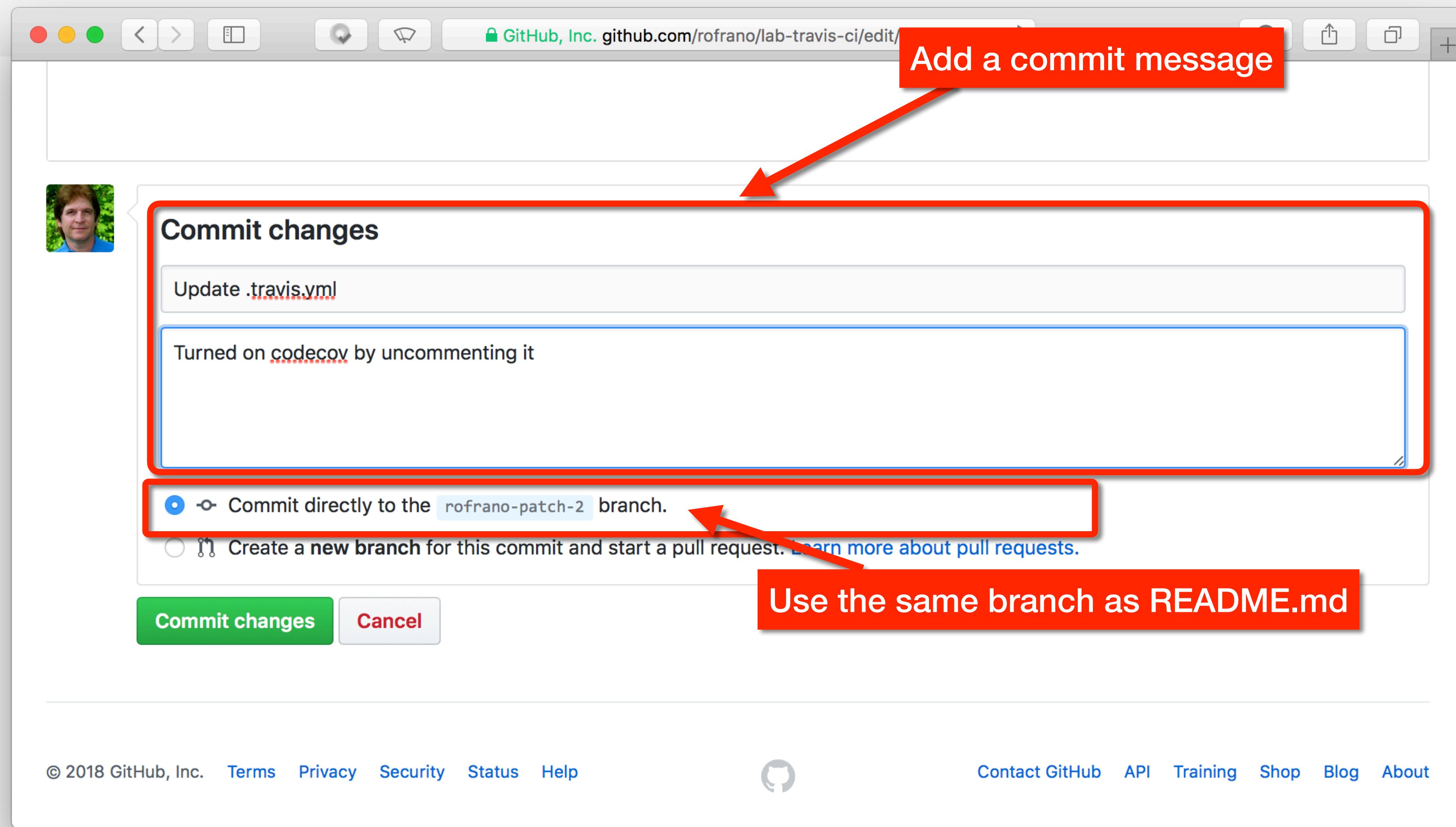
© 2018 GitHub, Inc. [Terms](#) [Privacy](#) [Security](#) [Status](#) [Help](#)

