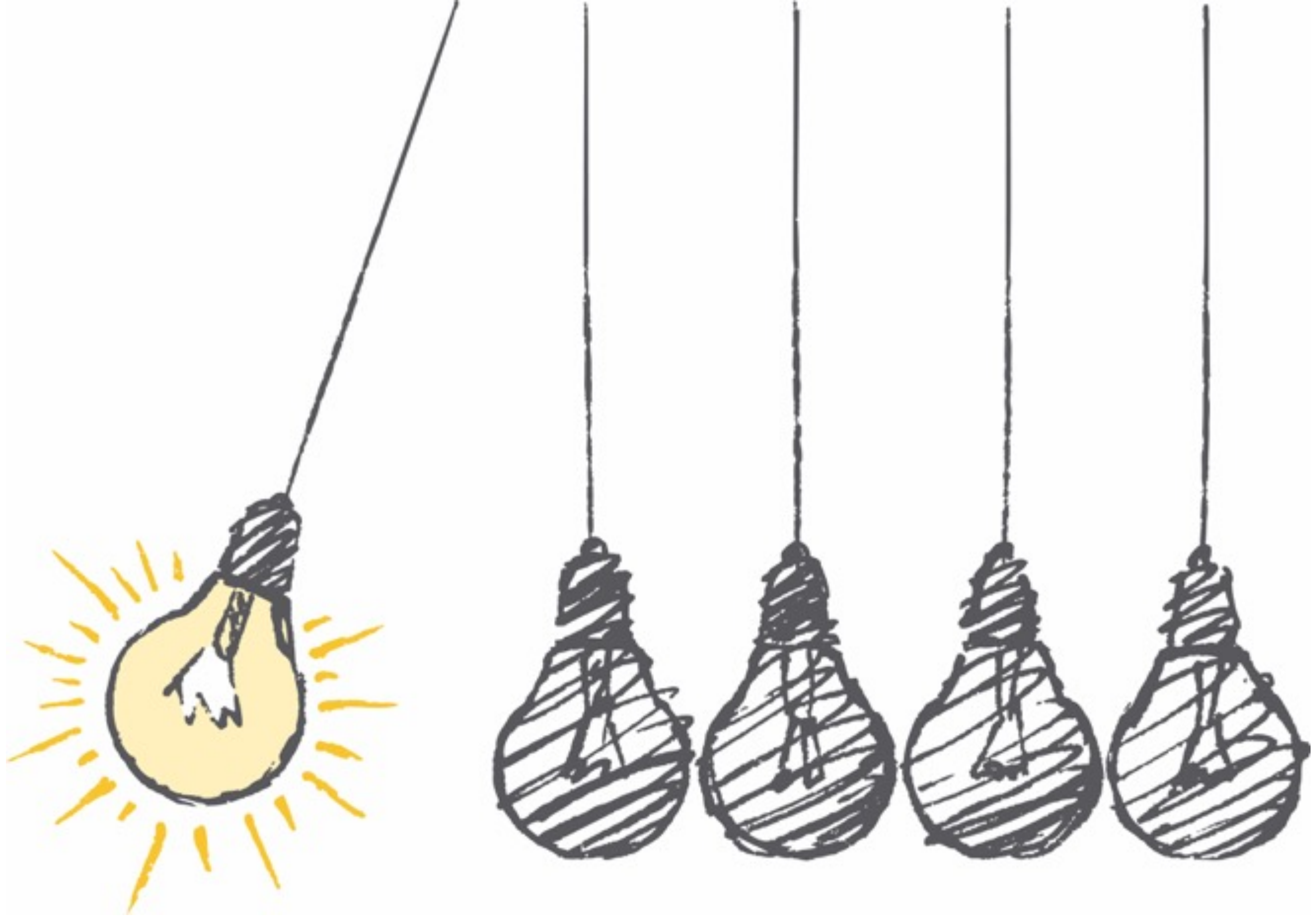
Data Day:

Introduction to Git and GitHub

Prepared by **DIME Analytics**
dimeanalytics@worldbank.org

Presented by **Benjamin Daniels**
bdaniels@worldbank.org



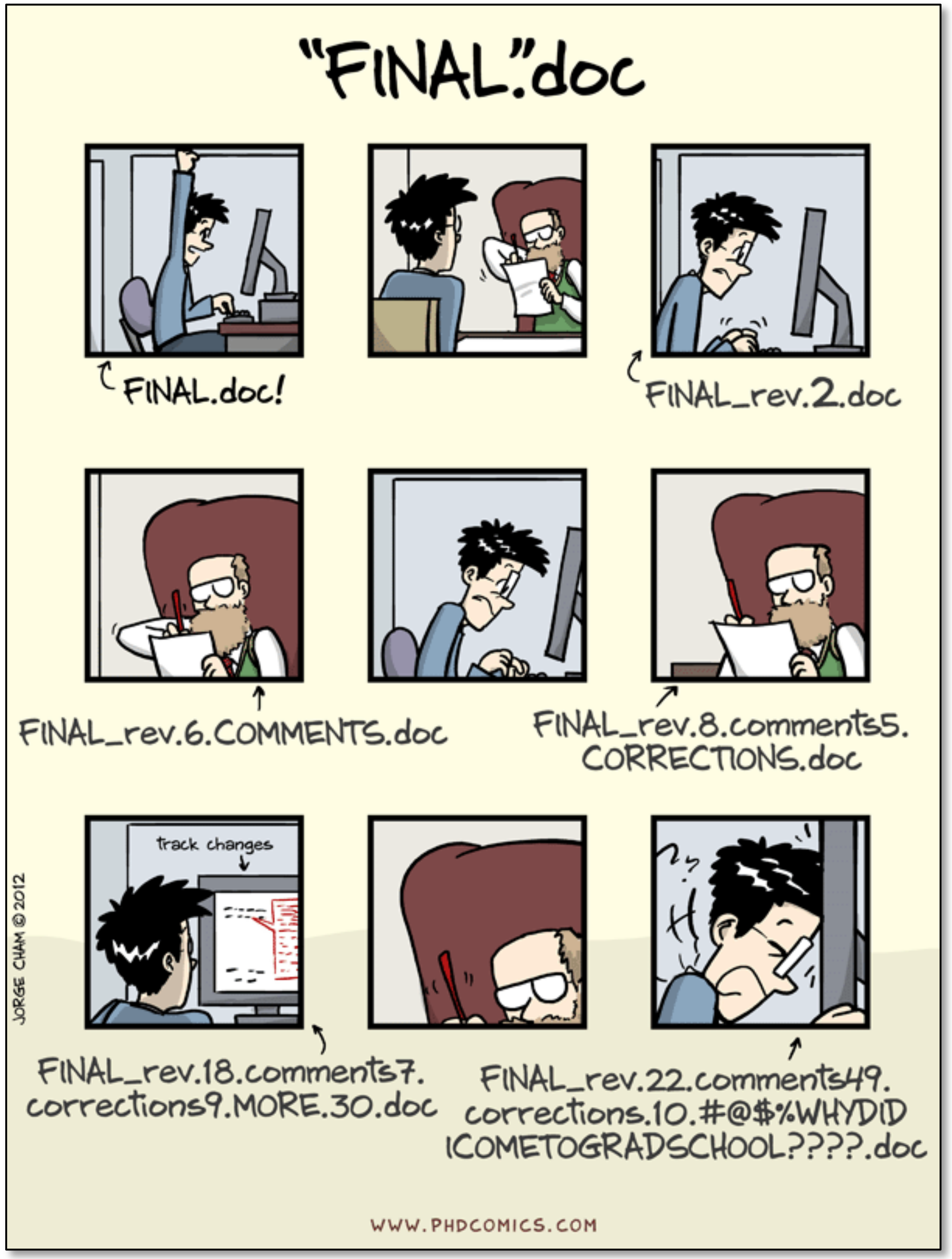
What is Git?
What is GitHub?

First, Git is not GitHub.
Second, GitHub is not Git.

Git is a **version control software**.
It organizes *versions* of every file in a project in an orderly way. It is approved for use on WB machines.

GitHub is a **development platform**.
It manages *contributions* to projects in an orderly way. It is a standard tool in code development and the Bank has a subscription.

Together, Git and GitHub allow you to avoid the "FINAL".doc problem. (For code, not Word documents)


"FINAL".doc
FINAL.doc!
FINAL_rev.2.doc
FINAL_rev.6.COMMENTS.doc
FINAL_rev.8.comments5.CORRECTIONS.doc
track changes
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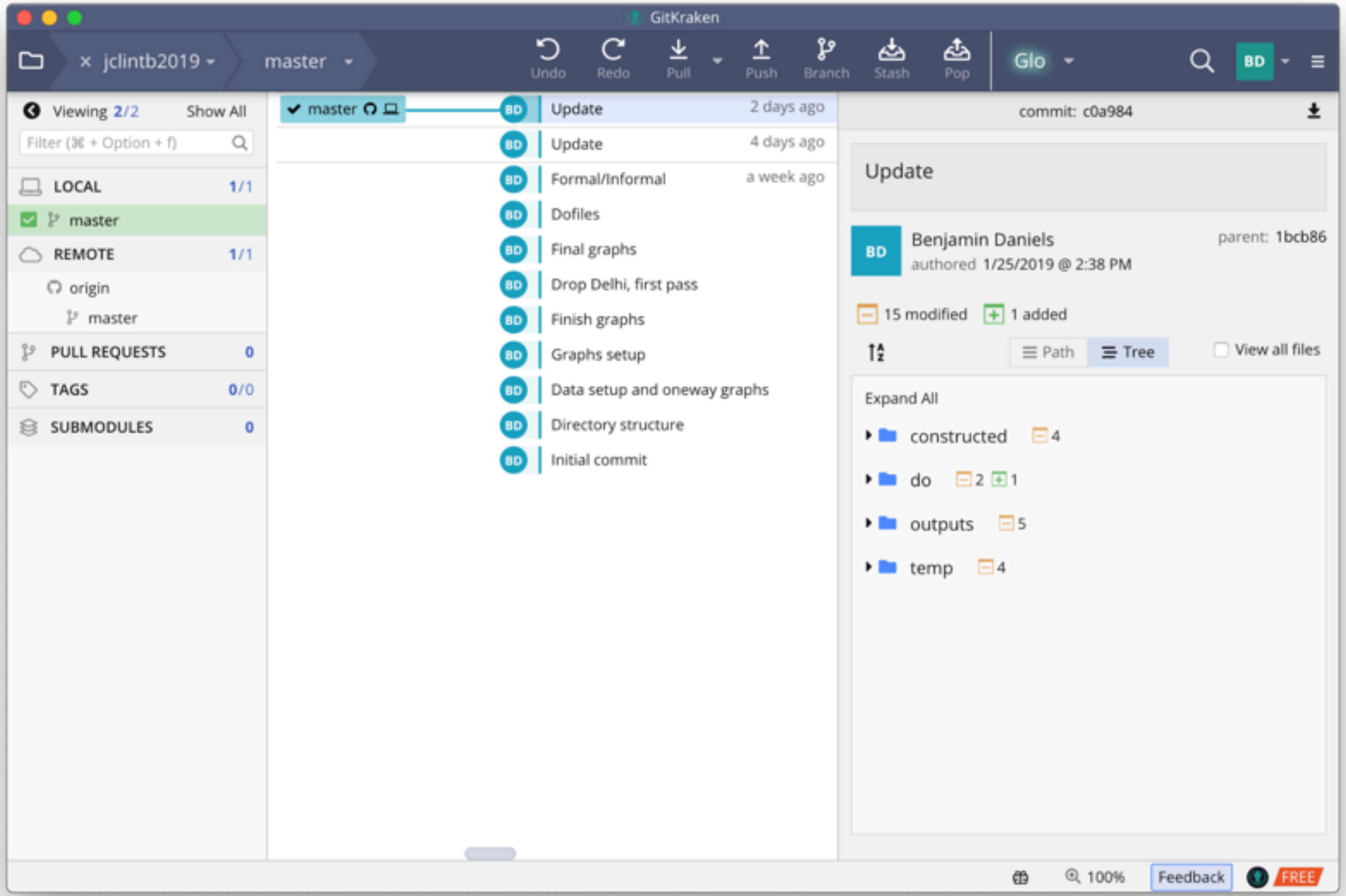
Git:
The basics

Git is a software that runs on your computer. It stores “version histories” of your files in a way that is really useful, but that you mainly don’t need to understand.

The complete history of a project is called a “repository”. A repository can be viewed in a desktop “client”, such as GitKraken, shown here.

A very simple repository would look much like this one: it has a series of versions called *commits* that make up its history. Each commit is a record of the changes between itself and the previous commit.



Update	2 days ago
Update	4 days ago
Formal/Informal	a week ago
Dofiles	
Final graphs	
Drop Delhi, first pass	
Finish graphs	
Graphs setup	
Data setup and oneway graphs	
Directory structure	
Initial commit	

commit: c0a984

Update

Benjamin Daniels
authored 1/25/2019 @ 2:38 PM
parent: 1bcb86

15 modified 1 added

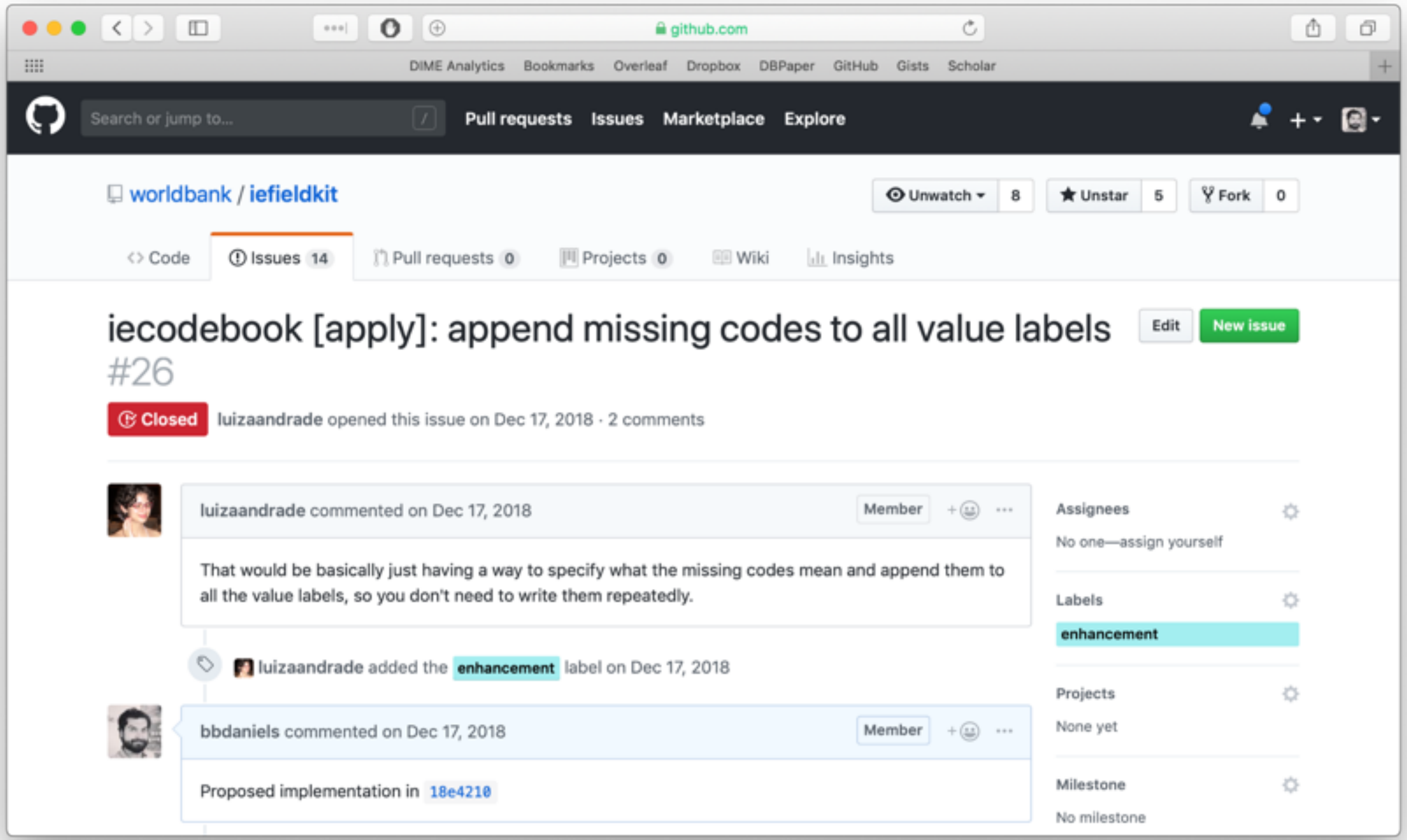
constructed 4
do 2 1
outputs 5
temp 4

GitHub:
The basics

GitHub is a website that you can use to manage collaboration with other people.

This has two main forms: first, managing and tracking tasks (known generally as "issues"), and second, allowing people to submit new materials to the repository.

A very simple issue looks like this one: A problem is posed, and after some discussion a solution is submitted as a "pull request" to the repository.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worldbank / iefieldkit
Unwatch 8 Unstar 5 Fork 0
Code Issues 14 Pull requests 0 Projects 0 Wiki Insights
Edit New issue

iecodebook [apply]: append missing codes to all value labels #26

Closed luizaandrade opened this issue on Dec 17, 2018 · 2 comments

luizaandrade commented on Dec 17, 2018 Member

That would be basically just having a way to specify what the missing codes mean and append them to all the value labels, so you don't need to write them repeatedly.

luizaandrade added the enhancement label on Dec 17, 2018

bbdaniels commented on Dec 17, 2018 Member

Proposed implementation in 18e4210

Assignees: No one—assign yourself

Labels: enhancement

Projects: None yet

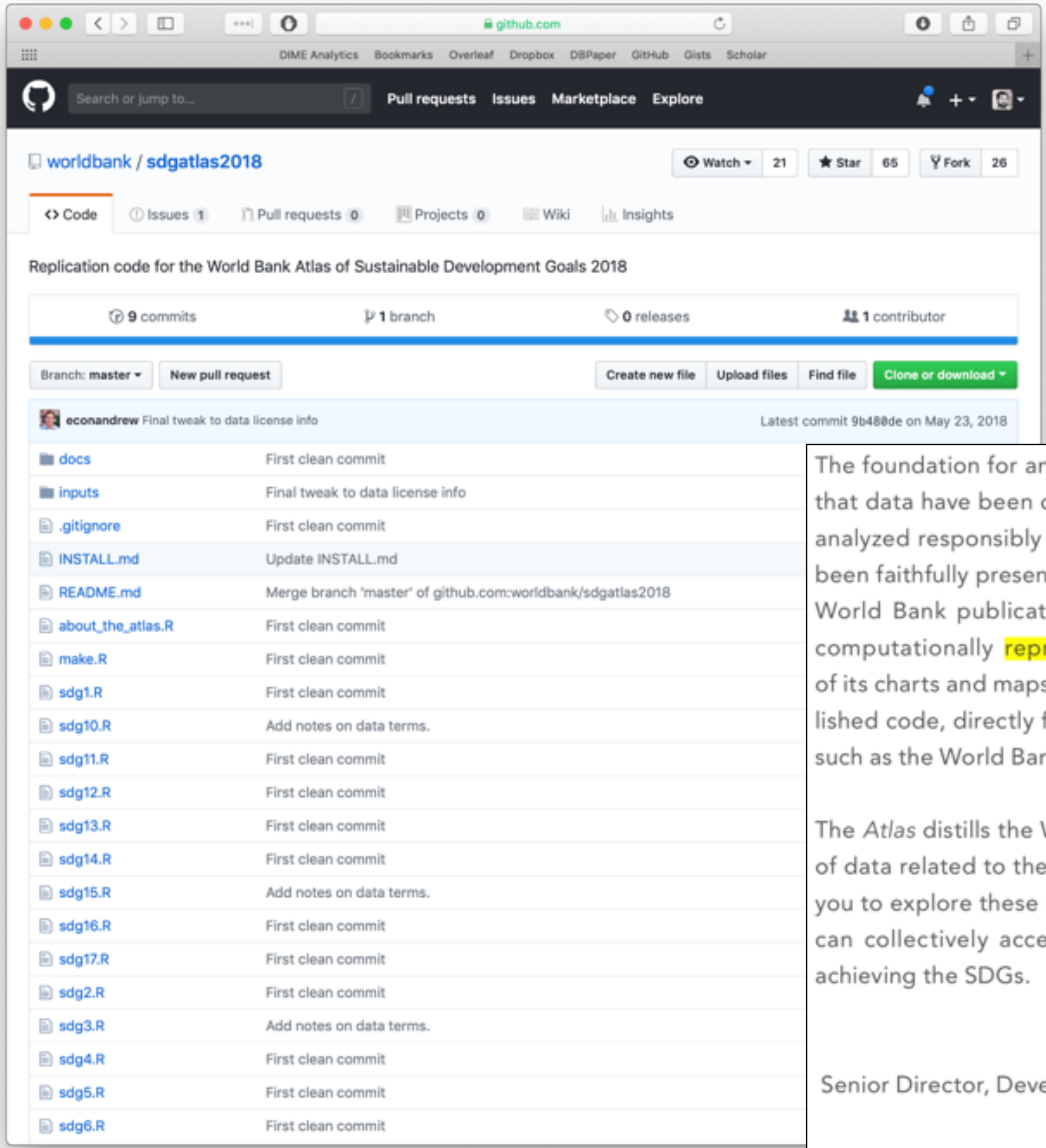
Milestone: No milestone

Git & GitHub: The basics

Mastering Git with GitHub gives you an awesome tool for managing your own team's workflow. Having both your data, code, and *code history* available for all authors makes an incredibly useful tool.

Plus, Git protects all your files much better than other software.

