Git Cheat Sheet

The essential Git commands every developer must know



Table of Content

Creating Snapshots	6
Browsing History	8
Branching & Merging	10
Collaboration	12
Rewriting History	13

Creating Snapshots

Initializing a repository

git init

Staging files

git add file1.js # Stages a single file

git add file1.js file2.js # Stages multiple files

git add *.js # Stages with a pattern

git add. # Stages the current directory and all its content

Viewing the status

git status # Full status

git status -s # Short status

Committing the staged files

git commit -m "Message" # Commits with a one-line message

git commit # Opens the default editor to type a long message

Skipping the staging area

git commit -am "Message"

Removing files

git rm file1.js # Removes from working directory and staging area

git rm --cached filel.js # Removes from staging area only

Renaming or moving files

git mv file1.js file1.txt

Viewing the staged/unstaged changes

git diff # Shows unstaged changes

git diff --staged # Shows staged changes

git diff --cached # Same as the above

Viewing the history

git log # Full history

git log --oneline # Summary

git log --reverse # Lists the commits from the oldest to the newest

Viewing a commit

git show 921a2ff # Shows the given commit

git show HEAD # Shows the last commit

git show HEAD~2 # Two steps before the last commit

git show HEAD:file.js # Shows the version of file.js stored in the last commit

Unstaging files (undoing git add)

git restore --staged file.js # Copies the last version of file.js from repo to index

Discarding local changes

git restore file.js # Copies file.js from index to working directory

git restore file1.js file2.js # Restores multiple files in working directory

git restore. # Discards all local changes (except untracked files)

git clean -fd # Removes all untracked files

Restoring an earlier version of a file

git restore --source=HEAD~2 file.js

Browsing History

Viewing the history

git log --stat # Shows the list of modified files

git log --patch # Shows the actual changes (patches)

Filtering the history

git log -3 # Shows the last 3 entries

git log --author="Mosh"

git log --before="2020-08-17"

git log --after="one week ago"

git log --grep="GUI" # Commits with "GUI" in their message

git log -S"GUI" # Commits with "GUI" in their patches

git log hash1..hash2 # Range of commits

git log file.txt # Commits that touched file.txt

Formatting the log output

git log --pretty=format:"%an committed %H"

Creating an alias

git config --global alias.lg "log --oneline"

Viewing a commit

git show HEAD~2

git show HEAD~2:file1.txt # Shows the version of file stored in this commit

Comparing commits

git diff HEAD~2 HEAD # Shows the changes between two commits

git diff HEAD~2 HEAD file.txt # Changes to file.txt only

Checking out a commit

git checkout dad47ed # Checks out the given commit git checkout master # Checks out the master branch

Finding a bad commit

git bisect start

git bisect bad # Marks the current commit as a bad commit git bisect good ca49180 # Marks the given commit as a good commit

git bisect reset # Terminates the bisect session

Finding contributors

git shortlog

Viewing the history of a file

git log file.txt # Shows the commits that touched file.txt

git log --stat file.txt # Shows statistics (the number of changes) for file.txt

git log --patch file.txt # Shows the patches (changes) applied to file.txt

Finding the author of lines

git blame file.txt # Shows the author of each line in file.txt

Tagging

git tag v1.0 # Tags the last commit as v1.0

git tag v1.0 5e7a828 # Tags an earlier commit

git tag # Lists all the tags

git tag -d v1.0 # Deletes the given tag

Branching & Merging

Managing branches

git branch bugfix # Creates a new branch called bugfix

git checkout bugfix # Switches to the bugfix branch

git switch bugfix # Same as the above

git switch -C bugfix # Creates and switches

git branch -d bugfix # Deletes the bugfix branch

Comparing branches

git log master..bugfix # Lists the commits in the bugfix branch not in master

git diff master..bugfix # Shows the summary of changes

Stashing

git stash push -m "New tax rules" # Creates a new stash

git stash list # Lists all the stashes

git stash show stash@{1} # Shows the given stash

git stash show 1 # shortcut for stash@{1}

git stash apply 1 # Applies the given stash to the working dir

git stash drop 1 # Deletes the given stash

git stash clear # Deletes all the stashes

Merging

git merge bugfix # Merges the bugfix branch into the current branch

git merge --no-ff bugfix # Creates a merge commit even if FF is possible

git merge --squash bugfix # Performs a squash merge

git merge --abort # Aborts the merge

Viewing the merged branches

git branch -- merged # Shows the merged branches

git branch --no-merged # Shows the unmerged branches

Rebasing

git rebase master # Changes the base of the current branch

Cherry picking

git cherry-pick dad47ed # Applies the given commit on the current branch

Collaboration

Cloning a repository

git clone url

Syncing with remotes

git fetch origin master # Fetches master from origin

git fetch origin # Fetches all objects from origin

git fetch # Shortcut for "git fetch origin"

git pull # Fetch + merge

git push origin master # Pushes master to origin

git push # Shortcut for "git push origin master"