Contact GitHub API Training Shop Blog About

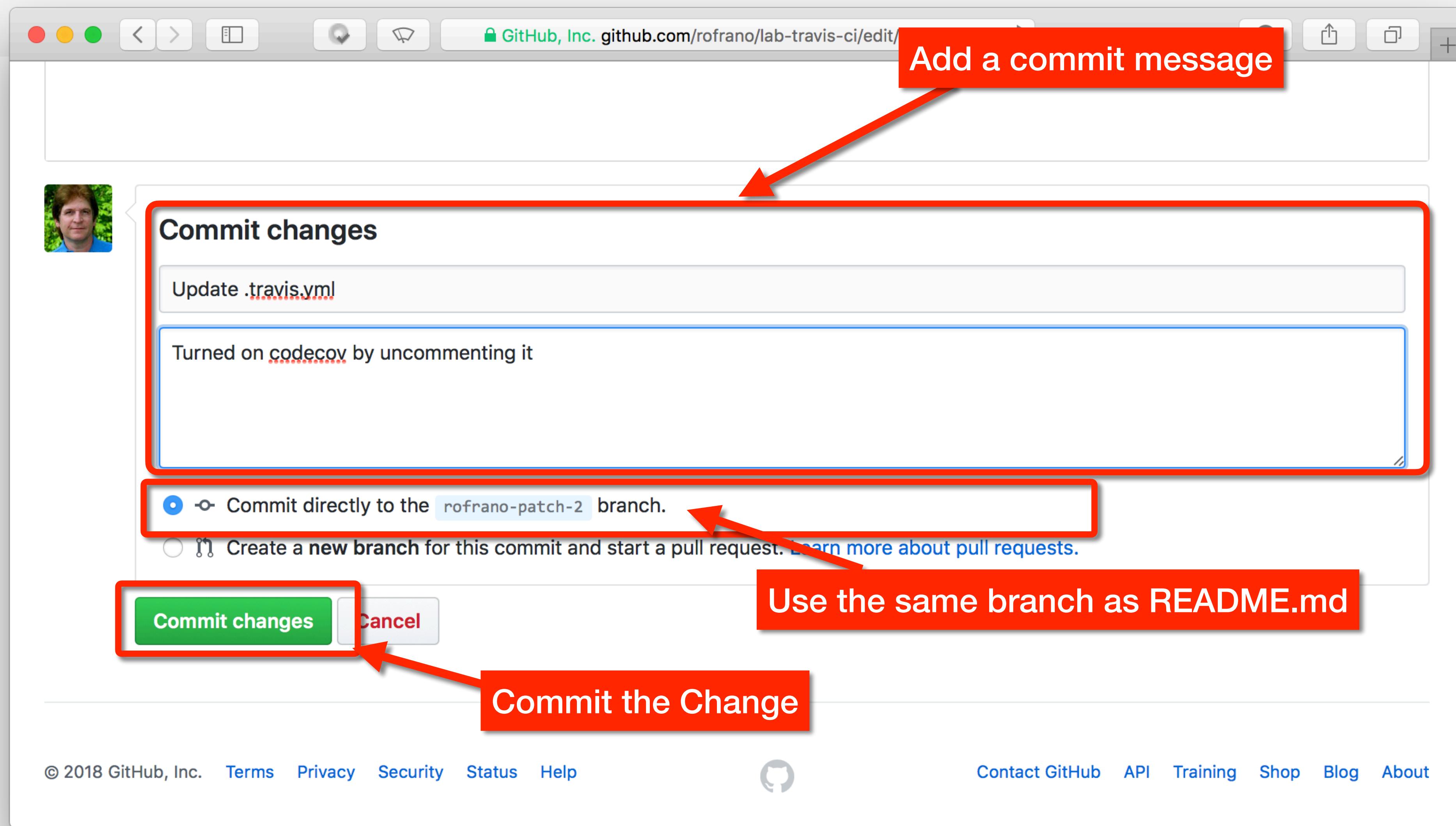
# Propose the Change



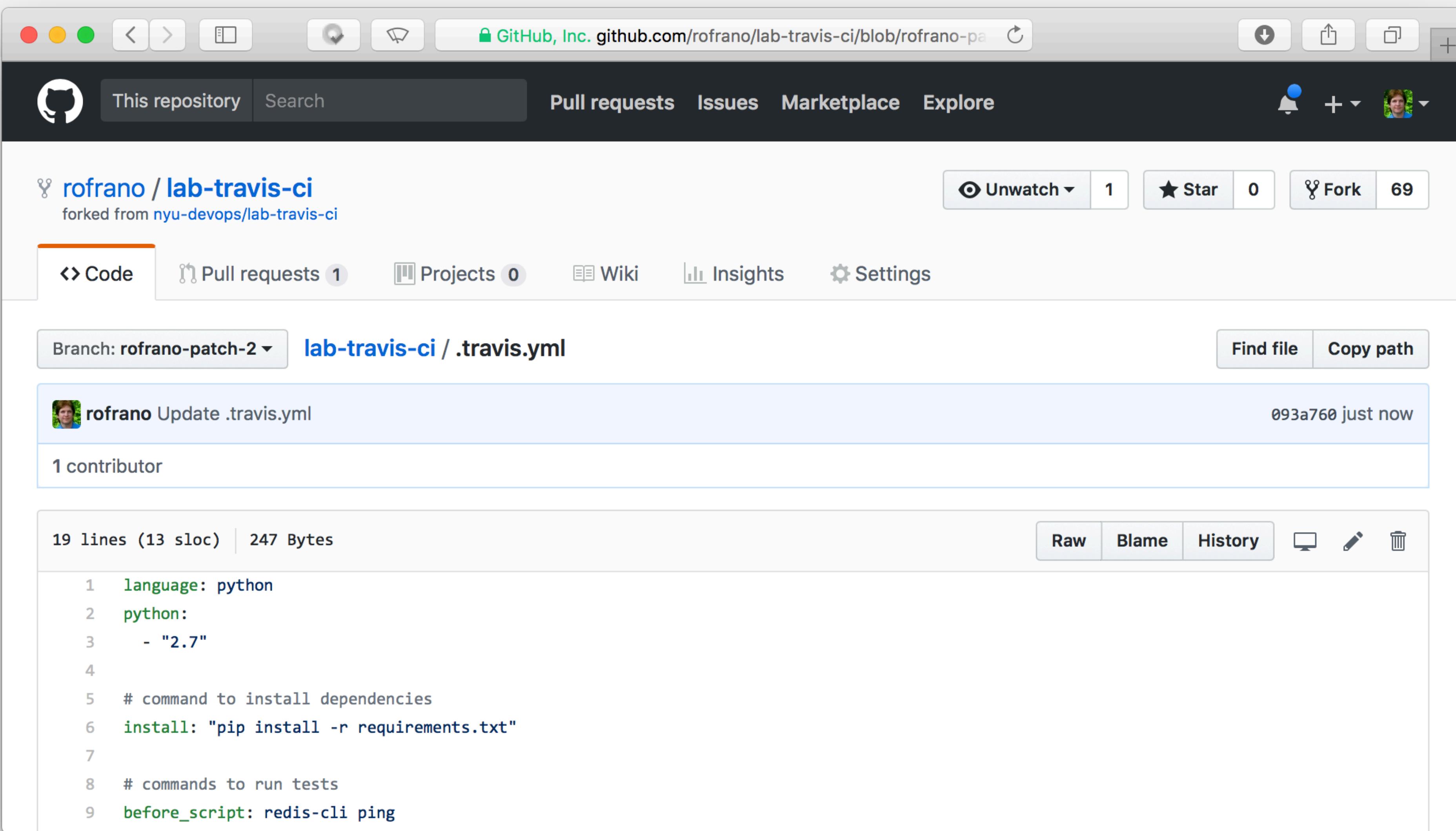
# Propose the Change



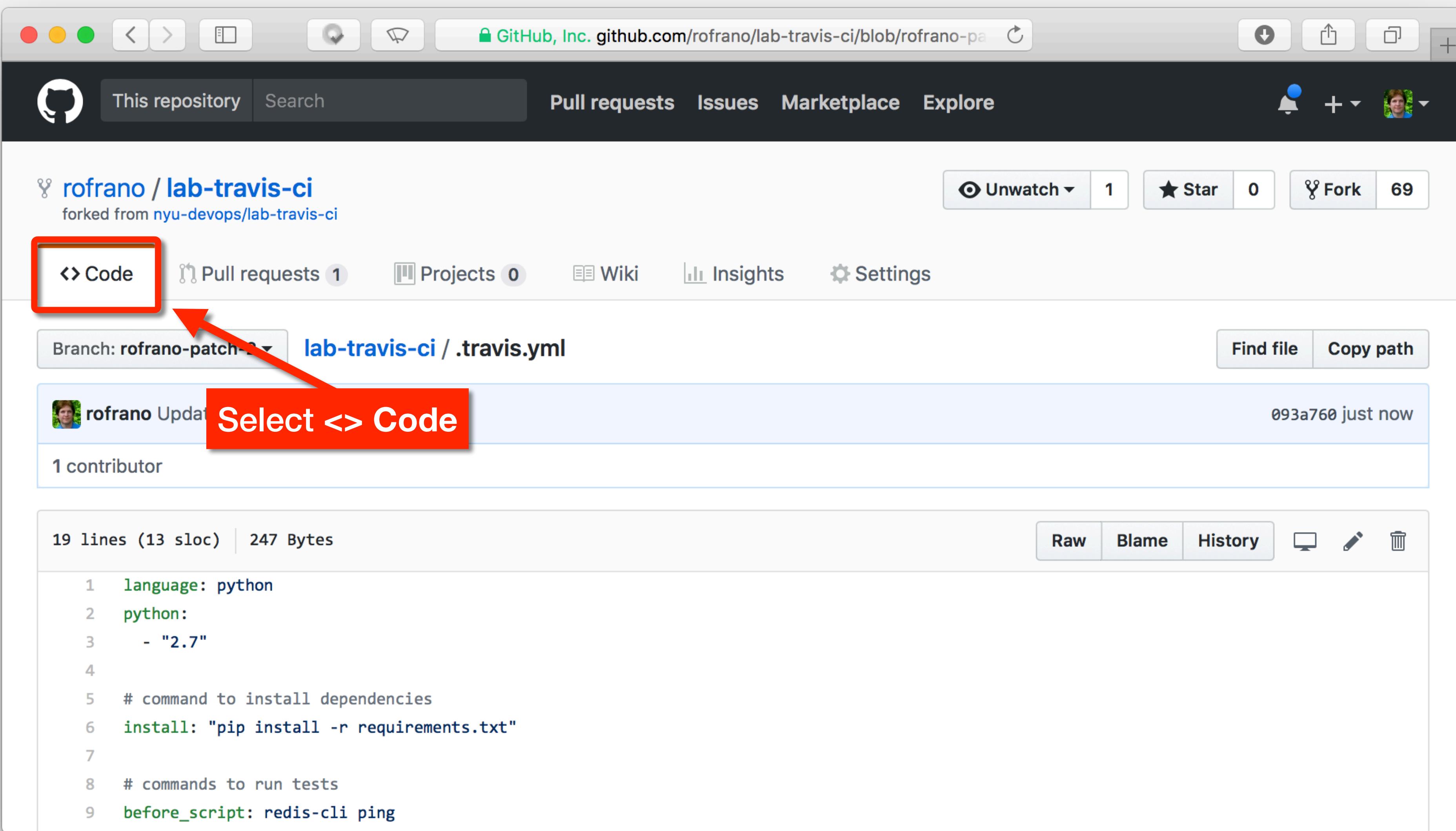
# Propose the Change



# Go Back to Code Listing



# Go Back to Code Listing



# Create Pull Request

The screenshot shows a GitHub repository page for `rofrano / lab-travis-ci`. The repository was forked from `nyu-devops/lab-travis-ci`. The page includes navigation links for `Pull requests`, `Issues`, `Marketplace`, and `Explore`. It displays statistics such as 22 commits, 3 branches, 0 releases, 1 contributor, and Apache-2.0 license. A prominent yellow button labeled `Compare & pull request` is visible. The repository description states: "This lab demonstrates how to use Travis CI with Redis for Continuous Integration".

This lab demonstrates how to use Travis CI with Redis for Continuous Integration

Add topics

22 commits 3 branches 0 releases 1 contributor Apache-2.0

Your recently pushed branches:

rofrano-patch-2 (1 minute ago) Compare & pull request

Branch: rofrano-patch-2 New pull request Create new file Upload files Find file Clone or download

