



Git-ting It Together: Learn to Use Git and GitHub for Your Projects

Christine Stawitz and Molly Stevens

Source material from a training by Eli Holmes and Em Markowitz



Learning warm up! A game!





Using GitHub to Help a Team Tackle a Project Together

Artwork by @allison_horst

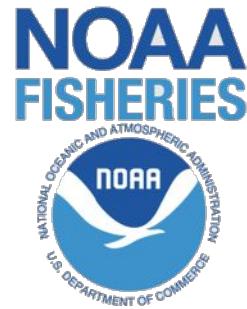
Scientists at NOAA Fisheries and mentors
in the NOAA Fisheries Openscapes
program. We help scientists adopt Open
Science workflows



Christine Stawitz



Molly Stevens



<https://nmfs-openscapes.github.io/>



<https://github.com/ChristineStawitz-NOAA>
<https://github.com/mollystevens-noaa>



GitHub Project Boards

Kanban task board

Editing markdown files

Branches

Pull Requests

Schedule

2:00-3:30PM

- 15 minute lectures and demos followed by 15-30 minute teamwork time

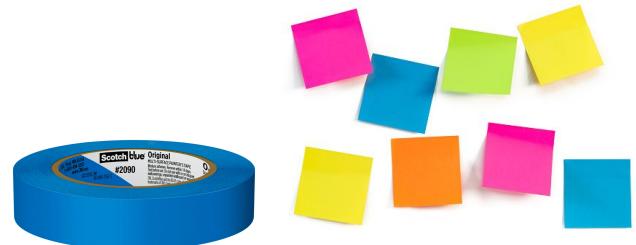
3:30-4:00pm Break with snacks provided

4:00-5:30pm Lectures and team work time

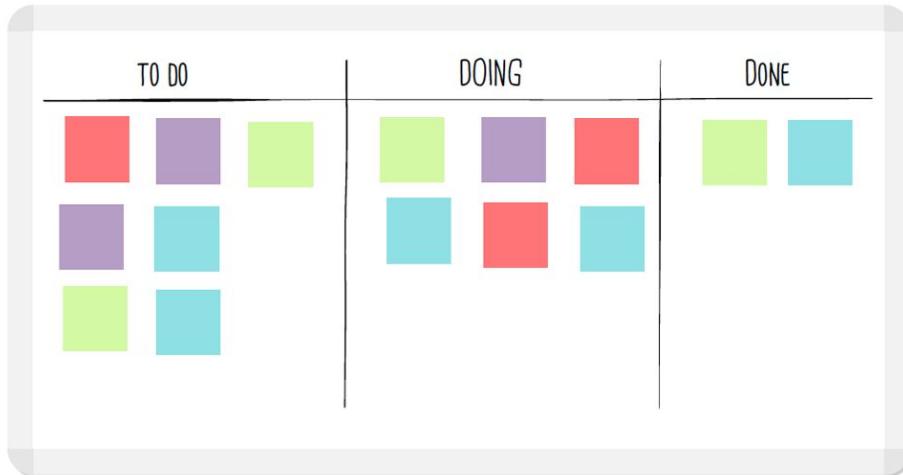
Team Activity: Draw some marine animals



Use only post-it notes,
blue tape, and
sharpies for aquarium
elements



Rules



- You can talk to each other
- Only do tasks in the “to do” column
- Only do tasks written by someone else
- Everyone writes tasks
- One task at a time
- Move your task through the board

Intro to GitHub in the browser

[NSAWTraining/GithubProjectManagement: Repository for the NSAW 2023 Github workshop](#)

NSAWTraining / **GithubProjectManagement** Public

Edit Pins

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

main ▾ 2 branches 0 tags Go to file Add file ▾ Code ▾

ChristineStawitz-NOAA	Update README.md	77c1c50 2 minutes ago	350 commits
.github/workflows	add quarto structure	7 months ago	
sandbox	add aquarium picture	yesterday	
.gitignore	add quarto structure	7 months ago	
LICENF	Initial commit	8 months ago	

Intro to GitHub in the browser

[NSAWTraining/GithubProjectManagement: Repository for the NSAW 2023 Github workshop](#)

The screenshot shows a GitHub repository page for 'NSAWTraining / GithubProjectManagement'. The repository is public and was forked from 'RWorkflow-Workshops/WSDS-StLouis'. The top navigation bar includes 'Edit Pins', 'Watch' (0), 'Fork' (4), 'Star' (0), and links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects' (6, highlighted), 'Security', 'Insights', and 'Settings'. A search bar at the top contains the query 'is:open'. Below the search bar, there are buttons for 'Link a project' and a dropdown menu labeled 'Sort ▾'. The main content area displays three projects: 'Bridges' (6 open, 0 closed), 'Restaurants' (6 open, 0 closed), and 'Colleges' (6 open, 0 closed). Each project card includes a timestamp for the last update ('#1 updated 20 hours ago', '#2 updated 20 hours ago', '#4 updated 20 hours ago') and a three-dot ellipsis icon.

Project	Open	Closed
Bridges	6	0
Restaurants	6	0
Colleges	6	0

Intro to GitHub Project Boards

[NSAWTraining/GithubProjectManagement: Repository for the NSAW 2023 Github workshop](#)

The screenshot shows the GitHub Project Boards interface for the 'Bridges' project. The top navigation bar includes 'NSAWTraining / Projects / Bridges', a search bar, and various icons. Below the header, there are buttons for 'View 1' and '+ New View', and a 'Filter by keyword or by field' search bar.