Sharing tags

git push origin v1.0 # Pushes tag v1.0 to origin

git push origin -delete v1.0

Sharing branches

git branch -r # Shows remote tracking branches

git branch -vv # Shows local & remote tracking branches

git push -u origin bugfix # Pushes bugfix to origin

git push -d origin bugfix # Removes bugfix from origin

Managing remotes

git remote # Shows remote repos

git remote add upstream url # Adds a new remote called upstream

git remote rm upstream # Remotes upstream

Rewriting History

Undoing commits

git reset --soft HEAD^ # Removes the last commit, keeps changed staged

git reset --mixed HEAD^ # Unstages the changes as well

git reset --hard HEAD^ # Discards local changes

Reverting commits

git revert 72856ea # Reverts the given commit

git revert HEAD~3.. # Reverts the last three commits

git revert --no-commit HEAD~3..

Recovering lost commits

git reflog # Shows the history of HEAD

git reflog show bugfix # Shows the history of bugfix pointer

Amending the last commit

git commit --amend

Interactive rebasing

git rebase -i HEAD~5

GIT REBASE

The basics

Out of the gate, the goal of both merging and rebasing is to take commits from a feature branch and put them onto another branch. Let's start with how a quote-on-quote "normal" merge makes that happen.

Merging

Say I have a graph that looks like this. As you can see, I split off my feature branch at commit 2, and have done a bit of work.



If I run a *merge*, git will stuff all of my changes from my feature branch into one large *merge* commit that contains *ALL* of my feature branch changes. It will then place this special merge commit onto master. When this happens, the tree will show your feature branch, as well as the master branch. Going further, if you imagine working on a team with other developers, your git tree can become complex: displaying everybody else's branches and merges.

Rebasing



Now let's take a look at how rebase would handle this same situation. Instead of doing a *git merge*, I'll do a *git rebase*. What rebase will do is take all of the commits on your feature branch and move them on top of the master commits. Behind the scenes, git is actually blowing away the feature branch commits and duplicating them as new commits on top of the master branch (remember, under the hood, commit objects are immutable and immovable). What you get with this approach is a nice clean tree with all your commits laid out nicely in a row, like a timeline. Easy to trace.

Rebasing caveats

At this point, I think I better mention some caveats. Rebase doesn't play super well with open-source projects and pull requests since it can be hard to trace, especially small changes that are introduced to a codebase.

It can also be dangerous if you're working on a shared branch with other developers because of how Git rewrites commits when rebasing; however, in the workflow example below, I'll show you how to mitigate this risk.

In practice: the actual commands

When I start development I always make sure the code on my local machine is synced to the latest commit from remote master

With my local master branch checked out git pull

Next, I'll check out a new branch so I can write and commit code to this branch – keeping my work separated from the master branch

git checkout -b my_cool_feature

As I'm developing my feature, I'll make a few commits...

git add . git commit -m 'This is a new commit, yay!'

Note: while I'm developing it's likely that my fellow developers will have shipped some of their own changes to remote master. That's ok, we can deal with that later.

Now that I'm done developing my feature, I want to merge my changes back into remote master. To begin this process I'll switch back to local master branch and pull the latest changes. This ensures my local machine has any new commits submitted by my teammates.

git checkout master git pull

What I want to do now is make sure my feature will jive with any new changes from remote master. To do this, I'll checkout my feature branch and rebase against my local master. This will re-anchor my branch against the latest changes I just pulled from remote master. Additionally at this point, Git will let me know if I have any conflicts and I can take care of them on my branch

git checkout my_cool_feature git rebase master

Now that my feature branch doesn't have any conflicts, I can switch back to my master branch and place my changes onto master.

git checkout master git rebase my_cool_feature

Since I synced with remote master before doing the rebase, I should be able to push my changes up to remote master without issues.

git push

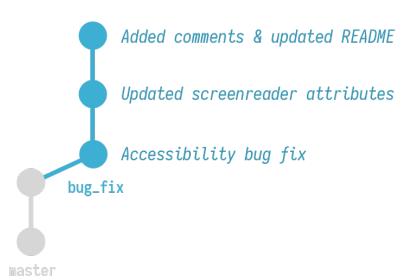
NOTE: This method works for any "parent" branch and its "child" branch and not just master branch and its children branches

GIT SQUASH

Squashing essentially allows you to combine commits together. This is useful for re-packaging commits that are related to eachother in the pursuit of cleaning up history before pushing to an upstream master, or when you're doing some cleanup on your local development branches.

The basics

Say I have a graph that looks like this. You can see I split off some commits onto a bug fix branch:



I'll need to get my commits back onto mainline, and I can use merge or rebase to do that; however, with either solution, all my local branch commits would be preserved. Usually, preserving commits like this is a good idea, but let's say you made a typo somewhere and had to create another commit to fix the spelling error. Or you have a bunch of local commits related to a bug fix, but you'd really rather just have all of those related commits under one roof. Enter squashing.