Repositories can optionally be published publicly, which is increasing popular for process transparency. Shown here: The World Bank Atlas of Sustainable Development Goals.



github.com

worldbank / sdgatlas2018

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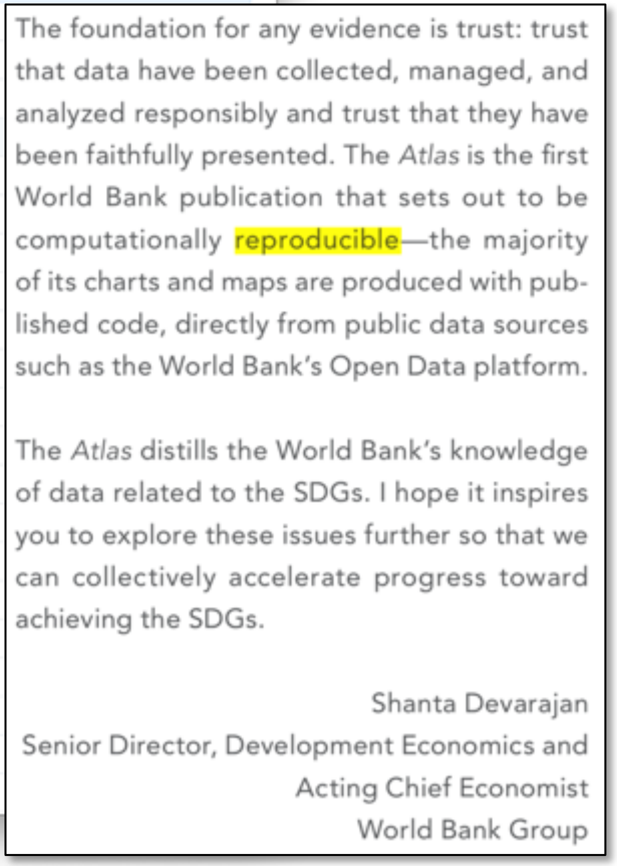
Replication code for the World Bank Atlas of Sustainable Development Goals 2018

9 commits · 1 branch · 0 releases · 1 contributor

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

econandrew Final tweak to data license info — Latest commit 9b480de on May 23, 2018

docs	First clean commit
inputs	Final tweak to data license info
.gitignore	First clean commit
INSTALL.md	Update INSTALL.md
README.md	Merge branch 'master' of github.com:worldbank/sdgatlas2018
about_the_atlas.R	First clean commit
make.R	First clean commit
sdg1.R	First clean commit
sdg10.R	Add notes on data terms.
sdg11.R	First clean commit
sdg12.R	First clean commit
sdg13.R	First clean commit
sdg14.R	First clean commit
sdg15.R	Add notes on data terms.
sdg16.R	First clean commit
sdg17.R	First clean commit
sdg2.R	First clean commit
sdg3.R	Add notes on data terms.
sdg4.R	First clean commit
sdg5.R	First clean commit
sdg6.R	First clean commit



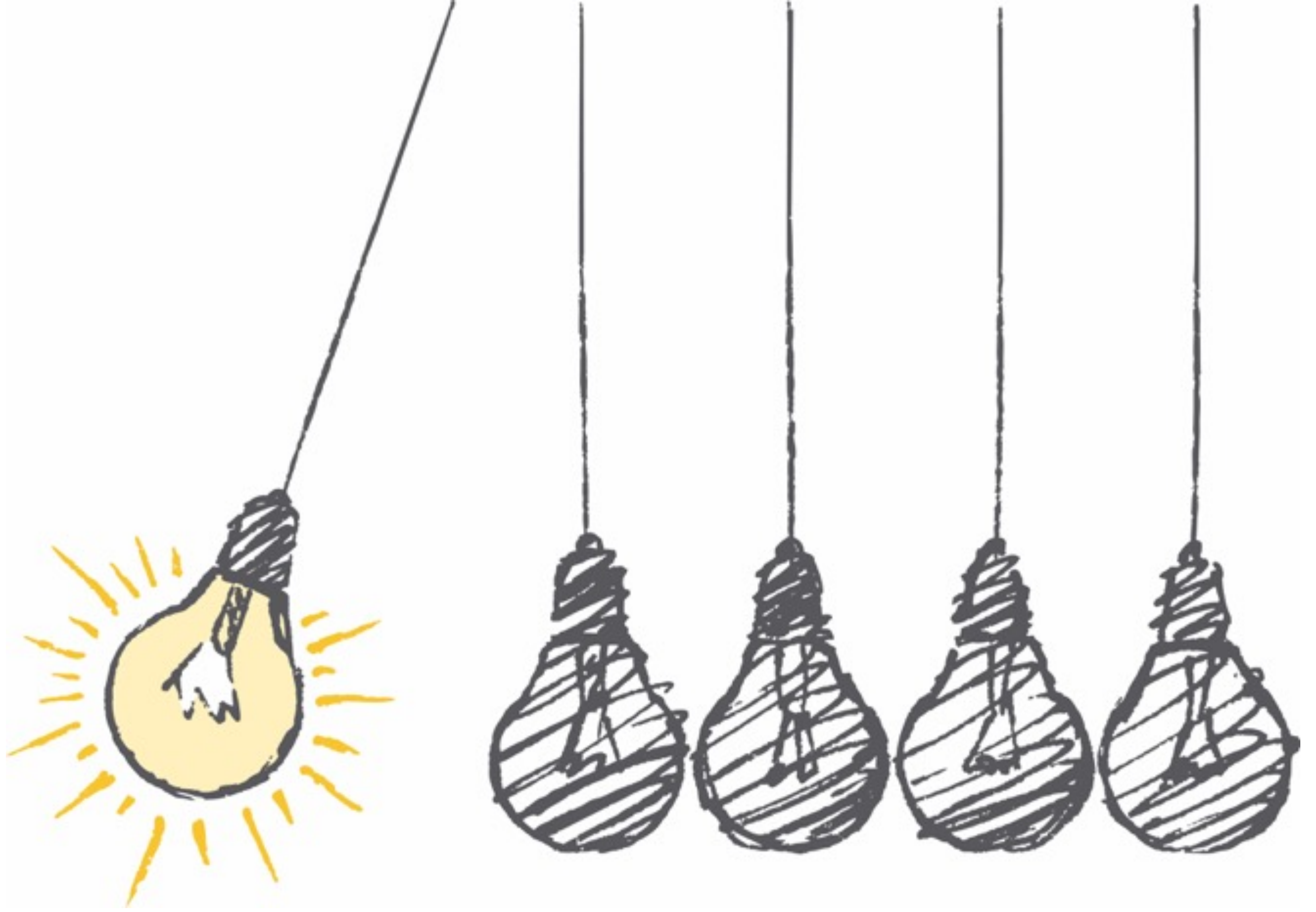
The foundation for any evidence is trust: trust that data have been collected, managed, and analyzed responsibly and trust that they have been faithfully presented. The *Atlas* is the first World Bank publication that sets out to be computationally reproducible—the majority of its charts and maps are produced with published code, directly from public data sources such as the World Bank's Open Data platform.

The *Atlas* distills the World Bank's knowledge of data related to the SDGs. I hope it inspires you to explore these issues further so that we can collectively accelerate progress toward achieving the SDGs.

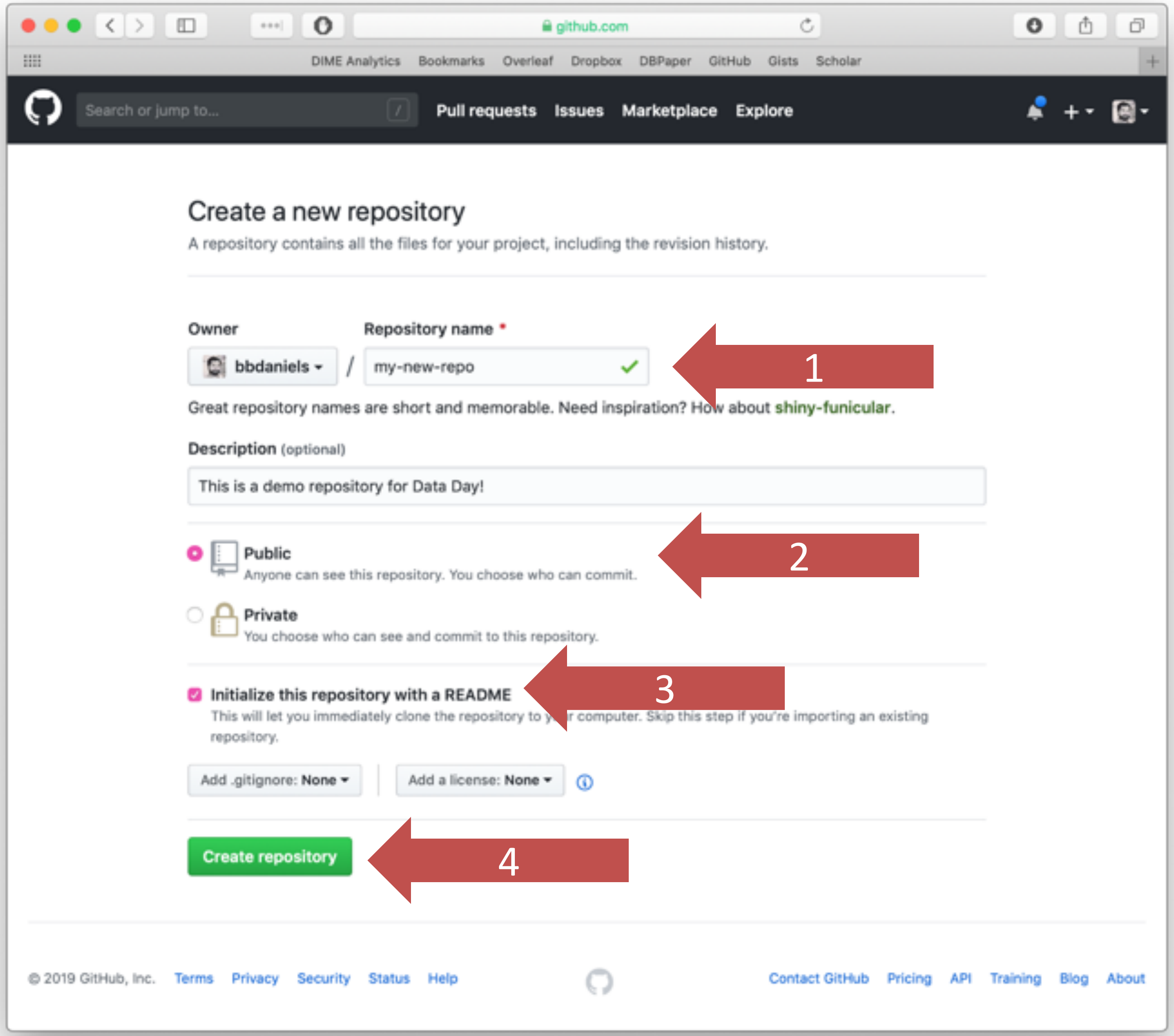
Shanta Devarajan
Senior Director, Development Economics and
Acting Chief Economist
World Bank Group

So how does it *work*?

Part 1: Creating a repository and making commits



Create a new repository on GitHub



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Create a new repository

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

Owner: bbdaniels / Repository name *: my-new-repo

Great repository names are short and memorable. Need inspiration? How about shiny-funicular.

Description (optional): This is a demo repository for Data Day!

[✓ 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

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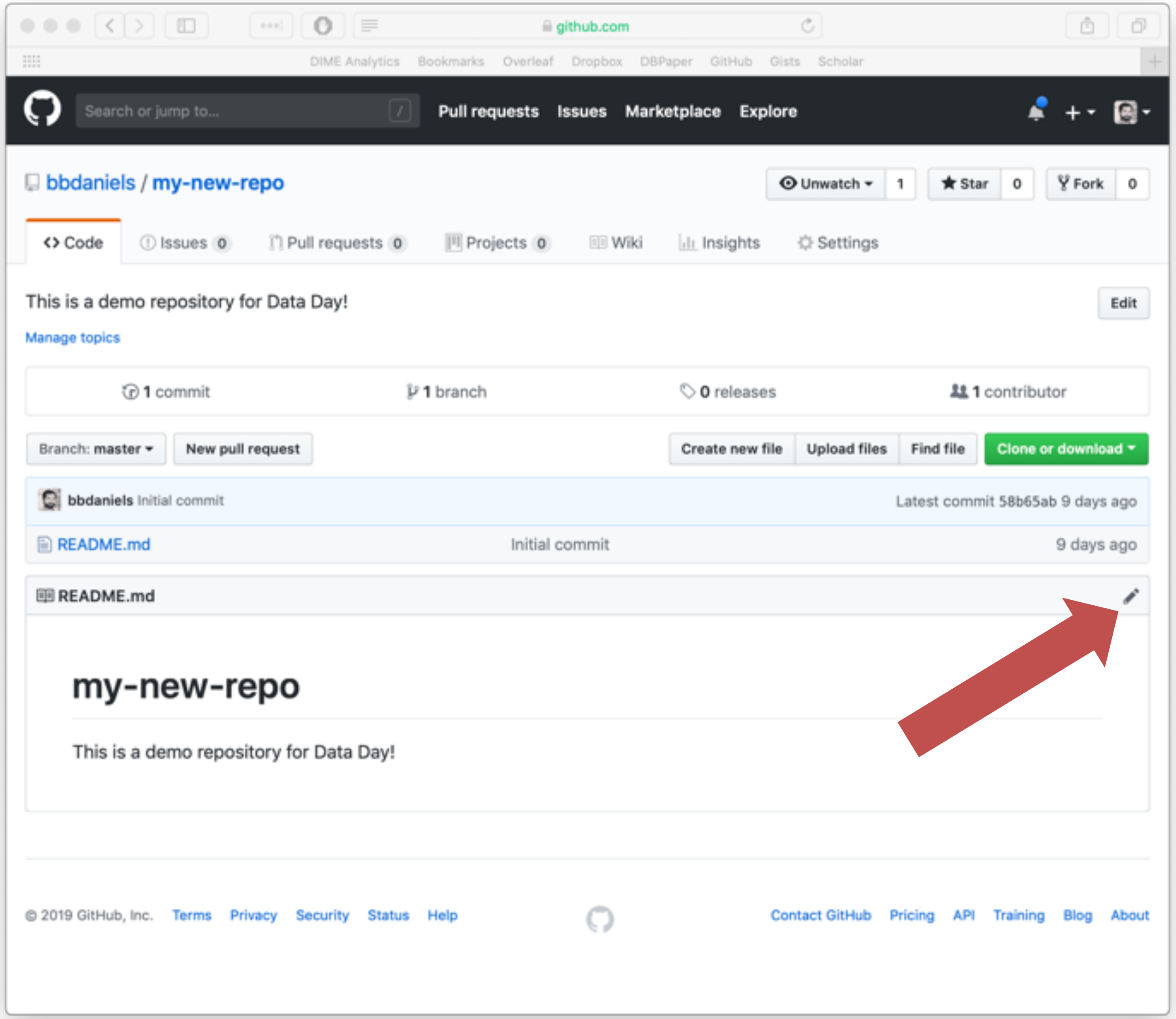
Your repository has a README

README.md is a common filename. In fact, it's so common that if you have one in a folder, GitHub will automatically display its contents when you are browsing that folder.

You should write short READMEs for every folder. Let's edit this one.

Click on the edit button, and add something like your name here.



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Edit
Manage topics
1 commit 1 branch 0 releases 1 contributor
Branch: master New pull request Create new file Upload files Find file Clone or download

This is a demo repository for Data Day!

bbdaniels Initial commit		Latest commit 58b65ab 9 days ago
README.md	Initial commit	9 days ago

README.md

my-new-repo

This is a demo repository for Data Day!

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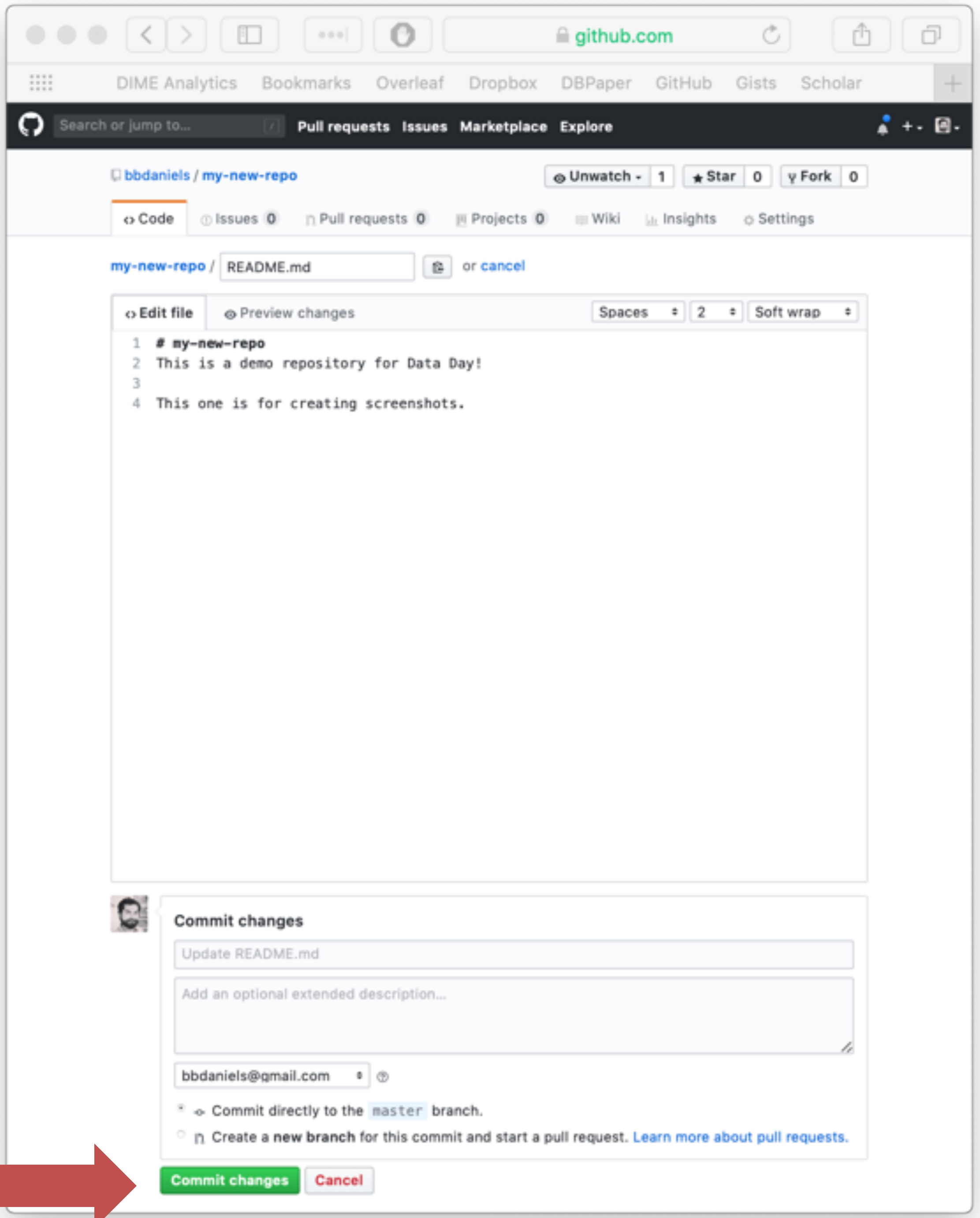
Add some text and "Commit changes"

Unlike a regular editor, the built-in editor on GitHub has no "save" button. "Saving" is not something Git or GitHub know how to do.

Git and GitHub are NOT file managers, or code editors. Therefore you will rarely, if ever, make file changes from within Git or GitHub.

Most people already have a preferred way to edit their files. You can stick to yours without any trouble.



```
# my-new-repo
This is a demo repository for Data Day!

This one is for creating screenshots.
```

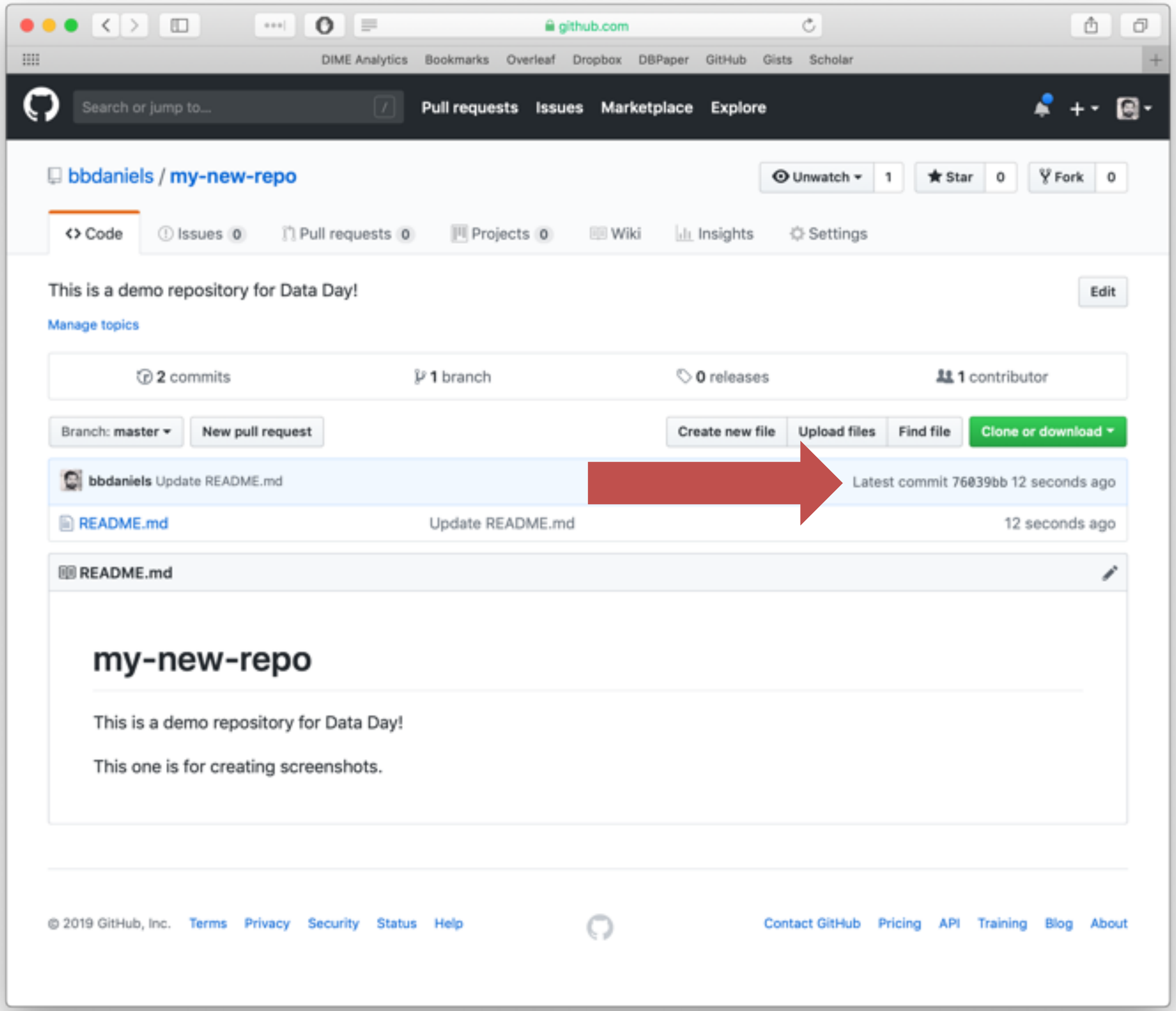
The repo records changes for you

Instead of "saving" the file, you have done something called "committing changes".

By doing that, you have simultaneously:

- Changed the contents of the file reflected by GitHub;
- Recorded when you did it; and
- Noted what you did ("Update README.md")

This is Git fundamental feature #1.


bbdaniels / my-new-repo

This is a demo repository for Data Day!

2 commits · 1 branch · 0 releases · 1 contributor

bbdaniels Update README.md — Latest commit 76039bb 12 seconds ago

README.md — Update README.md — 12 seconds ago

my-new-repo

This is a demo repository for Data Day!

This one is for creating screenshots.