The main area displays three columns of cards:

- Ideas (2)**: This item hasn't been started.
 - Draft: Christine. Describe 3 closest bridges
 - GithubProjectManagement #2: Idea: oldest bridge in Providence
- Ready to work on (1)**: This is ready to be worked on.
 - Draft: Merge Molly's work into main
- In progress (0)**: No items in this column.

At the bottom, there is a note: "You can use (Control + Space) to add an item".

Convert cards to issues

The screenshot shows the GitHub issue details for 'Idea: oldest bridge in Providence' (issue #2). The top navigation bar includes 'Code', 'Issues 1', 'Pull requests', 'Actions', 'Projects 6', and a shield icon.

The issue card has the following details:

- Open** by [ChristineStawitz-NOAA](#) (2 minutes ago) · 0 comments
- Comment** by [ChristineStawitz-NOAA](#) (2 minutes ago): No description provided.
- Add to board** by [ChristineStawitz-NOAA](#) (2 minutes ago): Added this to **Bridges**.
- Convert** by [ChristineStawitz-NOAA](#) (2 minutes ago): Converted this from a draft issue.

Molly demo

1. Open their team project board
2. Add some notes/ideas to the idea column
3. Make 2-3 task cards in the task column
4. Task cards need 'Definition of done'

Teams

Table 1: Restaurants

Table 2: Public Art

Table 3: History

Table 4: Colleges

Table 5: Parks

Team work 20 min: Project boards

Add some idea cards (3-4) to your GitHub Project Board

- Idea card is free form; helps you focus your tasks
- <https://youtu.be/8D72GBVBVe4>

Add some (2-3) task cards for each idea

- Task card must have a “definition of done”
- <https://youtu.be/frJoBaQqWml>



Tips

- Don't try to micromanage with “Definition of Done”
- Let whoever grabs a task card, decide how to get to “done”

Editing files in the browser

[NSAWTraining/GithubProjectManagement: Repository for the NSAW 2023 Github workshop](#)

NSAWTraining / GithubProjectManagement Public

Edit Pins

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

main 2 branches 0 tags Go to file Add file Code

ChristineStawitz-NOAA	Update README.md	77c1c50 2 minutes ago	350 commits
github/workflows	add quarto structure	7 months ago	
sandbox	add aquarium picture	yesterday	
.gitignore	add quarto structure	7 months ago	
LICENSE	Initial commit	8 months ago	
README.md	Update README.md	2 minutes ago	

Opening files in the browser

[NSAWTraining/GithubProjectManagement: Repository for the NSAW 2023 Github workshop](#)

The screenshot shows a GitHub repository page for 'NSAWTraining / GithubProjectManagement'. The 'Code' tab is selected. A tooltip box is overlaid on the interface, containing the text 'Double click the file with your name to open'. The tooltip has a red 'X' icon in the top right corner. On the left, the file tree shows a folder named 'sandbox' circled in red. Inside 'sandbox', a file named '0template.md' is also circled in red. The main content area displays a table of files with their names, last commit messages, and dates.

Name	Last commit message
..	
0.2.2.3.new_england_aquarium_2011_shark_and_ray_touch_tank... 0template.md	add aquarium picture
Alex_Hansell.md Andrew_Jones.md	update sandbox template.md with corre Modify sandbox files, add users
Andrew_Jones.md	Modifv sandbox files. add users

Edit a file

main ▾ [GithubProjectManagement / sandbox](#)
[/ Christine_Stawitz.md](#) ↗

Go to file t ...

mollystevens-noaa Add registered participants sandbox .md files a11d647 · 3 days ago History

Preview Code Blame 12 lines (6 loc) · 528 Bytes

Raw



Header 1

This is where your team will collaboratively work on your section!

Header 2

Text with **bold**, *italic*, and [hyper-linked](#) text. Use the `preview` button in editing mode to see what your text looks like while you are editing.