Squashing allows you to rewrite history and combine together commits.

In practice: the actual commands

Now that you know what squash is, let's take a look the actual commands. Again, we'll say my starting point is my bug fix branch with 3 commits.

It would be nice if I didn't have to preserve these extraneous commits as separate entities since they are all related to a bug fix. I'd rather combine them together into one clean commit.

With my bug fix branch checked out, I'll start by running the interactive rebase command with HEAD~3. This lets Git know I want to operate on the last three commits back from HEAD.

git rebase -i HEAD~3

Git will open up your default terminal text editor (most likely vim) and present you with a list of commits:

pick 7f9d4bf Accessibility fix for frontpage bug

pick 3f8e810 Updated screenreader attributes

pick ec48d74 Added comments & updated README

Rebase 4095f73..ec48d74 onto 4095f73 (3 commands)

#

Commands:

p, pick <commit> = use commit

r, reword <commit> = use commit, but edit the commit message

e, edit <commit> = use commit, but stop for amending

s, squash <commit> = use commit, but meld into previous commit

•••

There are a couple options here, but we'll go ahead and mark commits we'd like to meld with it's successor by changing *pick* to **squash**. (If you're using VIM, type *i* to enter insert mode)

pick 7f9d4bf Accessibility fix for frontpage bug

squash 3f8e810 Updated screenreader attributes

squash ec48d74 Added comments & updated README

Press ESC then type :wq to save and exit the file (if you are using VIM)

At this point Git will pop up another dialog where you can rename the commit message of the new, larger squashed commit:

This is the 1st commit message:

Accessibility fix for frontpage bug

This is the commit message for #1:

Updated screenreader attributes

This is the commit message for #2:

Added comments & updated README

Please enter the commit message for your changes. Lines starting

with '#' will be ignored, and an empty message aborts the commit

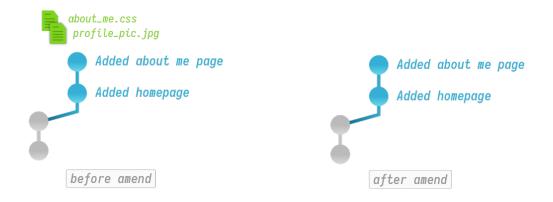
...

Simply saving this file without making changes will result in a single commit with a commit message that is a concatination of all 3 messages. If you'd rather rename your new commit entirely, comment out each commit's message, and write you're own. Once you've done, save and exit:



That's it. You can either merge or rebase your branch back to mainline.

AMENDING COMMITS



Amending refers to either adding files to, or removing files from a commit. Amend can also be used to change a commit's log message, but today I want to use it to add files to a commit.

As an example: if I run git status you can see that I have 2 files that would really like to belong in my latest commit.

Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git checkout -- <file>..." to discard changes in working directory)

modified: about_me.css modified: profile_pic.jpg

To get started, I'll first need to stage my files.

git add about_me.css profile_pic.jpg

Then I'll use amend to add those staged changes to my most recent commit

git commit --amend --no-edit

The --no-edit flag tells Git that you'd like to leave the commit message of your latest commit unchanged. If you want to update the commit message, remove this flag.

That's all there is to it.

REWORDING COMMIT MESSAGES





before rewording

after rewording

What if you want to reword a commit message? Enter interactive rebase and its plethora of options. I'll start by telling Git I want to enter interactive rebase and operate upon the last 2 commits back from HEAD.

git rebase -i HEAD~2

Git will then open up my default terminal text editor (most likely vim) and present me with a file that I'll need to edit.

pick 7f9d4bf Frontpag bug fiz
pick 3f8e810 Refactored navbar

Rebase 4095f73..ec48d74 onto 4095f73 (3 commands)

Commands:
p, pick <commit> = use commit
r, reword <commit> = use commit, but edit the commit message

As you can see, at the top, there is a list of commits, and a big comment section explaining all the different options. Right now I just want to fix that spelling mistake in the first commit. To start, I'll change the prefix of that commit from *pick* to **reword** (If you're using vim, type *i* to enter insert mode).

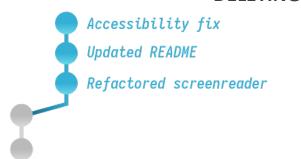
reword 7f9d4bf Frontpag bug fiz pick 3f8e810 Refactored navbar

Then I'll save and close the file. (Again, in vim press ESC then type: wq to save and exit the file). At this point Git will pop up another file where I can rename the commit message. I'll simply edit this file with the reworded commit message.

Frontpage bug fix

After I'm done making my changes to the commit message, I'll simply save and close the file to finalize the spelling changes.

DELETING COMMITS





before delete

after delete

As you saw from the rewording example, interactive rebase has many more options, so let's dive into some. Say I'd like to remove a commit from my history.

