#### Cheatsheets / Learn Git & GitHub

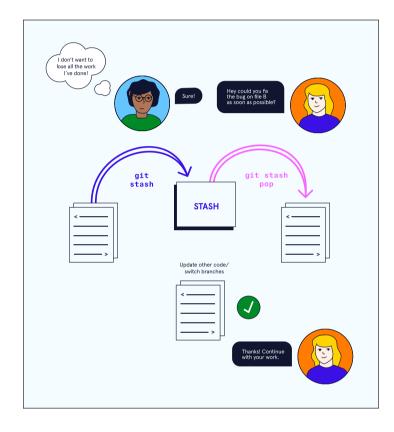
# **Important Git Operations**

# git stash

git stash allows you to get back to a clean commit point with a synchronized working tree, and avoid losing your local changes in the process of switching branches or tasks.

You're "stashing" your local work temporarily in order to update a previous commit and later on retrieve your work.

You can use **git stash pop** to retrieve from your stash.



about:srcdoc Page 1 of 5

#### git log options

git log allows you to view the commit history of the branch you currently have checked out.

git log --oneline show the list of commits in one line format. 'git log -S "keyword" displays a list of commits that contain the keyword in the message.

git log --oneline --graph displays a visual representation of how the branches and commits were created in order to help you make sense of your repository history.

## git commit -amend

git commit --amend flag allows you to update a commit. To avoid creating a new one, you could create your changes, stage them with git add and then type the command git commit --amend to update your previous commit.

The terminal editor will ask you to update your commit message.

#### Git aliases

If you have a set of commands that you use regularly and want to save some time from typing them, you can easily set up an alias for each command using Git config.

The following terminal command git config --global alias.glop "log --r

allows you to reduce the entire command to: git glop

about:srcdoc Page 2 of 5

#### **Showing Latest Commit Log**

In Git, the commit you are currently on is known as the HEAD commit.

The output of the git show HEAD command will display everything the git log command displays for the HEAD commit, plus all the file changes that were committed.

```
$ git show HEAD
commit
735359632f3ca3fe572484a4ec3e0d7b0d9c8f2
Author: codecademy
<exampleuser@codecademy.com>
Date:
       Wed Jul 6 10:20:58 2016 -0400
    scene-5.txt
diff --git a/scene-5.txt b/scene-5.txt
index b12dd97..5dd5d4e 100644
--- a/scene-5.txt
+++ b/scene-5.txt
@@ -12,3 +12,7 @@ Hamlet:
I will.
+Ghost:
+My hour is almost come,
+When I to sulphurous and tormenting
flames
+Must render up myself.
\ No newline at end of file
```

about:srcdoc Page 3 of 5

## **Git Reset Using SHA**

In Git, the git reset commit\_SHA command can be used to set HEAD to the commit\_SHA commit. The commit\_SHA argument is the first seven digits of a previous commit's SHA. In this example, the HEAD was reset to the commit made on Wed Jan 6. You can use git log to see a record of previous commits and their SHA values.

```
$ git log
commit
9d63f80111447544c303e9f1776fa08593a8731
Author: codecademy
<exampleuser@codecademy.com>
       Wed Jan 13 18:55:53 2021 +0000
Date:
   Added updates to the file
commit
3ba6efbeece6ed530d85de5e313e52123fdf8cb
Author: codecademy
<exampleuser@codecademy.com>
       Wed Jan 6 10:11:13 2021 -0400
Date:
   Completed first line of dialogue
$ git reset 3ba6efb
```

## **Staging Multiple Files**

In Git, the git add filename\_1 filename\_2 command is used to add multiple files to the staging area at once.
You can use git status to check if you properly added your files to the staging area.

```
$ git add scene-5.txt scene-7.txt
$ git status
On branch master
Changes to be committed:
   (use ""git reset HEAD <file>..."" to
unstage)

    modified: scene-5.txt
    modified: scene-7.txt
```

about:srcdoc Page 4 of 5

#### **Remove File from Staging**

In Git, the git reset HEAD filename command will remove filename from the staging area. Note that this command does not discard file changes from the working directory. You might use this command if you've added a file to the staging area, but the file includes incorrect edits.

You can use the **git status** command to make sure your file was properly removed from the staging area.

```
$ git reset HEAD scene-3.txt
Unstaged changes after reset:
M scene-3.txt
```

## **Rolling Back to Last Commit**

In Git, the git checkout HEAD filename command rolls back all changes that have been made to filename since the last commit. In other words, this command will change your working directory to look exactly as it did when you last made a commit.

You can use the git diff command to see if the rollback was successful. If git diff doesn't output anything, this means your working directory matches your last commit.





```
$ git checkout HEAD scene-5.txt
$ git diff
$
```

about:srcdoc Page 5 of 5