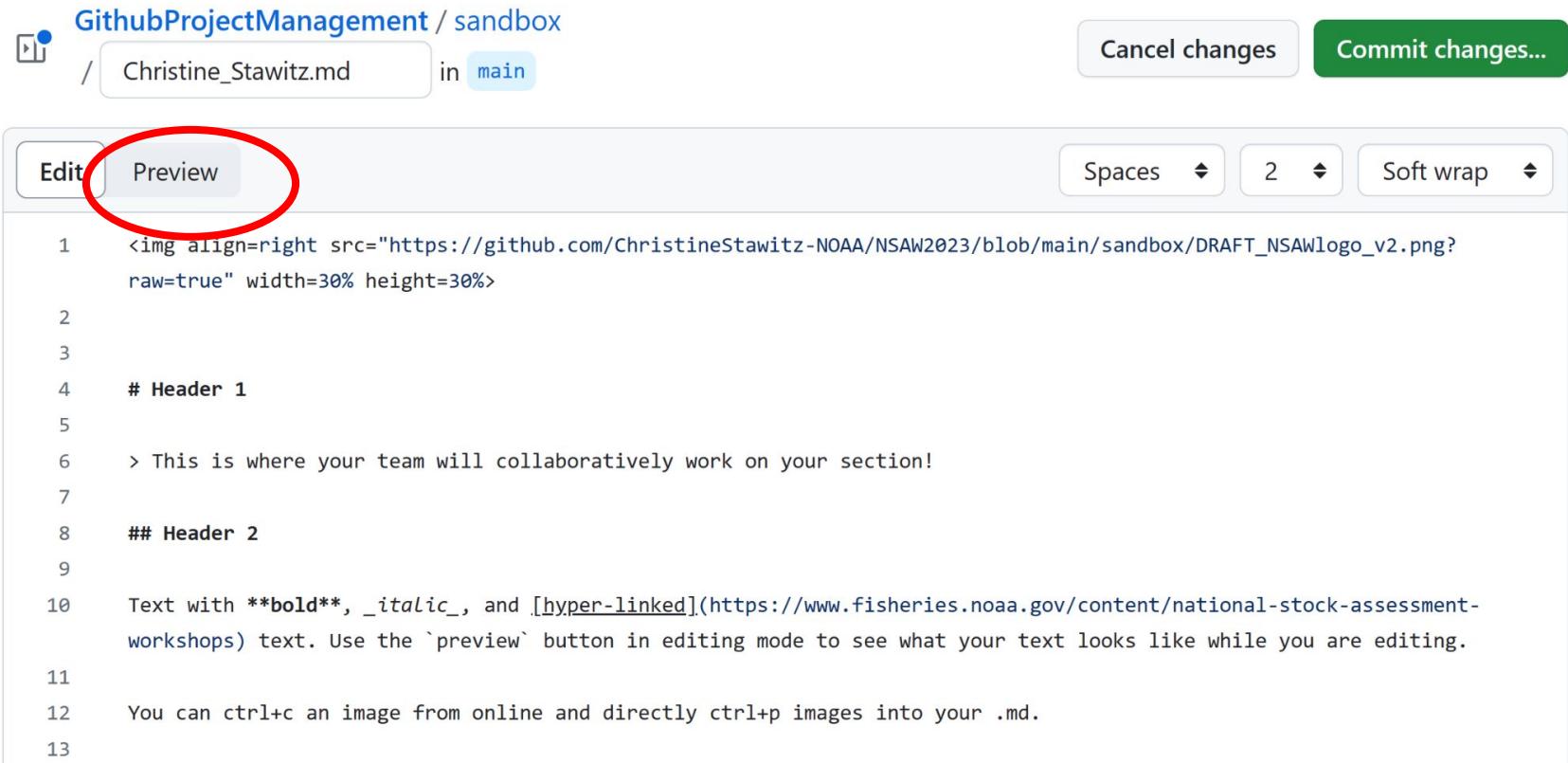
You can `ctrl+c` an image from online and directly `ctrl+p` images into your .md.

Edit a file: you can preview

GithubProjectManagement / sandbox
Christine_Stawitz.md in main

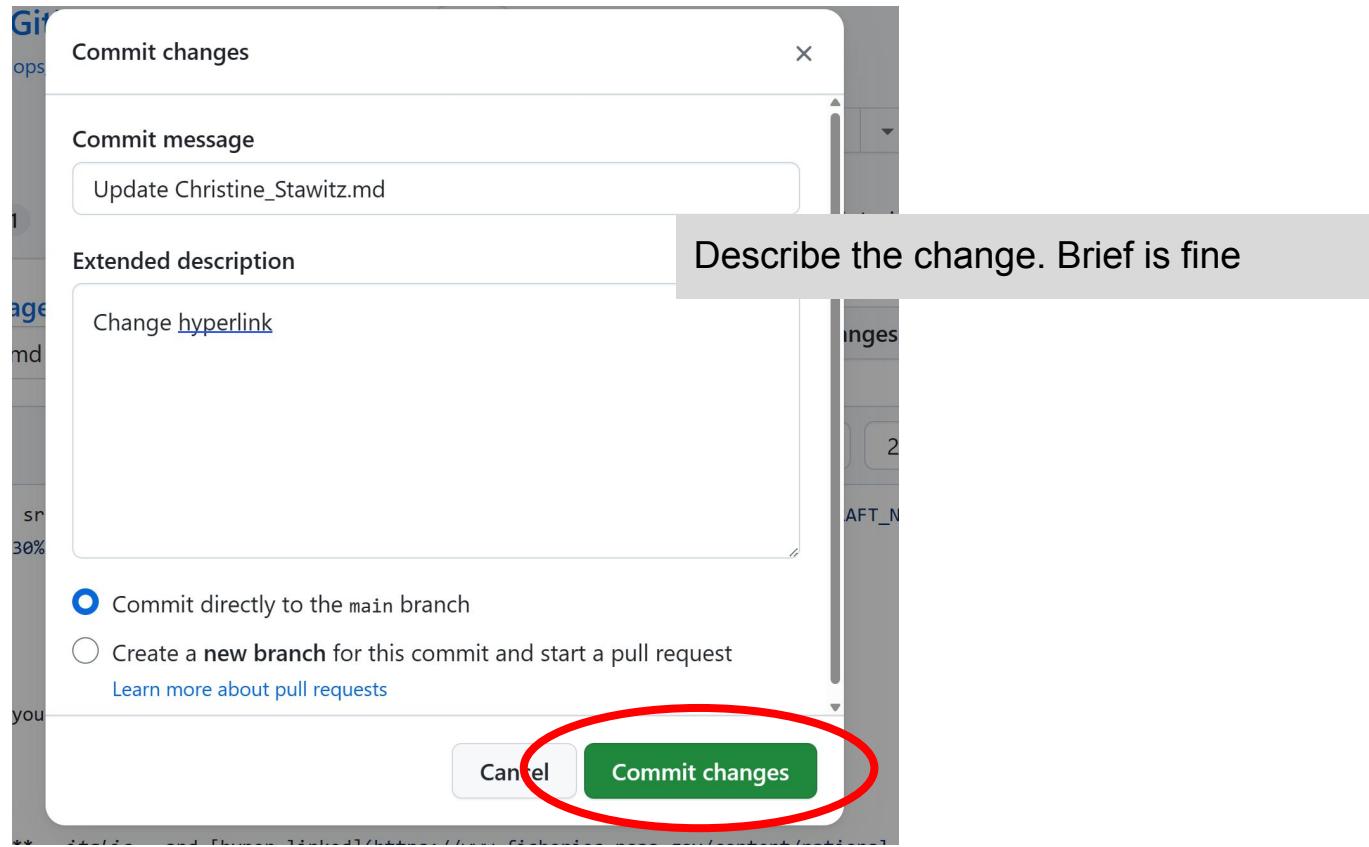
Cancel changes Commit changes...