 $I'II \ start \ by \ opening \ interactive \ rebase \ again, \ but \ this \ time \ I'II \ operate \ on \ the \ last \ three \ commits.$

```
git rebase -i HEAD~3
pick 2f8e823 Refactored screenreader attributes
pick 7f9d4bf Updated README
pick 3f8e810 Accessibility fix

# Rebase 4095f73..ec48d74 onto 4095f73 (3 commands)
#
# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
...
```

To remove a commit, I simply find the commit I'd like gone and change it's prefix from pick to drop.

pick 2f8e823 Refactored screenreader attributes drop 7f9d4bf Updated README pick 3f8e810 Accessibility fix

Again, I'll save and quit the file and the commit is gone.

REORDERING COMMITS





before reorder

after reorder

Reordering commits is just as easy. We'll enter interactive rebase again

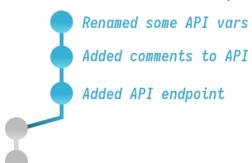
git rebase -i HEAD~2
pick 7f9d4bf Updated README
pick 3f8e810 Accessibility fix
Rebase 4095f73..ec48d74 onto 4095f73 (3 commands)
#
Commands:
p, pick <commit> = use commit
r, reword <commit> = use commit, but edit the commit message
...

To reorder, I'll simply change the order of commits by reordering their lines at the top of the file.

pick 3f8e810 Accessibility fix pick 7f9d4bf Updated README

Be careful here, if you delete a commit line and save this file without putting it back, Git will destroy the commit entirely. I'll once again save and quit to finalize the reordering.

SQUASHING COMMITS





before squash

after squash

Now let's get into some fun stuff. Say I want to meld my previous 2 commits into one. We'll once again use interactive rebase...

git rebase -i HEAD~3
pick 7f9d4bf Added API endpoint
pick 3f8e810 Added comments to API
pick ec48d74 Renamed some API vars

Rebase 4095f73..ec48d74 onto 4095f73 (3 commands)
#
Commands:
...
s, squash <commit> = use commit, but meld into previous commit
f, fixup <commit> = like "squash", but discard this commit's log message
...

As you can see (above) Git provides two options for combining commits: *squash* and *fixup*. Both options do pretty much the same thing, except squash will kick you to an extra screen which allows you to edit the commit messages. I have a whole other article that goes into greater detail on the squash workflow, so for now I don't care about preserving those other log messages. I'll change *pick* to **fixup** which indicates to Git that I want to meld this commit into the previous one then discard it's log message.

pick 7f9d4bf Added API endpoint fixup 3f8e810 Added comments to API fixup ec48d74 Renamed some API vars

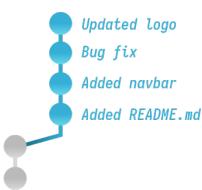
Now I'll save and quit this file. As you can see, I've ended up with a new squashed commit which contains the contents of all 3 previous commits.

git log --oneline

617ebc5 (HEAD -> my_branch) Added API endpoint

SPLITTING COMMITS





before split

after split

Lastly, let's talk about splitting commits. Down the line you may decide certain changes would be better off as separate commits and that's what splitting is all about.

```
git log --oneline

3f8e810 Updated logo
ec48d74 Added navbar and fixed bug
2bf910f Added README
```

As you can see above, I'd really prefer if the second commit was split up. To make this happen, I'll enter interactive rebase once again.

```
git rebase -i HEAD~3
pick Added README
pick Added navbar and fixed bug
pick Updated logo

# Rebase 4095f73..ec48d74 onto 4095f73 (3 commands)
#
# Commands:
# p, pick <commit> = use commit
# r, reword <commit> = use commit, but edit the commit message
...
```

As you might guess, the splitting process is a bit more complicated than our previous operations, but don't worry, I'll break it down. First, we need to tell Git which commit we want to change. In this case I want to split the second commit so I'll change it's keyword from pick to edit

```
pick Added README
edit Added navbar and fixed bug
pick Updated logo
```

Next, I'll save and close the file. When I do this, Git will start executing any rebase operations I specified. Since I left the other commits alone, Git will do nothing to those; however, when it comes to the commit for which I specified *edit*, Git will pause the rebase operation and allow me to make changes.

```
Stopped at f124bc5... Added navbar and fixed bug
You can amend the commit now, with

git commit --amend

Once you are satisfied with your changes, run

git rebase --continue

jacklot in ~/dev/my_site6 (git)-[my_branch|rebase-i]-
>
```

As you can see above, Git dropped me back to the terminal on a special rebasing branch. I can now type commands that will modify our commit. To split this commit, I'll first want to undo the commit by unstaging all the files.

git reset HEAD^

If I run git status you can see I have 3 files that are now unstaged and ready to be re-committed

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

Now I can re-commit the files using the normal add and commit workflow as below

git add navbar.css navbar.html git commit -m 'Added navbar' git add analytics.js git commit -m 'Fixed bug'

