Skill Lab – Version Control using Git

Introduction: Git and GitHub are integral tools for modern software development, providing an efficient and collaborative approach to version control. This guide aims to provide a clear and professional overview of Git, GitHub, and their practical usage.

What is Git?

Git is a free and open-source Version Control System (VCS) that facilitates tracking changes in code, maintaining a comprehensive history, and enabling seamless collaboration within development teams. It is widely adopted and considered a staple in the software development workflow.

What is GitHub?

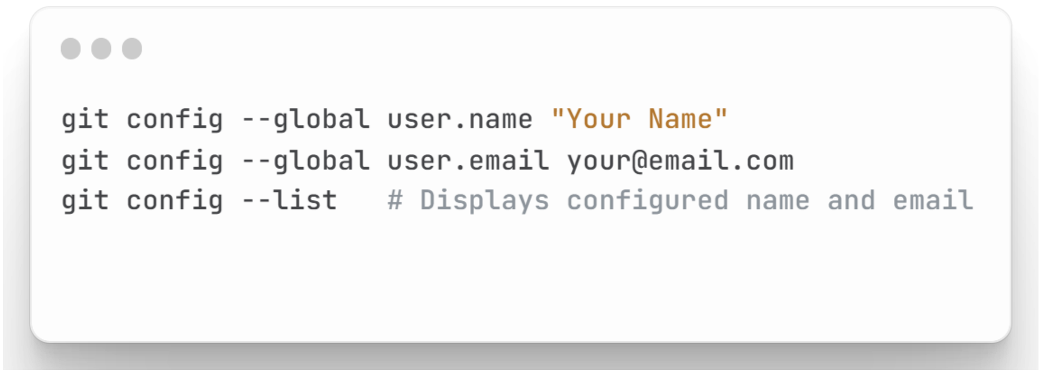
GitHub is a web-based platform for hosting Git repositories. It serves as a centralized hub for developers to store, collaborate, and manage their projects online. The README.md file, written in Markdown, is a key component within GitHub repositories, providing project details and documentation.

Using Git

1. **Command Line (Most Popular):** Git's command-line interface is the most widely used method for interacting with repositories. It offers a powerful and flexible way to manage code.
2. **IDEs and Code Editors (e.g., VS Code):** Integrated Development Environments (IDEs) and code editors, such as Visual Studio Code, offer user-friendly interfaces and seamless Git integration, making version control accessible during the development process.
3. **Graphical User Interface (e.g., GitKraken):** Git can also be utilized through graphical user interfaces like GitKraken, providing a visual representation of the version control process for those who prefer a more intuitive approach.

Configuring Git

Ensure your identity is correctly set up for Git usage by configuring your global settings:



```
git config --global user.name "Your Name"
git config --global user.email your@email.com
git config --list   # Displays configured name and email
```

Basic Commands

1. **Clone**
   Clone a repository onto your local machine using the following command

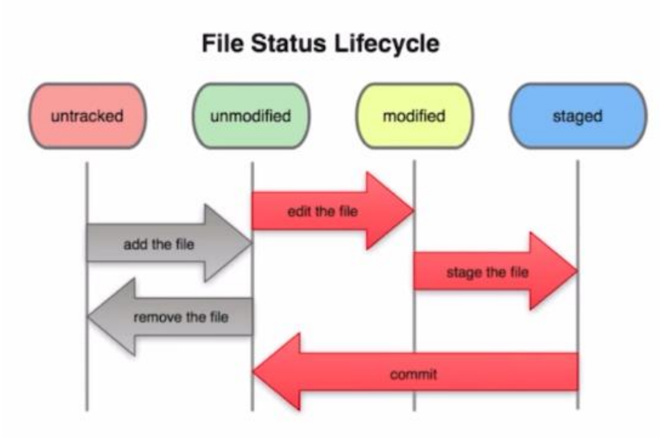
```
• git clone <repository_link>
```

2. **Status**
   Check the state of your code with:

```
• git status
```

3. **View Hidden Files**
   To view hidden files in Git, use:

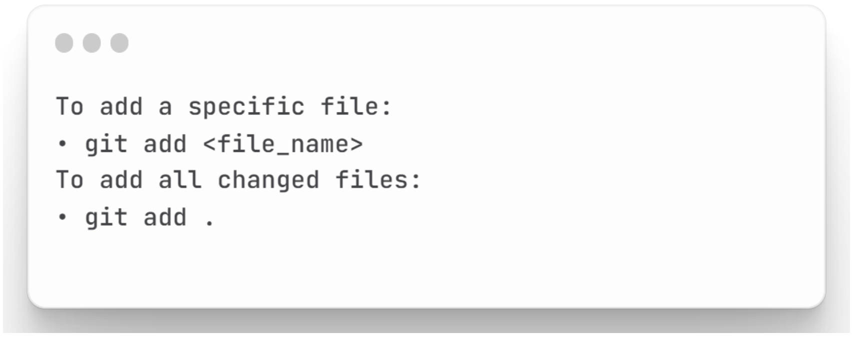
```
ls -a
```



Committing Changes in Git:

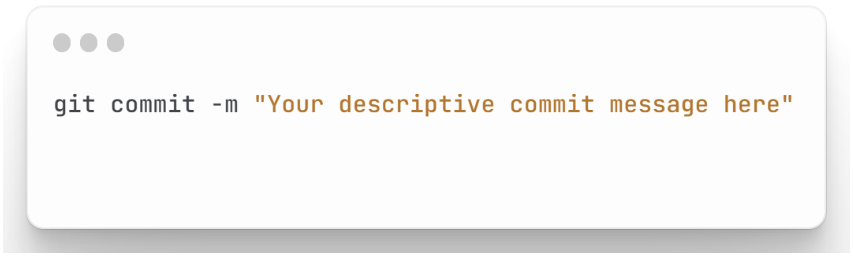
After making changes to your code, it's essential to follow a structured process to incorporate those changes into your Git repository. This involves using the **add**, **commit**, and **push** commands.

1. **Add**
   The **add** command is used to stage changes for commit. You can add specific files or all modified files in your working directory.



```
To add a specific file:
• git add <file_name>
To add all changed files:
• git add .
```

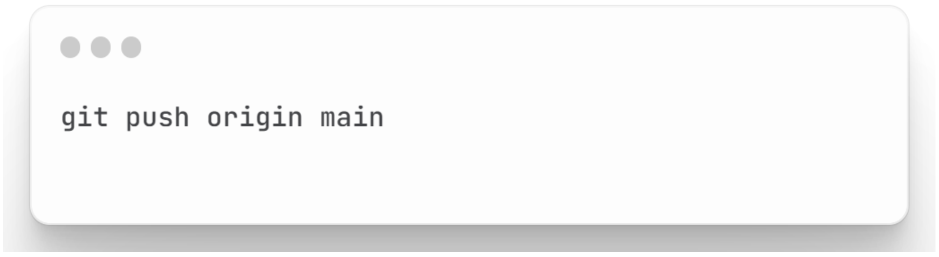
2. **Commit**
   The **commit** command creates a record of the changes you've staged. It's important to include a meaningful commit message to describe the purpose of the changes.



```
git commit -m "Your descriptive commit message here"
```

   Ensure your commit messages are clear and concise, providing context about the modifications made.

3. **Push**
   After committing changes locally, you'll want to upload them to the remote repository. The **push** command accomplishes this by sending your local changes to the specified branch on the remote repository.



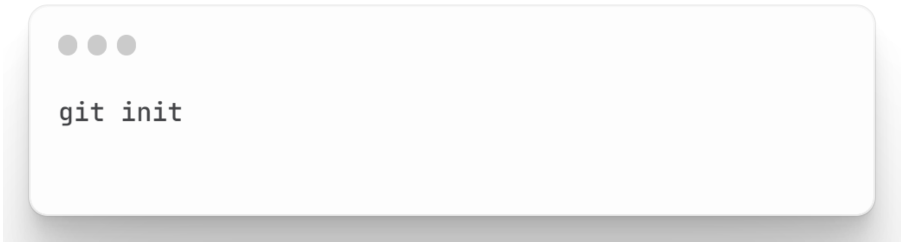
```
git push origin main
```

   Here, replace **main** with the branch you're working on if it's different. Ensure that your local branch is tracking the remote branch.

Initializing a New Git Repository:

The **git init** command is a fundamental step when creating a new Git repository. Below is a step-by-step guide, including commands, to help you initiate a new Git repository, add files, and interact with a remote repository on GitHub.

1. **Initialize a New Git Repository:**
   Use the following command to create a new, empty Git repository in your current working directory:



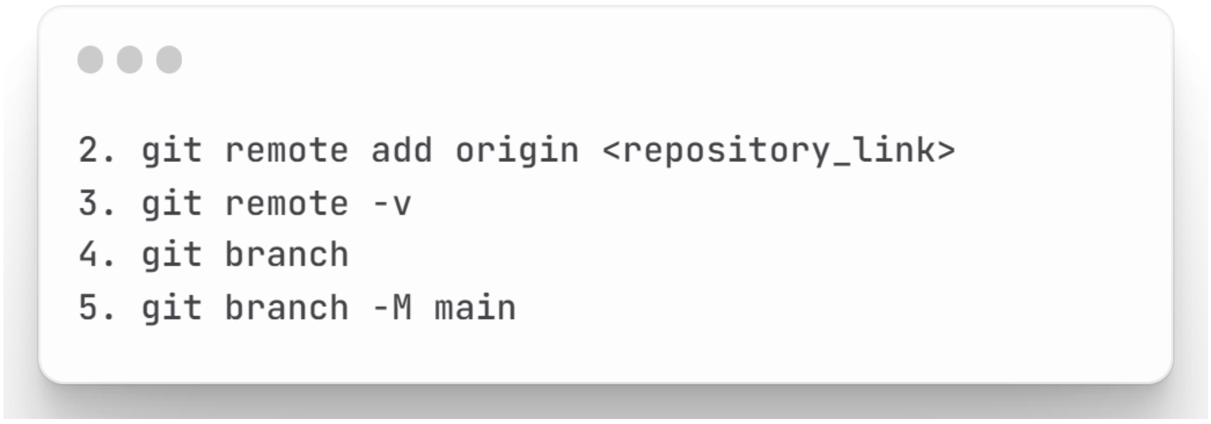
```
git init
```

2. **Adding a Remote Repository (GitHub, for example):**
   After creating a new repository on GitHub, use the following command to link your local repository to the remote one:

3. **Verify Remote Repository:**
   To confirm the remote repository linked, use:

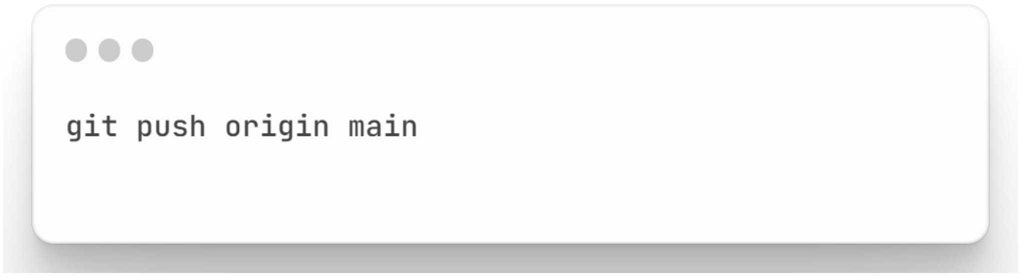
4. **Checking Branches:**
   To see the available branches in your repository:

5. **Rename the Default Branch (if necessary):**
   If you want to rename the default branch (e.g., from "master" to "main"), use:



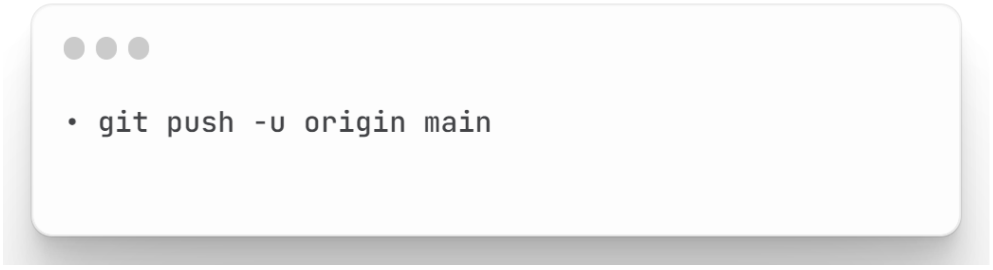
```
2. git remote add origin <repository_link>
3. git remote -v
4. git branch
5. git branch -M main
```

6. **Pushing Changes to the Remote Repository:**
   After making changes and committing, use the following command to push your changes to the remote repository:



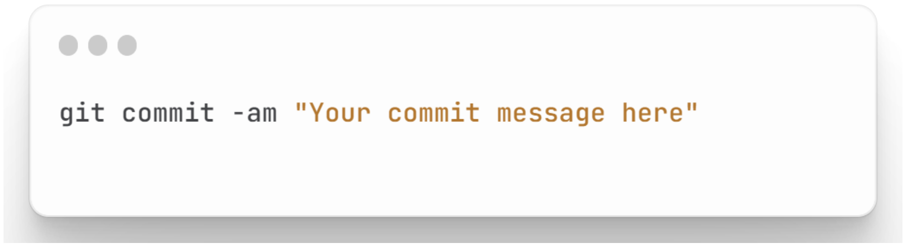
```
git push origin main
```

   If it's the first push, you can use the **-u** flag to set the upstream branch. This allows you to use **git push** without specifying the remote branch and local branch names in the future:



```
• git push -u origin main
```

7. **Quickly Add and Commit Changes:**
   If you've edited a single file and want to add and commit it in one go, you can use the **-am** flags:



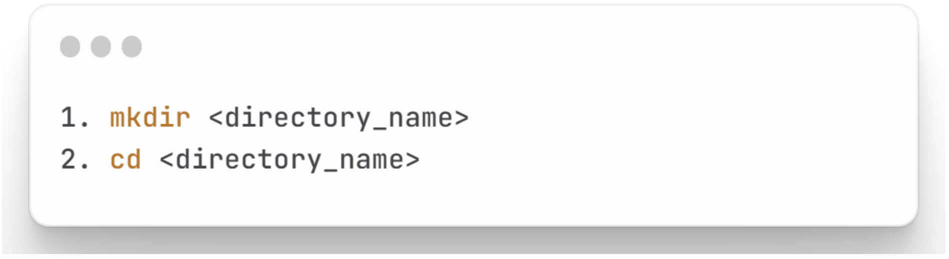
```
git commit -am "Your commit message here"
```

   This command stages and commits all changes, including new and modified files, with a single command.

Creating a New Directory in Your Git Repository:
When establishing a new directory within your Git repository, adhere to the following commands:

1. **Create a New Directory:**
   Utilize the **mkdir** command to generate a new directory. For instance:
   This command ensures the creation of a new folder in your existing project structure.

2. **Navigate to the New Directory:**
   Transition into the freshly created directory by executing:



```
mkdir <directory_name>
cd <directory_name>
```

Effective Branch Management Commands in Git:
Managing branches is a crucial aspect of version control in Git. Below are key commands for branch management, along with explanations and examples:

1. **Check Available Branches:**
   To view a list of existing branches in your repository:

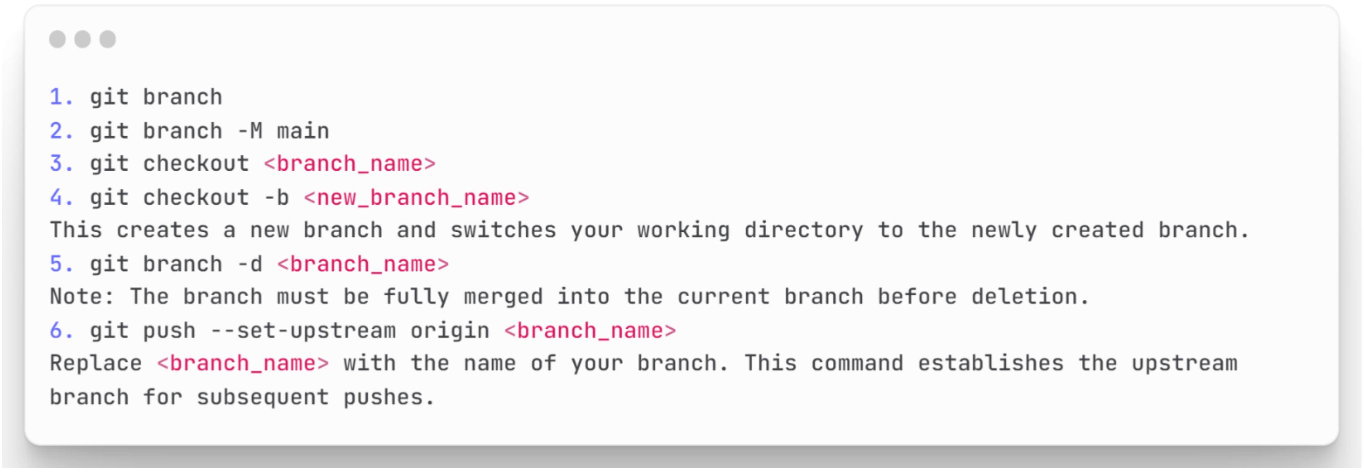
2. **Rename a Branch:**
   If you need to rename a branch, for example, from "master" to "main," use:

3. **Switch to a Different Branch:**
   To navigate between branches, use the git checkout command:

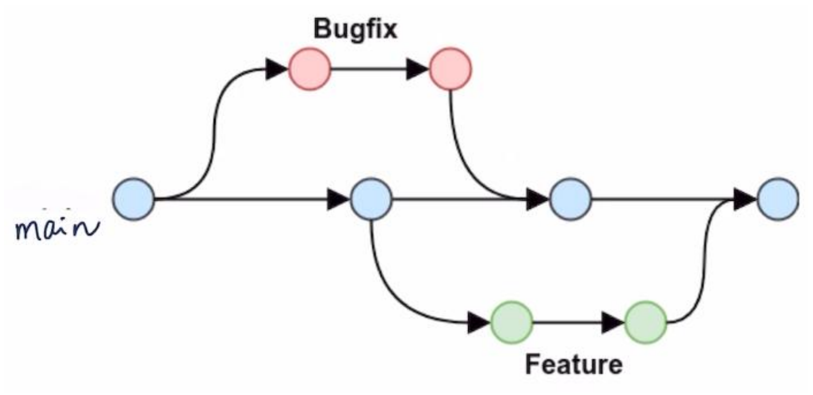
4. **Create a New Branch:**
   To create a new branch and switch to it in one go, use the -b option with git checkout:

5. **Delete a Branch:**
   If a branch is no longer needed, use the following command to delete it:

6. **Push a Branch with Upstream:**
   If you attempt to push a branch without an upstream branch, Git will provide guidance on setting it:



```
1. git branch
2. git branch -M main
3. git checkout <branch_name>
4. git checkout -b <new_branch_name>
This creates a new branch and switches your working directory to the newly created branch.
5. git branch -d <branch_name>
Note: The branch must be fully merged into the current branch before deletion.
6. git push --set-upstream origin <branch_name>
Replace <branch_name> with the name of your branch. This command establishes the upstream
branch for subsequent pushes.
```



Efficient Code Merging and Mistake Resolution in Git:

Merging Code:

1. **Compare Branches:**
   Utilize the **git diff** command to compare commits, branches, files, and more. To compare branches:

```
git diff <branch_name>
```

2. **Merge Branches:**
   To merge two branches, use the git merge command:

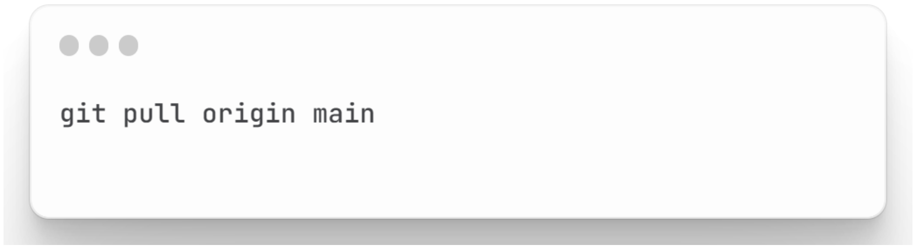
```
git merge <branch_name>
```

   Alternatively, create a Pull Request (PR) in GitHub to propose and merge changes.

Pull Request (PR):

1. **Create a Pull Request:**
   Initiate changes in GitHub, creating a PR to inform others about modifications pushed to a branch:
   In GitHub, click on "Compare & pull request."
   Provide comments and details, allowing teammates to understand the changes.
   After merging, differences between the main and feature branches can be reviewed.

2. **Update Local System with Changes:**
   To view changes in your local system, use:

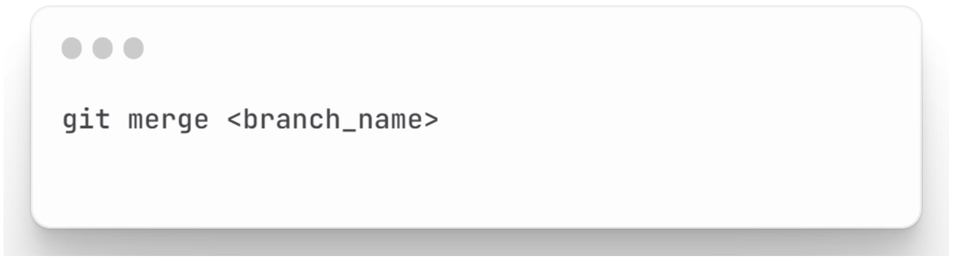


```
git pull origin main
```

   This fetches and downloads content from the remote repository, updating the local repository.

Merge Conflicts:

An event that takes place when Git is unable to automatically resolve differences in code between two commits.



```
git merge <branch_name>
```

SSH - Secure Shell

SSH (Secure Shell) is a protocol used to securely log onto remote systems or transfer data over unsecured networks. In the context of Git, it acts as a secure "tunnel" that identifies you using a cryptographic key pair rather than a username and password.

Difference between SSH vs. HTTP (HTTPS)

1. Authentication Method

- **SSH:** Uses a cryptographic key pair (a public file and a private file stored on your computer).
- **HTTPS:** Uses a username and Personal Access Token (essentially a password).

2. Daily Convenience

- **SSH:** Set it and forget it. Once configured, you never have to type a password again when pushing/pulling code.
- **HTTPS:** Often requires you to enter credentials periodically, unless you set up a specific "Credential Manager" to cache them.

3. Initial Setup

- **SSH:** Harder. You must generate keys, copy specific codes, and paste them into GitHub/GitLab settings.
- **HTTPS:** Easiest. You just copy the URL (`https://...`) and run the clone command immediately.

4. Firewall & Network Issues

- **SSH:** Uses **Port 22**. Strict corporate or university Wi-Fi networks sometimes block this port (security restrictions).
- **HTTPS:** Uses **Port 443**. This is standard web traffic (same as browsing Google), so it is rarely blocked.