Edit Preview Spaces 2 Soft wrap



```
1 
2
3
4 # Header 1
5
6 > This is where your team will collaboratively work on your section!
7
8 ## Header 2
9
10 Text with bold, italic, and hyper-linked(https://www.fisheries.noaa.gov/content/national-stock-assessment-workshops) text. Use the `preview` button in editing mode to see what your text looks like while you are editing.
11
12 You can ctrl+c an image from online and directly ctrl+p images into your .md.
13
```

Commit your changes



Click on history to see all the changes

Screenshot of a GitHub commit page for `Christine_Stawitz.md` in the `main` branch of the `GithubProjectManagement / sandbox` repository.

The commit was made by `ChristineStawitz-NOAA` at `a36ab2c · 13 minutes ago`. A red circle highlights the `History` button in the top right corner of the commit card.

Below the commit card, there are tabs for `Preview`, `Code`, and `Blame`, showing `12 lines (6 loc) · 551 Bytes`. There are also buttons for `Raw`, download, edit, and more.

The main content area contains:

- ## Header 1

This is where your team will collaboratively work on your section!
- ## Header 2

Text with **bold**, *italic*, and [hyper-linked](#) text. Use the `preview` button in editing mode to see what your text looks like while you are editing.

A circular logo for the National Stock Assessment Workshop. It features a blue background with a white border. The words "National Stock" are at the top and "Assessment Workshop" are at the bottom, both in a bold, sans-serif font. In the center, there is a stylized illustration of a fishing boat on the left and a school of fish swimming towards the right. A red arrow points from the text "This is where your team will collaboratively work on your section!" towards the logo.

Click on history to see all the changes

Code Issues 1 Pull requests Actions Projects 6 Security Insights ...

History for [Github](#) → [Christine_Stawitz.md](#)

Click here to see the change

- o Commits on Apr 28, 2023
 - [Update Christine_Stawitz.md](#) ...
Christine_Stawitz NOAA committed now
- o Commits on Apr 25, 2023
 - [Add registered participants sandbox .md files](#)
mollystevens-noaa committed 3 days ago
- o End of commit history for this file

Verified a36ab2c   

Click here to browse the files at that point in time

a11d647   

Christine demos

1. Navigate to the sandbox directory
2. Open her markdown file
3. Make some changes
 - a. Header
 - b. Text with a link
 - c. Add an image

Individual work 15 min: Edit your file in the sandbox

Try

- Adding a header
- Adding a list
- Adding an image

Make multiple commits

- Click the history and look at the history

<https://youtu.be/Ly4hdNSBKkA>

<https://www.markdownguide.org/cheat-sheet/>

Images

- You can right-click, copy image, and then paste
- On a Mac, Cmd-Shift-4 gets you a snip tool for copying screen snips

Coffee break

Let's Start Team Work!



Goal is for the team to edit the one team markdown file

<https://github.com/NSAWTraining/GithubProjectManagement/>

The screenshot shows a GitHub repository page for 'ChristineStawitz-NOAA'. The main area displays a list of commits:

File / Action	Description	Date
.github/workflows	add quarto structure	6 months ago
sandbox	Update Christine_Stawitz.md	15 minutes ago
.gitignore	add quarto structure	6 months ago
LICENSE	Initial commit	7 months ago
README.md	Update README.md	18 hours ago
WSDS_2022.pdf	add quarto structure	6 months ago
WSDS_2022.pptx	add ppt of slides + reuse statement	6 months ago
_quarto.yml	add quarto structure	6 months ago
bridges.md	update to Providence RI bridges	last week
history.md	add quarto structure	6 months ago
include-files.lua	add quarto structure	6 months ago

A red circle highlights the 'bridges.md' commit. To the right of the commits, there are repository statistics:

- GPL-3.0 license
- 0 stars
- 0 watching
- 4 forks

Below these are links to 'Report repository' and 'Create a new release'.

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)

Environments

1

What is a branch?

