8/25/24, 7:54 PM about:blank

## Getting Started with Git and GitHub

## Module 2 Cheat Sheet: Git Commands and Managing GitHub Projects

Package/Method	Description	Code Example
git add	Used to move changes from the working directory to the staging area	<ol> <li>1. git add sample.md</li> </ol>
		Copied!
		1. 1
git add .	Allows to move the changed files into the staging area on GitHub repositories	1. git add .
		Copied! 1. 1
git am	Used to apply patches emailed to the repository	1. git am < patchfile.patch
		Copied!
git branch	Allows to create an isolated environment within the repository to make changes	<ol> <li>1. 1</li> <li>1. git branch <new-branch></new-branch></li> </ol>
		Copied!
		1. 1
git checkout	Allows to see and change existing branches	<pre>1. git checkout <existing-branch> Copied!</existing-branch></pre>
		1. 1
git checkout main	Allows to switch to the main branch	1. git checkout main
		Copied!
git clone	Allows to create a copy of the remote repository	1. git clone <repository-url></repository-url>
		Copied!
ait commit	Allows you to take staged snapshots if changes and commit them to the project	<ol> <li>1. 1</li> <li>1. git commit -m "Your commit message here"</li> </ol>
git commit		Copied!
		Example 1:
		1. 1
	Example 1: Sets a global email configuration for	<pre>1. git configglobal user.email "your.email@example.com"</pre>
git configglobal	Git	
user.email	Example 2: Sets a global username configuration for Git	Example 2:
		1. 1
		1. git configglobal user.name "Your Name"
		Copied! 1. 1
git daemon	Used to allow anonymous download from the repository	1. git daemonreuseaddrverbose
		Copied!
git diff	Helps others to review your code to identify and compare the changes	<ol> <li>1. git diff example.txt</li> </ol>
gir um		Copied!
	Used to transfer the changes from the remote repo	1. 1
git fetch	to your local repo	<pre>1. git fetch <options> <remote name=""> <branch name=""> Copied!</branch></remote></options></pre>
		1. 1
git fetch upstream/master	Used to grab upstream branches	1. git fetch upstream master:upstream-master
		Copied! 1. 1
git format-patch	Generates or prepares e-mail submission if you adopt Linux kernel-style public forum workflow	1. git format-patch -n <number_of_commits></number_of_commits>
	adopt Emux remer-style public forum workflow	Copied!

8/25/24, 7:54 PM about:blank

0/23/24, 7.34 PIVI		about.blank
Package/Method	Description	Code Example
8	•	1. 1 2. 2 3. 3
git http-backend	Provides a server-side implementation of Git-over-HTTP, allowing both fetch and push services	<ol> <li>git clonebare /path/to/repos/myrepo.git</li> <li>cd myrepo.git</li> <li>git update-server-info</li> </ol>
git init	Used to clone an existing repository	Copied!  1. 1  1. git init <directory>  Copied!</directory>
git instaweb	Allows to set up web front-end to Git repositories	1. 1 1. git instaweb -p 8080  Copied!
git log	Enables to browse previous changes to a project	<ol> <li>1. 1</li> <li>1. git log -p filename</li> </ol> Copied!
git merge	Used to merge changes in the active branch into another branch	<ol> <li>1. git merge feature_branch</li> <li>Copied!</li> </ol>
git merge upstream/master	Merges changes from the 'upstream/master' branch to the current branch	<ol> <li>1. git merge upstream/master</li> <li>Copied!</li> </ol>
git pull	Used to transfer the changes from the remote repo to your local repo, and merge them to a branch	<ol> <li>1. 1</li> <li>1. git pull origin main</li> </ol> Copied!
git pull downstream	Pulls changes from a downstream repository, specifically from the master branch of that repository	<ol> <li>1. 1</li> <li>1. git pull downstream main</li> </ol> Copied!
git pull upstream	Pulls changes from the "upstream" repository into the current branch	<ol> <li>1. git pull upstream main</li> <li>Copied!</li> </ol>
git push	Used to push all the committed changes into the repository	<ol> <li>1. git push origin your_branch_name</li> <li>Copied!</li> </ol>
git remote	A command to manage a set of tracked repositories	<ol> <li>1. 1</li> <li>1. git remote add upstream https://github.com/original/repo.git</li> <li>Copied!</li> </ol>
git remote add origin <url></url>	Adds a remote repository named "origin" with the specified URL	<ol> <li>1. 1</li> <li>1. git remote add origin https://github.com/yourusername/your-repo.git</li> <li>Copied!</li> </ol>
git remote add upstream	Adds the original repository as a new remote repository labeled upstream	<ol> <li>1. 1</li> <li>1. git remote add upstream https://github.com/original/repo.git</li> <li>Copied!</li> </ol>
git remote rename	The git remote rename command is followed by the name of the remote repository(origin) you want to rename and the new name(upstream) you want to give it	git remote rename origin new-origin  Copied!
git remote -v	Allows to view the remotes associated with the local repository	1. 1 1. git remote -v  Copied!
git request-pull	Example 1: Creates a summary of changes for your upstream to pull	
	Example 2: Generates a summary of pending changes for an email request	git request-pull origin/main your-branch  Copied!

about:blank 2/3

8/25/24, 7:54 PM about:blank

Package/Method	Description	Code Example
ð	•	Example 2:
		1. 1
		<pre>1. git request-pull <base/> <head> <repository></repository></head></pre>
		Copied!
		1. 1 2. 2
git rerere	Reuses recorded resolution of previously resolved merge conflicts	<ol> <li>git rerere</li> <li>git rerere diff</li> </ol>
		Copied!
git reset	Undoes changes that were made to the files in your	1. git reset HEAD~1
git Teset	working directory	Copied!
		1. 1
git revert	Used to undo botched commits	1. git revert HEAD
		Copied!
		Example 1:  1. 1
		2. 2
		<ol> <li>git send-emailto=recipient@example.com</li> <li>path/to/patchfile.patch</li> </ol>
git send-email	Example 1: Sends your email submission without corruption by your MUA	Copied!
	Example 2: Sends a collection of patches as emails	Example 2:
		1. 1 2. 2
		<ol> <li>git send-emailto recipient@example.com</li> <li>patches/*.patch</li> </ol>
		Copied!
	Used as a restricted login shell for shared central	1. 1
git-shell	repository users	1. sudo usermod -s /usr/bin/git-shell gituser
		Copied!  1. 1
git status	Allows to see the state of your working directory	1. git status
	and the staged snapshot of the changes	Copied!
		1. 1
git version	Displays the current Git version installed on your system	1. gitversion
		Copied!
-'4L	Describes and front and City	<ol> <li>1. 1</li> <li>1. git instawebport=8080</li> </ol>
git web	Provides a web front-end to Git repositories	
		Copied!



about:blank 3/3