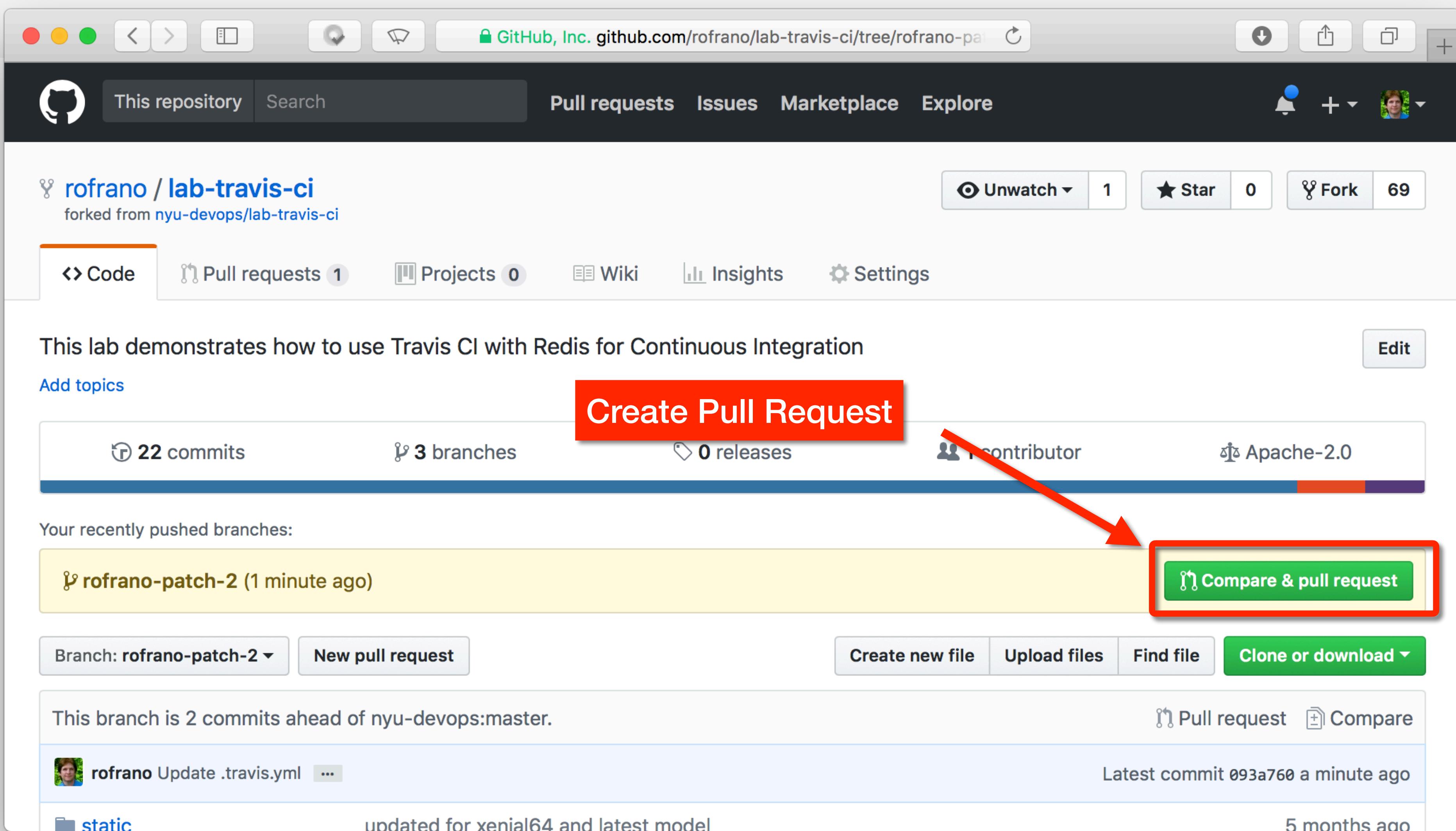
This branch is 2 commits ahead of nyu-devops:master.

rofrano Update .travis.yml ... Pull request Compare

Latest commit 093a760 a minute ago

static updated for xenial64 and latest model 5 months ago

# Create Pull Request



# DO NOT SEND YET !!! 😱

The screenshot shows a GitHub repository page for `nyu-devops / lab-travis-ci`. The user is comparing the `master` branch against a head fork `rofrano/lab-travis-ci` and a compare branch `rofrano-patch-2`. A green checkmark indicates that the branches are able to be merged automatically. The pull request title is `Rofrano patch 2`. The interface includes sections for `Reviewers`, `Assignees`, and `Labels`.

GitHub, Inc. [github.com/nyu-devops/lab-travis-ci/compare/master%23rofrano-patch-2](https://github.com/nyu-devops/lab-travis-ci/compare/master%23rofrano-patch-2)

This repository Search Pull requests Issues Marketplace Explore

Unwatch 1 Star 0 Fork 69

Code Issues 0 Pull requests 2 Projects 0 Wiki Insights Settings

## Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base fork: `nyu-devops/lab-travis-ci` base: `master` ← head fork: `rofrano/lab-travis-ci` compare: `rofrano-patch-2`

✓ Able to merge. These branches can be automatically merged.