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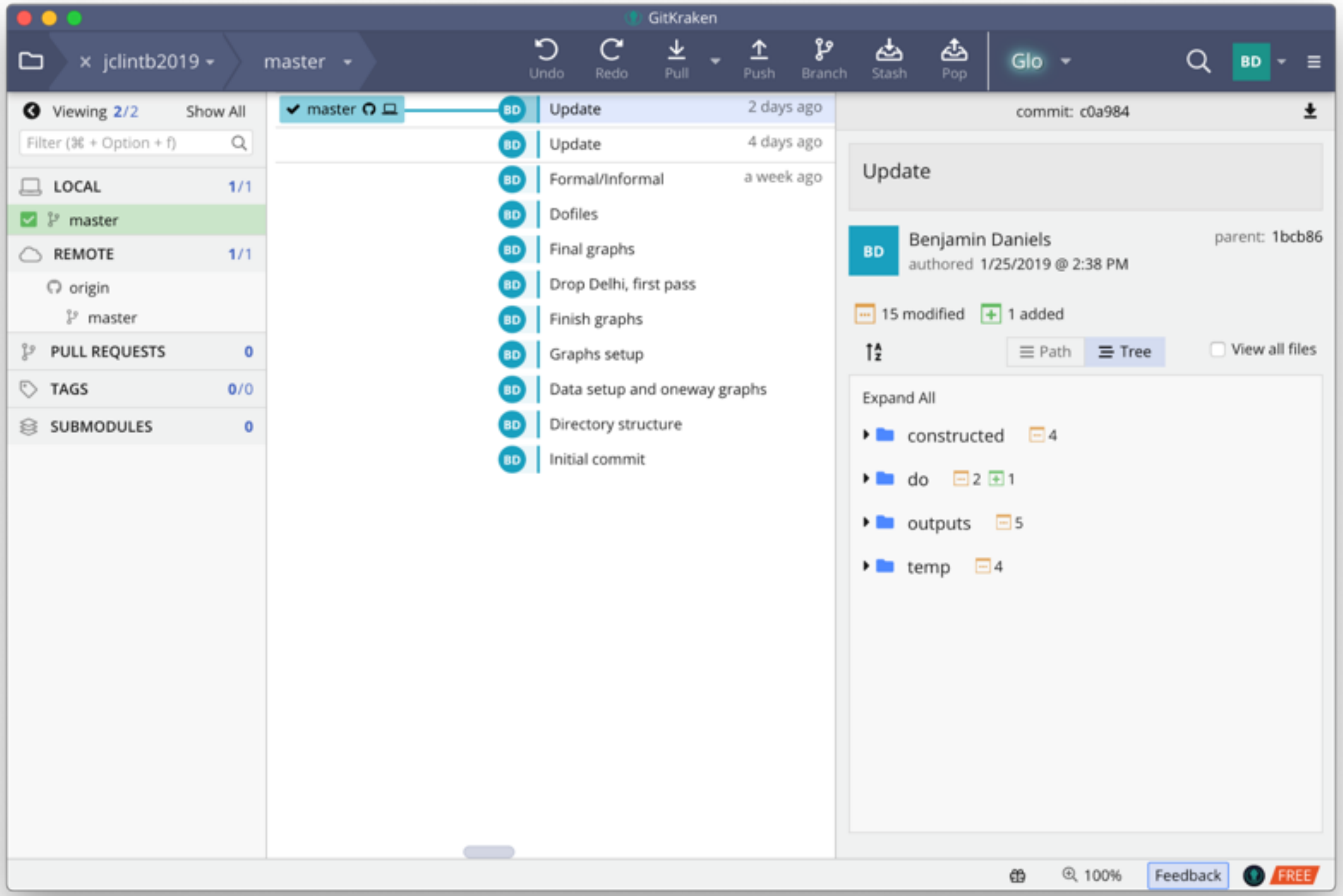
Git creates **commits**

The most important thing Git does is create “commits”.

A commit is a snapshot of the entire working directory. Each commit has a *name* and a *timestamp*.

You have to tell Git when to create new commits. This is probably the biggest difference from whatever you do now.



Update	2 days ago
Update	4 days ago
Formal/Informal	a week ago
Dofiles	
Final graphs	
Drop Delhi, first pass	
Finish graphs	
Graphs setup	
Data setup and oneway graphs	
Directory structure	
Initial commit	

commit: c0a984

Update

Benjamin Daniels
authored 1/25/2019 @ 2:38 PM
parent: 1bcb86

15 modified 1 added

- constructed 4
- do 2 1
- outputs 5
- temp 4

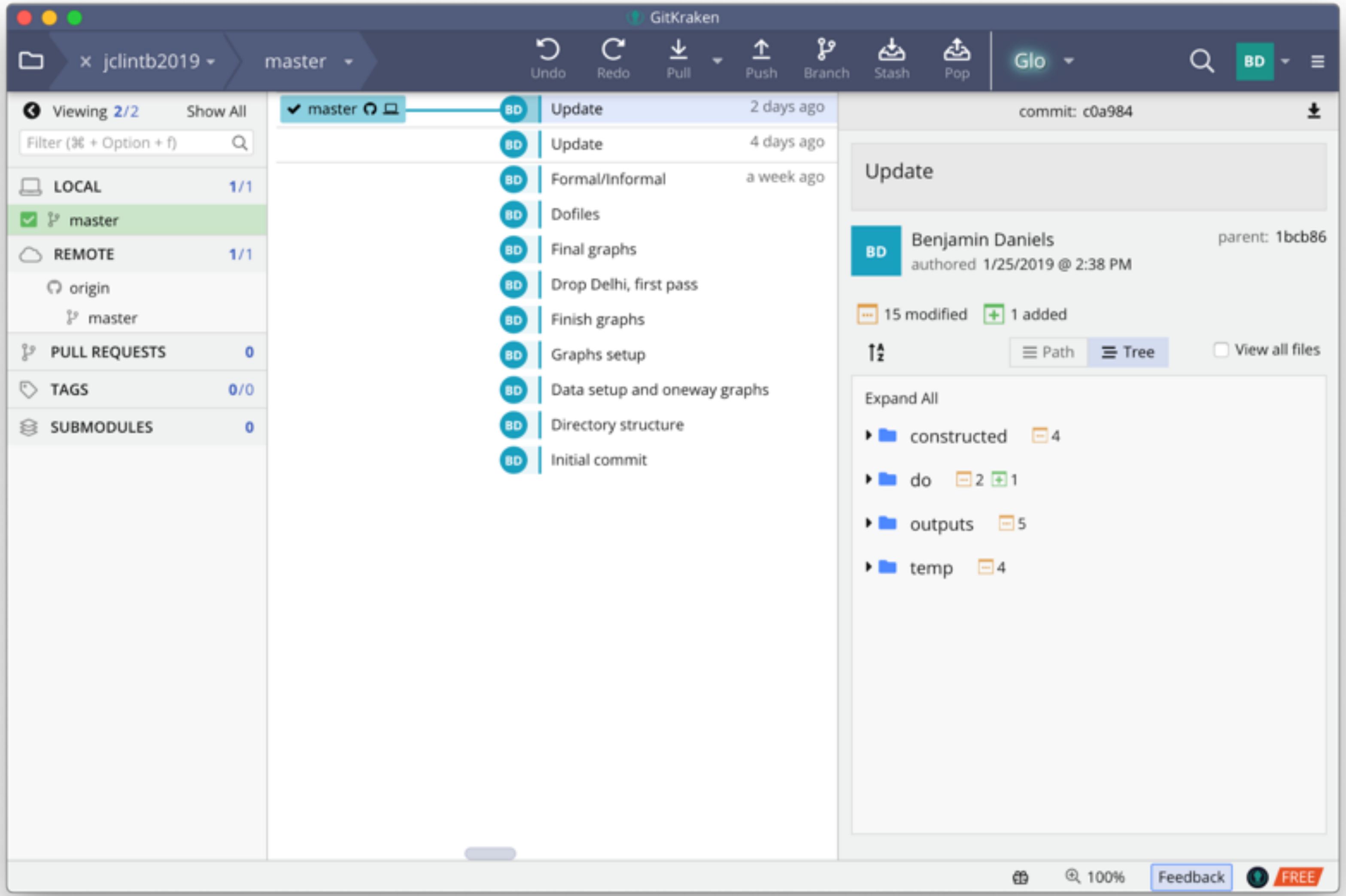
Commits name past versions

Git *watches* your saved changes

But it only *stores* them when you tell it to: this is a "commit"

You can name these so that they make sense and are easy to find when you need them in the future (you *always* need them when you least expect, right?)

Required Reading: Git vs Dropbox
https://michaelstepner.com/blog/git-vs-dropbox



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authored 1/25/2019 @ 2:38 PM
parent: 1bcb86

15 modified 1 added

Path Tree View all files

Expand All
- constructed 4
- do 2 1
- outputs 5
- temp 4

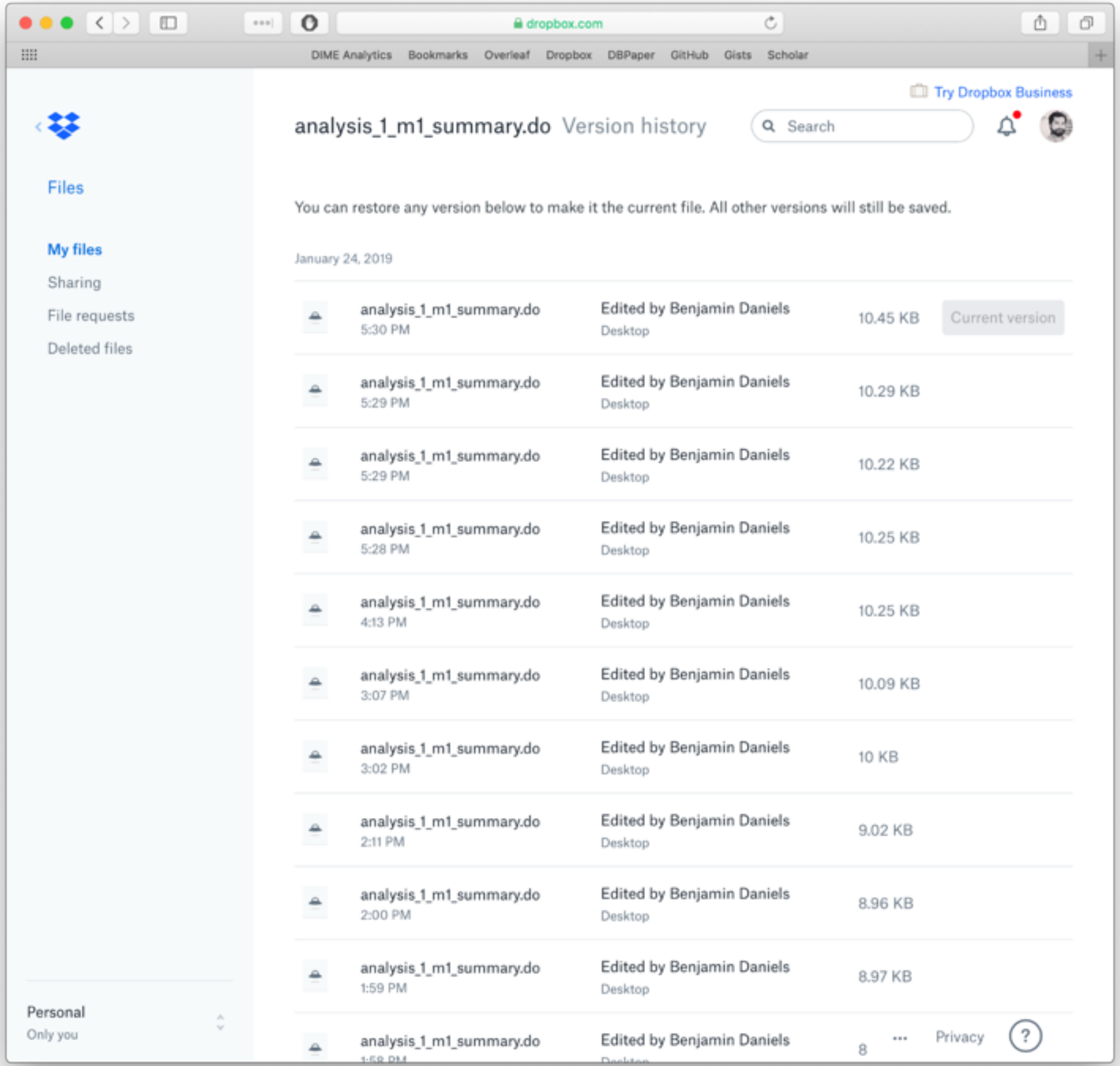
How is that better than Dropbox?

Dropbox stores a new snapshot *every time you save* each file.

You save your work *often* (right?)

So Dropbox stores *many* similar images of your files

But you can't tell which is which!



analysis_1_m1_summary.do Version history

You can restore any version below to make it the current file. All other versions will still be saved.

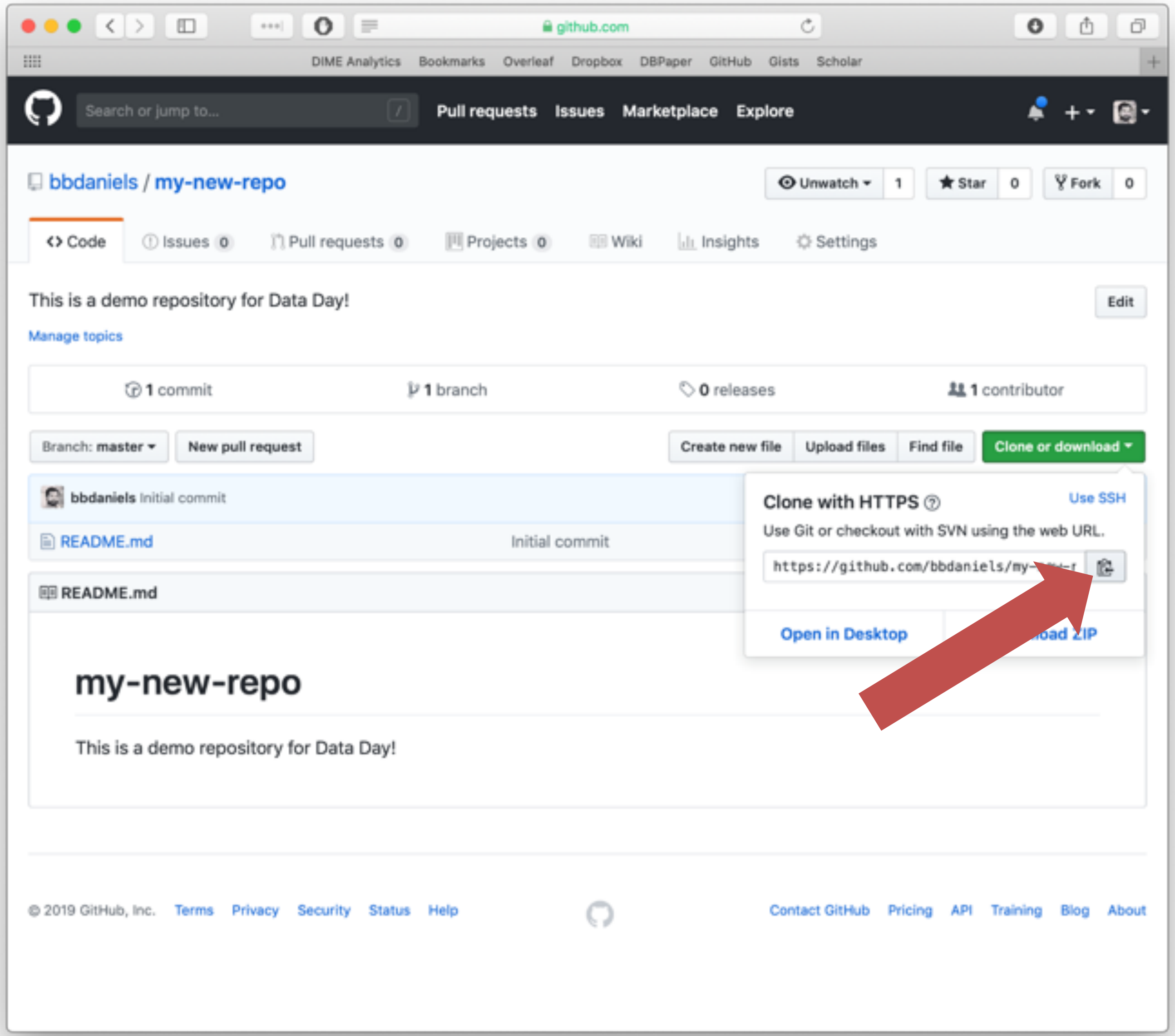
January 24, 2019

analysis_1_m1_summary.do 5:30 PM	Edited by Benjamin Daniels Desktop	10.45 KB	Current version
analysis_1_m1_summary.do 5:29 PM	Edited by Benjamin Daniels Desktop	10.29 KB	
analysis_1_m1_summary.do 5:29 PM	Edited by Benjamin Daniels Desktop	10.22 KB	
analysis_1_m1_summary.do 5:28 PM	Edited by Benjamin Daniels Desktop	10.25 KB	
analysis_1_m1_summary.do 4:13 PM	Edited by Benjamin Daniels Desktop	10.25 KB	
analysis_1_m1_summary.do 3:07 PM	Edited by Benjamin Daniels Desktop	10.09 KB	
analysis_1_m1_summary.do 3:02 PM	Edited by Benjamin Daniels Desktop	10 KB	
analysis_1_m1_summary.do 2:11 PM	Edited by Benjamin Daniels Desktop	9.02 KB	
analysis_1_m1_summary.do 2:00 PM	Edited by Benjamin Daniels Desktop	8.96 KB	
analysis_1_m1_summary.do 1:59 PM	Edited by Benjamin Daniels Desktop	8.97 KB	
analysis_1_m1_summary.do	Edited by Benjamin Daniels	8	

Clone the repo with your desktop client

Cloning the repository makes a complete copy of it at the new location, including the entire history (remember, the repository is the history).

Cloning from GitHub to your local computer is a good way to start a repository.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This is a demo repository for Data Day!

Edit

Manage topics

1 commit 1 branch 0 releases 1 contributor

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

bbdaniels Initial commit

README.md Initial commit

README.md

my-new-repo

This is a demo repository for Data Day!

Clone with HTTPS Use SSH

Use Git or checkout with SVN using the web URL.

https://github.com/bbdaniels/my-

Open in Desktop Download ZIP

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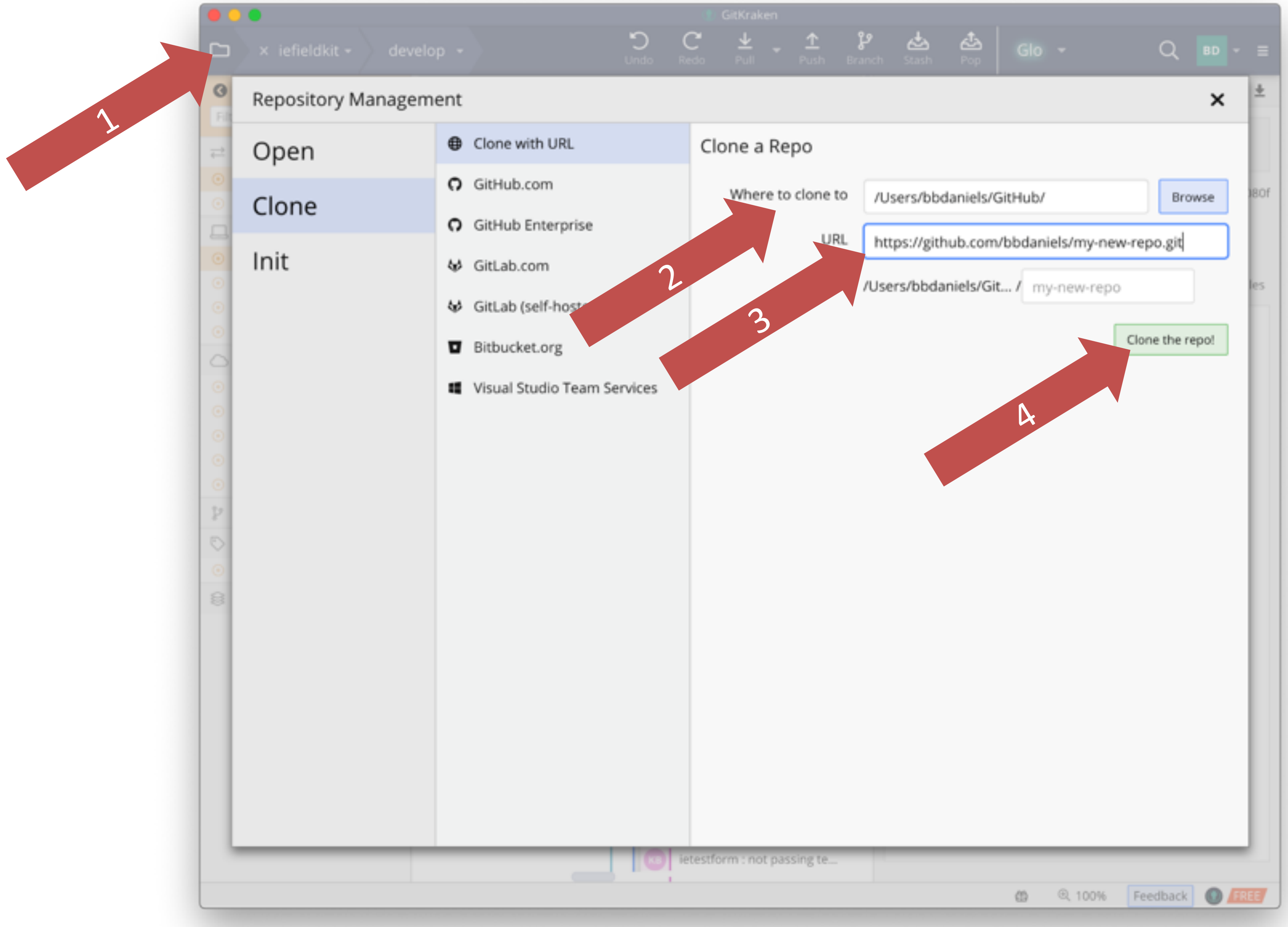
Clone the repo with your desktop client

Cloning the repository makes a complete copy of it at the new location, including the entire history (remember, the repository is the history).

Cloning from GitHub to your local computer is a good way to start a repository.

(I know it seems like a lot of steps now, but this becomes second nature. Bear with me, and use this presentation as a guide!)