5. URL Format

- **SSH:** Looks like: **`git@github.com:username/repo.git`**
- **HTTPS:** Looks like: **`https://github.com/username/repo.git`**

Steps to Create & Add SSH Keys

1. **Generate the Key**

- Open your terminal (Git Bash on Windows).
- Run the command –

```
ssh-keygen -t ed25519 -C your_email@example.com
```

- Press Enter to accept default file location.
- Press Enter twice (skip the passphrase for now to keep it simple).
- Copy the Public Key

2. **Add Key to the Platform**

- **GitHub**

1. Go to **Settings** (in profile icon).
2. Select **SSH and GPG keys**
3. Click **New SSH key**
4. Title: "Suitable_Title" -> Paste key -> Click **Add SSH key**.

- **GitLab**

1. Go to **Preferences** (or Edit Profile).
2. Select **SSH Keys**
3. Click **Add new key**.

4. Paste key into the "Key" box -> Click **Add key**.

• **Bitbucket**

1. Go to **Personal Settings** (gear icon).
2. Select **SSH Keys** (under Security).
3. Click **Add Key**.
4. Paste key -> Click **Add Key**.

3. Link Key with Agent

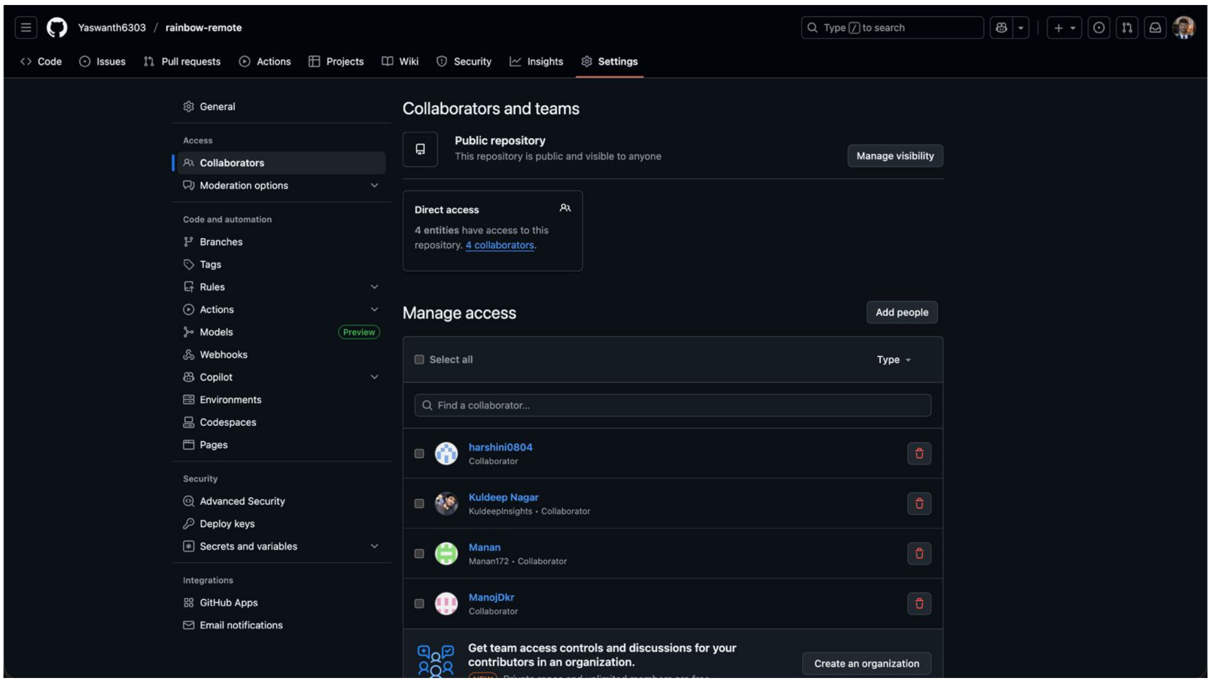
The user adds the Private Key to the Agent. This allows you to use the key without being asked for permission every time.

For Windows (Git Bash):

- Start the agent **eval "$(ssh-agent -s)"**
- Add your private key **ssh-add ~/.ssh/id_ed25519**

Version Control & Collaboration Details

G Yaswanth



Collaborators and teams

Public repository
This repository is public and visible to anyone
Manage visibility

Direct access
4 entities have access to this repository. 4 collaborators.

Manage access
Add people

Select all
Type

Find a collaborator…

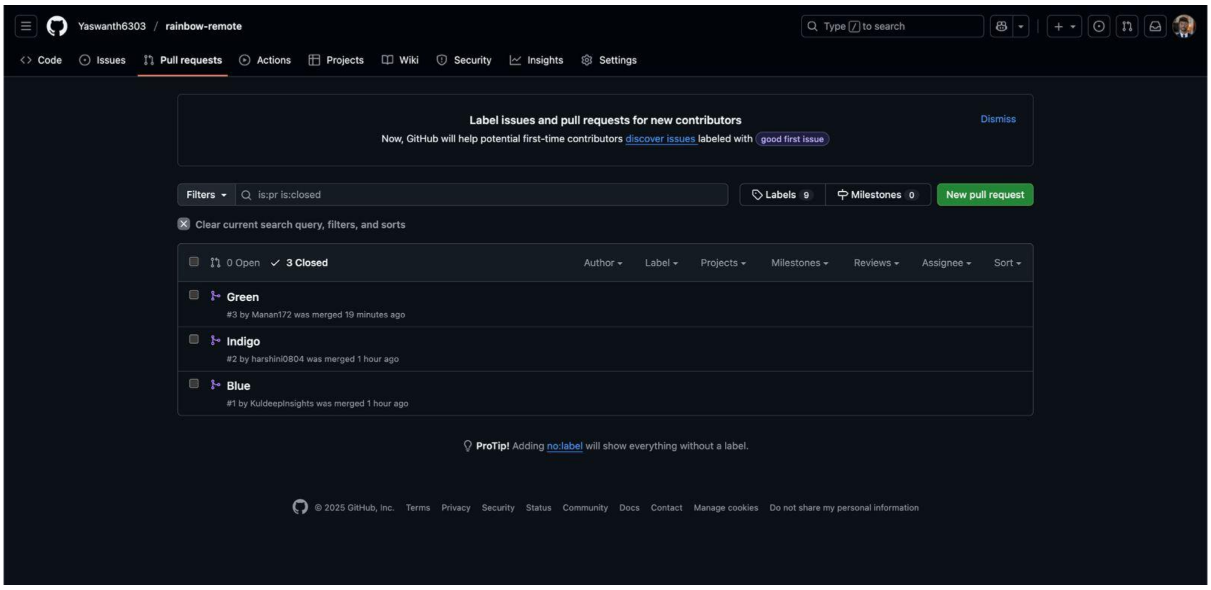
harshini0804
Collaborator

Kuldeep Nagar
KuldeepInsights • Collaborator

Manan
Manan172 • Collaborator

ManojDkr
Collaborator

Get team access controls and discussions for your contributors in an organization.
Create an organization



Label issues and pull requests for new contributors

Now, GitHub will help potential first-time contributors discover issues labeled with good first issue

is:pr is:closed

Clear current search query, filters, and sorts

0 Open ✓ 3 Closed

Green
#3 by Manan172 was merged 19 minutes ago

Indigo
#2 by harshini0804 was merged 1 hour ago

Blue
#1 by KuldeepInsights was merged 1 hour ago

ProTip! Adding no:label will show everything without a label.

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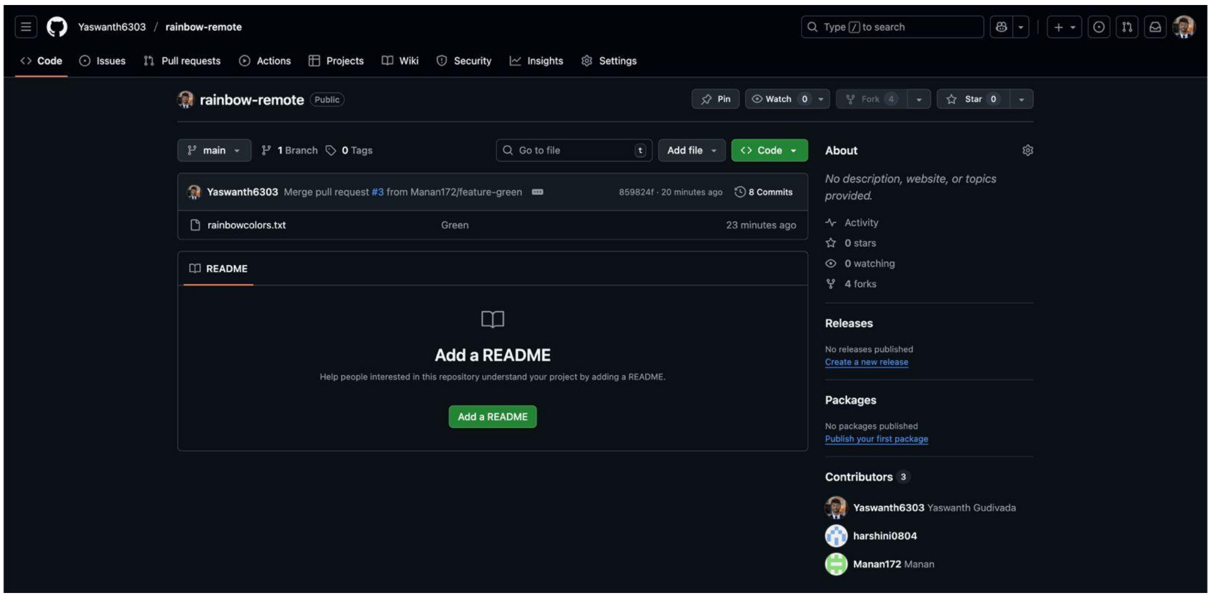


rainbow-remote Public

Yaswanth6303 Merge pull request #3 from Manan172/feature-green 859824f · 20 minutes ago 8 Commits

rainbowcolors.txt	Green	23 minutes ago

Add a README

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

About

No description, website, or topics provided.