<https://github.com/NSAWTraining/GithubProjectManagement/>

S NSAWTraining / GithubProjectManagement Public Edit Pi

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

main ▾ 2 branches 0 tags Go to file Add file ▾ Code ▾

ChristineStawitz-NOAA Update README.md ✘ 77c1c50 2 minutes ago 350 commits

.github/workflows add quarto structure 7 months ago

sandbox add aquarium picture yesterday

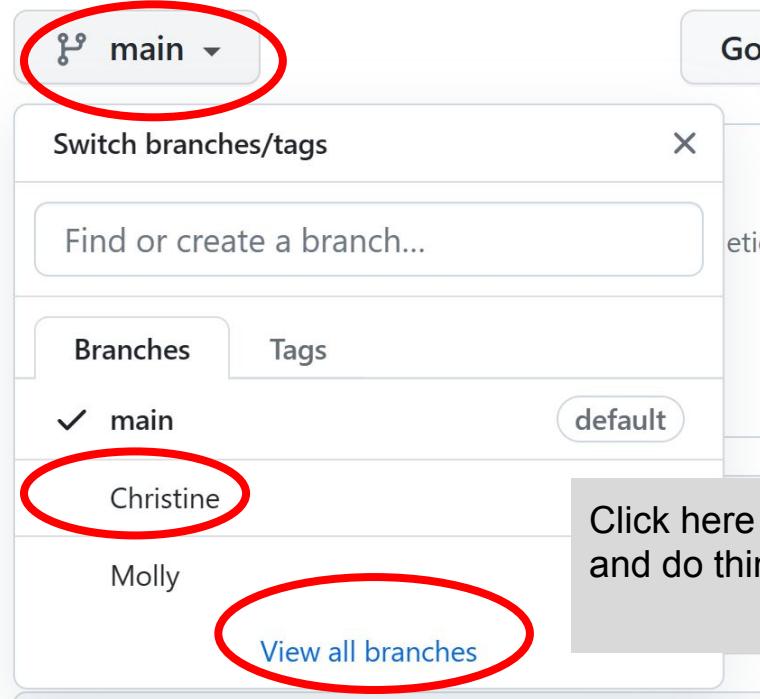
.gitignore add quarto structure 7 months ago

LICENSE Initial commit 8 months ago

Create a branch in the browser

<https://github.com/NSAWTraining/GithubProjectManagement/>

Click on “main” to get to branch controls



Click on an existing branch to see the status of the repo on that branch

Click here to see all the branches and do things (like delete).

ALWAYS be aware of what branch you are on

The screenshot shows a GitHub repository page for `githubProjectManagement / bridges.md`. A red circle highlights the 'main' dropdown menu in the top left corner. The repository details show a commit by `mollystevens-noaa` titled "update to Providence RI bridges" made "last week". Below the repository details, there are tabs for "Preview", "Code", and "Blame", along with file statistics: "33 lines (19 loc) · 1.38 KB". On the right, there are download and edit options. The main content area features a heading "Nearby Bridges" above a map of Providence, Rhode Island, highlighting various landmarks and bridge locations.

Nearby Bridges

A map of Providence, Rhode Island, showing the city layout and various landmarks. Labeled areas include: Omni Providence, RISD Museum, Brown University, Wriston Quadrangle, Like No Udder, Waterman Grille, Crook Point, Gingerbread Island, Pancake Island, FOX POINT, Hilton Garden Inn Providence, Washington Bridge, JWU Bridge for Diversity, Equity..., Michael S. Van Leesten..., F Fellini Pizzeria, PVDonuts, Persimmon, Amy St., Pitman St., Power St., Seekonk St., Waterman St., Hope St., George St., Benevolent St., Preston St., Williams St., John St., Dyer St., Pine St., Benefit St., Crawford Street Bridge, and the Point Street Bridge. Highways I-95 and I-195 are also shown.

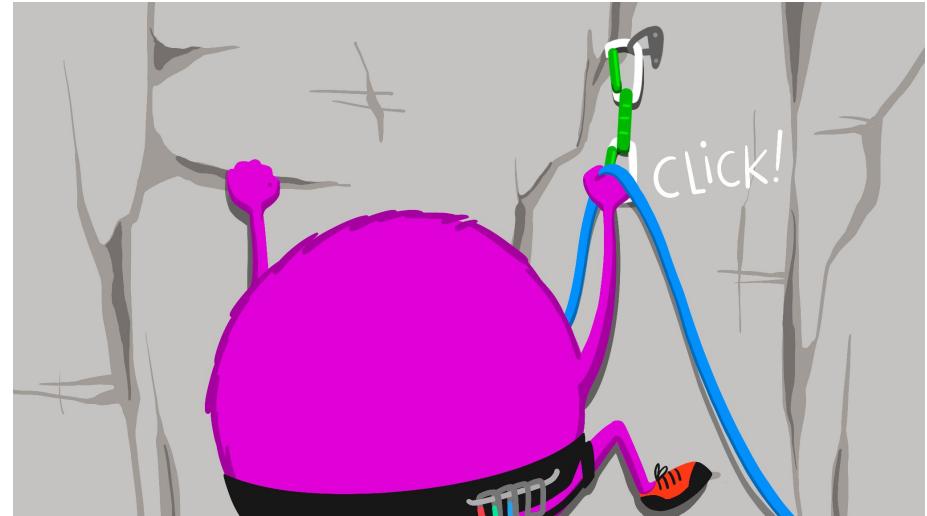
Molly demos

1. Make a branch FROM MAIN
2. Open the team markdown file
3. Double-check that you are on your branch
4. Edit the file and commit changes