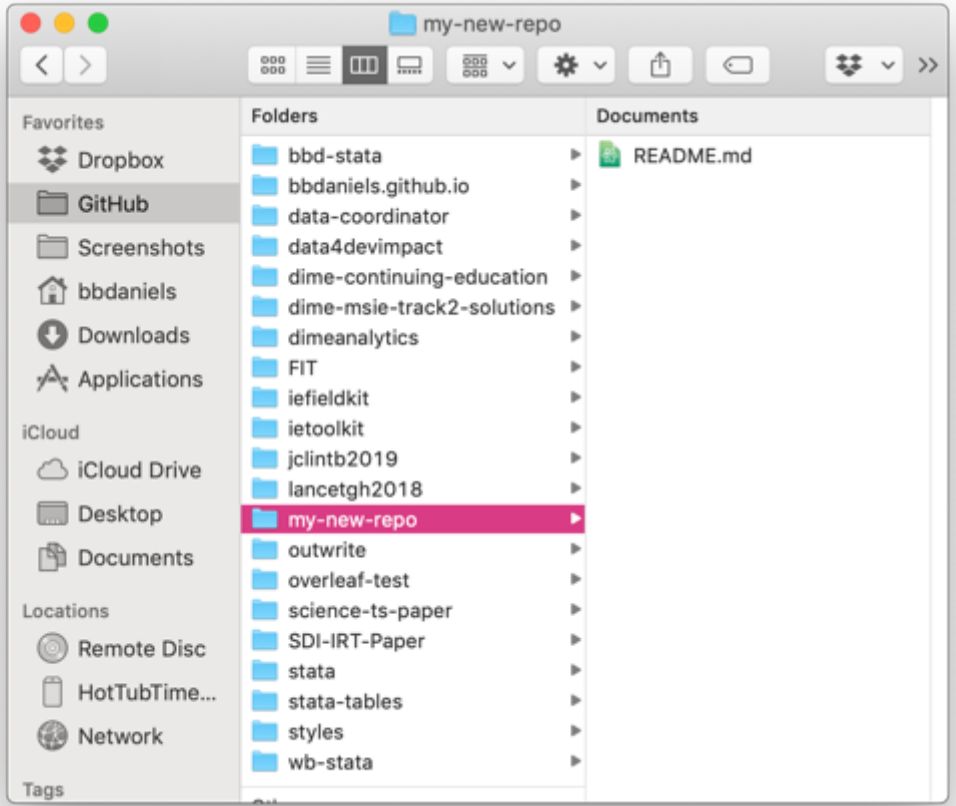


Where to clone to /Users/bbdaniels/GitHub/

URL https://github.com/bbdaniels/my-new-repo.git

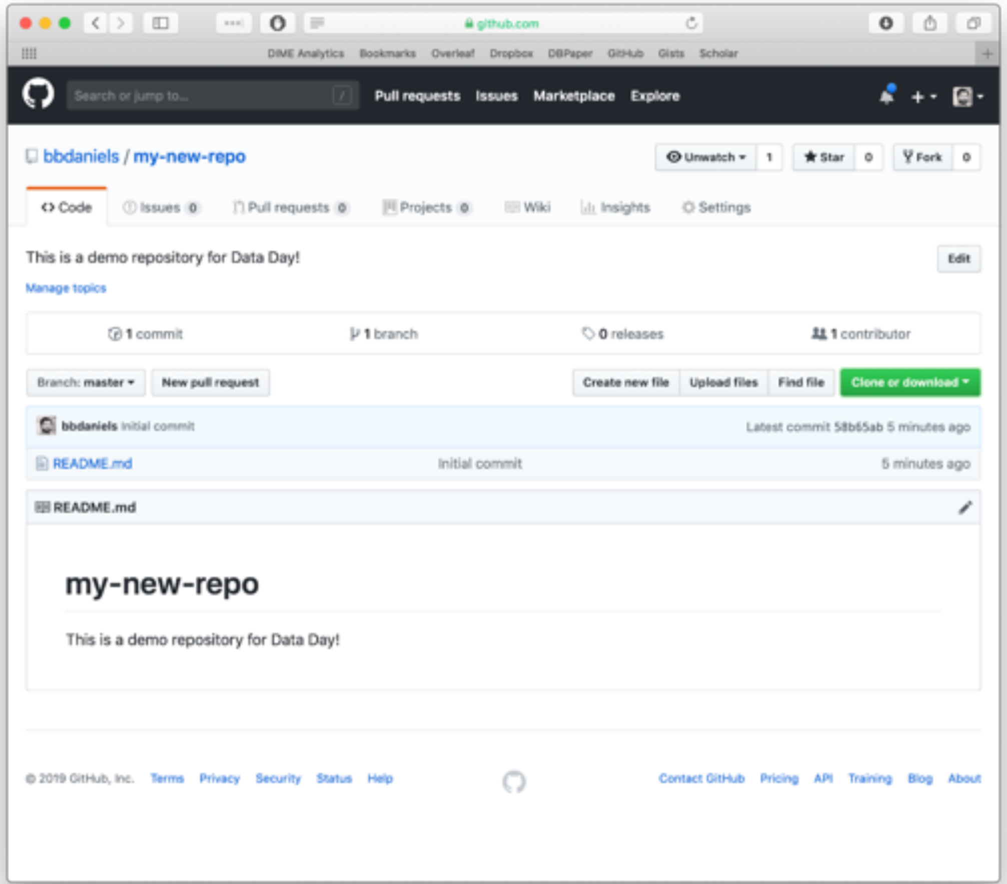
/Users/bbdaniels/Git... / my-new-repo

The “local” and “remote” instances are identical



bbd-stata
bbdaniels.github.io
data-coordinator
data4devimpact
dime-continuing-education
dime-msie-track2-solutions
dimeanalytics
FIT
iefieldkit
ietoolkit
jclintb2019
lancetgh2018
my-new-repo
outwrite
overleaf-test
science-ts-paper
SDI-IRT-Paper
stata
stata-tables
styles
wb-stata

README.md



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bbdaniels / my-new-repo

This is a demo repository for Data Day!

1 commit | 1 branch | 0 releases | 1 contributor

bbdaniels Initial commit — Latest commit 58b65ab 5 minutes ago

README.md — Initial commit — 5 minutes ago

README.md

my-new-repo

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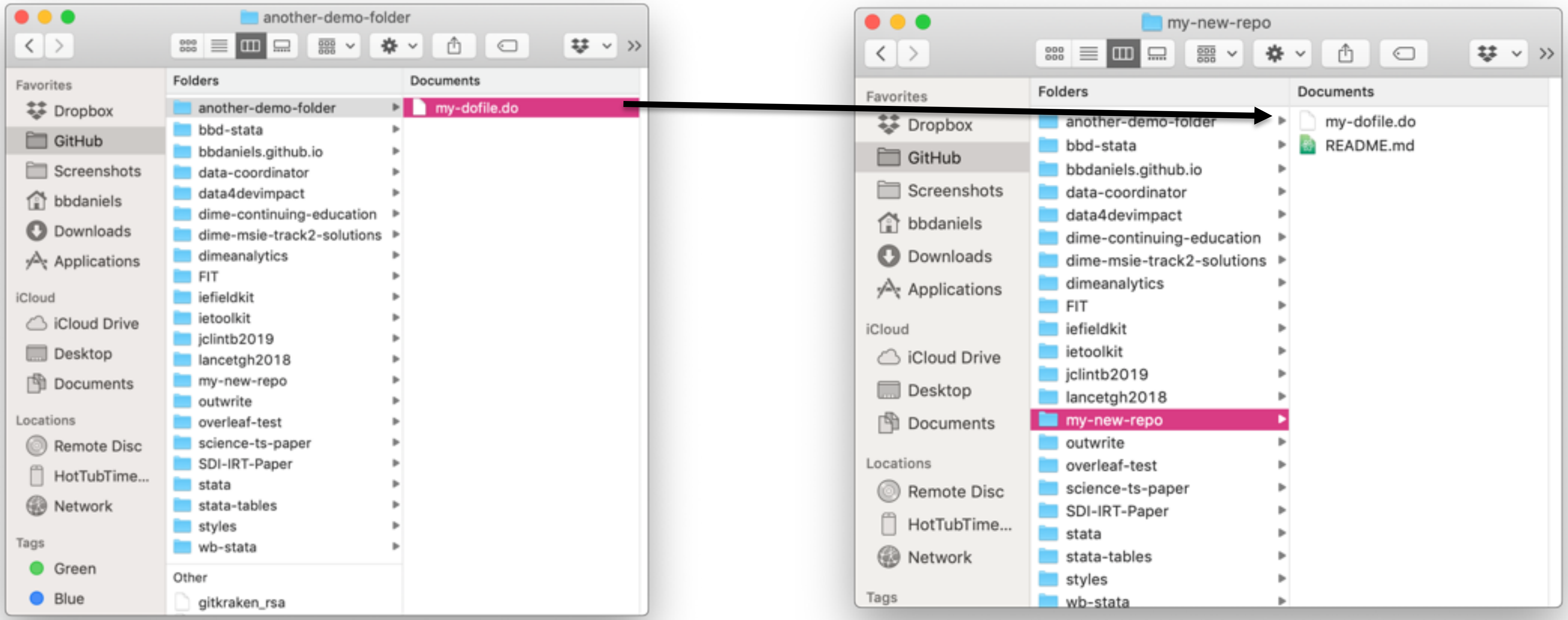
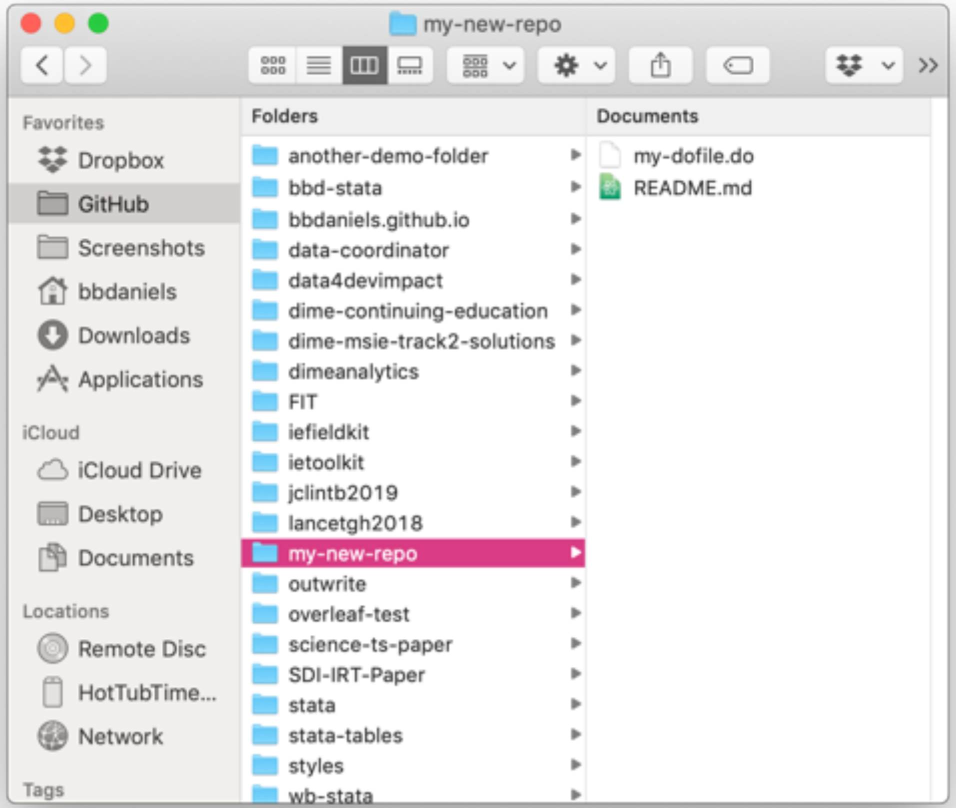
Add some kind of file <u>locally</u>



The local and remote are *not* in sync



my-new-repo

Favorites: Dropbox, GitHub, Screenshots, bbdaniels, Downloads, Applications

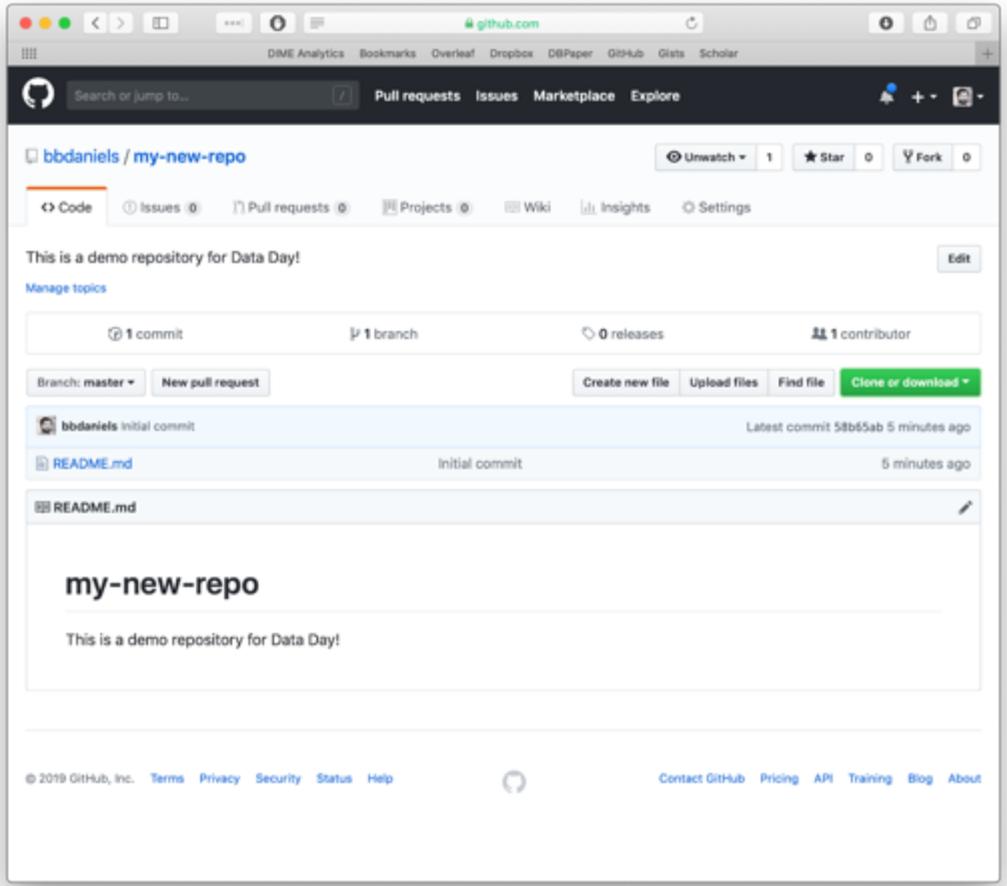
iCloud: iCloud Drive, Desktop, Documents

Locations: Remote Disc, HotTubTime..., Network

Tags

Folders:
- another-demo-folder
- bbd-stata
- bbdaniels.github.io
- data-coordinator
- data4devimpact
- dime-continuing-education
- dime-msie-track2-solutions
- dimeanalytics
- FIT
- iefieldkit
- ietoolkit
- jclintb2019
- lancetgh2018
- my-new-repo
- outwrite
- overleaf-test
- science-ts-paper
- SDI-IRT-Paper
- stata
- stata-tables
- styles
- wb-stata

Documents:
- my-dofile.do
- README.md



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1 commit 1 branch 0 releases 1 contributor

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

bbdaniels Initial commit   Latest commit 58b65ab 5 minutes ago

README.md   Initial commit   5 minutes ago

README.md

my-new-repo

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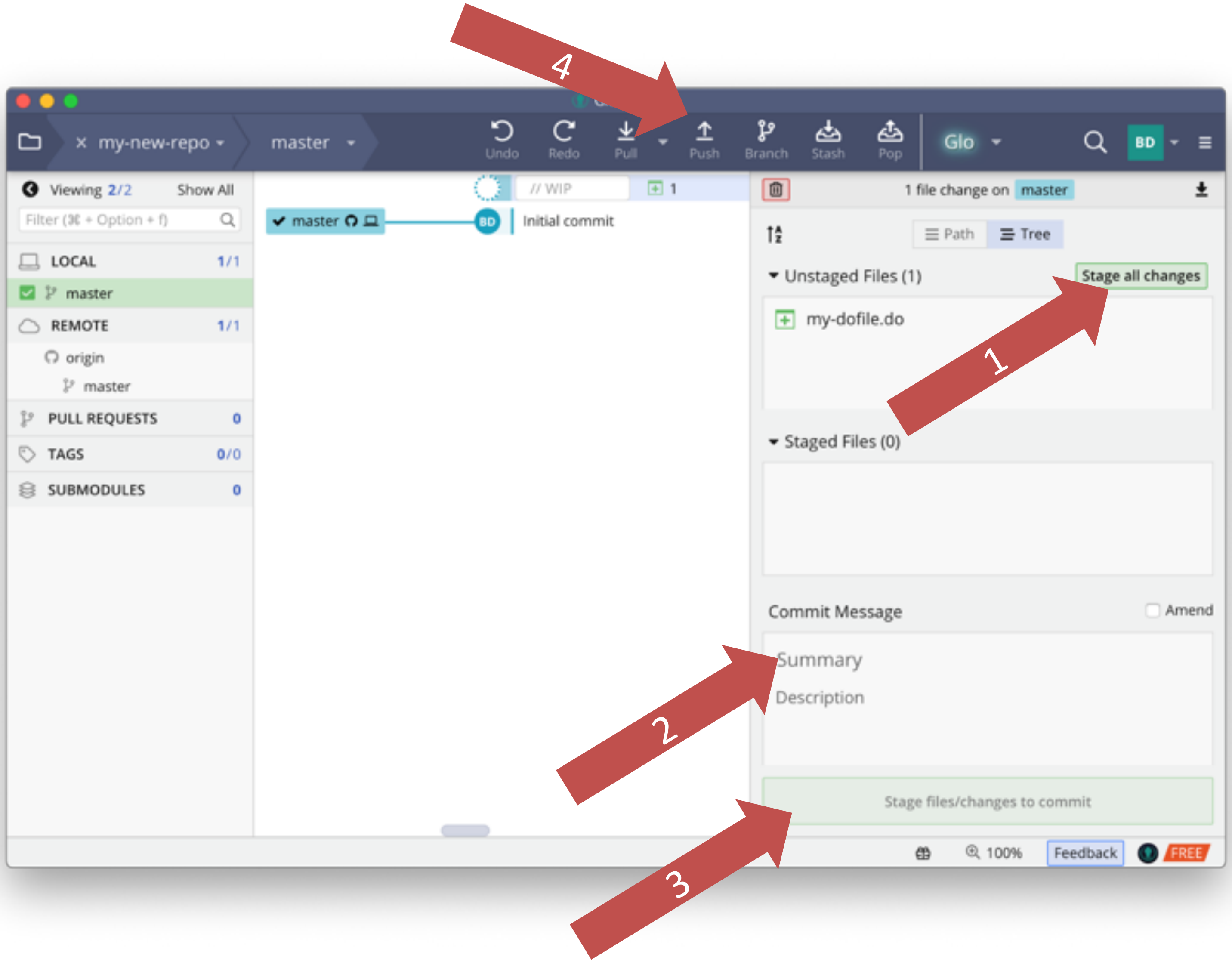
Git notes changes as "work in progress"

1. "Stage" your changes to add them to the queue to be committed.

2. "Name" your changes informatively – a short sentence will do nicely.

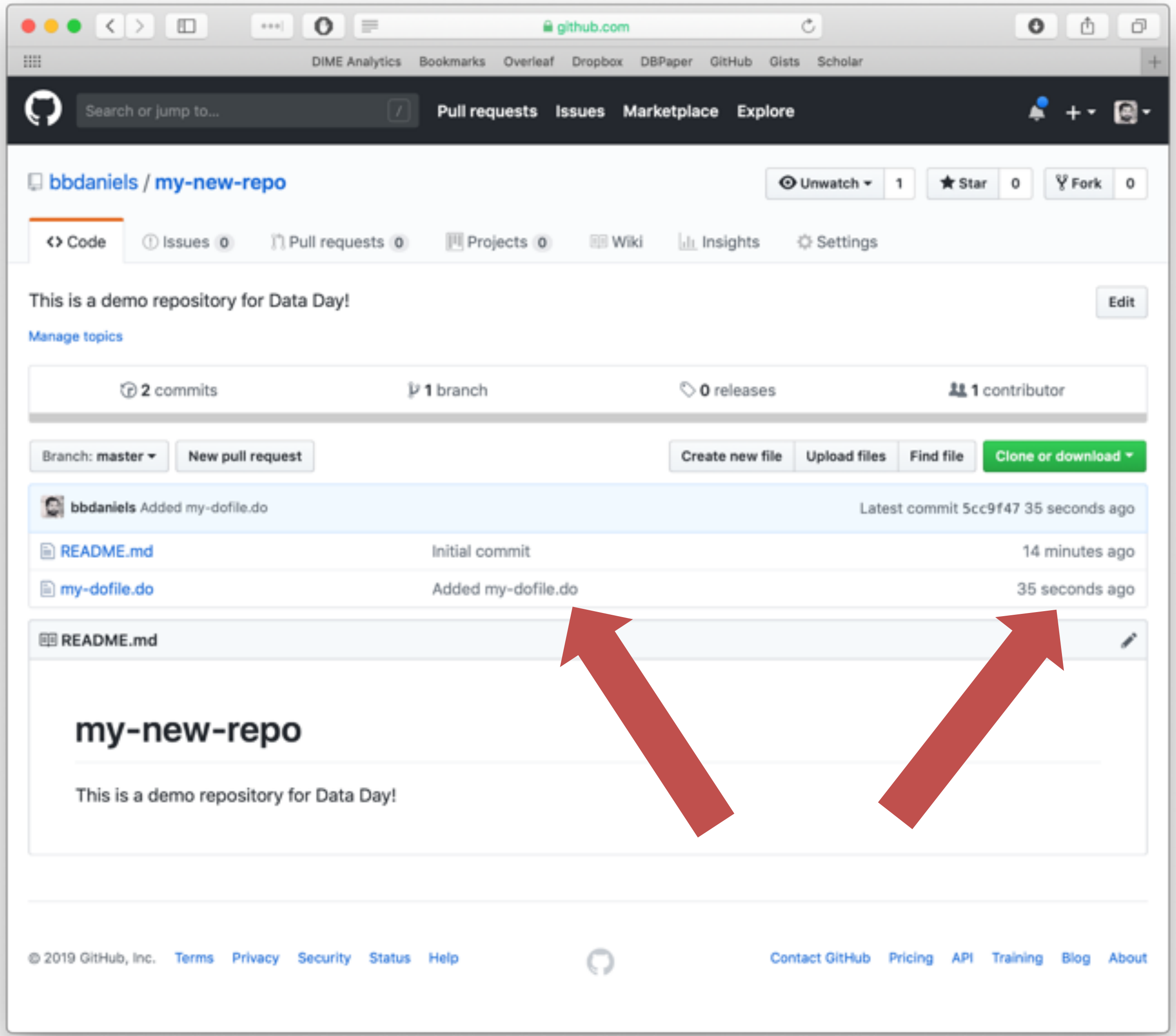
3. "Commit" your changes to add them to the version history. You will see the local copy of the repository move ahead of the GitHub (remote) copy.

4. "Push" your changes to sync the remote (GitHub) repository with your local copy.



The local and remote are in sync

Each item records when it was last modified – using the corresponding name and timestamp form the commit that modified it.



bbdaniels / my-new-repo

This is a demo repository for Data Day!