**Rofrano patch 2**

Write Preview

Leave a comment

Reviewers

No reviews—request one

Assignees

No one—assign yourself

Labels

# DO NOT SEND YET !!! 😱

The screenshot shows a GitHub repository page for `nyu-devops / lab-travis-ci`. A large red box with white text overlays the center of the page, containing the message **DO NOT SEND TO NYU-DEVOPS !!!** and **Change this to your Fork**. A red arrow points from the bottom-left of this box towards the **base fork** dropdown menu. The dropdown menu is highlighted with a red border and contains the text `base fork: nyu-devops/lab-travis-ci`. Below the dropdown, a green checkmark icon and the text `✓ Able to merge. These branches can be automatically merged.` are visible. The GitHub interface includes standard navigation elements like **Pull requests**, **Issues**, **Marketplace**, and **Explore** at the top, and **Code**, **Issues**, **Insights**, and **Settings** below the main title. On the right side, there are sections for **Reviewers**, **Assignees**, and **Labels**.

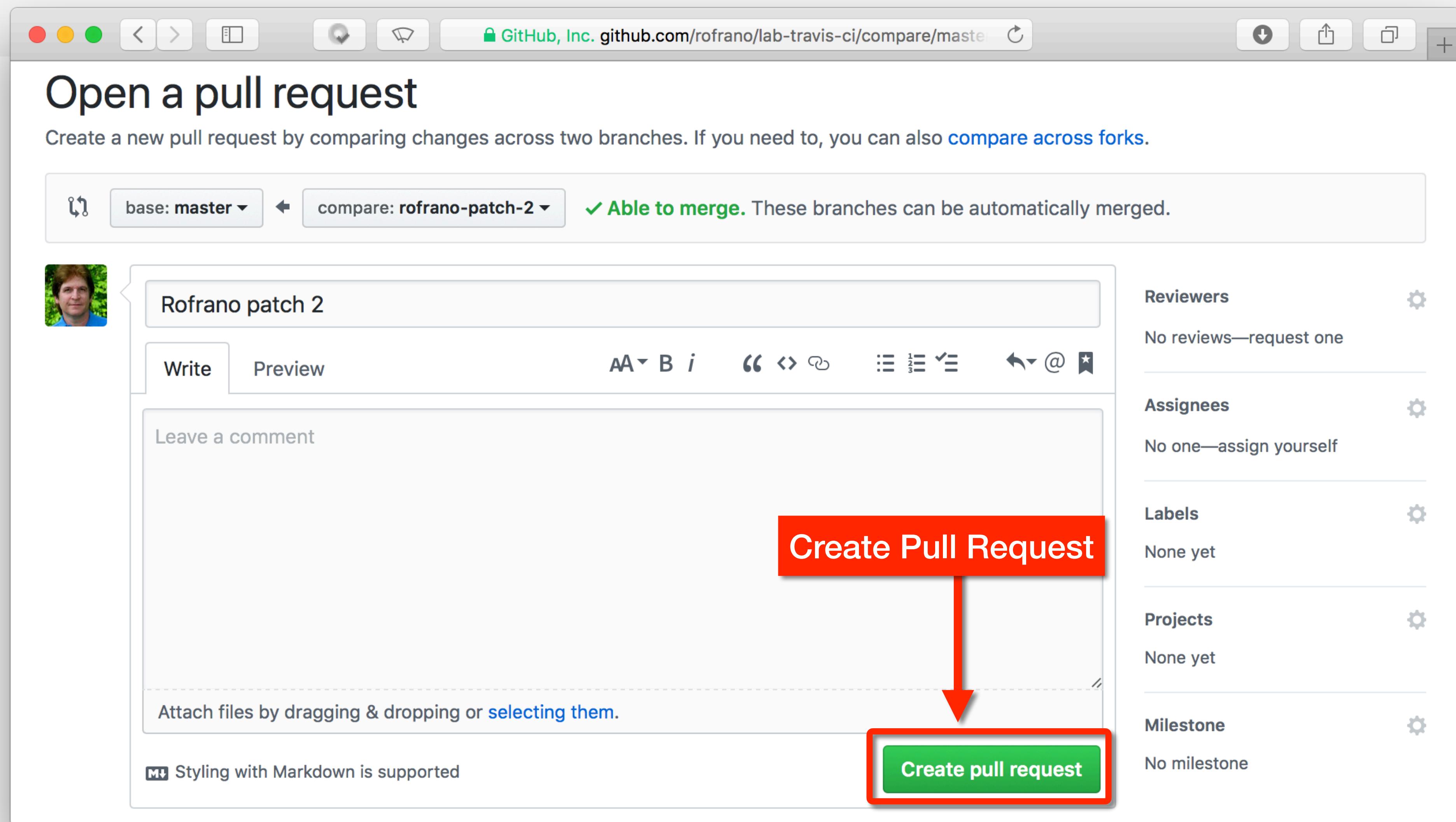
# Select your Fork

The screenshot shows a GitHub repository page for `nyu-devops / lab-travis-ci`. The user is in the process of creating a pull request, as indicated by the "Open a pull request" heading. The "base fork" dropdown is set to `nyu-devops/lab-travis-ci`, and the "base" dropdown is set to `master`. The "head fork" dropdown is set to `rofrano/lab-travis-ci`, and the "compare" dropdown is set to `rofrano-patch-2`. A modal window titled "Choose a Base Repository" is open, listing repositories. The repository `rofrano/lab-travis-ci` is highlighted with a red border and a red arrow points to it from a callout box containing the text "Select your Fork". Other listed repositories include `nyu-devops/lab-travis-ci`, `AbduGadir/lab-travis-ci`, `AngelaJubeJudy/lab-travis-ci`, and `CentalDongzhuo/lab-travis-ci`. To the right of the modal, there are sections for "Reviewers" (No reviews—request one), "Assignees" (No one—assign yourself), and "Labels".

# Create Pull Request

The screenshot shows the GitHub web interface for creating a pull request. The URL in the address bar is [github.com/rofrano/lab-travis-ci/compare/master...rofrano-patch-2](https://github.com/rofrano/lab-travis-ci/compare/master...rofrano-patch-2). The main title is "Open a pull request". Below it, a sub-instruction says "Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#)". A status message indicates "Able to merge. These branches can be automatically merged." The "base" dropdown is set to "master" and the "compare" dropdown is set to "rofrano-patch-2". On the left, there's a preview area titled "Rofrano patch 2" with tabs for "Write" (selected) and "Preview". The "Write" tab includes a rich text editor toolbar with icons for