Activity
0 stars
0 watching
4 forks

Releases

No releases published
Create a new release

Packages

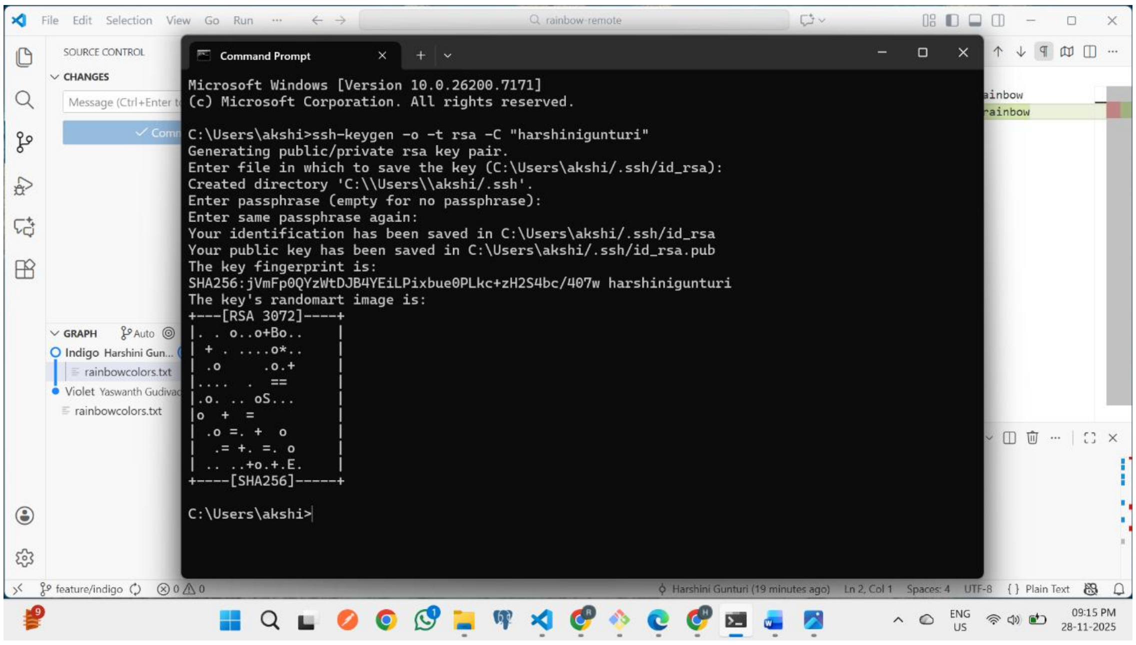
No packages published
Publish your first package

Contributors 3

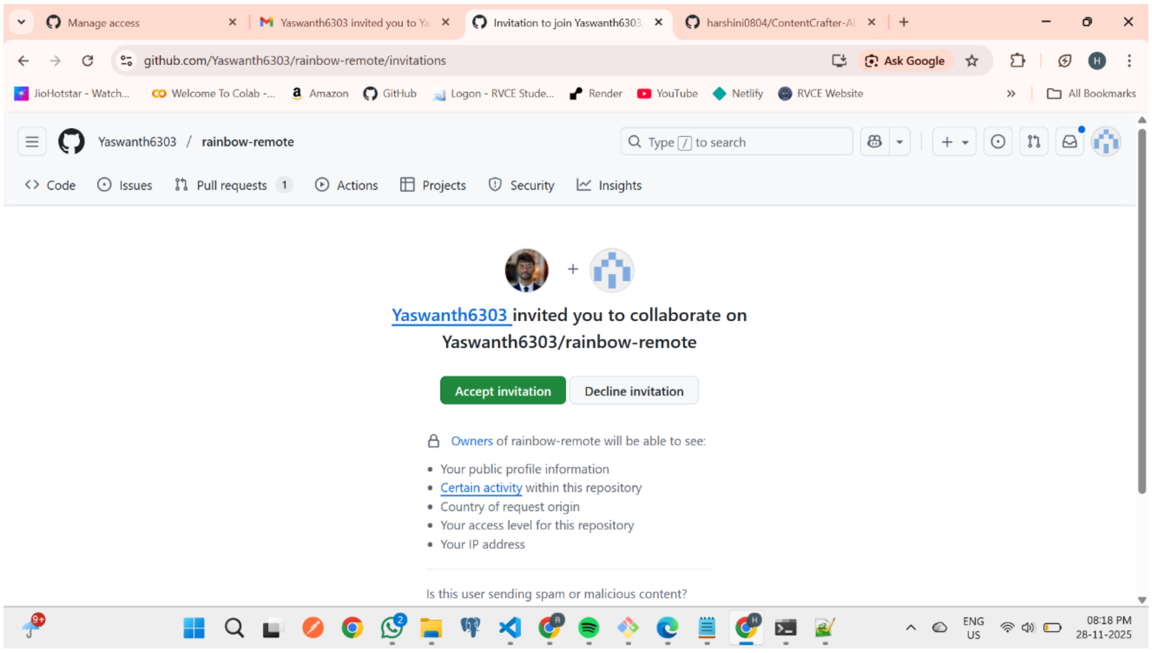
Yaswanth6303 Yaswanth Gudivada
harshini0804
Manan172 Manan

Screenshots of Contributors

1.Gunturi Harshini



```
Microsoft Windows [Version 10.0.26200.7171]
(c) Microsoft Corporation. All rights reserved.

C:\Users\akshi>ssh-keygen -o -t rsa -C "harshinigunturi"
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\akshi/.ssh/id_rsa):
Created directory 'C:\\Users\\akshi/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\akshi/.ssh/id_rsa
Your public key has been saved in C:\Users\akshi/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:jVmFp0QYzWtDJB4YEiLPixbue0PLkc+zH2S4bc/407w harshinigunturi
The key's randomart image is:
+---[RSA 3072]----+
|. . o..o+Bo..    |
| + . ....o*..    |
| .o     .o.+     |
|....  .  ==      |
|.o. .. oS...     |
|o  +  =          |
| .o =. +  o      |
|  .= +. =. o     |
| .. ..+o.+.E.    |
+----[SHA256]-----+

C:\Users\akshi>
```



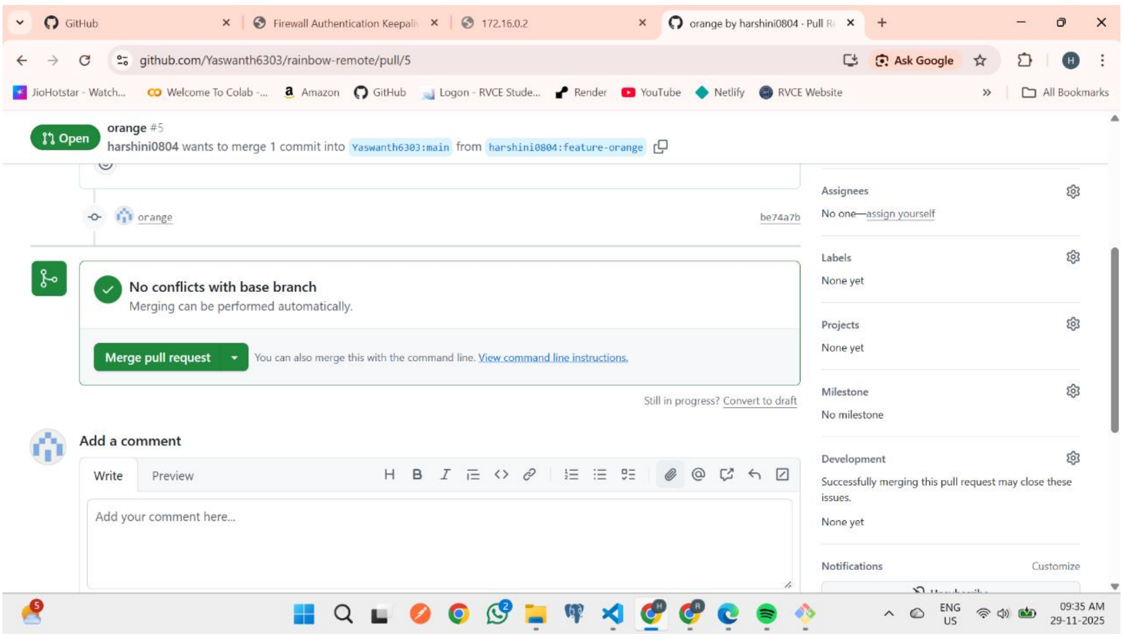
github.com/Yaswanth6303/rainbow-remote/invitations

Yaswanth6303 invited you to collaborate on Yaswanth6303/rainbow-remote

Owners of rainbow-remote will be able to see:

- Your public profile information
- Certain activity within this repository
- Country of request origin
- Your access level for this repository
- Your IP address

Is this user sending spam or malicious content?



orange #5
harshini0804 wants to merge 1 commit into `Yaswanth6303:main` from `harshini0804:feature-orange`

orange be74a7b

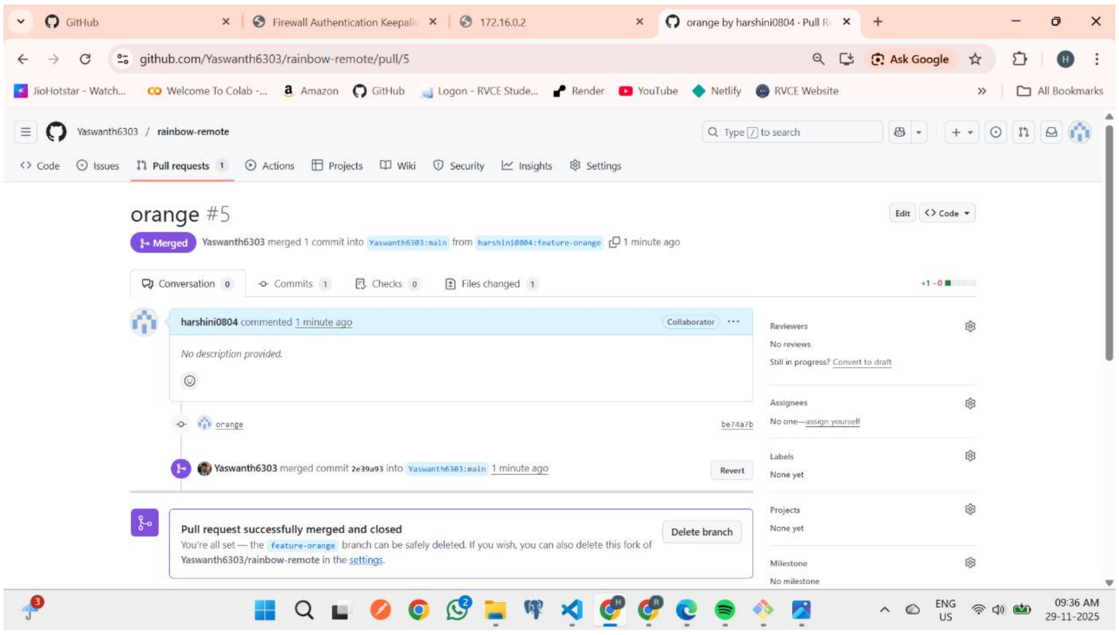
No conflicts with base branch
Merging can be performed automatically.

Merge pull request — You can also merge this with the command line. View command line instructions.

Still in progress? Convert to draft

Add a comment
Add your comment here...

Assignees: No one—assign yourself
Labels: None yet
Projects: None yet
Milestone: No milestone
Development: Successfully merging this pull request may close these issues. None yet
Notifications



github.com/Yaswanth6303/rainbow-remote/pull/5

Yaswanth6303 / rainbow-remote

orange #5
Merged — Yaswanth6303 merged 1 commit into `Yaswanth6303:main` from `harshini0804:feature-orange` 1 minute ago

Conversation 0 · Commits 1 · Checks 0 · Files changed 1 · +1 −0

harshini0804 commented 1 minute ago — Collaborator
No description provided.