After I'm done re-commiting all my files, I'll just tell Git to continue

git rebase --continue

That's it. Now if I take a look at my history, you can see I've ended up with 4 commits after splitting

git log --oneline

3f8e810 Updated logo ur48d47 Fixed bug 4c59d82 Added navbar 2bf910f Added README

The difference between squash and fixup is that during the rebase, the squash operation will prompt you to combine the messages of the original and the squash commit, whereas the fixup operation will keep the original message and discard the message from the fixup

GitHub CLI

Thodi charcha, thoda gyaan 🤓



Resources used: Official GitHub CLI docs. It's kinda too wordy and unnecessarily long and hard () so this is like a 1hr refresher directly into using most of the useful stuff w/o any probs Checkout this video just to get refamiliarized with some of the git concepts: https://www.youtube.com/watch?v=8JJ101D3knE

GitHub CLI

gh is GitHub on the command line. It brings pull requests, issues, and other GitHub concepts to the terminal next to where you are already working with git and your code.

Installation

Just head over to https://cli.github.com/ to download the msi file which you can install manually

Authentication

Run gh auth login to authenticate with your GitHub account. gh will respect tokens set using GITHUB_TOKEN.

Setting an editor

To set your preferred editor, you can use gh config set editor <editor>. Read more about gh config.

Additionally if the above is not set, for macOS and Linux,gh will respect the following environment variables, in this order, based on your OS and shell setup:

- 1. GIT_EDITOR
- 2. VISUAL
- 3. EDITOR

On Windows, the editor will currently always be Notepad.

1) HELP (--help)

Option available with -help flag universally can be combined with any cli command

--help Show help for command

2) SHORTCUTS (gh alias set)

Create a shortcut for a gh command

Synopsis

Declare a word as a command alias that will expand to the specified command(s).

The expansion may specify additional arguments and flags. If the expansion includes positional placeholders such as '\$1', '\$2', etc., any extra arguments that follow the invocation of an alias will be inserted appropriately (**kinda like tab stops**)

This rule only applies for shell scripts (Windows Powershell):

If '-shell' is specified, the alias will be run through a shell interpreter (sh). This allows you to compose commands with "|" or redirect with ">". Note that extra arguments following the alias will not be automatically passed to the expanded expression. To have a shell alias receive arguments, you must explicitly accept them using "\$1", "\$2", etc., or "\$@" to accept all of them.

Platform note: on Windows, shell aliases are executed via "sh" as installed by Git For Windows. If you have installed git on Windows in some other way, shell aliases may not work for you.

Quotes must always be used when defining a command as in the examples.

```
gh alias set <alias> <expansion> [flags]
```

Examples

```
$ gh alias set pv 'pr view'
$ gh pv -w 123
#=> gh pr view -w 123

$ gh alias set bugs 'issue list --label="bugs"'
$ gh alias set epicsBy 'issue list --author="$1" --label="epic"'
$ gh epicsBy vilmibm
#=> gh issue list --author="vilmibm" --label="epic"
$ gh alias set --shell igrep 'gh issue list --label="$1" | grep $2'
$ gh igrep epic foo
#=> gh issue list --label="epic" | grep "foo"
```

Options

> DELETING SHORTCUTS (gh alias delete)

Delete an alias

Synopsis

Delete an alias

gh alias delete <alias> [flags]

LISTING SHORTCUTS (gh alias list)

List your aliases

Synopsis

This command prints out all of the aliases gh is configured to use.

gh alias list [flags]

3) CLONE REPO (gh repo clone)

Clone a GitHub repository locally.

If the "OWNER/" portion of the "OWNER/REPO" repository argument is omitted, it defaults to the name of the authenticating user.

Pass additional 'git clone' flags by listing them after '-'.

gh repo clone <repository> [<directory>] [-- <gitflags>...]

In use

Using OWNER/REPO syntax

You can clone any repository using OWNER/REPO syntax.

Cloning a repository
~/Projects\$ gh repo clone cli/cli

Using other selectors

You can also use GitHub URLs to clone repositories.

```
# Cloning a repository
~/Projects/my-project$ gh repo clone https://github.com/cli/cli
```

4) CREATE REPO (gh repo create)

Create a new GitHub repository.

h repo create [<name>] [flags]

Examples

```
# create a repository under your account using the current directory name
$ gh repo create

# create a repository with a specific name
$ gh repo create my-project

# create a repository in an organization
$ gh repo create cli/my-project
```

Options

-y,confirm	Confirm the submission directly
-d,description string	Description of repository
enable-issues	Enable issues in the new repository (default true)
enable-wiki	Enable wiki in the new repository (default true)
-h,homepage string	Repository home page URL
internal	Make the new repository internal
private	Make the new repository private
public	Make the new repository public
-t,team string	The name of the organization team to be granted
access	
-p,template string	Make the new repository based on a template
repository	

In use

With no arguments

Inside a git repository, and with no arguments, `gh` will automatically create a repository on GitHub on your account for your current directory, using the directory name.

```
# Create a repository for the current directory.
~/Projects/my-project$ gh repo create
```

Setting a repository name

Enter a name to set a repository name other than the directory name.

```
# Create a repository in your organization
~/Projects/my-project$ gh repo create my-cool-project
```

Setting your organization as an owner

Use OWNER/REPO syntax to create a repository under an organization that you are a part of.

```
# Create a repository in your organization
~/Projects/my-project$ gh repo create org/repo
```

With flags

Use flags to choose your repository settings.

```
# Create a repository using flags
~/Projects/my-project$ gh repo create --enable-issues=false -public
```

5) FORK REPO (gh repo fork)

Create a fork of a repository.