Team work 15 min: Work on tasks on your project board

Steps

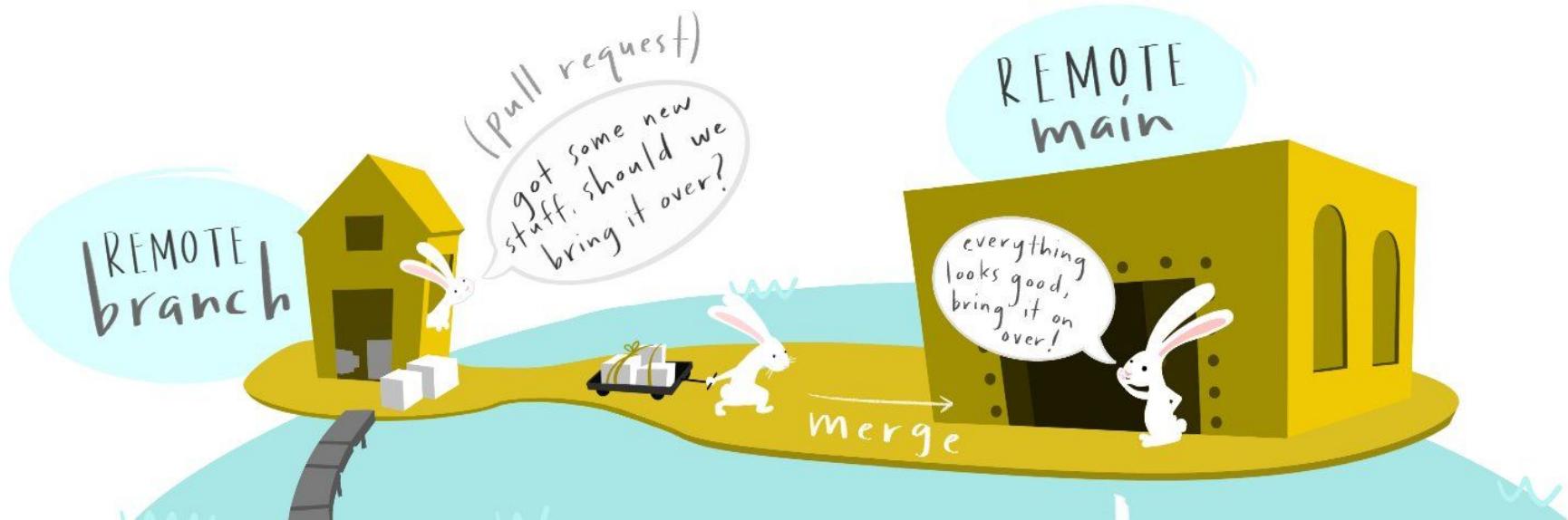
- Make a branch FROM MAIN
- Switch to that branch
- Open your team's md file
- Work on 2-3 tasks from your team task board
- Double-check that you are in your own branch



Artwork by @allison_horst

<https://youtu.be/Wt59IDTnpHU>

Pull requests: merging your changes back into main



Pull requests: merging your changes back into main

NSAWTraining / GithubProjectManager Not here. We'll look at this later. Edit Pins

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

main ▾ 2 branches 0 tags Go to file Add file ▾ Code ▾

ChristineStawitz-FOO .github/workflows 77c1c50 2 minutes ago 350 commits 7 months ago

.gitignore add aquarium picture yesterday

LICENSE add quarto structure 7 months ago

README.md Initial commit 8 months ago

Although “Pull requests” looks like the obvious place, let’s go to the “View all branches” page

File	Description	Time
.github/workflows	77c1c50 2 minutes ago	350 commits
.gitignore	add aquarium picture	yesterday
LICENSE	add quarto structure	7 months ago
README.md	Initial commit	8 months ago

Pull requests: from the “View All Branches” page

NSAWTraining / GithubProjectManagement Public

Edit Pins Watch 2 Fork 0 Star 0

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

Search branches... Overview Yours Active Stale All branches New branch

Default branch

main Updated 22 minutes ago by Christine Stawitz - NOAA X Default Edit

Your branches

Christine Updated 1 minute ago by Christine Stawitz - NOAA 0 | 1 New pull request Edit Delete

Click here to make a pull request

From the repository home screen

NSAWTraining / GithubProjectManagement Public Edit Pins ▾

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

Christine had recent pushes less than a minute ago

Compare & pull request

main ▾ 2 branches 0 tags Click here to make a pull request de ▾

ChristineStawitz-NOAA Update README.md 77c1c50 12 minutes ago 350 commits

.github/workflows	add quarto structure	7 months ago
sandbox	add aquarium picture	yesterday
.gitignore	add quarto structure	7 months ago
LICENSE	Initial commit	8 months ago

Make the pull request

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you

It's OK if this says merge conflict.

The screenshot shows a pull request interface with the following elements:

- Branch Selection:** "base: main" and "compare: Christine" are highlighted with red circles.
- Merge Status:** A green checkmark indicates "Able to merge. These branches can be automatically merged."
- Title Bar:** "STOP. LOOK HERE! Merge pull request #1 from Christine_Stawitz" and "Christine_Stawitz.md".
- Preview Area:** Shows a preview of the file content: "add to my file".
- Toolbar:** Includes icons for bold, italic, code block, list, and other document operations.
- Attachment Area:** "Attach files by dragging & dropping, selecting or pasting them." with a "More" button.
- Reviewers:** No reviews required.
- Assignees:** No one assigned.
- Labels:** None yet.
- Projects:** None yet.
- Milestone:** None set.

A large gray box with the text "STOP. LOOK HERE!" is overlaid on the top left of the preview area.

So many green buttons to click...

The image shows two side-by-side screenshots of a GitHub pull request interface. Both screenshots show a pull request from the user 'ChristineStawitz-NOAA' to the 'main' branch of the repository 'NSAWTraining/GithubProjectManagement'. The pull request is titled 'Update Christine_Stawitz.md #3'.

Screenshot 1 (Left): This view shows the initial state of the pull request. It includes a commit message 'Update Christine_Stawitz.md' with a timestamp '1c296df' and a 'Verified' badge. Below the commit is a note: 'Add more commits by pushing to the **Christine** branch on NSAWTraining/GithubProjectManagement.' A callout box highlights the message 'This branch has not been deployed' with 'No deployments' below it. At the bottom, a green button labeled 'Merge pull request' is circled in red, with a large blue arrow pointing towards the right screenshot.