2 commits | 1 branch | 0 releases | 1 contributor

bbdaniels Added my-dofile.do — Latest commit 5cc9f47 35 seconds ago

README.md	Initial commit	14 minutes ago
my-dofile.do	Added my-dofile.do	35 seconds ago

README.md

my-new-repo

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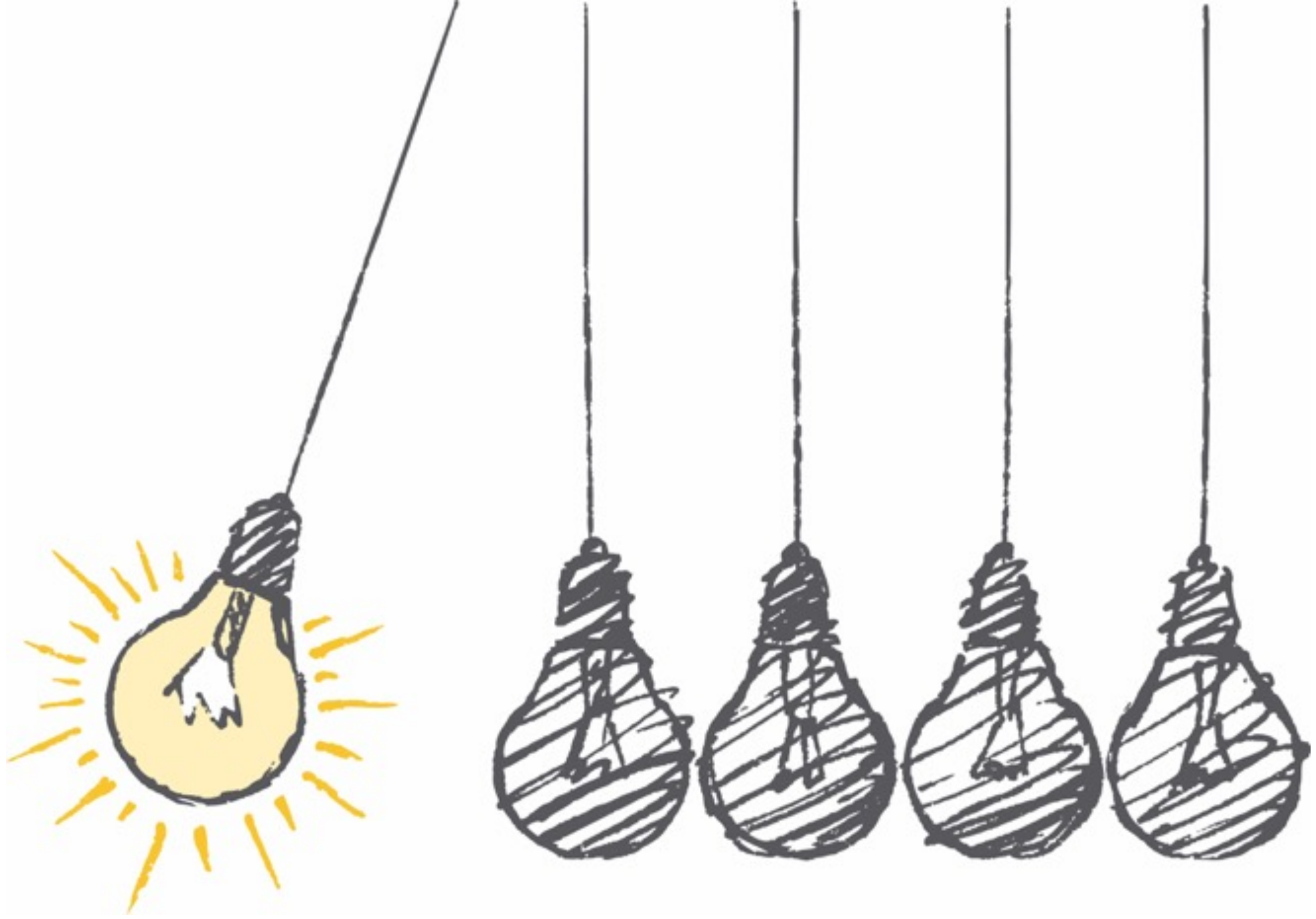
So how does it *work*?

Part 2: Creating branches in a repository

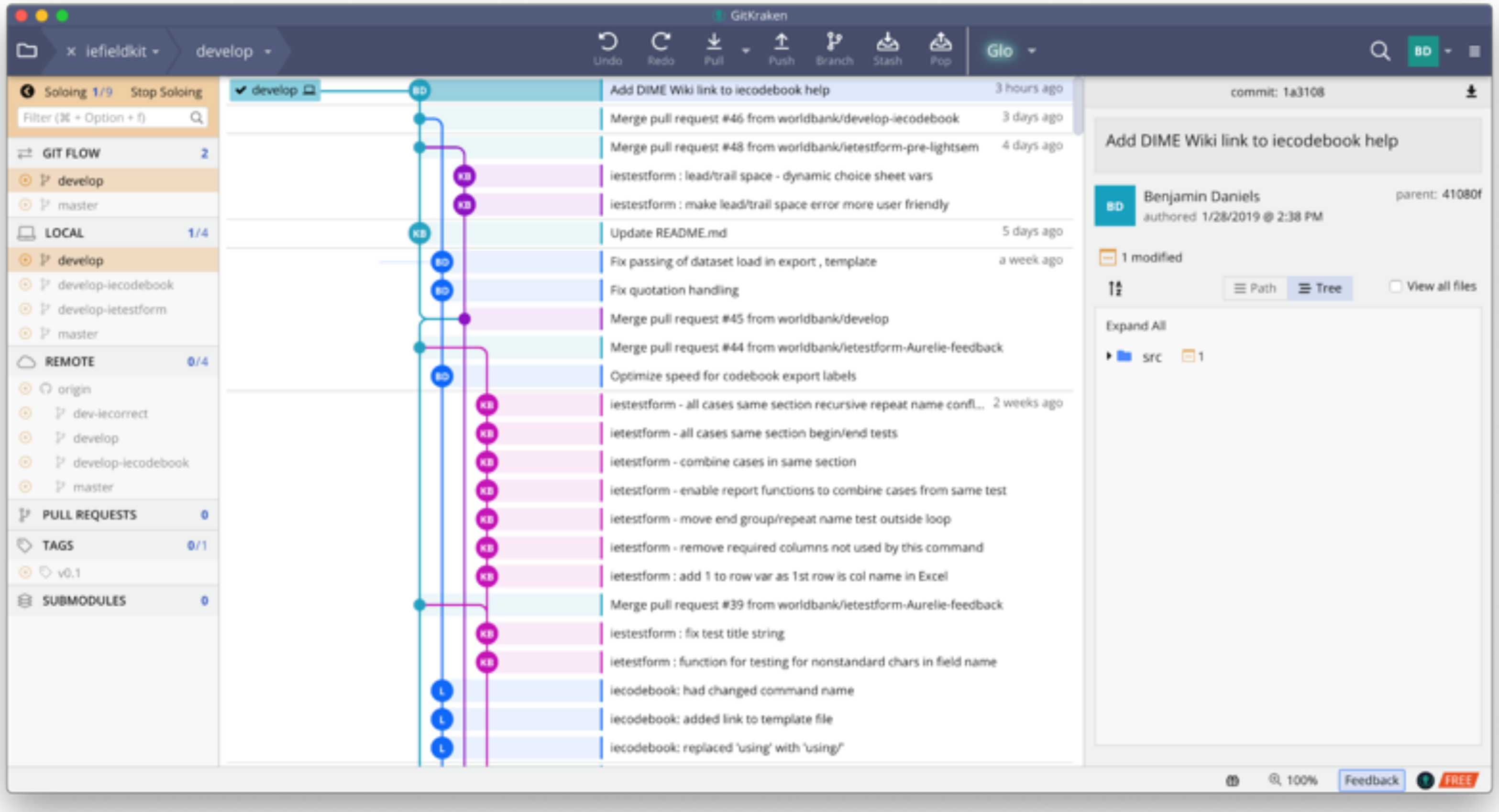


Git creates **branches**

Branches are the “killer feature” of Git. Nearly every advanced Git usage you learn will be about how to manage branches.

Branches enable different people to work on the same thing at the same time, and they enable you to view different versions of your files.

Branching allows you to move forwards or backwards in time; and to move “horizontally” in time through various concurrent versions.



Add DIME Wiki link to iecodebook help	3 hours ago
Merge pull request #46 from worldbank/develop-iecodebook	3 days ago
Merge pull request #48 from worldbank/ietestform-pre-lightsem	4 days ago
iestestform : lead/trail space - dynamic choice sheet vars	
iestestform : make lead/trail space error more user friendly	
Update README.md	5 days ago
Fix passing of dataset load in export , template	a week ago
Fix quotation handling	
Merge pull request #45 from worldbank/develop	
Merge pull request #44 from worldbank/ietestform-Aurelie-feedback	
Optimize speed for codebook export labels	
iestestform - all cases same section recursive repeat name confl...	2 weeks ago
ietestform - all cases same section begin/end tests	
ietestform - combine cases in same section	
ietestform - enable report functions to combine cases from same test	
ietestform - move end group/repeat name test outside loop	
ietestform - remove required columns not used by this command	
ietestform : add 1 to row var as 1st row is col name in Excel	
Merge pull request #39 from worldbank/ietestform-Aurelie-feedback	
iestestform : fix test title string	
ietestform : function for testing for nonstandard chars in field name	
iecodebook: had changed command name	
iecodebook: added link to template file	
iecodebook: replaced 'using' with 'using/'	

commit: 1a3108

Add DIME Wiki link to iecodebook help

Benjamin Daniels
authored 1/28/2019 @ 2:38 PM
parent: 41080f

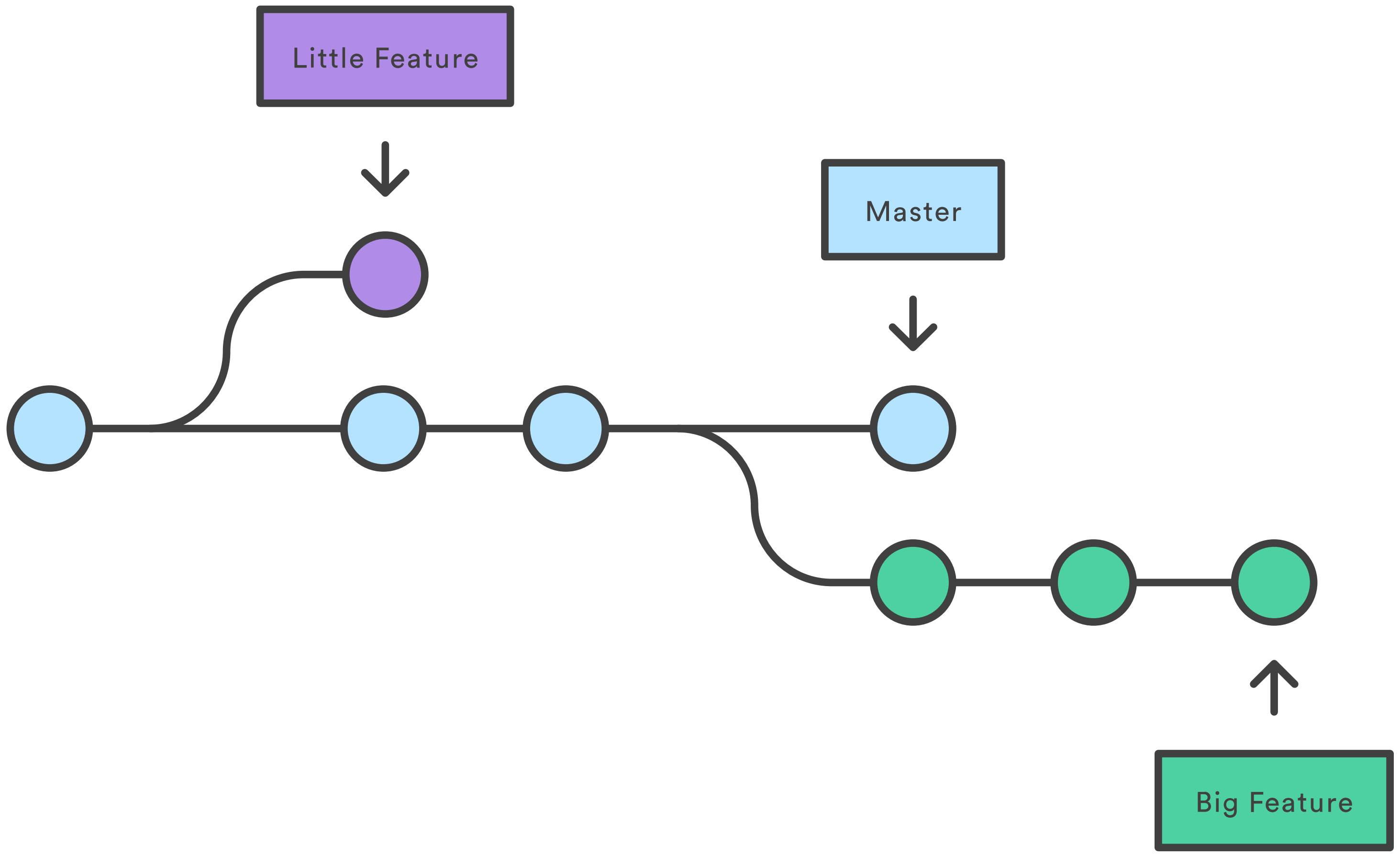
1 modified

Branches name current versions

Each “branch” points to a commit, usually the latest version in some development workflow. You can switch between branches *locally*. When you do, your working directory will look exactly as it did when that commit was made.

Every contributor can be on any branch they like at any time – past or current.

This means various experimental changes can be made simultaneously without affecting the current edition of a product.

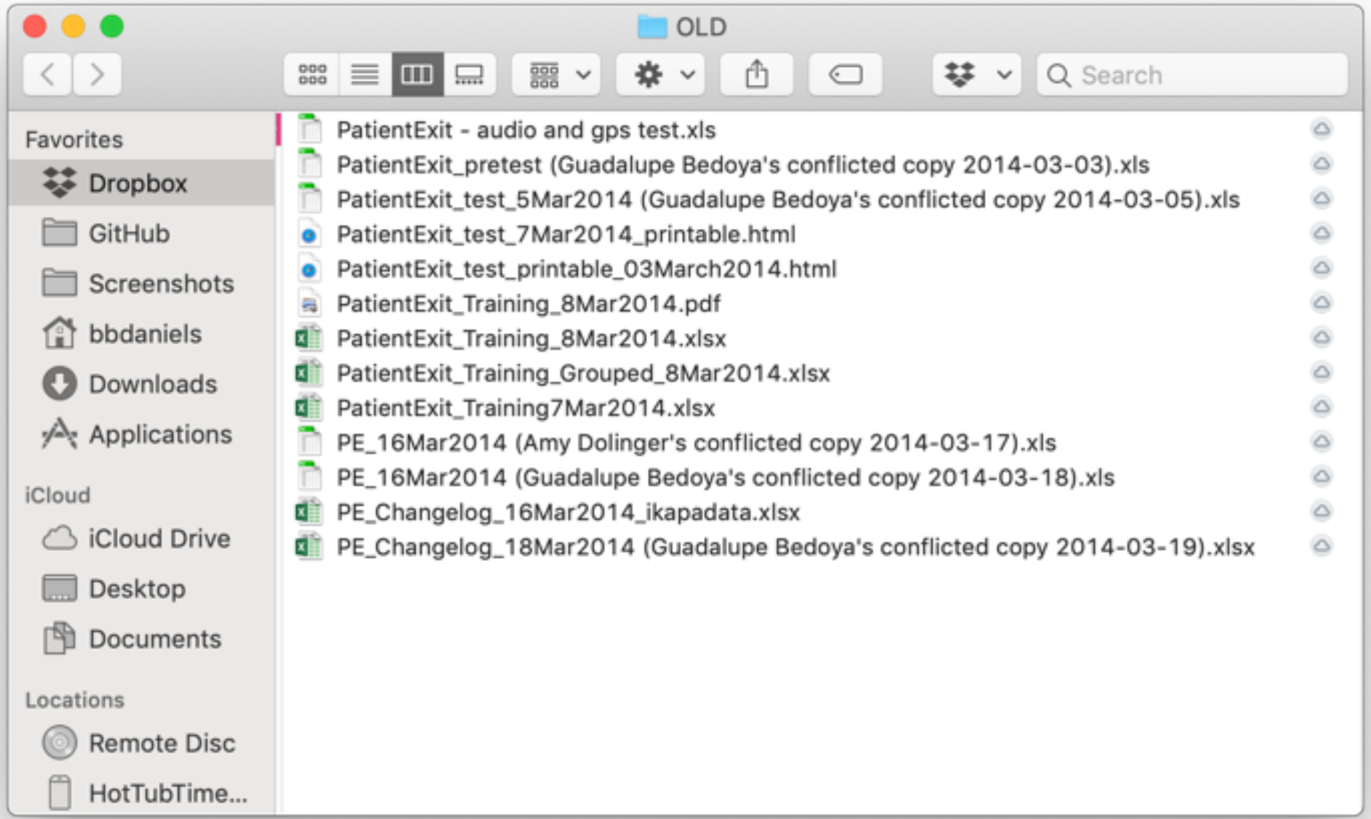


How is that better than Dropbox?

In Dropbox, there can be only *one* living version of a file at any time – otherwise a "conflicted copy" is created. This means nobody can edit the same file at the same time: Dropbox has no concurrency.

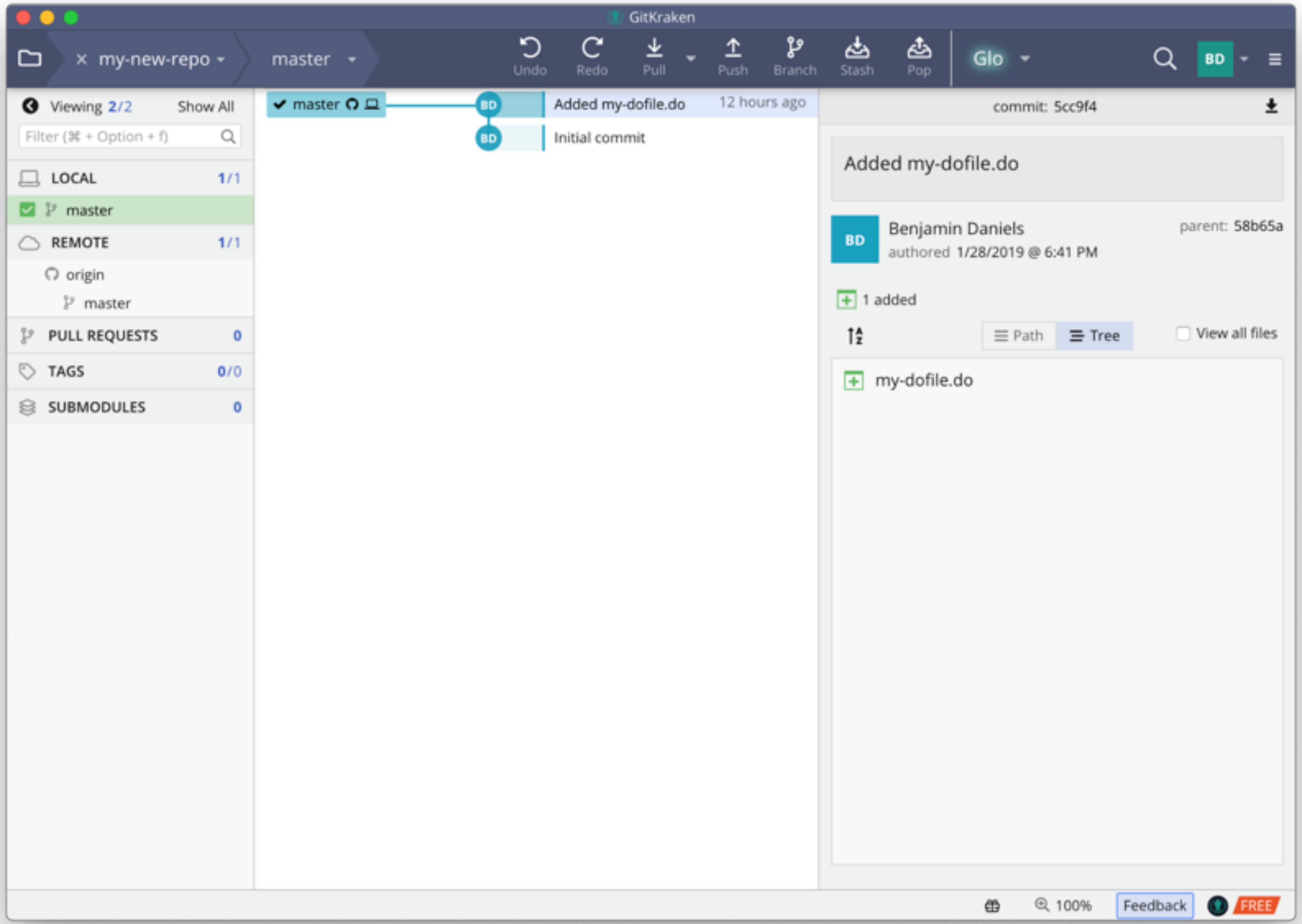
Worse, if you "roll back" a file to a previous version to see what it looked like, this affects everyone's *current* version, even if you don't want it to.

Finally, Dropbox versions are costly (computationally) – so they delete them often without telling you.



PatientExit - audio and gps test.xls
PatientExit_pretest (Guadalupe Bedoya's conflicted copy 2014-03-03).xls
PatientExit_test_5Mar2014 (Guadalupe Bedoya's conflicted copy 2014-03-05).xls
PatientExit_test_7Mar2014_printable.html
PatientExit_test_printable_03March2014.html
PatientExit_Training_8Mar2014.pdf
PatientExit_Training_8Mar2014.xlsx
PatientExit_Training_Grouped_8Mar2014.xlsx
PatientExit_Training7Mar2014.xlsx
PE_16Mar2014 (Amy Dolinger's conflicted copy 2014-03-17).xls
PE_16Mar2014 (Guadalupe Bedoya's conflicted copy 2014-03-18).xls
PE_Changelog_16Mar2014_ikapadata.xlsx
PE_Changelog_18Mar2014 (Guadalupe Bedoya's conflicted copy 2014-03-19).xlsx

Open your repository in GitKraken



Added my-dofile.do 12 hours ago
Initial commit

commit: 5cc9f4

Added my-dofile.do

Benjamin Daniels
authored 1/28/2019 @ 6:41 PM
parent: 58b65a

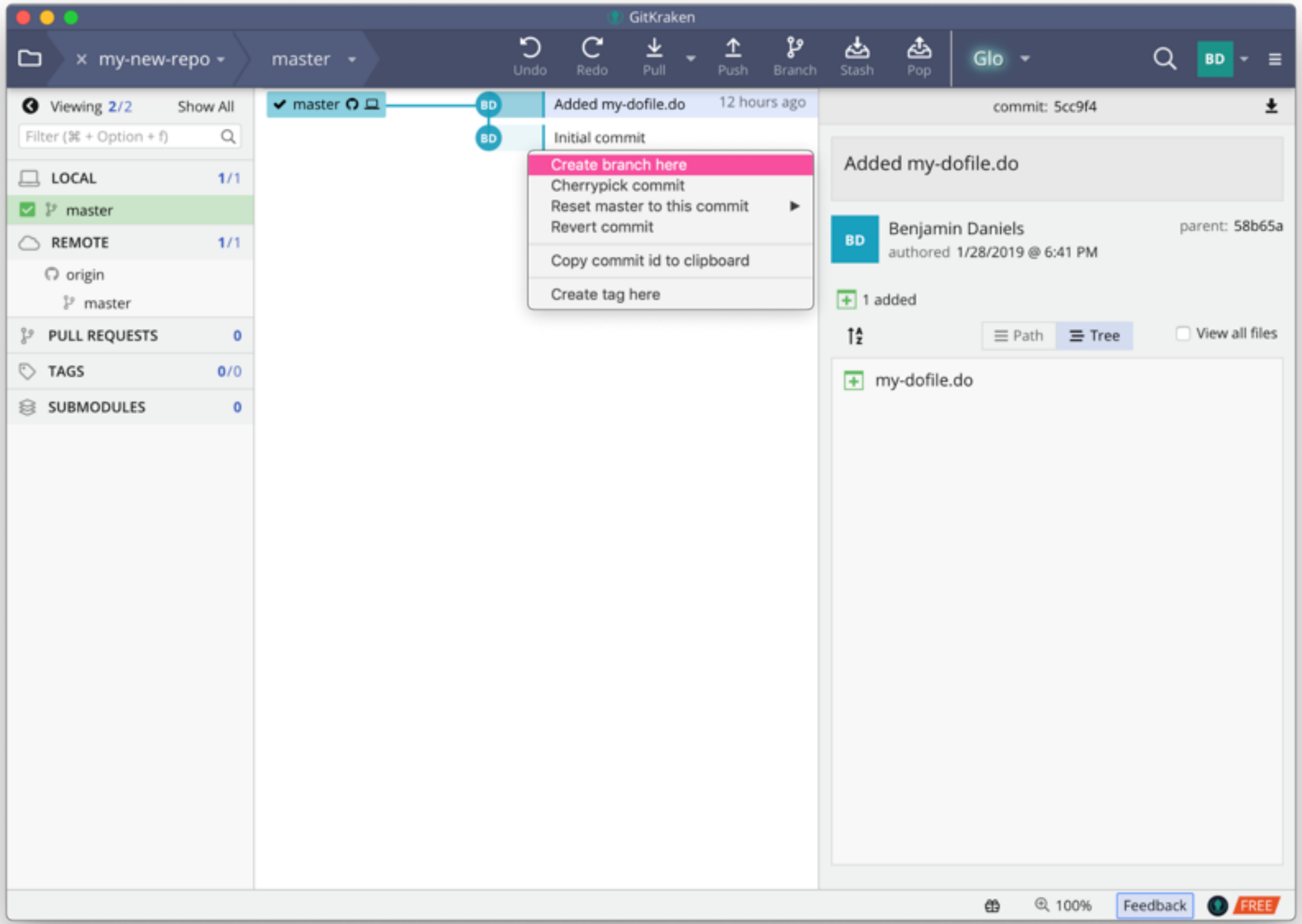
1 added

my-dofile.do

Create a branch called *develop*

The name *develop* is a common name for a second branch. In one popular workflow model, *master* always holds a released product, and *develop* is the workstream for the next version.