With no argument, creates a fork of the current repository. Otherwise, forks the specified repository.

```
gh repo fork [<repository>] [flags]
```

Options

```
--clone Clone the fork {true|false}
--remote Add remote for fork {true|false}
```

In use

With no arguments

Inside a git repository, and without any arguments, we will automatically create a fork on GitHub on your account for your current directory. It will then prompt if you want to set an upstream remote.

Create a fork for the current repository.

```
~/Projects/cli$ gh repo fork
```

With arguments

If you pass a repository in OWNER/REPO format, `gh` will automatically create a fork on GitHub on your account and ask if you want to clone it. This works inside or outside of a git repository.

```
# Create a fork for another repository.
~/Projects$ gh repo fork cli/cli
```

Using flags

Use flags to skip prompts about adding a git remote for the fork, or about cloning the forked repository locally.

```
# Skipping remote prompts using flags
~/Projects/cli$ gh repo fork --remote=false
```

6) VIEW REPO (gh repo view)

Synopsis

Display the description and the README of a GitHub repository.

With no argument, the repository for the current directory is displayed.

With '-web', open the repository in a web browser instead.

```
gh repo view [<repository>] [flags]
```

Options

```
-w, --web Open a repository in the browser
```

In use

In terminal

By default, we will display items in the terminal.

```
# Viewing a repository in terminal
~/Projects/my-project$ gh repo view owner/repo
```

owner/repo

Repository description

Repository README

View this repository on GitHub: https://github.com/owner/repo/
~/Projects/my-project\$

In the browser

Quickly open an item in the browser using --web or -w # Viewing a repository in the browser ~/Projects\$ gh repo view owner/repo --web Opening https://github.com/owner/repo/ in your browser. ~/Projects\$

With no arguments

Display the repository you're currently in.

Viewing the repository you're in
~/Projects/my-project\$ gh repo view

owner/my-project

Repository description

Repository README

View this repository on GitHub: https://github.com/owner/repo/
~/Projects/my-project\$

7) PULL REQUESTS (PR)

CHECKOUT PRs (gh pr checkout)

Check out a pull request in git

Synopsis

Check out a pull request in git

gh pr checkout {<number> | <url> | <branch>} [flags

Options

--recurse-submodules Update all active submodules

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository

In use

Using pull request number

You can check out any pull request, including from forks, in a repository using its pull request number

```
// Checking out a pull request locally
~/Projects/my-project$ gh pr checkout 12
```

Using other selectors

You can also use URLs and branch names to checkout pull requests.

```
// Checking out a pull request locally
~/Projects/my-project$ gh pr checkout branch-name
~/Projects/my-project$
```

CHECK PR STATUS (gh pr checks)

Show CI status for a single pull request – **mhanje approve kiya ya pending hai ya reject kiya pr ko**

Synopsis

Show CI status for a single pull request

gh pr checks [flags]

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository using

> CLOSING PR (gh pr close)

Close a pull request

Synopsis

Close a pull request

gh pr close {<number> | <url> | <branch>}

Options

-d, --delete-branch Delete the local

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository using

CREATING A NEW PR (gh pr create)

Create a pull request

Synopsis

Create a pull request on GitHub.

When the current branch isn't fully pushed to a git remote, a prompt will ask where to push the branch and offer an option to fork the base repository. Use '-head' to explicitly skip any forking or pushing behavior.

A prompt will also ask for the title and the body of the pull request. Use '-title' and '-body' to skip this, or use '-fill' to autofill these values from git commits.

gh pr create [flags]

Examples

```
$ gh pr create --title "The bug is fixed" --body "Everything works again"
$ gh pr create --reviewer monalisa,hubot
$ gh pr create --project "Roadmap"
$ gh pr create --base develop --head monalisa:feature
```

Options

```
-a, --assignee login
                        Assign people by their login
 -B, --base branch
                        The branch into which you want your code merged
 -b, --body string
                        Body for the pull request
 -d, --draft
                        Mark pull request as a draft
 -f, --fill
                        Do not prompt for title/body and just use commit info
 -H, --head branch
                        The branch that contains commits for your pull request
(default: current branch)
 -l, --label name
                       Add labels by name
 -m, --milestone name Add the pull request to a milestone by name
 -p, --project name
-r, --reviewer login
                        Add the pull request to projects by name
                        Request reviews from people by their login
 -t, --title string
                        Title for the pull request
 -w, --web
                        Open the web browser
```

Options inherited from parent commands

```
-R, --repo OWNER/REPO Select another repository
```

In use

```
Interactively
```

```
# Create a pull request interactively
~/Projects/my-project$ gh pr create
```

With flags

```
# Create a pull request using flags
~/Projects/my-project$ gh pr create --title "Pull request title" --body "Pull
request body"
```

In the browser

```
// Quickly navigate to the pull request creation page
~/Projects/my-project$ gh pr create --web
```

Working with forks

This command will automatically create a fork for you if you're in a repository that you don't have permission to push to.