Screenshot 2 (Right): This view shows the pull request after a comment was added. The comment is from 'ChristineStawitz-NOAA' and says 'ChristineStawitz-NOAA commented 2 minutes ago'. Below the comment is another note: 'Add more commits by pushing to the **Christine** branch on NSAWTraining/GithubProjectManagement.' A callout box highlights the message 'Merge pull request #3 from NSAWTraining/Christine' and lists the commit message 'Update Christine_Stawitz.md'. At the bottom, a green button labeled 'Confirm merge' is circled in red.

Merge conflicts

Git needs your help to resolve
the conflict

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks.

A screenshot of a GitHub pull request interface. At the top, there are dropdown menus for 'base: main' and 'compare: Molly'. A red circle highlights a red error message: 'Can't automatically merge. Don't worry, you can still create the pull request.' Below this, there's a text input field containing 'update bridge'. Underneath it, there are 'Write' and 'Preview' tabs, followed by a rich text editor toolbar. A large text area is available for 'Leave a comment'. At the bottom, there's a file upload section with the instruction 'Attach files by dragging & dropping, selecting or pasting them.' A red circle highlights the green 'Create pull request' button.



Go ahead and create the pull
request

Merge conflicts

Open mollystevens-noaa wants to merge 1 commit into `main` from `Molly`

Conversation 0 Commits 1 Checks 0 Files changed 1

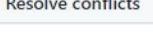
 mollystevens-noaa commented now
No description provided.


 merge conflict test Verified 73dbae6

Add more commits by pushing to the `Molly` branch on [NSAWTraining/GithubProjectManagement](#).

 This branch has not been deployed
No deployments

 This branch has conflicts that must be resolved
Use the [web editor](#) or the command line to resolve conflicts.
Conflicting files
`bridges.md`

 **Resolve conflicts**

Click here to tell Git how to resolve the conflicts

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

Merge conflicts

bridges.md

```
1 # Nearby Bridges
2
3 ![image](https://user-images.githubusercontent.com/53794202/231489602-8ac7c8b3-cc82-4c97-b0b3-cae2bb2a5159.png)
4
5 ## Crawford Street Bridge, 1873
6
7 ### 1906
8 ![image](https://user-images.githubusercontent.com/53794202/232793406-827a55d9-dcb3-483e-8862-abd8421988a9.png)
9
10 ### Present Day
11 ![image](https://user-images.githubusercontent.com/53794202/232792842-6a8a6ba7-aaa1-4ed5-8fe9-d0cd8ef07eb7.png)
12
13 ## Washington Bridge
14
15 <<<< Molly
16 Add content here about this very important bridge
17 =====
18 The pedestrian span is also a part of the Washington-Rochambeau
>>>> main
20
21 ## Van Leesten Memorial Bridge, 2019
22
23 ![image](https://user-images.githubusercontent.com/53794202/232795569-25bcb349-abb5-4353-84e9-b563e47946d8.png)
24
25 ### Design
26
27 The Michael S. Van Leesten Memorial Bridge stands as the culmin
28
29 ### Michael S. Van Leesten, 1939-2019
30
31 ![image](https://user-images.githubusercontent.com/53794202/232795569-25bcb349-abb5-4353-84e9-b563e47946d8.png)
32 - civil rights activist
33 - business and community leader
34 - athlete
35 - life long resident of the city
```

1 conflict

Prev ^

Next v



Mark as resolved

This is where the conflict is. The <<<< and ===== just helps you find the areas that conflict. You'll want to get rid of that.

Edit here and then click “Mark Resolved”

and several local anchor institutions. Spanning the Providence River and

Merge conflicts

→ Molly

Commit merge

✓ Resolved

bridges.md

```
1 # Nearby Bridges
2
3 ![image](https://user-images.githubusercontent.com/53794202/231489602-8ac7c8b3-cc82-4c97-b0b3-cae2bb2a5159.png)
4
5 ## Crawford Street Bridge, 1873
6
7 ### 1906
8 ![image](https://user-images.githubusercontent.com/53794202/232793406-827a55d9-dcb3-483e-8862-abd8421988a9.png)
9
10 ### Present Day
11 ![image](https://user-images.githubusercontent.com/53794202/232792842-6a8a6ba7-aaa1-4ed5-8fe9-d0cd8ef07eb7.png)
12
13 ## Washington Bridge
14
15 Add content here about this very important bridge
16
17
18 ## Van Leesten Memorial Bridge, 2019
19
20 ![image](https://user-images.githubusercontent.com/53794202/232794666-252f0f5a-6e82-43bb-bbad-755cf1420ec.png)
21
22 ### Design
23
24 The Michael S. Van Leesten Memorial Bridge stands as the culmination of nearly 30 years of planning between the City of Providence and several local anchor institutions. Spanning the Providence River and
25
26 ### Michael S. Van Leesten, 1939-2019
27
28 ![image](https://user-images.githubusercontent.com/53794202/232795569-25bcb349-abb5-4353-84e9-b563e47946d8.png)
29 - civil rights activist
30 - business and community leader
```

Merge conflicts

 Open mollystevens-noaa wants to merge 2 commits into `main` from `Molly` 

Conversation 0 Commits 2 Checks 0 Files changed 1

 mollystevens-noaa commented 5 minutes ago Member ...
No description provided.

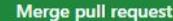


-o  merge conflict test Verified 73dbae6
-o  Merge branch 'main' into Molly Verified b82fb2d

Add more commits by pushing to the `Molly` branch on [NSAWTraining/GithubProjectManagement](#).

 This branch has not been deployed
No deployments

  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.