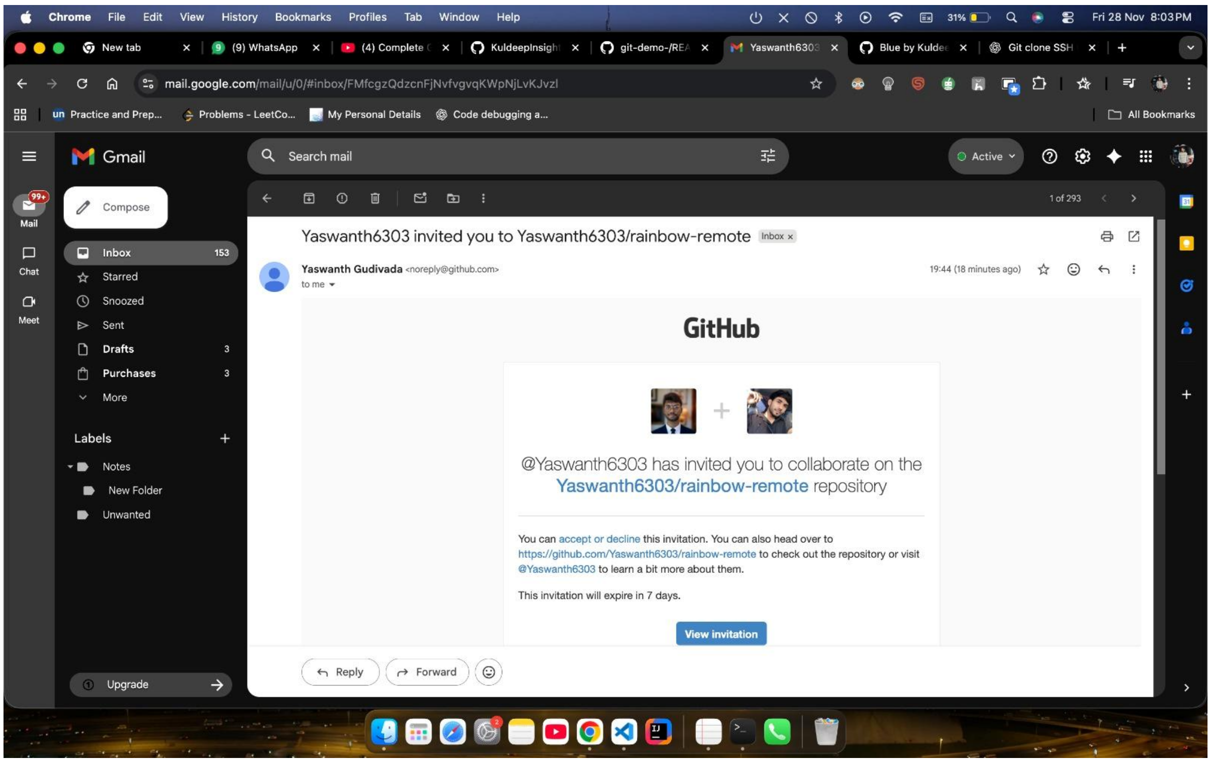
orange be74a7b

Yaswanth6303 merged commit `2e39a93` into `Yaswanth6303:main` 1 minute ago — Revert

Pull request successfully merged and closed
You're all set — the `feature-orange` branch can be safely deleted. If you wish, you can also delete this fork of Yaswanth6303/rainbow-remote in the settings.
Delete branch

Reviewers: No reviews. Still in progress? Convert to draft
Assignees: No one—assign yourself
Labels: None yet
Projects: None yet
Milestone: No milestone

2.Kuldeep Nagar



Yaswanth6303 invited you to Yaswanth6303/rainbow-remote Inbox

Yaswanth Gudivada <noreply@github.com>
to me
19:44 (18 minutes ago)

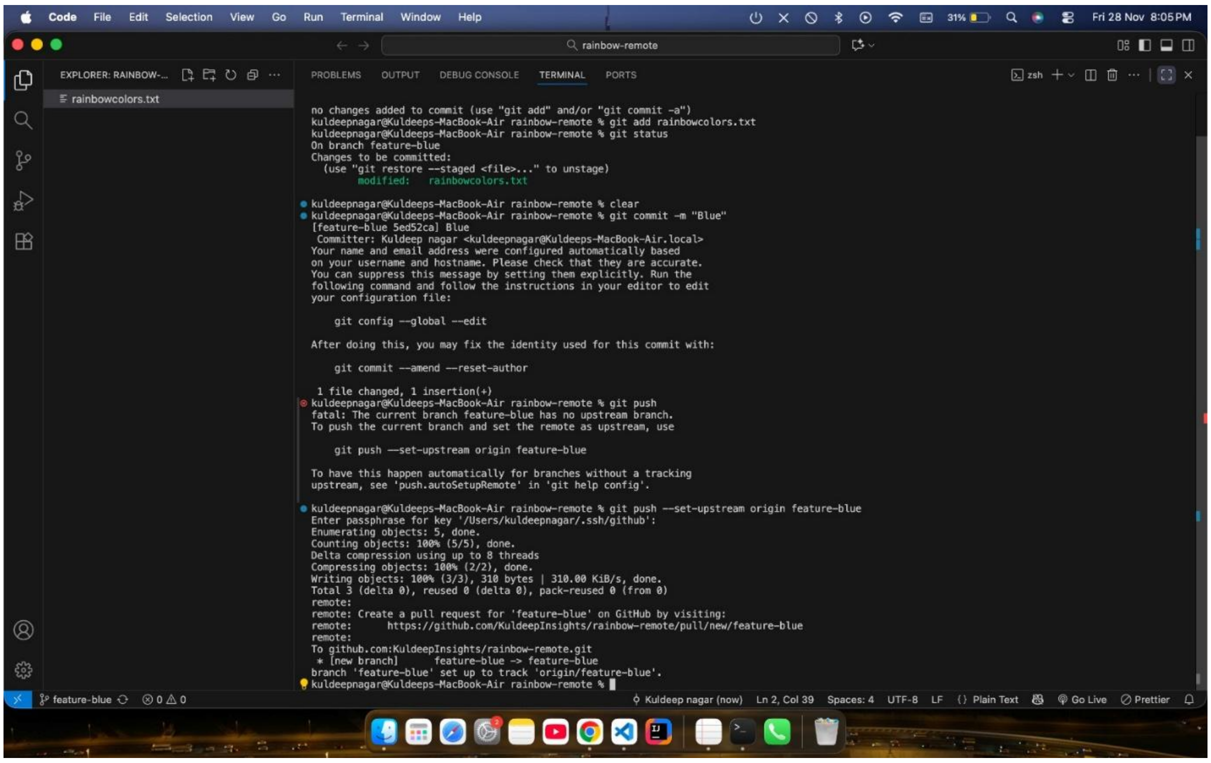
GitHub

@Yaswanth6303 has invited you to collaborate on the Yaswanth6303/rainbow-remote repository

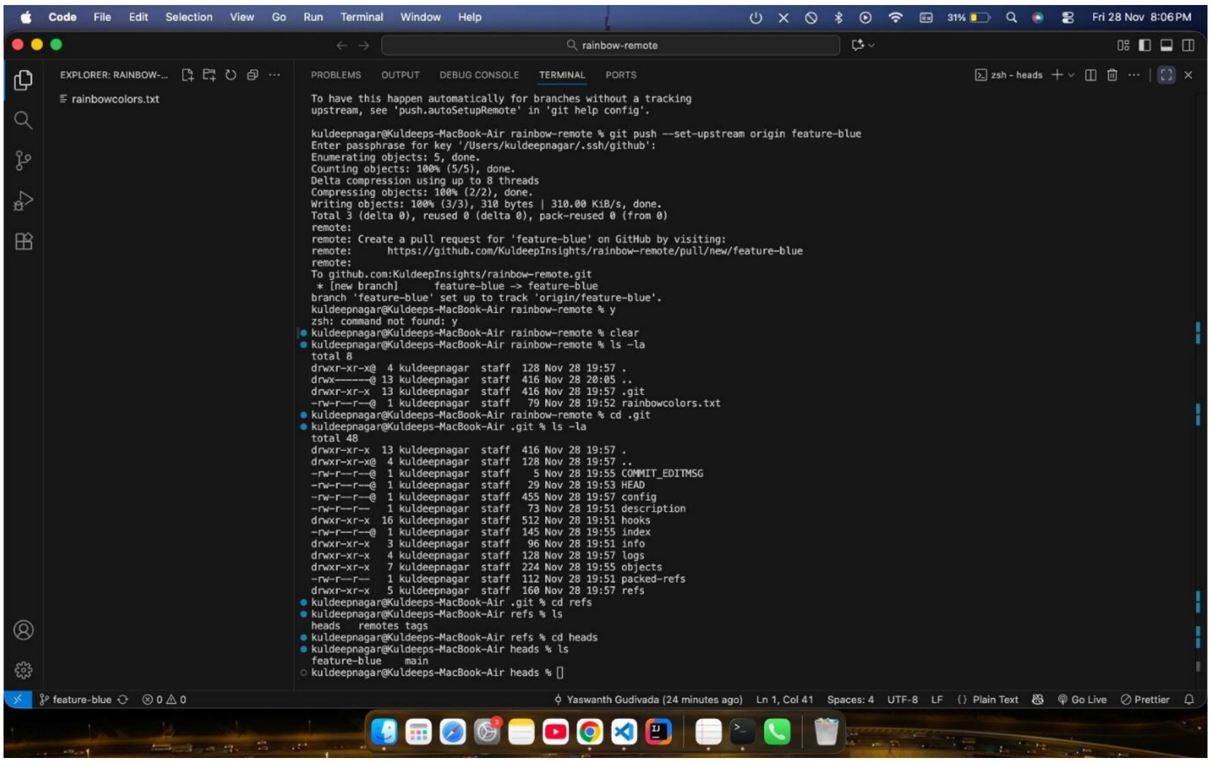
You can accept or decline this invitation. You can also head over to https://github.com/Yaswanth6303/rainbow-remote to check out the repository or visit @Yaswanth6303 to learn a bit more about them.

This invitation will expire in 7 days.