Right-click on the commit named “Initial commit”, and select “Create branch here”.



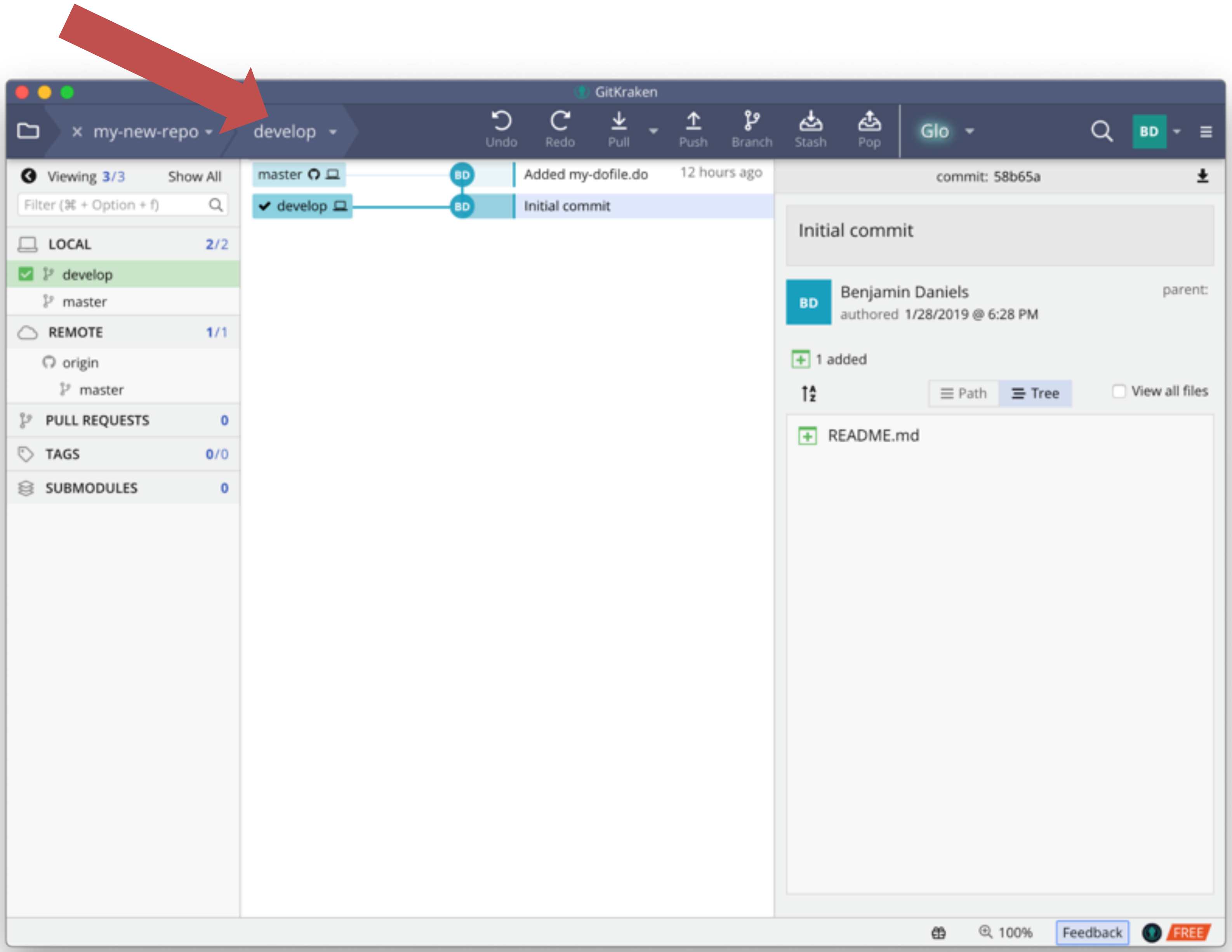
Open your repository in GitKraken

You should now see that the *develop* branch is “checked out” in this repo.

You should also see that the *develop* branch “points to” the “Initial commit”.

What does that mean?

It means that you have used Git to set your working directory to reflect the state recorded in the “Initial commit”. Go check!



Added my-dofile.do 12 hours ago

Initial commit

commit: 58b65a

Initial commit

Benjamin Daniels
authored 1/28/2019 @ 6:28 PM
parent:

1 added

Path Tree View all files

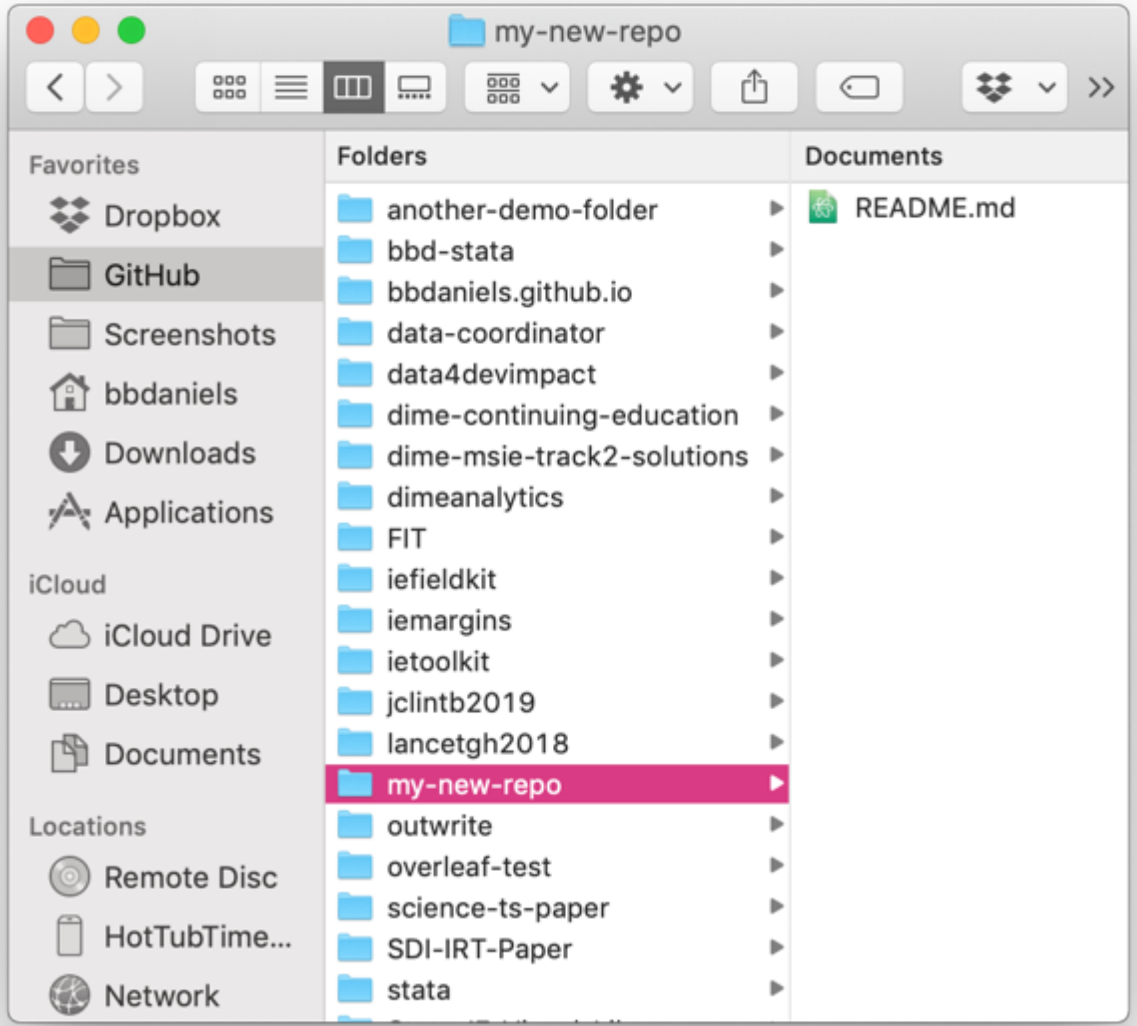
README.md

Where’s my file?

If you look in the working directory associated with “my-new-repo”, you will see that it is exactly in the state it was when you initialized it.

Don’t ask where your file “is”. You really don’t need to know.

What you do need to know is that by “checking out” the *master* branch, it will be in the working directory again. Try it!

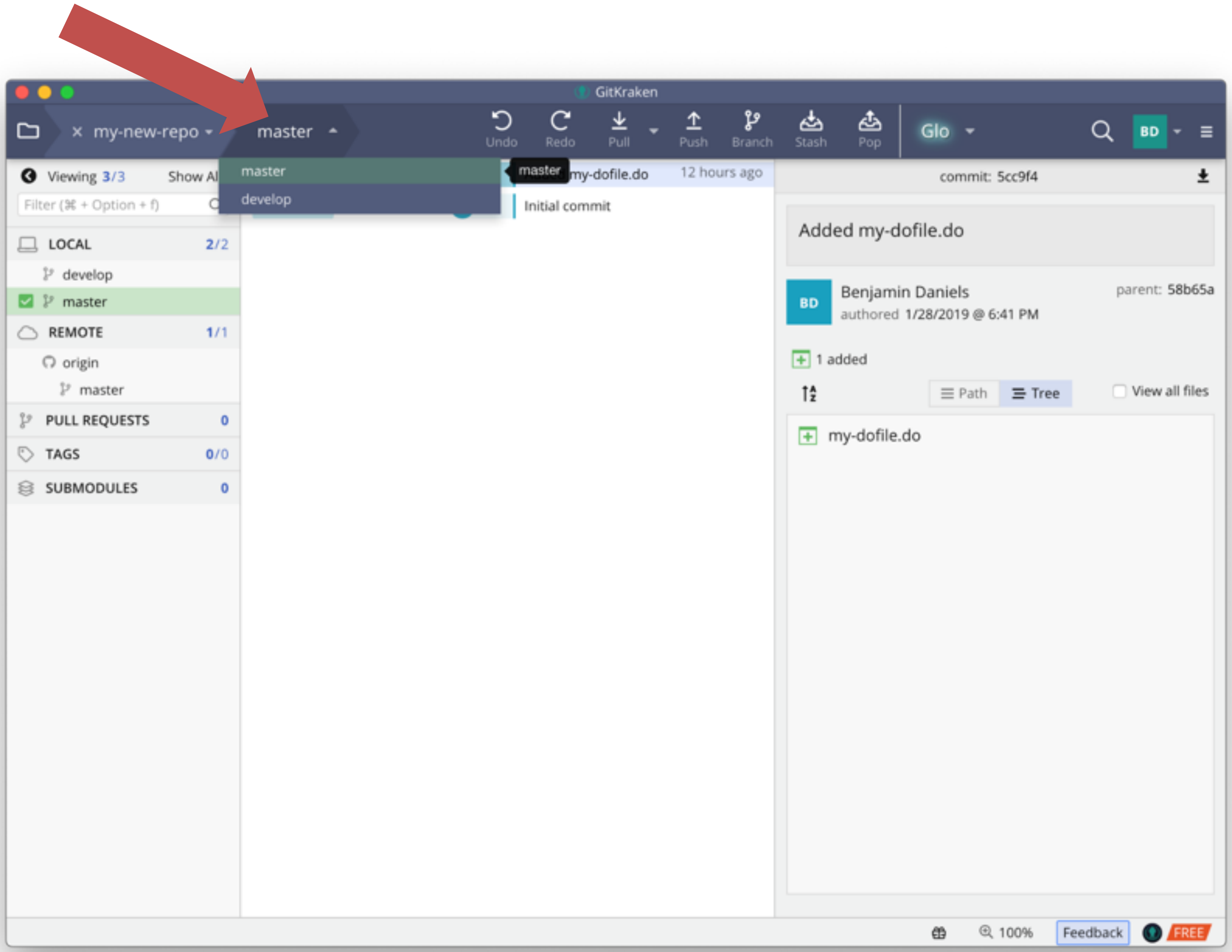


Check out the *master* branch

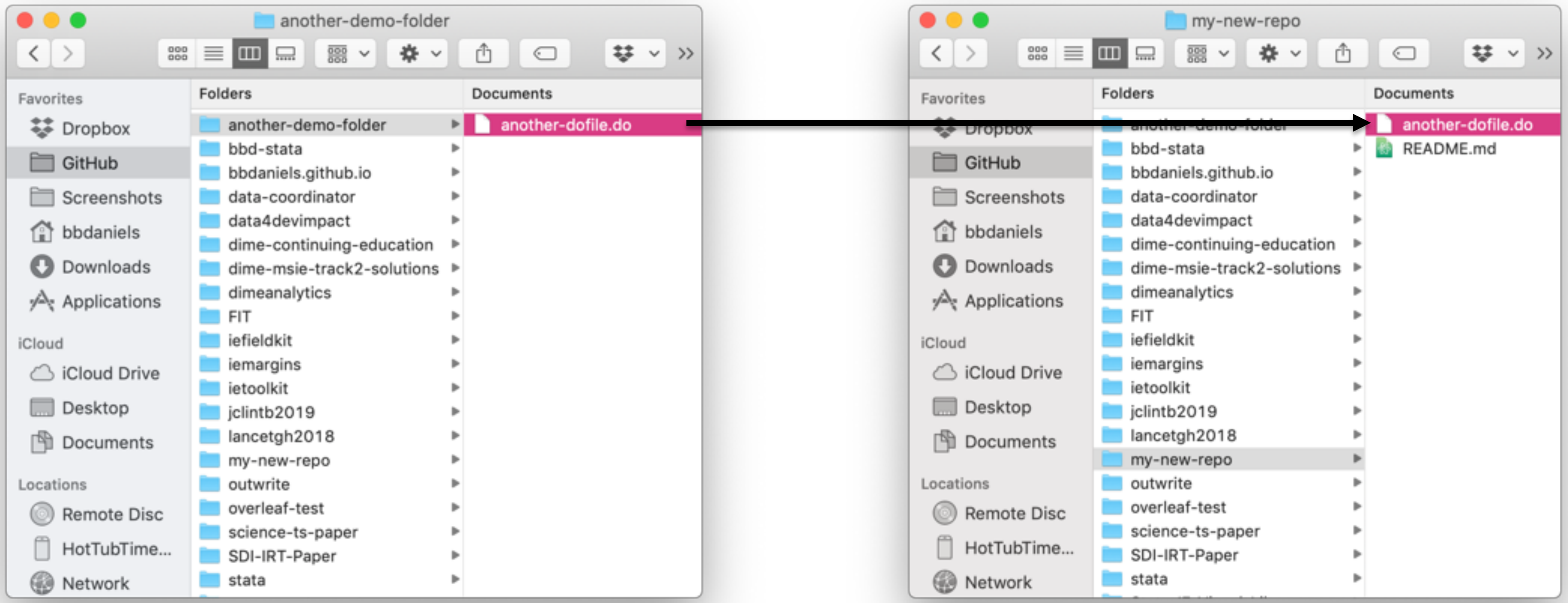
This will return your working directory to the state recorded in the commit named “Added my-dofile.do”. This is why naming your commits is important!

Finally, go ahead and check out the *develop* branch again, so we can do some work there. Go back and forth a couple times if you like, to convince yourself how this works.

Make sure you know which branch you have checked out when you are done! You can only know this information from the client, not from the working directory.



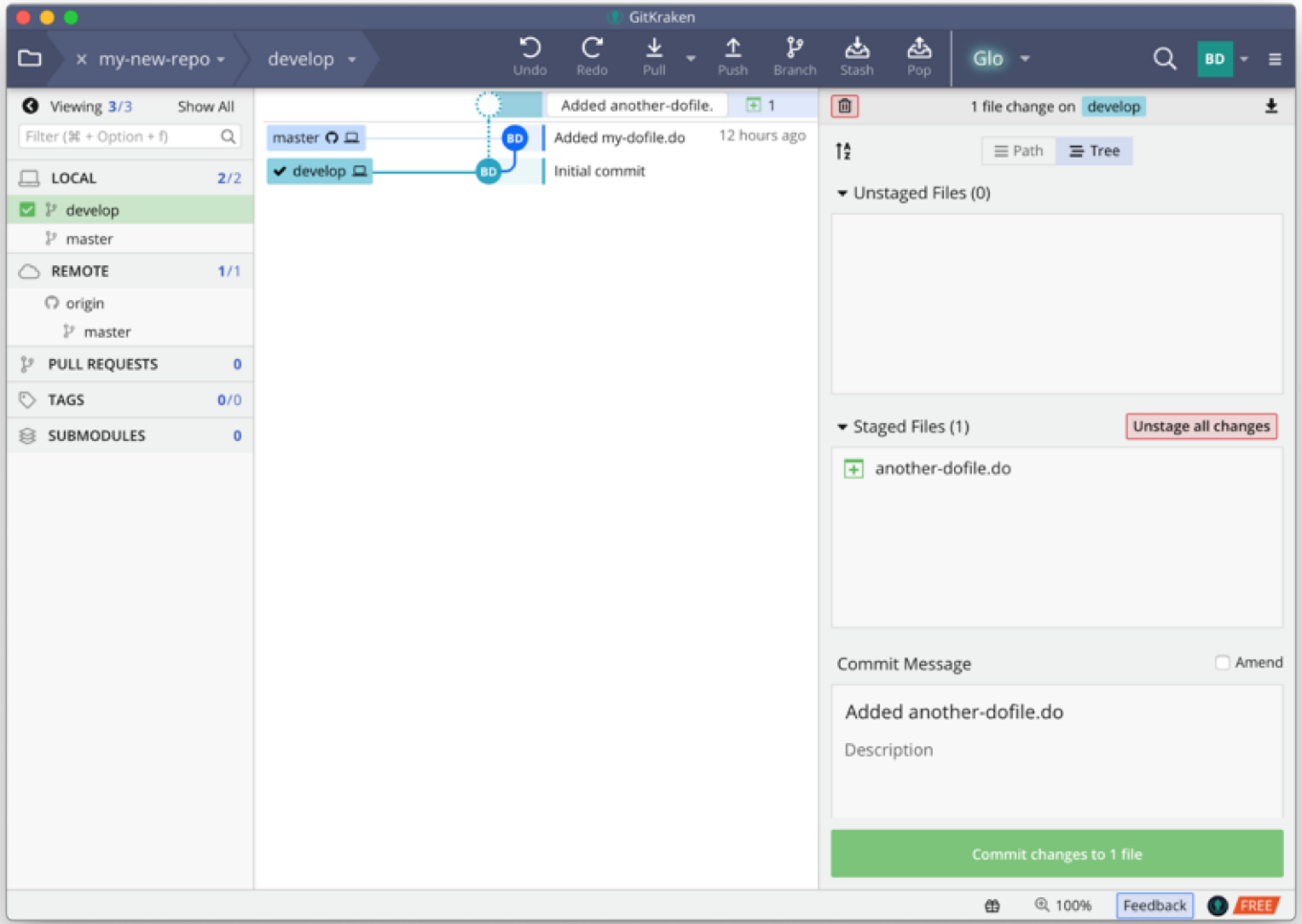
Add a *different* file to your working directory



Stage and commit your changes

Navigate back to the client and view the “work in progress” at the top of the tree.

Stage, name, and commit your changes.



	Added another-dofile.	1
master	Added my-dofile.do	12 hours ago
develop	Initial commit	

1 file change on develop

Unstaged Files (0)

Staged Files (1)

another-dofile.do

Commit Message

Added another-dofile.do

Description

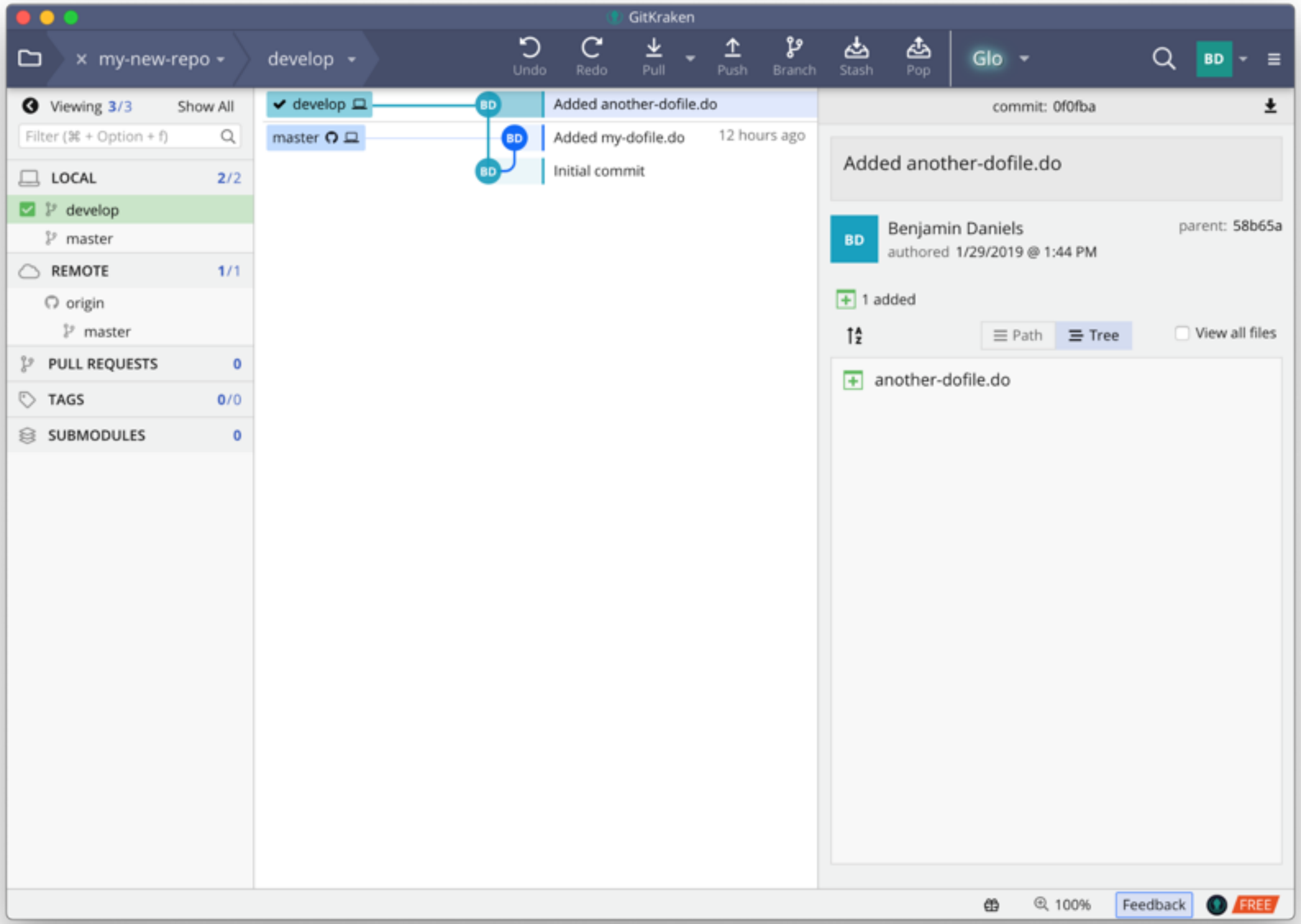
Stage and commit your changes

Navigate back to the client and view the “work in progress” at the top of the tree.