> SEE CHANGES TO CODE AS GIVEN IN PR (gh pr diff)

View changes in a pull request

Synopsis

View changes in a pull request

```
gh pr diff [<number> | <url> | <branch>] [flags]
```

Options

```
--color string Use color in diff output: {always|never|auto} (default
"auto")
```

Options inherited from parent commands

```
-R, --repo OWNER/REPO Select another repository using the
```

LIST ALL PRs IN REPO (gh pr list)

List and filter pull requests in this repository

Synopsis

List and filter pull requests in this repository

```
gh pr list [flags]
```

Examples

```
$ gh pr list --limit 999
$ gh pr list --state closed
$ gh pr list --label "priority 1" --label "bug"
$ gh pr list --web
```

Options

```
-a, --assignee string Filter by assignee
```

```
-B, --base string
-l, --label strings
-L, --limit int
-s, --state string

-w, --web

Filter by base branch
Filter by labels
F
```

Options inherited from parent commands

```
-R, --repo OWNER/REPO
                          Select another repository
In use
Default behavior
You will see the most recent 30 open items.
# Viewing a list of open pull requests
~/Projects/my-project$ gh pr list
Pull requests for owner/repo
#14 Upgrade to Prettier 1.19
                                                         prettier
#14 Extend arrow navigation in lists for MacOS
                                                         arrow-nav
#13 Add Support for Windows Automatic Dark Mode
                                                         dark-mode
     Create and use keyboard shortcut react component
                                                         shortcut
~/Projects/my-project$
Filtering with flags
You can use flags to filter the list for your specific use cases.
# Viewing a list of closed pull requests assigned to a user
~/Projects/my-project$ gh pr list --state closed --assignee user
Pull requests for owner/repo
#13 Upgrade to Electron 7
                                   electron-7
     Release Notes Writing Guide release-notes
```

MERGIN PRs (gh pr merge)

Merge a pull request

~/Projects/my-project\$

Synopsis

Merge a pull request on GitHub.

By default, the head branch of the pull request will get deleted on both remote and local repositories. To retain the branch, use '-delete-branch=false'.

gh pr merge [<number> | <url> | <branch>] [flags]

Options

-d,	delete-branch	Delete the local and remote branch after merge (default
true)		
-m,	merge	Merge the commits with the base branch
-r,	rebase	Rebase the commits onto the base branch
-s,	squash	Squash the commits into one commit and merge it into the
base b	oranch	

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository using

REOPEN A CLOSED PR (gh pr reopen)

Reopen a pull request

Synopsis

Reopen a pull request

gh pr reopen {<number> | <url> | <branch>} [flags]

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository using

REVIEWING PRs (gh pr review)

Add a review to a pull request

Synopsis

Add a review to a pull request.

Without an argument, the pull request that belongs to the current branch is reviewed.

gh pr review [<number> | <url> | <branch>] [flags]

Examples

```
# approve the pull request of the current branch
$ gh pr review --approve

# leave a review comment for the current branch
$ gh pr review --comment -b "interesting"

# add a review for a specific pull request
$ gh pr review 123

# request changes on a specific pull request
$ gh pr review 123 -r -b "needs more ASCII art"
```

Options

```
-a, --approve Approve pull request
-b, --body string Specify the body of a review
-c, --comment Comment on a pull request
-r, --request-changes Request changes on a pull
```

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository using

SEE STATUS OF A PR (gh pr status)

Show status of relevant pull requests

Synopsis

Show status of relevant pull requests

gh pr status [flags]

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository

In use

Viewing the status of your relevant pull requests
~/Projects/my-project\$ gh pr status

Current branch

#12 Remove the test feature [user:patch-2]
 - All checks failing - Review required

Created by you You have no open pull requests

Requesting a code review from you

#13 Fix tests [branch]

- 3/4 checks failing - Review required

#15 New feature [branch]

- Checks passing - Approved

~/Projects/my-project\$

> VIEW PRs (gh pr view)

View a pull request

Synopsis

Display the title, body, and other information about a pull request.

Without an argument, the pull request that belongs to the current branch is displayed.

With '-web', open the pull request in a web browser instead.

gh pr view [<number> | <url> | <branch>] [flags]

Options

-w, --web Open a pull request in the browser

Options inherited from parent commands

-R, --repo OWNER/REPO Select another repository using the OWNER

In use

In terminal

By default, we will display items in the terminal.