bold, italic, quote, and other styling options. Below the toolbar is a "Leave a comment" text area and a "Attach files" section. At the bottom of the write area, it says "Styling with Markdown is supported". On the right side, there are sections for "Reviewers" (no reviews), "Assignees" (no one), "Labels" (none yet), "Projects" (none yet), and "Milestone" (no milestone). A large green "Create pull request" button is located at the bottom right.

# Create Pull Request



# Travis is Running

The screenshot shows a GitHub pull request page with the following details:

- Repository:** rofrano/lab-travis-ci
- Pull Request ID:** 3
- Status:** +2 -2 (green and red bars)
- Comments:** 0
- Commits:** 1
- Files changed:** 1
- Owner:** rofrano
- Reviewers:** No reviews—request one
- Assignees:** No one—assign yourself
- Labels:** None yet
- Projects:** None yet
- Milestone:** No milestone
- Notifications:** Unsubscribe

On the left, there is a comment from rofrano:

rofrano commented just now  
Uncommented after\_success: codecov

Below the comment, there is a commit:

Update .travis.yml ... ● 7f985d9

Below the commit, there is a message:

Add more commits by pushing to the **rofrano-patch-2** branch on **rofrano/lab-travis-ci**.

On the right, there is a summary of Travis CI checks:

- Some checks haven't completed yet** (2 pending checks)
  - continuous-integration/travis-ci/pr — The Travis CI build is in progress
  - continuous-integration/travis-ci/push — The Travis CI build is in progress
- This branch has no conflicts with the base branch**  
Merging can be performed automatically.

At the bottom, there are buttons for **Merge pull request** and **Unsubscribe**.

# Still Building...

A screenshot of a GitHub pull request page. The URL in the address bar is [GitHub, Inc. github.com/rofrano/lab-travis-ci/pull/3](https://github.com/rofrano/lab-travis-ci/pull/3). The main content shows a comment from user **rofrano** just now: "Uncommented after\_success: codecov". Below the comment is a commit from user **rofrano** with the message "Update .travis.yml" and hash **7f985d9**. A note below the commit says "Add more commits by pushing to the **rofrano-patch-2** branch on **rofrano/lab-travis-ci**". On the right side, there are sections for **Reviewers**, **Assignees**, **Labels**, **Projects**, **Milestone**, and **Notifications**. The notifications section includes a "Unsubscribe" button. At the bottom left, there is a "Merge pull request" button. The bottom right contains a note about opening the pull request in GitHub Desktop or viewing command line instructions.

rofrano commented just now

Owner + 😊 🖊

Uncommented after\_success: codecov

Update .travis.yml ... 7f985d9

Add more commits by pushing to the **rofrano-patch-2** branch on **rofrano/lab-travis-ci**.

