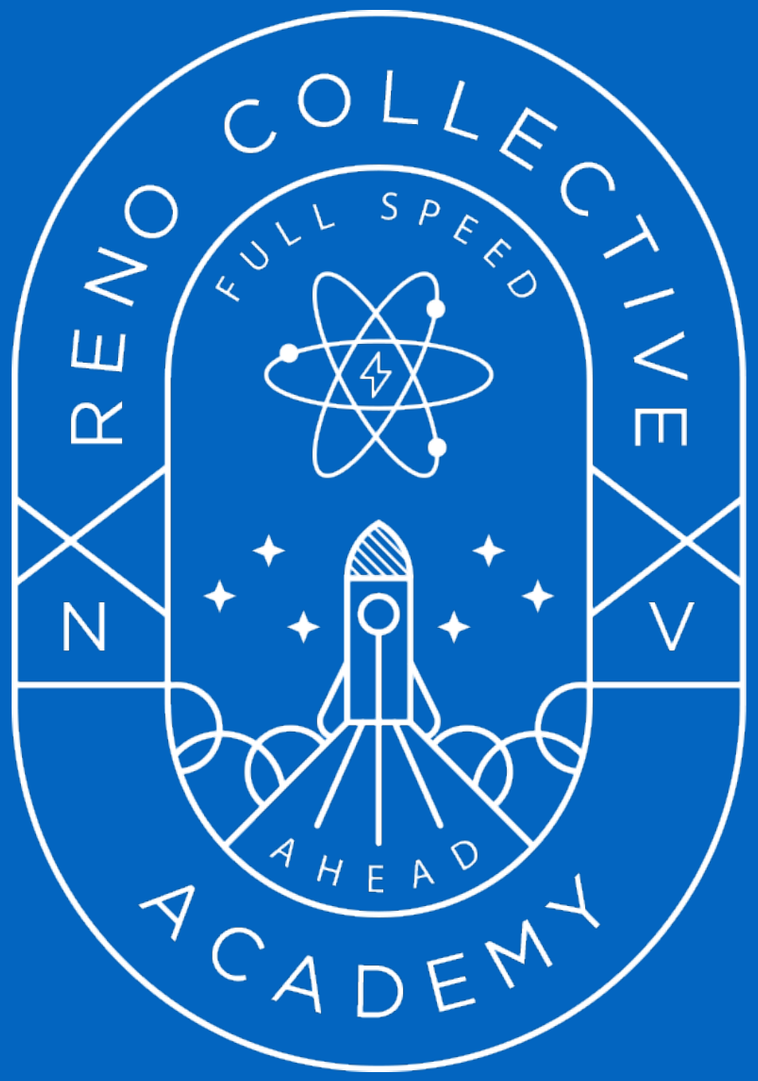

RENO COLLECTIVE
FULL SPEED
N
V
AHEAD
ACADEMY

JS Exercise Review

Introduction to Git

Creating a new repository

```
mkdir hello_world

cd hello_world
```

```
git init
```

```
Initialized empty Git repository in /Users/colinloretz/Projects/mechanism/
hello_world/.git/
```

Checking the status

```
git status
```

```
On branch master

Initial commit

nothing to commit (create/copy files and use "git add" to track)
```

Let's add a new file

```
touch index.html

ls
```

```
index.html
```

Now check our status again

```
git status
```

```
On branch master

Initial commit

Untracked files:
  (use "git add <file>..." to include in what will be committed)

   index.html

nothing added to commit but untracked files present (use "git add" to track)
```

Adding our file to be tracked

```
git add index.html

git status
```

```
On branch master

Initial commit

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

   new file:   index.html
```

To add all untracked files

```
git add .

git status
```

```
On branch master

Initial commit

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

   new file:   index.html
```

Now we create a commit

```
git commit -m "added index.html to my repo"
```

```
[master (root-commit) 595fa3a] added index.html to my repo
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
```

Now let's check status again

```
git status
```

```
On branch master
nothing to commit, working directory clean
```

View commit history

```
git log
```

```
commit 595fa3af254d563dd3bc65dbad72fa0939dbe864
Author: Colin Loretz <colin@mechani.sm>
Date:   Mon Apr 18 11:41:51 2016 -0700

    added index.html to my repo
```