View invitation

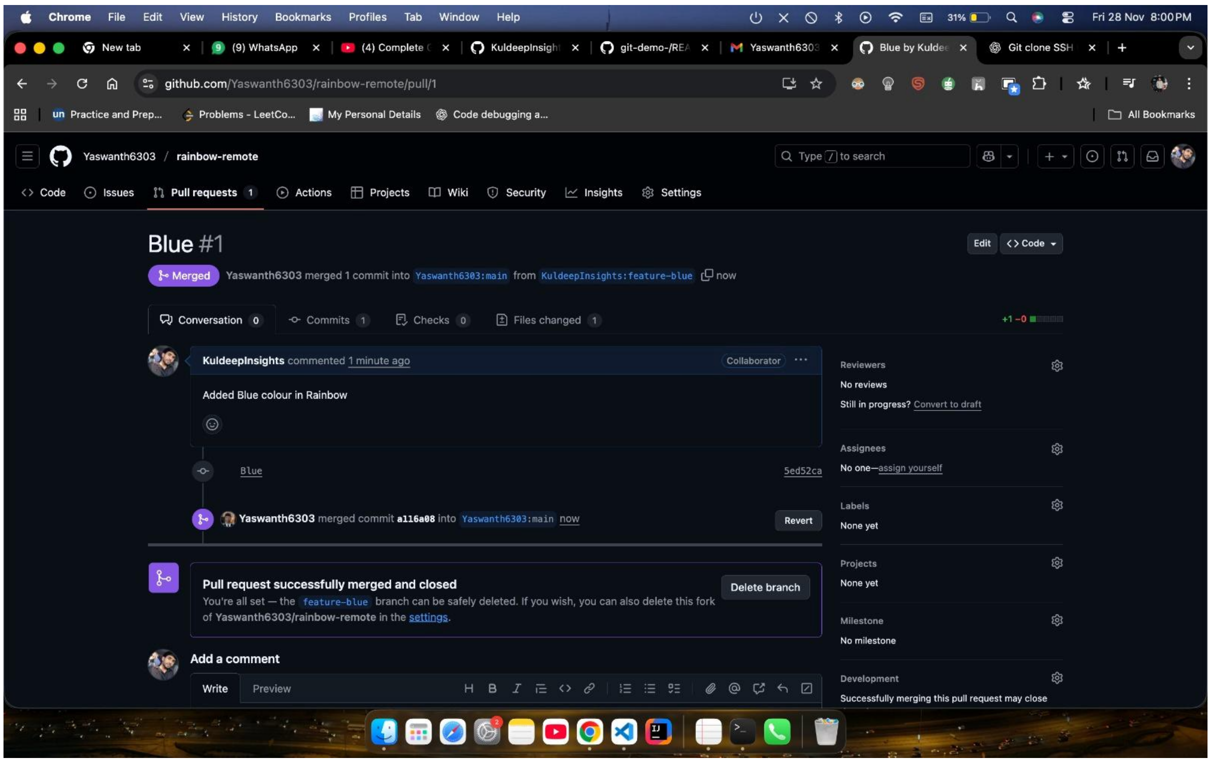


```
no changes added to commit (use "git add" and/or "git commit -a")
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % git add rainbowcolors.txt
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % git status
On branch feature-blue
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   rainbowcolors.txt

kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % clear
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % git commit -m "Blue"
[feature-blue 5ed52ca] Blue
 Committer: Kuldeep nagar <kuldeepnagar@Kuldeeps-MacBook-Air.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 1 file changed, 1 insertion(+)
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % git push
fatal: The current branch feature-blue has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature-blue

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % git push --set-upstream origin feature-blue
Enter passphrase for key '/Users/kuldeepnagar/.ssh/github':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 310 bytes | 310.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature-blue' on GitHub by visiting:
remote:      https://github.com/KuldeepInsights/rainbow-remote/pull/new/feature-blue
remote:
To github.com:KuldeepInsights/rainbow-remote.git
 * [new branch]      feature-blue -> feature-blue
branch 'feature-blue' set up to track 'origin/feature-blue'.
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote %
```



```
To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % git push --set-upstream origin feature-blue
Enter passphrase for key '/Users/kuldeepnagar/.ssh/github':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 310 bytes | 310.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature-blue' on GitHub by visiting:
remote:      https://github.com/KuldeepInsights/rainbow-remote/pull/new/feature-blue
remote:
To github.com:KuldeepInsights/rainbow-remote.git
 * [new branch]      feature-blue -> feature-blue
branch 'feature-blue' set up to track 'origin/feature-blue'.
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % y
zsh: command not found: y
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % clear
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % ls -la
total 8
drwxr-xr-x@  4 kuldeepnagar  staff  128 Nov 28 19:57 .
drwx------@ 13 kuldeepnagar  staff  416 Nov 28 20:05 ..
drwxr-xr-x  13 kuldeepnagar  staff  416 Nov 28 19:57 .git
-rw-r--r--@  1 kuldeepnagar  staff   79 Nov 28 19:52 rainbowcolors.txt
kuldeepnagar@Kuldeeps-MacBook-Air rainbow-remote % cd .git
kuldeepnagar@Kuldeeps-MacBook-Air .git % ls -la
total 48
drwxr-xr-x  13 kuldeepnagar  staff  416 Nov 28 19:57 .
drwxr-xr-x@  4 kuldeepnagar  staff  128 Nov 28 19:57 ..
-rw-r--r--@  1 kuldeepnagar  staff    5 Nov 28 19:55 COMMIT_EDITMSG
-rw-r--r--@  1 kuldeepnagar  staff   29 Nov 28 19:53 HEAD
-rw-r--r--@  1 kuldeepnagar  staff  455 Nov 28 19:57 config
-rw-r--r--   1 kuldeepnagar  staff   73 Nov 28 19:51 description
drwxr-xr-x  16 kuldeepnagar  staff  512 Nov 28 19:51 hooks
-rw-r--r--@  1 kuldeepnagar  staff  145 Nov 28 19:55 index
drwxr-xr-x   3 kuldeepnagar  staff   96 Nov 28 19:51 info
drwxr-xr-x   4 kuldeepnagar  staff  128 Nov 28 19:57 logs
drwxr-xr-x   7 kuldeepnagar  staff  224 Nov 28 19:55 objects
-rw-r--r--   1 kuldeepnagar  staff  112 Nov 28 19:51 packed-refs
drwxr-xr-x   5 kuldeepnagar  staff  160 Nov 28 19:57 refs
kuldeepnagar@Kuldeeps-MacBook-Air .git % cd refs
kuldeepnagar@Kuldeeps-MacBook-Air refs % ls
heads   remotes tags
kuldeepnagar@Kuldeeps-MacBook-Air refs % cd heads
kuldeepnagar@Kuldeeps-MacBook-Air heads % ls
feature-blue    main
kuldeepnagar@Kuldeeps-MacBook-Air heads % 
```

Code File Edit Selection View Go Run Terminal Window Help
Fri 28 Nov 8:06 PM
rainbow-remote
EXPLORER: RAINBOW-...
rainbowcolors.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
zsh - heads
feature-blue
Yaswanth Gudivada (24 minutes ago) Ln 1, Col 41 Spaces: 4 UTF-8 LF Plain Text Go Live Prettier



Blue #1

Merged Yaswanth6303 merged 1 commit into `Yaswanth6303:main` from `KuldeepInsights:feature-blue` now

KuldeepInsights commented 1 minute ago

Added Blue colour in Rainbow

Blue 5ed52ca

Yaswanth6303 merged commit **a116a08** into `Yaswanth6303:main` now

Pull request successfully merged and closed
You're all set — the `feature-blue` branch can be safely deleted. If you wish, you can also delete this fork of Yaswanth6303/rainbow-remote in the settings.