**Some checks haven't completed yet**

1 pending and 1 successful checks

continuous-integration/travis-ci/pr — The Travis CI build is in progress

continuous-integration/travis-ci/push — The Travis CI build passed

This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request ▾ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Reviewers

No reviews—request one

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

Unsubscribe

You're receiving notifications because you authored the thread.

# Travis Build Complete

The screenshot shows a GitHub pull request page for a repository named `rofrano/lab-travis-ci`. The pull request has been merged, indicated by the green checkmark and the commit hash `7f985d9`. The Travis CI status bar at the bottom of the main content area shows two successful checks and no conflicts with the base branch.

**Comments:**

- rofrano commented a minute ago**: Uncommented after\_success: codecov
- Update .travis.yml**: ... (by rofrano) - A commit with a green checkmark and hash `7f985d9`.

**Reviewers:** No reviews—request one

**Assignees:** No one—assign yourself

**Labels:** None yet

**Projects:** None yet

**Milestone:** No milestone

**Notifications:** You're receiving notifications because you authored the thread. [Unsubscribe](#)

**Bottom navigation:** Write, Preview, Leave a comment

# Travis Build Complete

The screenshot shows a GitHub pull request page for a repository named `rofrano/lab-travis-ci`. The pull request has been merged, indicated by the green checkmark and the commit hash `7f985d9`. A red callout box with the text "You can view the details" points to the "Show all checks" button, which is highlighted with a red border. The Travis CI status summary indicates "All checks have passed" with 2 successful checks and "This branch has no conflicts with the base branch". A "Merge pull request" button is visible. The right sidebar contains sections for Reviewers, Assignees, Labels, Projects, Milestone, and Notifications, all currently set to "None yet". A notification at the bottom right states "You're receiving notifications because you authored the thread".

You can view the details

All checks have passed

This branch has no conflicts with the base branch

Merge pull request

Show all checks

Reviewers

No reviews—request one

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

Unsubscribe

You're receiving notifications because you authored the thread.

# See the Details

The screenshot shows a GitHub pull request page with a focus on continuous integration details. At the top, a comment from user **rofrano** is visible, followed by a commit message. On the right side, there are sections for **Reviewers**, **Assignees**, **Labels**, **Projects**, **Milestone**, and **Notifications**. A large green box highlights the Travis CI status, showing two successful checks: one for the PR and one for the push. It also indicates that the branch has no conflicts with the base branch. A prominent green button at the bottom left says **Merge pull request**.

rofrano commented 2 minutes ago

Owner + 😊 🖍

Uncommented after\_success: codecov

Update .travis.yml ... ✓ 7f985d9

Add more commits by pushing to the **rofrano-patch-2** branch on **rofrano/lab-travis-ci**.

All checks have passed

2 successful checks

continuous-integration/travis-ci/pr — The Travis CI build passed

continuous-integration/travis-ci/push — The Travis CI build passed

This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request You can also open this in GitHub Desktop or view command line instructions.

Reviewers

No reviews—request one

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Notifications

Unsubscribe

You're receiving notifications because you authored the thread.

# Codecov Badges

The screenshot shows a GitHub repository's README.md file. At the top, there are status badges for 'build' (passing), 'coverage' (95%), and 'license' (Apache 2.0). A red arrow points from a callout box labeled 'Displays your code coverage in a badge' to the 'coverage' badge.

**nyu-travis-ci**

This is for NYU DevOps lab on using Travis CI with Redis for Continuous Integration

## Introduction

This lab contains a `.travis.yml` file that shows you how to run your tests and request that a Redis service be attached while running them. It also uses Code Coverage to determine how complete your testing is.

## Setup

To complete this lab you will need a mirror of this repo. You cannot just clone the repo because you need to make a change in order to trigger Travis CI. You also don't want to Fork it because you want to test Pull Requests and the Pull Request of the Fork will come back to this repo and not your Fork. Therefore you need to copy the repo to your own GitHub account using an operation known as `mirroring`

## Mirroring the repository

# Summary

- You should have a basic understanding of how Travis CI works
- You learned how to do create a `.travis.yml` file for your project
- You should be able to integrate Travis CI into your build process