Stage, name, and commit your changes.

After doing this, you will see that the *develop* branch has “diverged” from the *master* branch.

Try switching back and forth between them and see what happens in the working directory.



Added another-dofile.do
Added my-dofile.do 12 hours ago
Initial commit

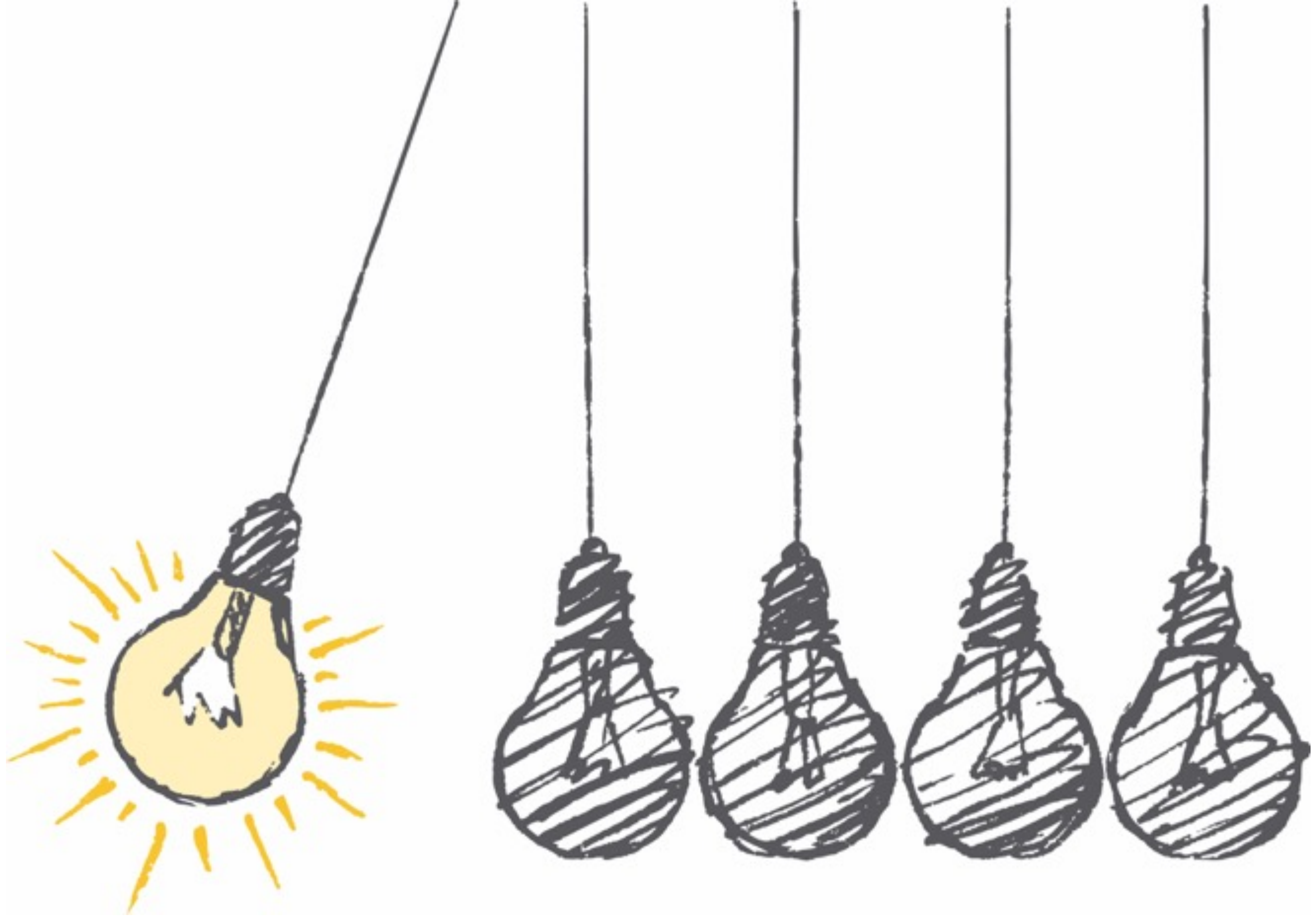
Added another-dofile.do

Benjamin Daniels
authored 1/29/2019 @ 1:44 PM

another-dofile.do

So how does it *work*?

Part 3: Merging branches using GitHub

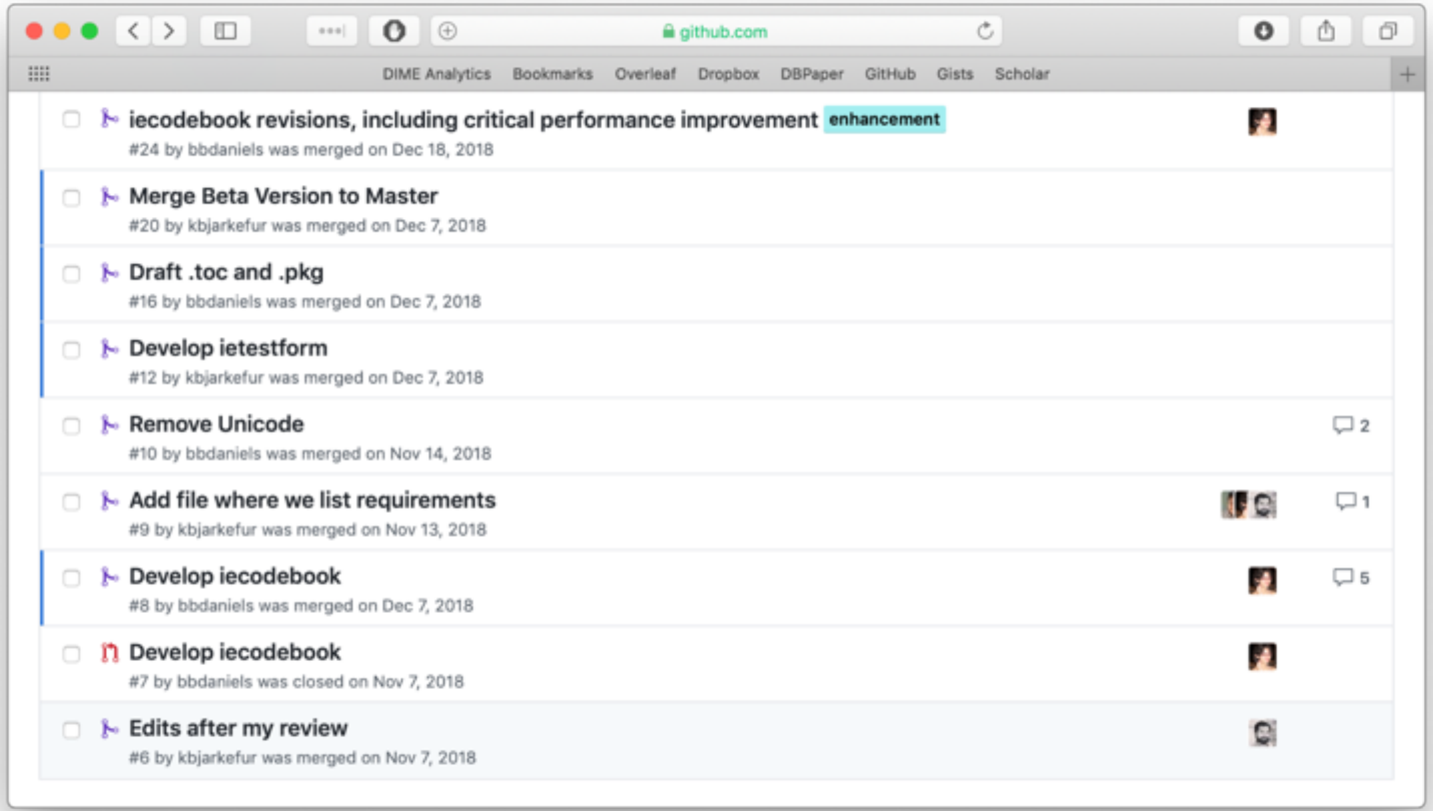


GitHub manages **contributions**

GitHub provides interfaces for assigning tasks, submitting updates, and approving and accepting contributions into a project.

Like Git, everything you ever do is saved in an orderly way, so you can always look back and see when and why you did (or undid) something.

It is designed to make project record-keeping and task-management as part of your workflow.



iecodebook revisions, including critical performance improvement enhancement
#24 by bbdaniels was merged on Dec 18, 2018

Merge Beta Version to Master
#20 by kbjarkefur was merged on Dec 7, 2018

Draft .toc and .pkg
#16 by bbdaniels was merged on Dec 7, 2018

Develop ietestform
#12 by kbjarkefur was merged on Dec 7, 2018

Remove Unicode 2
#10 by bbdaniels was merged on Nov 14, 2018

Add file where we list requirements 1
#9 by kbjarkefur was merged on Nov 13, 2018

Develop iecodebook 5
#8 by bbdaniels was merged on Dec 7, 2018

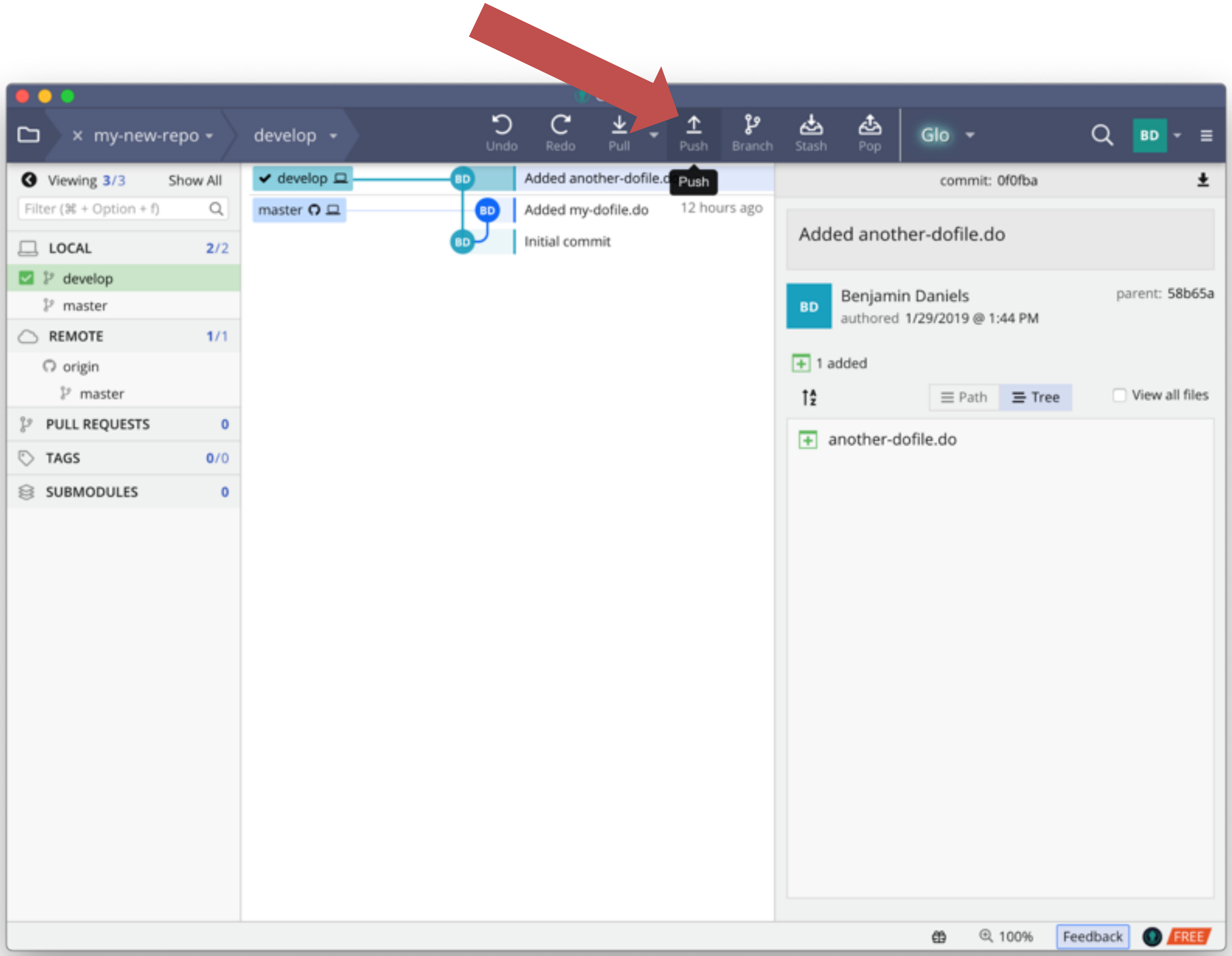
Develop iecodebook
#7 by bbdaniels was closed on Nov 7, 2018

Edits after my review
#6 by kbjarkefur was merged on Nov 7, 2018

Push the *develop* branch to GitHub

Navigate back to the client and make sure the *develop* branch is checked out.

"Push" this branch to GitHub (the "origin"). You will get a notification that the branch does not yet exist there, and ask you to name it. The default is *develop*; stick with that.

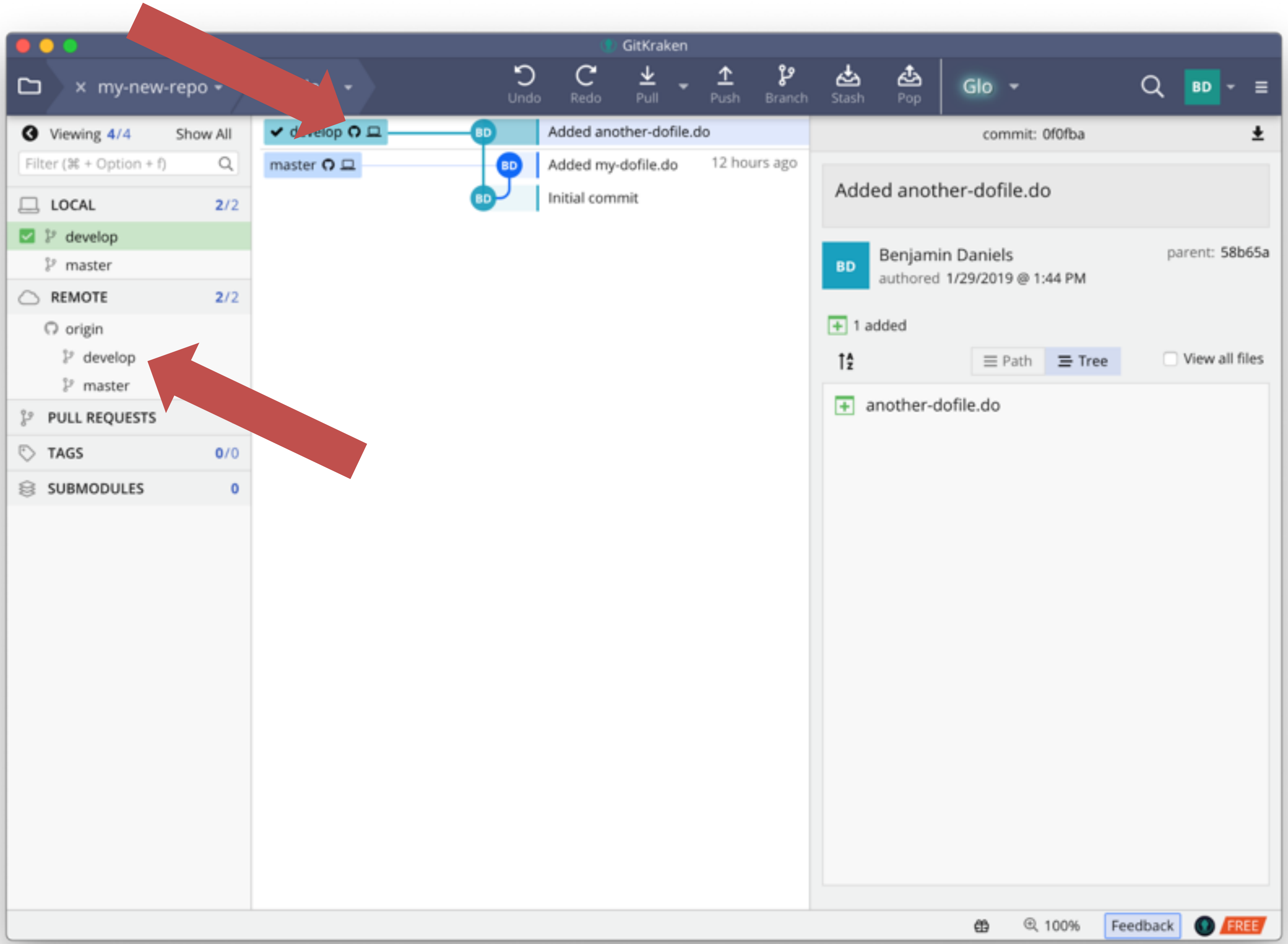


Push the *develop* branch to GitHub

Navigate back to the client and make sure the *develop* branch is checked out.

"Push" this branch to GitHub (the "origin"). You will get a notification that the branch does not yet exist there, and ask you to name it. The default is *develop*; stick with that.

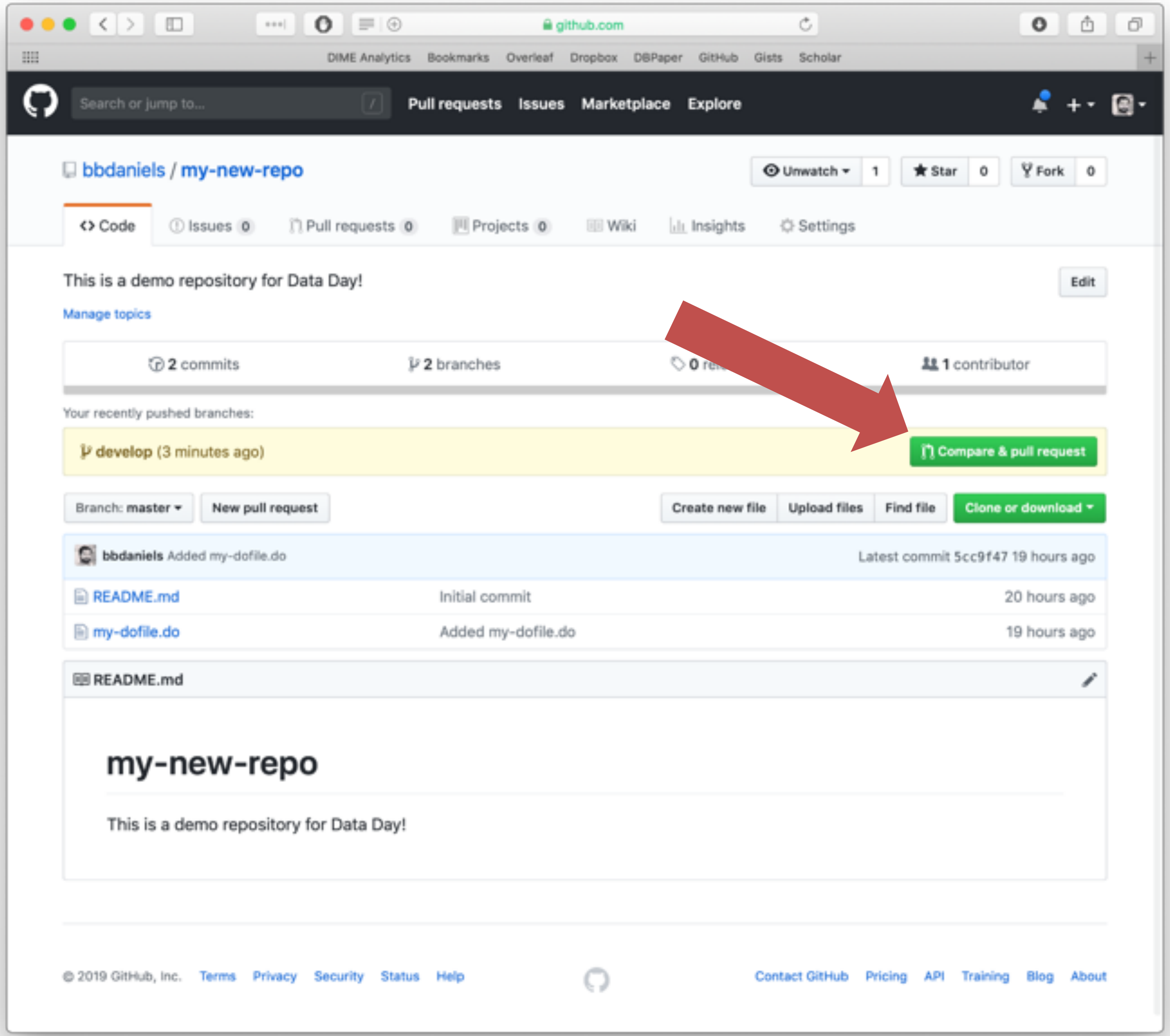
You'll know it's worked when the client reflects the existence and location of the *develop* branch on *origin*.



Go to GitHub and open a pull request

When there are recent changes, GitHub will notify you and ask you if you want to merge the changes.

This is not the most common way to start a pull request, but it will do for now.


github.com
DIME Analytics Bookmarks Overleaf Dropbox DBPaper GitHub Gists Scholar
Search or jump to...
Pull requests Issues Marketplace Explore
bbdaniels / my-new-repo
Unwatch 1 Star 0 Fork 0
Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings
Edit
Manage topics
2 commits 2 branches 0 re 1 contributor
Compare & pull request
Branch: master New pull request
Create new file Upload files Find file Clone or download

This is a demo repository for Data Day!