Let's add some content

Add some html to your index.html

git status

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

  modified:   index.html

no changes added to commit (use "git add" and/or "git commit -a")
```

Let's commit this change

```
git commit -am "added html to index.html"
```

```
[master b4ecadf] added html to index.html
 1 file changed, 10 insertions(+)
```

Introduction to Github

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner **Repository name**

colinloretz / helloworld

Great repository names are short and memorable. Need inspiration? How about **scaling-lamp**.

Description (optional)

Public
Anyone can see this repository. You choose who can commit.

Private
You choose who can see and commit to this repository.

Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** | Add a license: **None**

Create repository

colinloretz / helloworld

Watch 0 Star 0 Fork 0

Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH git@github.com:colinloretz/helloworld.git

We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# helloworld" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin git@github.com:colinloretz/helloworld.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin git@github.com:colinloretz/helloworld.git
git push -u origin master
```

...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

ProTip! Use the URL for this page when adding GitHub as a remote.

Adding a remote

```
git add remote <remote_name> <git_url>

git add remote origin
git@github.com:colinloretz/helloworld.git

git remote -v
```

```
origin git@github.com:colinloretz/helloworld.git (fetch)
origin git@github.com:colinloretz/helloworld.git (push)
```

Pushing to a remote

```
git push <remote_name> <branch_name>
```

```
git push origin master
```

```
Counting objects: 6, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (6/6), 559 bytes | 0 bytes/s, done.
Total 6 (delta 0), reused 0 (delta 0)
To git@github.com:colinloretz/helloworld.git
 * [new branch]      master -> master
```

colinloretz / helloworld

No description or website provided. — Edit

2 commits 1 branch 0 releases 1 contributor

Branch: **master** New pull request | New file | Upload files | Find file | SSH | git@github.com:colinloret | Download ZIP

colinloretz added html to index.html — Latest commit `b4ecadf` 8 minutes ago

index.html	added html to index.html	8 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README

colinloretz / helloworld

Branch: **master**

Commits on Apr 18, 2016

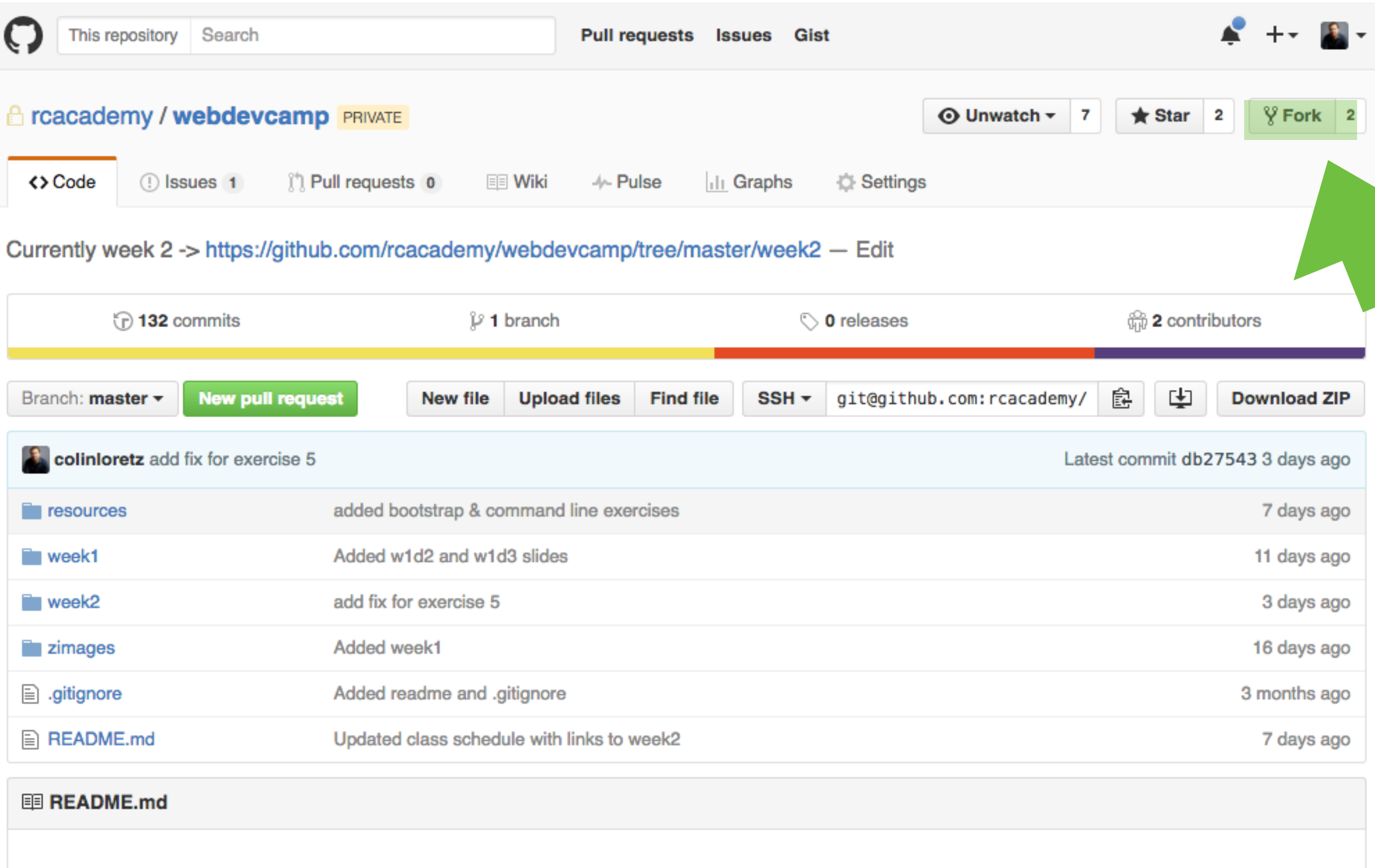
added html to index.html
colinloretz committed 9 minutes ago