Add a comment

Reviewers
No reviews
Still in progress? Convert to draft

Assignees
No one—assign yourself

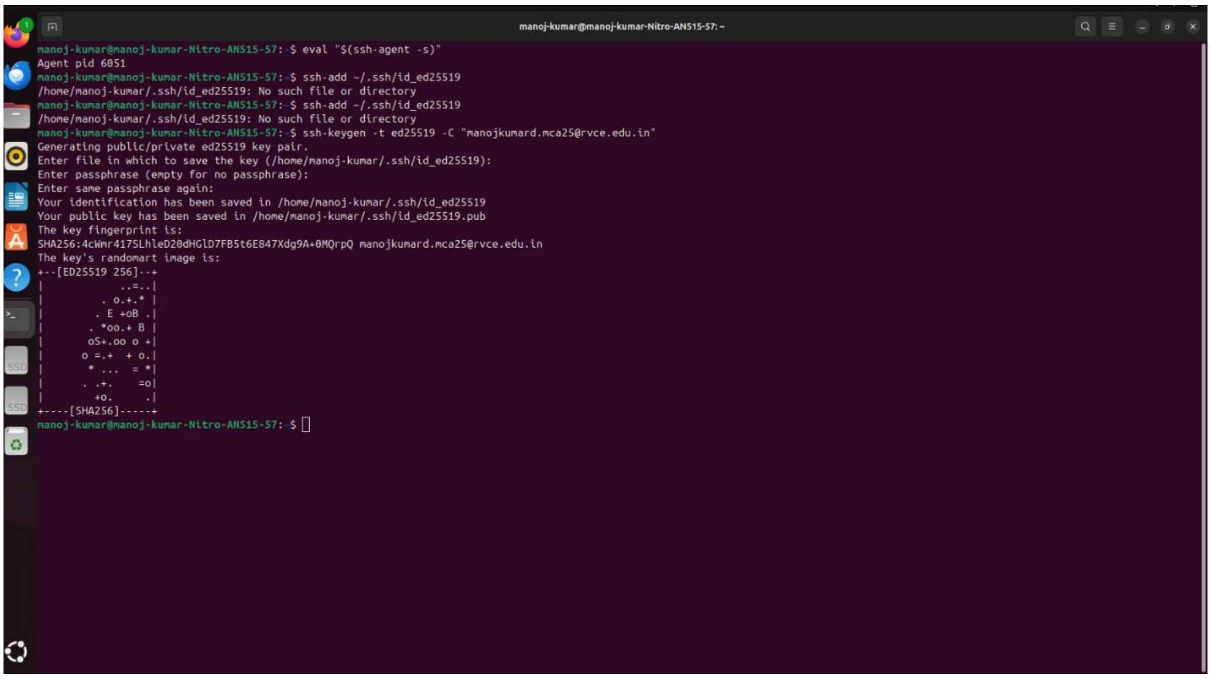
Labels
None yet

Projects
None yet

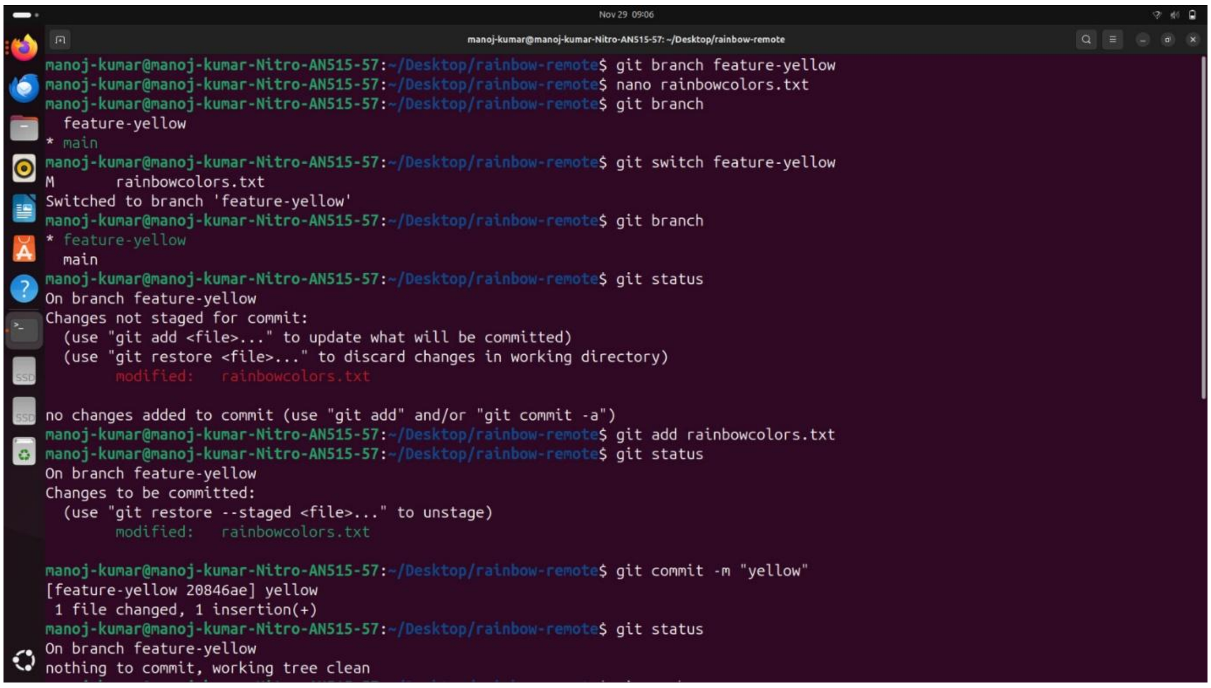
Milestone
No milestone

Development
Successfully merging this pull request may close

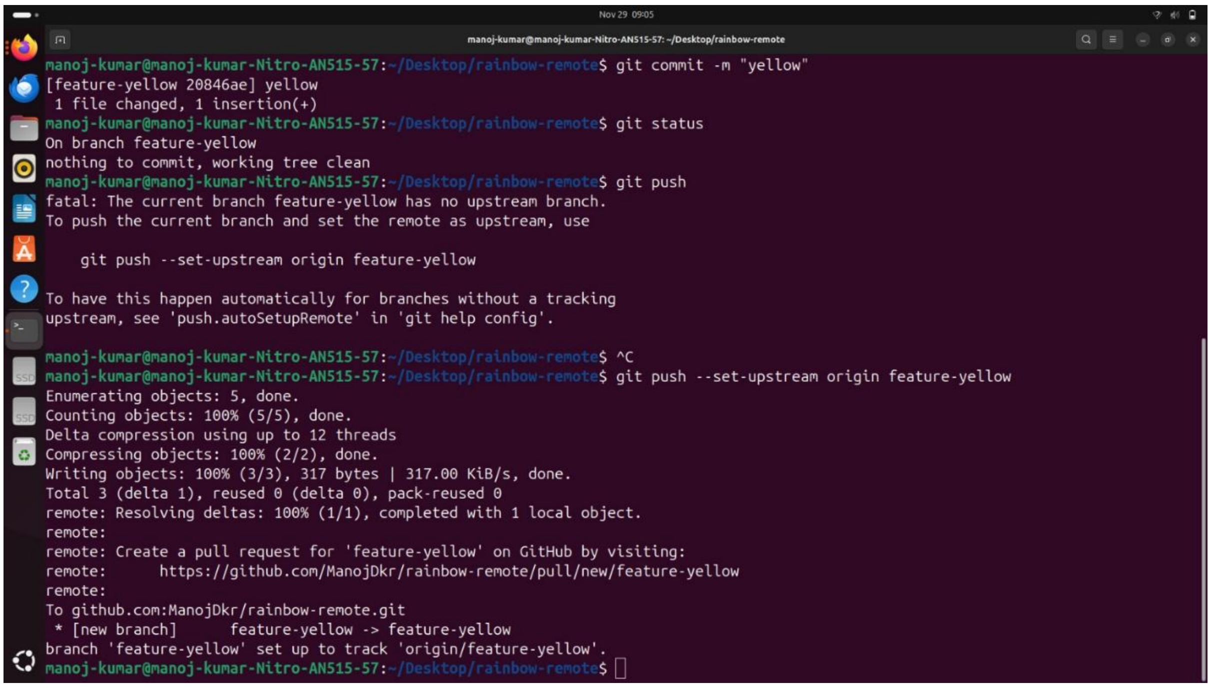
3.Manoj Kumar



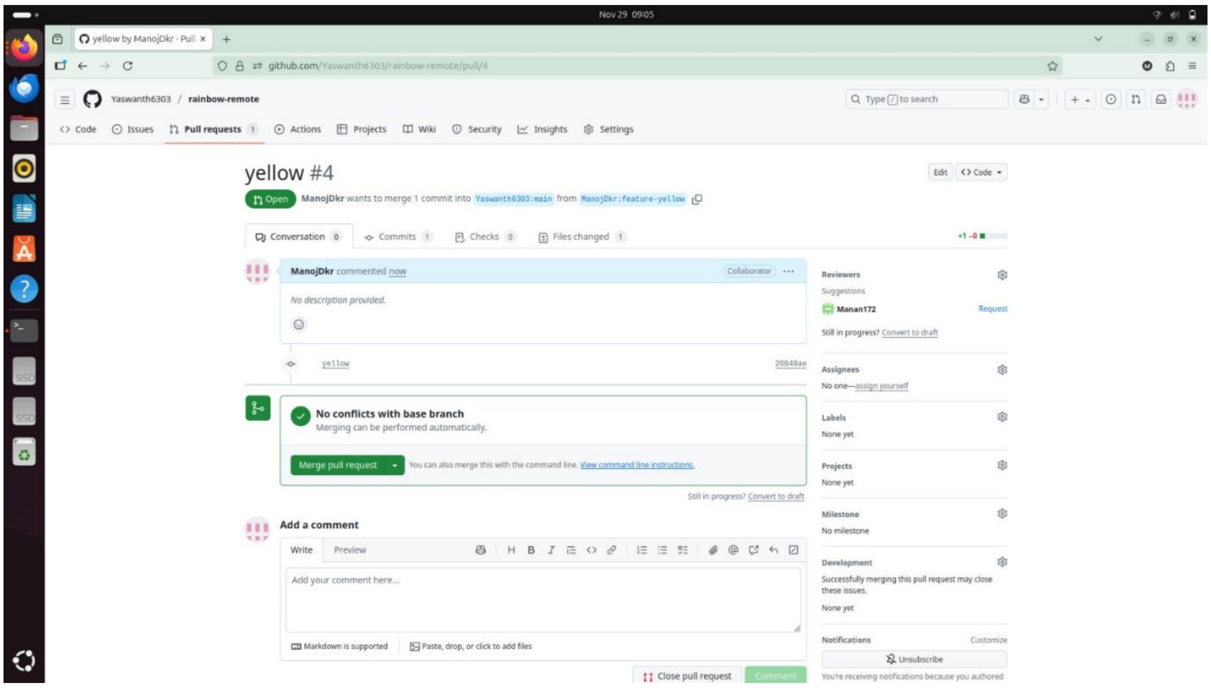
```
manoj-kumar@manoj-kumar-Nitro-AN515-57:~$ eval "$(ssh-agent -s)"
Agent pid 6051
manoj-kumar@manoj-kumar-Nitro-AN515-57:~$ ssh-add ~/.ssh/id_ed25519
/home/manoj-kumar/.ssh/id_ed25519: No such file or directory
manoj-kumar@manoj-kumar-Nitro-AN515-57:~$ ssh-add ~/.ssh/id_ed25519
/home/manoj-kumar/.ssh/id_ed25519: No such file or directory
manoj-kumar@manoj-kumar-Nitro-AN515-57:~$ ssh-keygen -t ed25519 -C "manojkumard.mca25@rvce.edu.in"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/manoj-kumar/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/manoj-kumar/.ssh/id_ed25519
Your public key has been saved in /home/manoj-kumar/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:4cWmr417SLhleD20dHGlD7FB5t6E847Xdg9A+0MQrpQ manojkumard.mca25@rvce.edu.in
The key's randomart image is:
+--[ED25519 256]--+
|           ..=..|
|        . o.+.* |
|       . E +oB .|
|      . *oo.+ B |
|      oS+.oo o +|
|     o =.+  + o.|
|      * ...  = *|
|     . .+.    =o|
|       +o.     .|
+----[SHA256]-----+
manoj-kumar@manoj-kumar-Nitro-AN515-57:~$ 
```



```
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git branch feature-yellow
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ nano rainbowcolors.txt
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git branch
  feature-yellow
* main
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git switch feature-yellow
M       rainbowcolors.txt
Switched to branch 'feature-yellow'
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git branch
* feature-yellow
  main
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git status
On branch feature-yellow
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   rainbowcolors.txt

no changes added to commit (use "git add" and/or "git commit -a")
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git add rainbowcolors.txt
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git status
On branch feature-yellow
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   rainbowcolors.txt

manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git commit -m "yellow"
[feature-yellow 20846ae] yellow
 1 file changed, 1 insertion(+)
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git status
On branch feature-yellow
nothing to commit, working tree clean
```



```
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git commit -m "yellow"
[feature-yellow 20846ae] yellow
 1 file changed, 1 insertion(+)
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git status
On branch feature-yellow
nothing to commit, working tree clean
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git push
fatal: The current branch feature-yellow has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature-yellow

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ ^C
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$ git push --set-upstream origin feature-yellow
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 317 bytes | 317.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'feature-yellow' on GitHub by visiting:
remote:      https://github.com/ManojDkr/rainbow-remote/pull/new/feature-yellow
remote:
To github.com:ManojDkr/rainbow-remote.git
 * [new branch]      feature-yellow -> feature-yellow
branch 'feature-yellow' set up to track 'origin/feature-yellow'.
manoj-kumar@manoj-kumar-Nitro-AN515-57:~/Desktop/rainbow-remote$
```



github.com/Yaswanth6303/rainbow-remote/pull/4

Yaswanth6303 / rainbow-remote

Code · Issues · Pull requests 1 · Actions · Projects · Wiki · Security · Insights · Settings

yellow #4

Open · ManojDkr wants to merge 1 commit into `Yaswanth6303:main` from `ManojDkr:feature-yellow`

Conversation 0 · Commits 1 · Checks 0 · Files changed 1 · +1 -0

ManojDkr commented now · Collaborator

No description provided.

yellow 20846ae

No conflicts with base branch
Merging can be performed automatically.

Merge pull request · You can also merge this with the command line. View command line instructions.

Still in progress? Convert to draft

Add a comment

Write · Preview

Add your comment here...