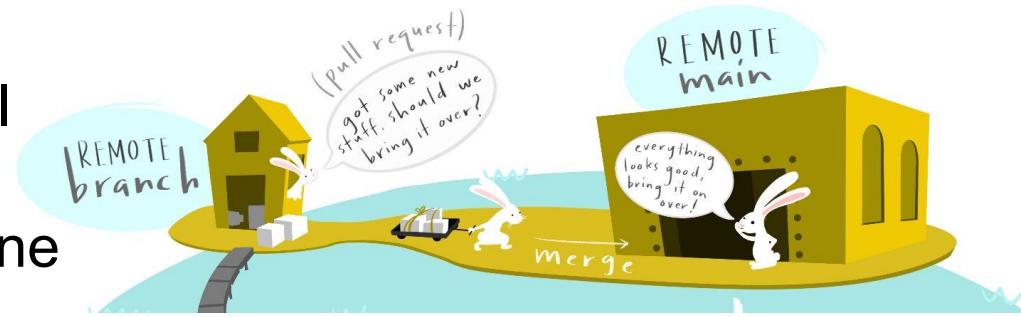
Molly and Christine demo

1. Christine makes a pull request and merges
2. Molly makes a pull request, gets merge conflict
3. Christine resolves the merge conflict and merges

Team work 30 min: Pull requests

Steps

- Add each pull request to the task board
- One at a time, do your pull requests.
- Move the task cards to done as you do each one
- Work together to help each other



Artwork by @allison_horst

<https://youtu.be/wmzjzuWhzq0>

DISCUSSION and Q&A

Next learning steps: GitHub Issues

NSAWTraining / GithubProjectManagement Public

Edit Pins Watch 2 Fork

Code Issues 2 Pull requests Actions Projects 6 Security Insights Settings

Label issues and pull requests for new contributors
Now, GitHub will help potential first-time contributors discover issues labeled with [good first issue](#)

Filters is:issue is:open Labels 9 Milestones 0

2 Open 1 Closed

Merge Molly's work into main #7 opened 2 days ago by mollystevens-noaa

Idea: oldest bridge in Providence #2 opened last week by ChristineStawitz-NOAA

Author Label Projects Milestones Assignee

Next learning steps: GitHub Issues

Every team uses issues.

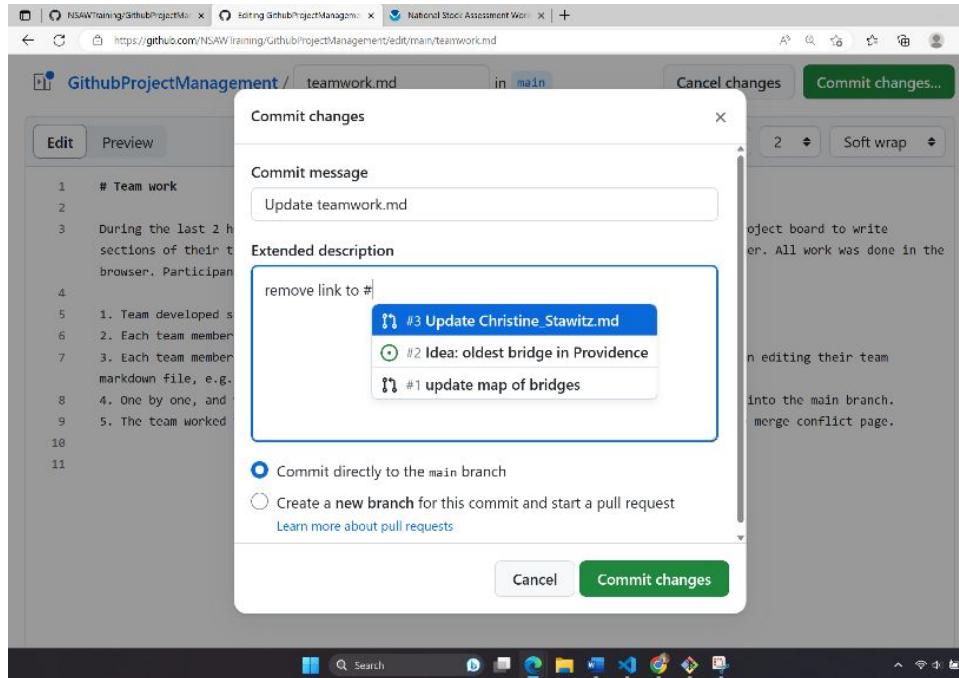
- allow a discussion
- a record of any info needed to resolve that issue
- documents how and when issue resolved

○ 1 Open ✓ 0 Closed

<input type="checkbox"/>	Author ▾	Label ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	○ Idea: oldest bridge in Providence					
	#2 opened 1 hour ago by ChristineStawitz-NOAA					

Next learning steps: GitHub Issues

When you commit a change, type # in the description area to select an issue that the commit addresses.



Next learning steps for GitHub Project Boards

- Create GitHub issues
- Add them to your project board
- Watch them automatically move to done column on your board when you close them

Some more material on these topics

- [RWorkflow 2022 Workshops](#) (1 hr lectures)
- Openscapes GitHub Clinics
 - [Part 1 Contributing from the browser:](#)
 - [Part 2 GitHub Projects](#)

topic

May 20 Git/GitHub, part 1 [lecture](#) – [video](#)

May 27 Git/GitHub, part 2 [lecture](#) – [video](#)

June 3 Agile part 1, Kanban [lecture](#) – [video](#)

June 10 Agile part 2, Scrum [lecture](#) – [video](#)