b4ecadf

added index.html to my repo
colinloretz committed 13 minutes ago

595fa3a

Forking a repository



Cloning from a remote (your fork)

```
git clone <git_url>

git clone git@github.com:colinloretz/webdevcamp.git

cd webdevcamp
```

```
Cloning into 'webdevcamp'...
remote: Counting objects: 851, done.
remote: Compressing objects: 100% (174/174), done.
remote: Total 851 (delta 75), reused 0 (delta 0), pack-reused 673
Receiving objects: 100% (851/851), 22.75 MiB | 1.58 MiB/s, done.
Resolving deltas: 100% (292/292), done.
Checking connectivity... done.
```

Why?

Allow you to work inside your fork and push your work up to Github.

Other Commands

Creating a branch

```
git branch <new_branch_name>

git branch
```

```
  add-feature-10
* master
```

Switch to that branch

```
git checkout <branch_name>

git branch
```

```
* add-feature-10
  master
```

Merging

Merging

```
git checkout master

git merge <other_branch_name>
```

```
Updating bc4388d..d583441
Fast-forward
 moon.html | 10 ++++++++++
 1 file changed, 10 insertions(+)
 create mode 100644 moon.html
```

Merge Conflicts!

SSH / Github Setup

Check to see if you have existing SSH keys

```
ls -al ~/.ssh
```

```
id_rsa.pub   id_rsa
```

Create new SSH key

```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

```
Generating public/private rsa key pair.

Enter a file in which to save the key (/Users/you/.ssh/id_rsa): [Press enter]

Enter passphrase (empty for no passphrase): [Type a passphrase]
Enter same passphrase again: [Type passphrase again]
```

Ensure ssh-agent is running

```
eval "$(ssh-agent -s)"
```

```
Agent pid 59566
```

Add new key to ssh-agent

```
ssh-add ~/.ssh/id_rsa
```

Add your public key to Github

```
pbcopy < ~/.ssh/id_rsa.pub
```

This will copy your public key into your clipboard.

In Github, go to **Settings > SSH & GPG Keys**

Click **New SSH Key**. Give it a name like "Personal Macbook Air" or "PC"

Paste your public key into the "Key" field.

Enter your Github password to confirm.

Git-It Exercise