Markdown is supported · Paste, drop, or click to add files

Close pull request · Comment

Reviewers: Suggestions — Manan172 (Request). Still in progress? Convert to draft

Assignees: No one—assign yourself

Labels: None yet

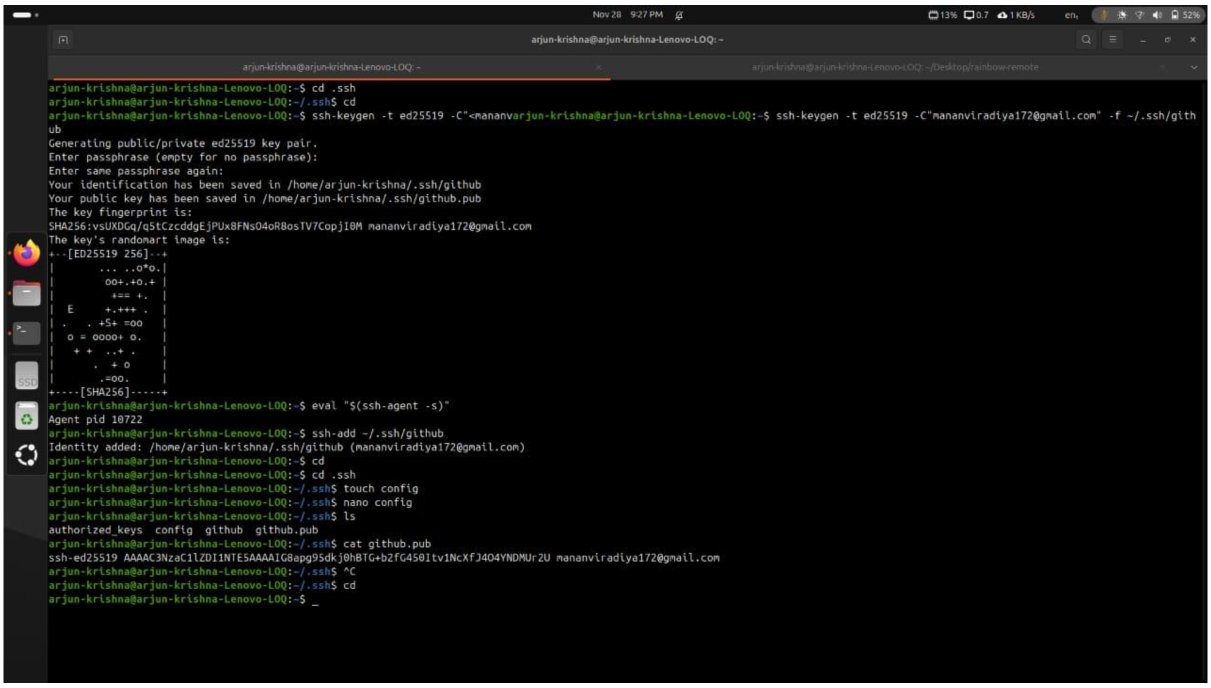
Projects: None yet

Milestone: No milestone

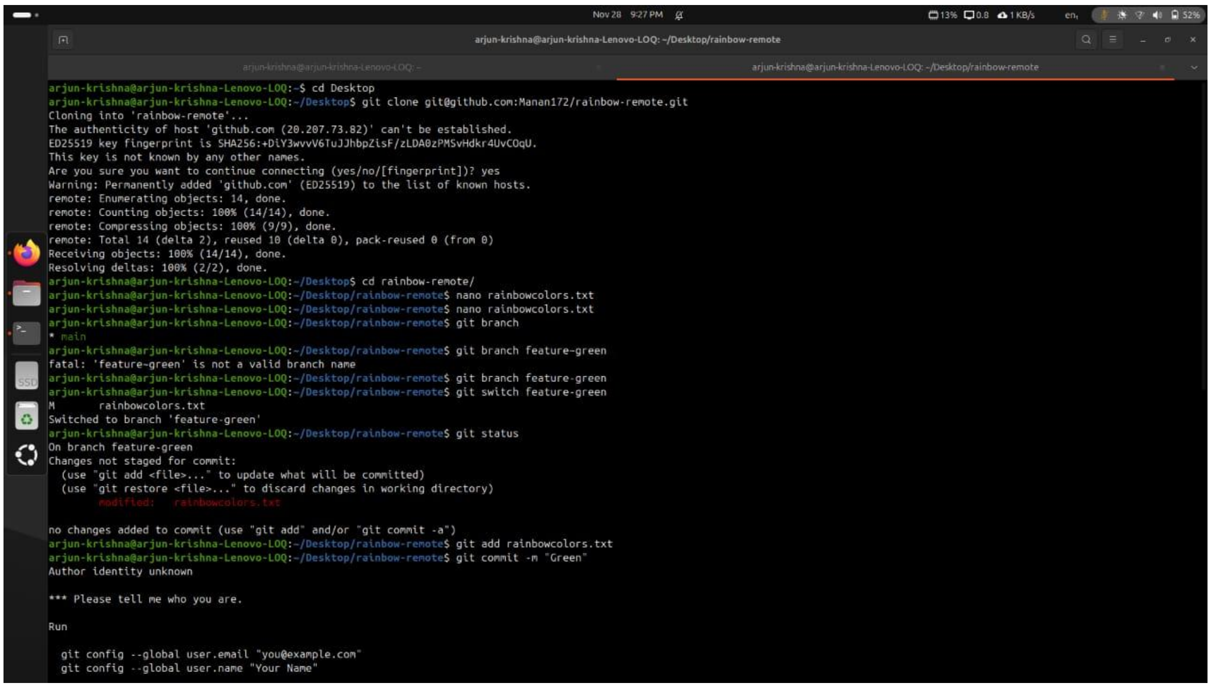
Development: Successfully merging this pull request may close these issues. None yet

Notifications: Customize · Unsubscribe · You're receiving notifications because you authored

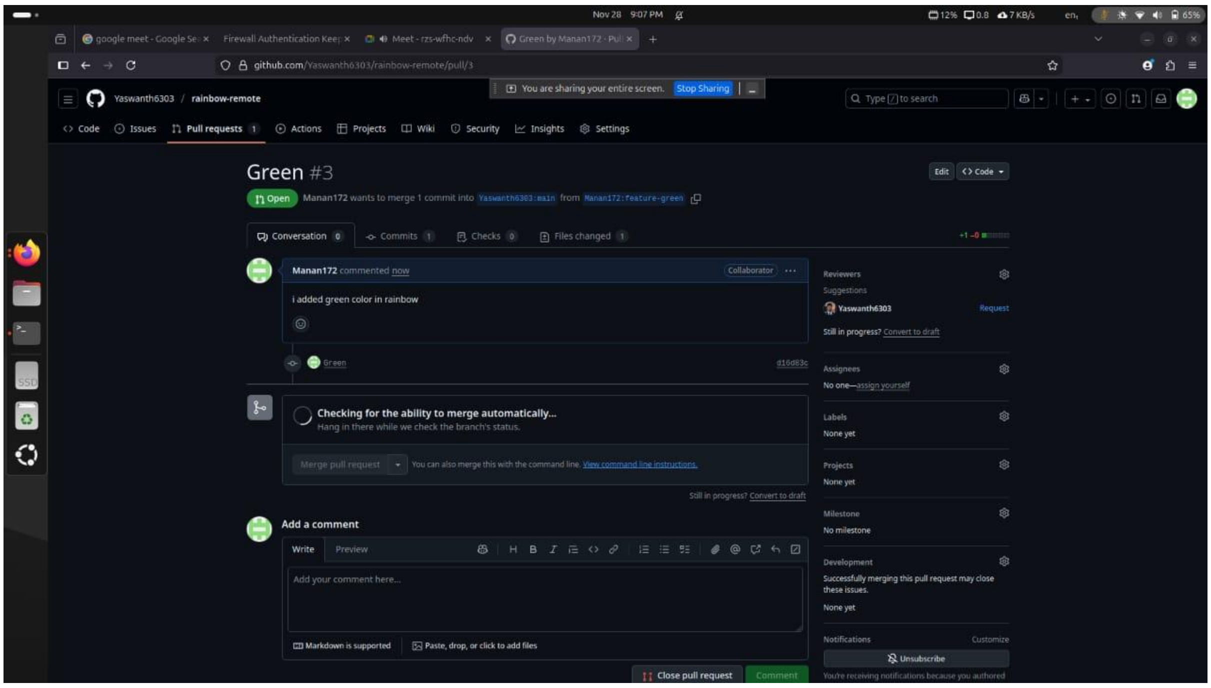
4. Manan Viradiya



```
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ cd .ssh
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ cd
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ ssh-keygen -t ed25519 -C"<mananvarjun-krishna@arjun-krishna-Lenovo-LOQ:~$ ssh-keygen -t ed25519 -C"mananviradiya172@gmail.com" -f ~/.ssh/gith
ub
Generating public/private ed25519 key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/arjun-krishna/.ssh/github
Your public key has been saved in /home/arjun-krishna/.ssh/github.pub
The key fingerprint is:
SHA256:vsUXDGq/q5tCzcddgEjPUx8FNsO4oR8osTV7CopjI0M mananviradiya172@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|       ... ..o*o.|
|        oo+.+o.+ |
|         +== +.  |
|  E     +.+++ .  |
| .   . +S+ =oo   |
|  o = oooo+ o.   |
|   + +  ..+ .    |
|       .  + o    |
|        .=oo.    |
+----[SHA256]-----+
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ eval "$(ssh-agent -s)"
Agent pid 10722
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ ssh-add ~/.ssh/github
Identity added: /home/arjun-krishna/.ssh/github (mananviradiya172@gmail.com)
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ cd
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ cd .ssh
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ touch config
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ nano config
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ ls
authorized_keys  config  github  github.pub
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ cat github.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIG8apg95dkj0hBTG+b2fG450Itv1NcXfJ4O4YNDMUr2U mananviradiya172@gmail.com
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ ^C
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/.ssh$ cd
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ _
```



```
arjun-krishna@arjun-krishna-Lenovo-LOQ:~$ cd Desktop
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop$ git clone git@github.com:Manan172/rainbow-remote.git
Cloning into 'rainbow-remote'...
The authenticity of host 'github.com (20.207.73.82)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (9/9), done.
remote: Total 14 (delta 2), reused 10 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (14/14), done.
Resolving deltas: 100% (2/2), done.
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop$ cd rainbow-remote/
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ nano rainbowcolors.txt
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ nano rainbowcolors.txt
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git branch
* main
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git branch feature–green
fatal: 'feature–green' is not a valid branch name
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git branch feature-green
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git switch feature-green
M       rainbowcolors.txt
Switched to branch 'feature-green'
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git status
On branch feature-green
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   rainbowcolors.txt

no changes added to commit (use "git add" and/or "git commit -a")
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git add rainbowcolors.txt
arjun-krishna@arjun-krishna-Lenovo-LOQ:~/Desktop/rainbow-remote$ git commit -m "Green"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"
```



Green #3

Open Manan172 wants to merge 1 commit into Yaswanth6303:main from Manan172:feature-green

Manan172 commented now

i added green color in rainbow

Green d10d83c

Checking for the ability to merge automatically...
Hang in there while we check the branch's status.

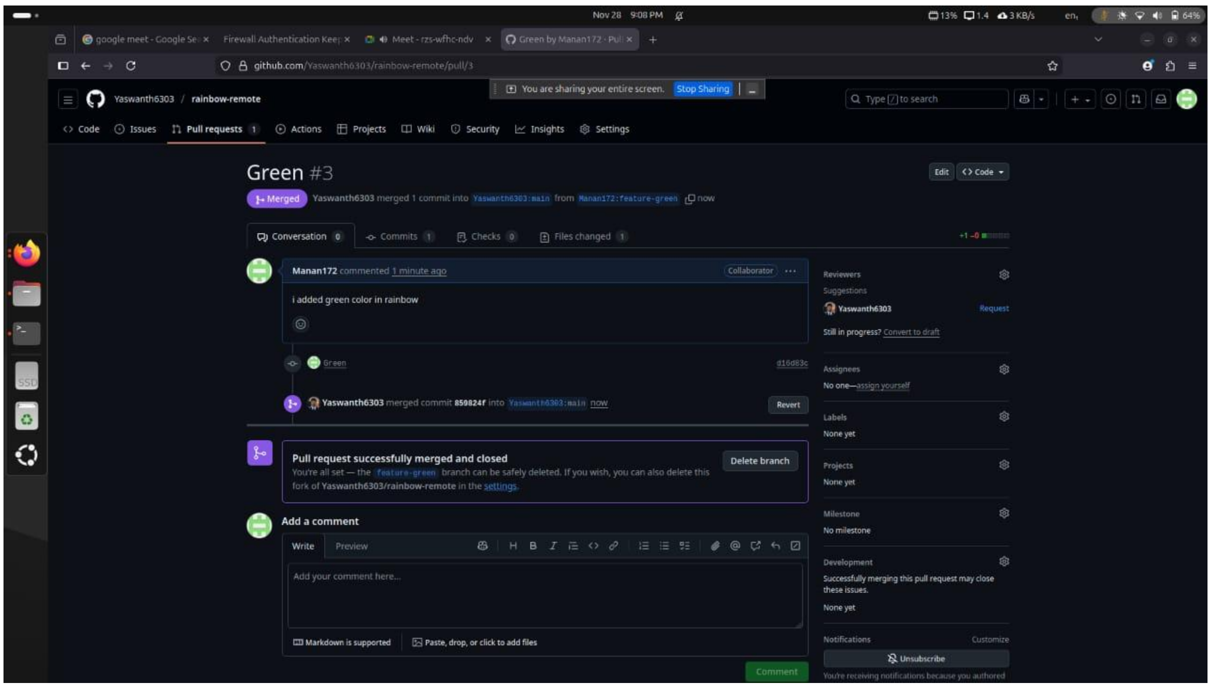
Merge pull request You can also merge this with the command line. View command line instructions.

Add a comment

Add your comment here...

Markdown is supported Paste, drop, or click to add files

Suggestions: Yaswanth6303 Request
Still in progress? Convert to draft
Assignees: No one—assign yourself
Labels: None yet
Projects: None yet
Milestone: No milestone
Development: Successfully merging this pull request may close these issues. None yet
You're receiving notifications because you authored



Green #3

Merged Yaswanth6303 merged 1 commit into Yaswanth6303:main from Manan172:feature-green now

Manan172 commented 1 minute ago

i added green color in rainbow

Green d10d83c

Yaswanth6303 merged commit 859824f into Yaswanth6303:main now

Pull request successfully merged and closed
You're all set — the feature-green branch can be safely deleted. If you wish, you can also delete this fork of Yaswanth6303/rainbow-remote in the settings.

Add a comment

Add your comment here...

Markdown is supported Paste, drop, or click to add files

Suggestions: Yaswanth6303 Request
Still in progress? Convert to draft
Assignees: No one—assign yourself
Labels: None yet
Projects: None yet
Milestone: No milestone
Development: Successfully merging this pull request may close these issues. None yet
You're receiving notifications because you authored