Your recently pushed branches:

develop (3 minutes ago)

bbdaniels Added my-dofile.do — Latest commit 5cc9f47 19 hours ago

README.md	Initial commit	20 hours ago
my-dofile.do	Added my-dofile.do	19 hours ago

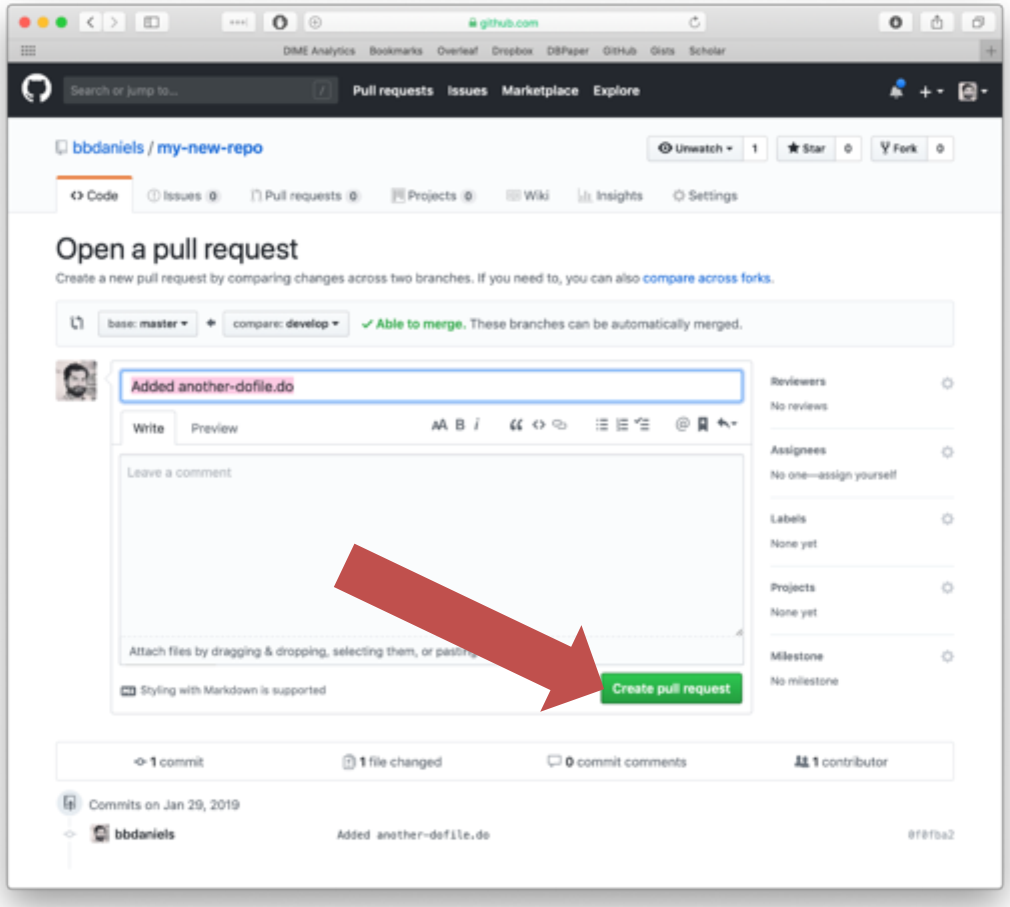
README.md

my-new-repo

This is a demo repository for Data Day!

© 2019 GitHub, Inc. Terms Privacy Security Status Help
Contact GitHub Pricing API Training Blog About

Create and merge the pull request


github.com
DIME Analytics Bookmarks Overleaf Dropbox DBPaper GitHub Gists Scholar
Search or jump to...
Pull requests Issues Marketplace Explore
bbdaniels / my-new-repo
Unwatch 1 Star 0 Fork 0
Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings
Write Preview
Reviewers
Assignees
Labels
Projects
Milestone
Create pull request

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: master ← compare: develop ✓ Able to merge. These branches can be automatically merged.

Added another-dofile.do

Leave a comment

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

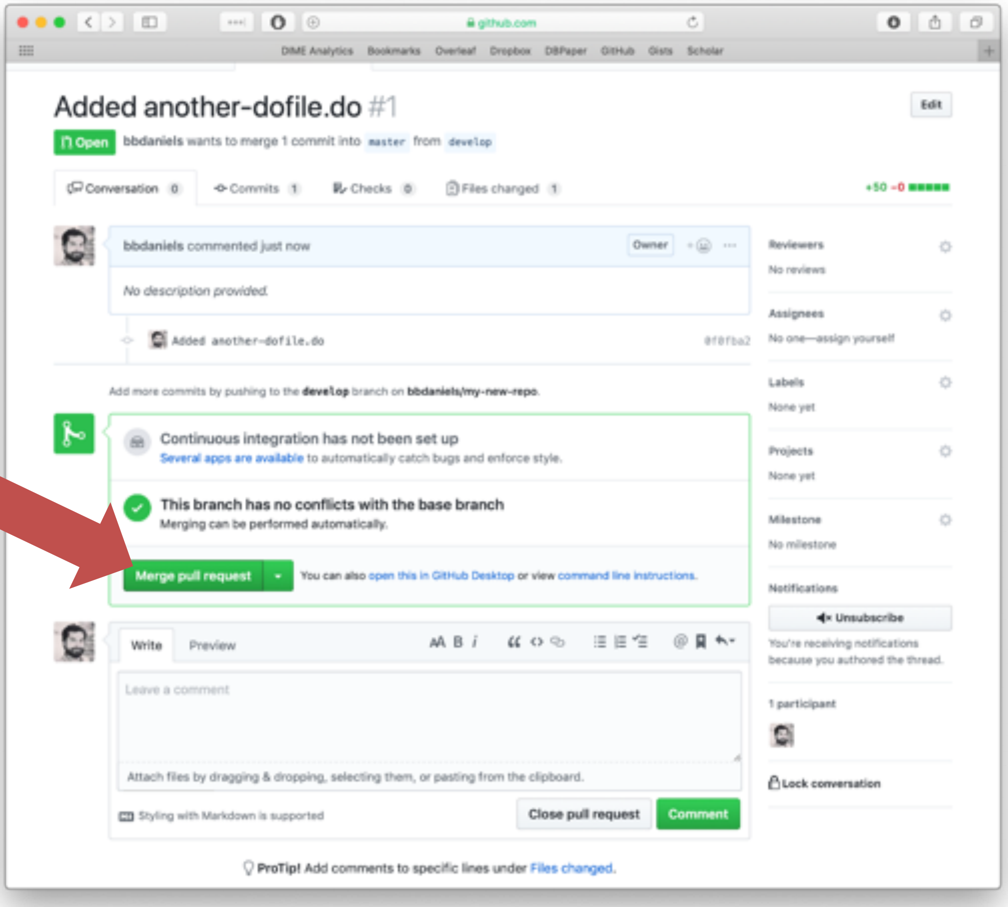
Styling with Markdown is supported

Reviewers: No reviews
Assignees: No one—assign yourself
Labels: None yet
Projects: None yet
Milestone: No milestone

1 commit · 1 file changed · 0 commit comments · 1 contributor

Commits on Jan 29, 2019

bbdaniels Added another-dofile.do 0f0fba2


github.com
DIME Analytics Bookmarks Overleaf Dropbox DBPaper GitHub Gists Scholar
Edit
Open
Conversation 0 Commits 1 Checks 0 Files changed 1
+50 −0
Owner
Merge pull request
Write Preview
Unsubscribe
Close pull request
Comment
Lock conversation

Added another-dofile.do #1

Open bbdaniels wants to merge 1 commit into master from develop

bbdaniels commented just now

No description provided.

Added another-dofile.do 0f0fba2

Add more commits by pushing to the develop branch on bbdaniels/my-new-repo.

Continuous integration has not been set up

Several apps are available to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch

Merging can be performed automatically.

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

Leave a comment

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

Styling with Markdown is supported

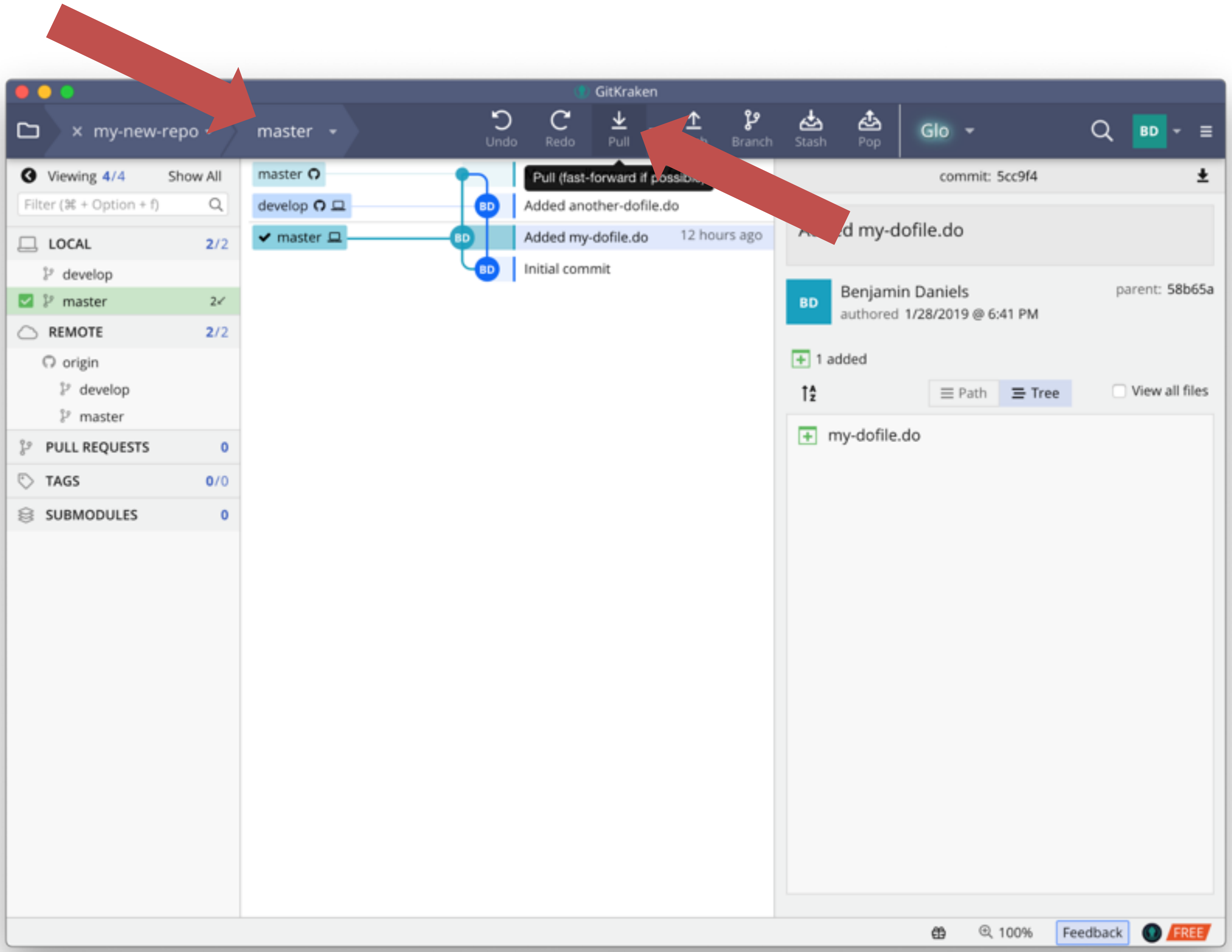
ProTip! Add comments to specific lines under Files changed.

Reviewers: No reviews
Assignees: No one—assign yourself
Labels: None yet
Projects: None yet
Milestone: No milestone
Notifications: You're receiving notifications because you authored the thread.
1 participant

Check out and pull the *master* branch

In your client, you will at first see that the “origin” copy of the *master* branch is ahead of the local copy.

That’s because you merged it on GitHub, and all operations in Git and GitHub are manual.



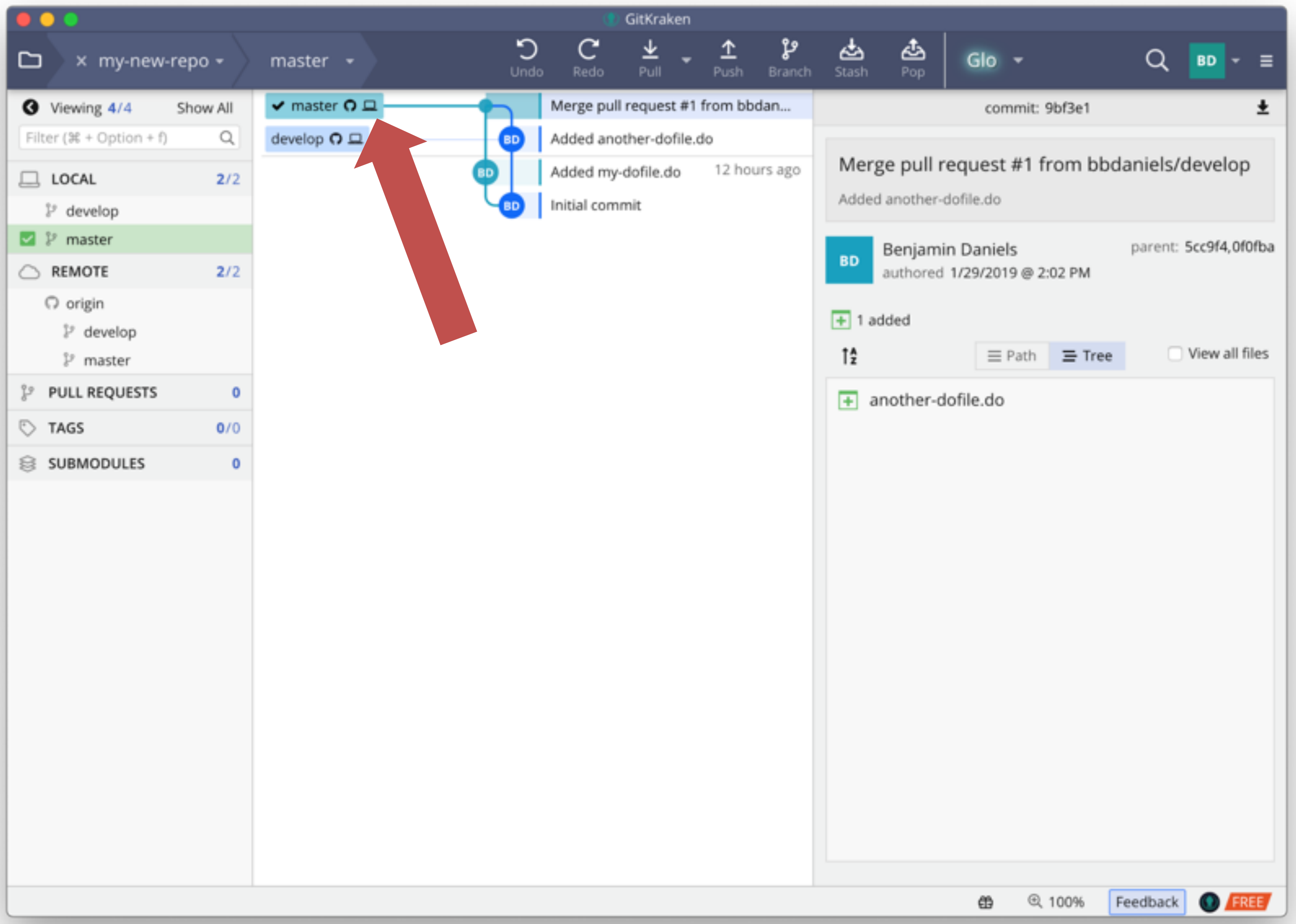
Check out and pull the *master* branch

In your client, you will at first see that the “origin” copy of the *master* branch is ahead of the local copy.

That’s because you merged it on GitHub, and all operations in Git and GitHub are manual.

When you “pull” the branch, you update your local copy to reflect the origin copy, and you will see the local pointer for the branch move forward.

What did this do?



Merge pull request #1 from bbdan...
Added another-dofile.do
Added my-dofile.do 12 hours ago
Initial commit

commit: 9bf3e1

Merge pull request #1 from bbdaniels/develop
Added another-dofile.do

Benjamin Daniels
authored 1/29/2019 @ 2:02 PM
parent: 5cc9f4,0f0fba

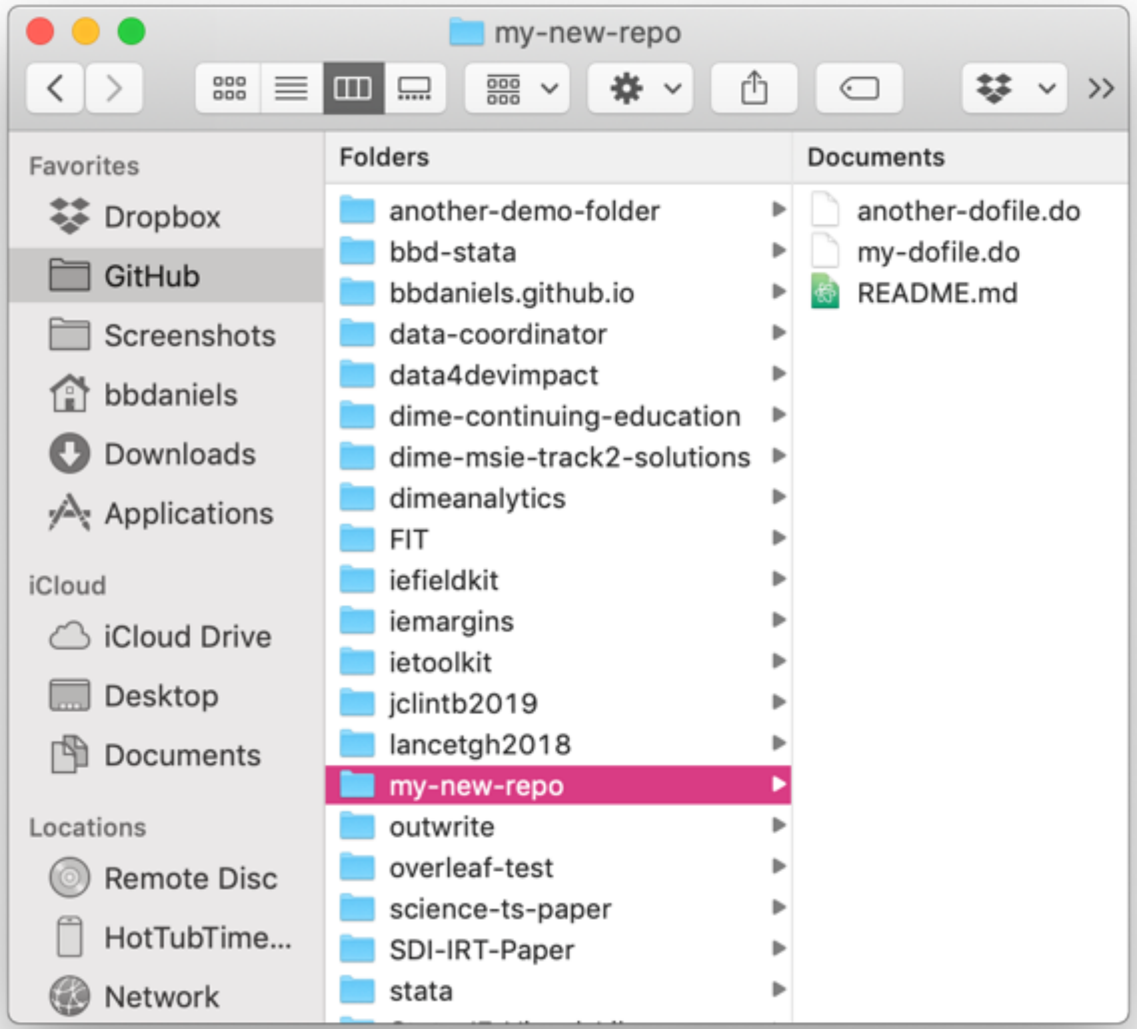
another-dofile.do

Merging consolidates changes

In the local working directory, you will now see that *both* files now exist in the same commit, “Merge pull request #1 from bbdaniels/develop”, on the *master* branch.

If people made *conflicting* changes to the same files, this process also gives you a chance to resolve those, and this and other workflows will be covered in a later session.

That’s all for now!

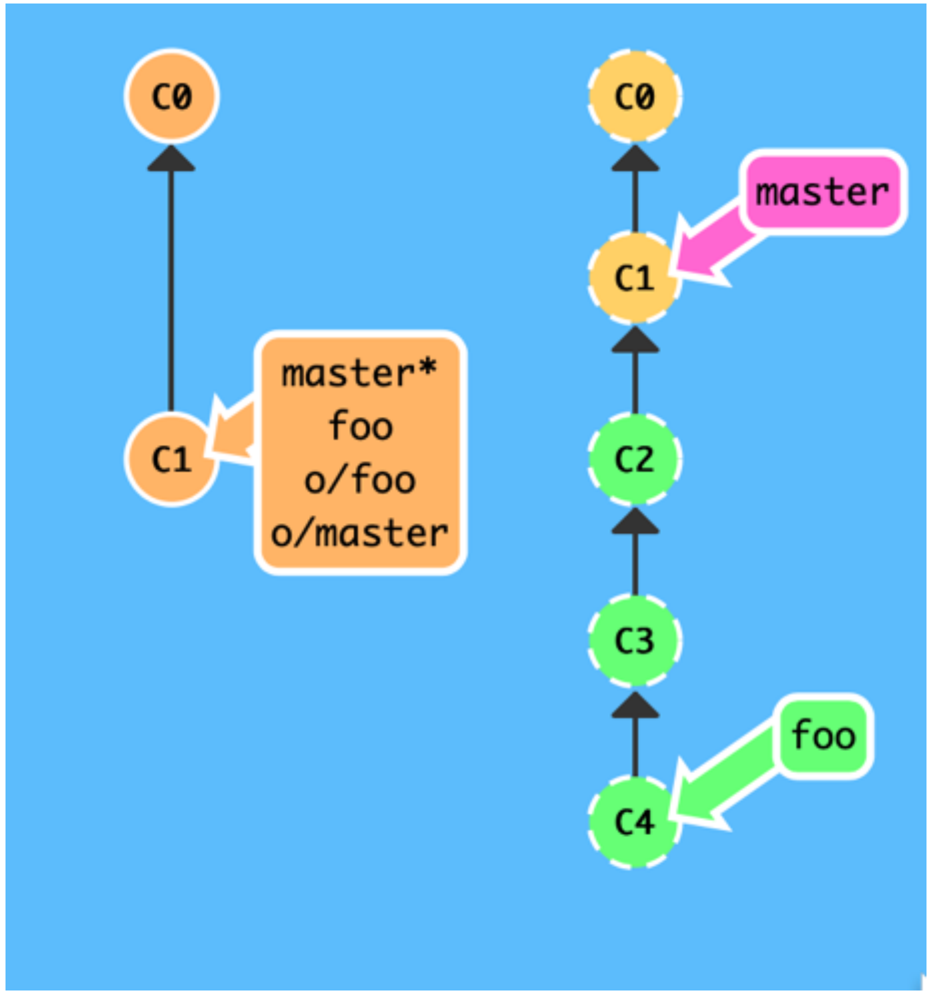


Folders
- another-demo-folder
- bbd-stata
- bbdaniels.github.io
- data-coordinator
- data4devimpact
- dime-continuing-education
- dime-msie-track2-solutions
- dimeanalytics
- FIT
- iefieldkit
- iemargins
- ietoolkit
- jclintb2019
- lancetgh2018
- my-new-repo
- outwrite
- overleaf-test
- science-ts-paper
- SDI-IRT-Paper
- stata

Documents
- another-dofile.do
- my-dofile.do
- README.md

Homework: play with toys

- Practice Git branching at: https://learngitbranching.js.org
- Type [*levels*]
- Complete Level 1-4 of “Introduction Sequence” on the Main tab
- Complete all levels on the Remote tab



Thank you!