Viewing a pull request in terminal
~/Projects/my-project\$ gh pr view 21

In the browser

Quickly open an item in the browser using --web or -w # Viewing a pull request in the browser ~/Projects/my-project\$ gh pr view 21 --web

With no arguments

We will display the pull request of the branch you're currently on.

Viewing the pull request of the branch you're on
~/Projects/my-project\$ gh pr view

8) ISSUES

gh issue

Manage issues

Synopsis

Work with GitHub issues

Examples

```
$ gh issue list
$ gh issue create --label bug
$ gh issue view --web
```

Options

-R, --repo OWNER/REPO Select another repository

Options inherited from parent commands

--help Show help for command

Mhanje these 2 options will be available in all commands of gh issue **(4)**

CLOSING ISSUES (gh issue close)

Close issue

Synopsis

Close issue

```
gh issue close {<number> | <url>} [flags]
```

CREATING AN ISSUE (gh issue create)

Create a new issue

Synopsis

Create a new issue

gh issue create [flags]

Examples

```
$ gh issue create --title "I found a bug" --body "Nothing works"
$ gh issue create --label "bug,help wanted"
$ gh issue create --label bug --label "help wanted"
$ gh issue create --assignee monalisa,hubot
$ gh issue create --project "Roadmap"
```

Options

```
-a, --assignee login
-b, --body string
-l, --label name
-m, --milestone name
-p, --project name
-t, --title string
-w, --web

Assign people by their login
Supply a body. Will prompt for one otherwise.
Add labels by name
Add the issue to a milestone by name
Supply a title. Will prompt for one otherwise.
Open the browser to create
```

In use

```
# Create an issue interactively
~/Projects/my-project$ gh issue create

With flags
# Create an issue using flags
~/Projects/my-project$ gh issue create --title "Issue title" --body "Issue body"
```

```
In the browser
```

```
// Quickly navigate to the issue creation page
~/Projects/my-project$ gh issue create --web
```

LISTING ISSUES (gh issue list)

List and filter issues in this repository

Synopsis

List and filter issues in this repository

```
gh issue list [flags]
```

Examples

```
$ gh issue list -1 "help wanted"
$ gh issue list -A monalisa
$ gh issue list --web
$ gh issue list --milestone 'MVP'
```

Options

```
-a, --assignee string
-A, --author string
-l, --label strings
-L, --limit int
--mention string
-m, --milestone number
-s, --state string
-w, --web

Filter by assignee
Filter by author
Filter by labels
Filter by labels
Filter by states to fetch (default 30)
Filter by mention
Filter by milestone number or `title`
Filter by state: {open|closed|all} (default "open")
```

In use

Default behavior

You will see the most recent 30 open items.

```
# Viewing a list of open issues
~/Projects/my-project$ gh issue list
```

```
Issues for owner/repo

#14 Update the remote url if it changed (bug)

#14 PR commands on a detached head (enhancement)

#13 Support for GitHub Enterprise (wontfix)

#8 Add an easier upgrade command (bug)
```

Filtering with flags

You can use flags to filter the list for your specific use cases.

Viewing a list of closed issues assigned to a user
~/Projects/my-project\$ gh issue list --state closed --assignee user

> REOPEN CLOSED ISSUES (gh issue reopen)

Reopen issue

Synopsis

Reopen issue

gh issue reopen {<number> | <url>} [flags]

> VIEWIN ISSUE STATUS (gh issue status)

Show status of relevant issues

Synopsis

Show status of relevant issues

gh issue status [flags]

In use

Viewing issues relevant to you
~/Projects/my-project\$ gh issue status

Issues assigned to you

#8509 [Fork] Improve how Desktop handles forks (epic:fork, meta)

Issues mentioning you

#8938 [Fork] Add create fork flow entry point at commit warning (epic:fork) #8509 [Fork] Improve how Desktop handles forks (epic:fork, meta)

Issues opened by you

#8936 [Fork] Hide PR number badges on branches that have an upstream PR (epic:fork)

#6386 Improve no editor detected state on conflicts modal (enhancement)

> VIEWIN ISSUES (gh issue view)

View an issue

Synopsis

Display the title, body, and other information about an issue.

With '-web', open the issue in a web browser instead.

```
gh issue view {<number> | <url>} [flags]
```

Options

```
-w, --web Open an issue in the browser
```

In use

In terminal

By default, we will display items in the terminal.

```
# Viewing an issue in terminal
~/Projects/my-project$ gh issue view 21
```

```
Issue title
opened by user. 0 comments. (label)
Issue body
```

View this issue on GitHub: https://github.com/owner/repo/issues/21
~/Projects/my-project\$

In the browser

```
Quickly open an item in the browser using --web or -w # Viewing an issue in the browser ~/Projects/my-project$ gh issue view 21 --web
```