7/18/24, 1:37 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	 1. 1 1. git add sample.md Copied!	
git add .	Allows to move the changed files into the staging area on GitHub repositories	1. 1 1. git add . Copied! 1. 1	
git am	Used to apply patches emailed to the repository	<pre>1. git am < patchfile.patch Copied!</pre>	
git branch	Allows to create an isolated environment within the repository to make changes	<pre>1. 1 1. git branch <new-branch> Copied! 1. 1</new-branch></pre>	
git checkout	Allows to see and change existing branches	<pre>1. git checkout <existing-branch> Copied! 1. 1</existing-branch></pre>	
git checkout main	Allows to switch to the main branch	 git checkout main Copied! 1 	
git clone	Allows to create a copy of the remote repository	1. git clone <repository-url> Copied! 1. 1</repository-url>	
git commit	Allows you to take staged snapshots if changes and commit them to the project	1. git commit -m "Your commit message here" Copied! Example 1:	
git configglobal user.email	Example 1: Sets a global email configuration for Git Example 2: Sets a global username configuration for Git	1. 1 1. git configglobal user.email "your.email@example.c	.com"
git daemon	Used to allow anonymous download from the repository	 git configglobal user.name "Your Name" Copied! git daemonreuseaddrverbose Copied! 1 	
git diff	Helps others to review your code to identify and compare the changes	<pre>1. git diff example.txt Copied!</pre>	
git fetch	Used to transfer the changes from the remote repo to your local repo	 1. 1 1. git fetch <options> <remote name=""> <branch name=""></branch></remote></options> Copied! 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>	
git http-backend	Provides a server-side implementation of Git- over-HTTP, allowing both fetch and push services	Copied! 1. 1 2. 2 3. 3 1. git clonebare /path/to/repos/myrepo.git 2. cd myrepo.git	
		3. git update-server-info	

7/18/24, 1:37 PM about:blank

7/18/24, 1:37 PM		about:blank
Package/Method	Description	Code Example
g.,		Copied!
		1. 1
git init	Used to clone an existing repository	1. git init <directory></directory>
		Copied!
		1. 1
git instaweb	Allows to set up web front-end to Git	1. git instaweb -p 8080
g	repositories	Conical
		Copied! 1. 1
git log	Enables to browse previous changes to a project	t 1. git log -p filename
		Copied!
		1. 1
git merge	Used to merge changes in the active branch into	1. git merge feature_branch
8 8 .	another branch	Copied!
		1. 1
git merge	Merges changes from the 'upstream/master'	
upstream/master	branch to the current branch	1. git merge upstream/master
		Copied!
	Used to transfer the changes from the remote	1. 1
git pull	repo to your local repo, and merge them to a	1. git pull origin main
•	branch	Copied!
		1. 1
	Pulls changes from a downstream repository,	1. git pull downstream main
git pull downstream	specifically from the master branch of that repository	1. git puil downstream main
	repository	Copied!
		1. 1
git pull upstream	Pulls changes from the "upstream" repository into the current branch	1. git pull upstream main
		Copied!
		1. 1
git push	Used to push all the committed changes into the	1. git push origin your_branch_name
8 - 1	repository	Copied!
		1. 1
	A command to manage a set of tracked	
git remote	repositories	1. git remote add upstream https://github.com/original/repo.git
		Copied!
		1. 1
git remote add origin <url></url>	Adds a remote repository named "origin" with the specified URL	1. git remote add origin https://github.com/yourusername/your-repo.git
O.L.	the specified GTE	Copied!
		1. 1
git remote add upstream	Adds the original repository as a new remote	 git remote add upstream https://github.com/original/repo.git
go remote and apportuni	repository labeled upstream	Caniad
	TTI '4 4 1' C 11 11	Copied! . 1. 1
	The git remote rename command is followed by the name of the remote repository(origin) you	•
git remote rename	want to rename and the new name(upstream)	1. git remote rename origin new-origin
	you want to give it	Copied!
		1. 1
git remote -v	Allows to view the remotes associated with the	1. git remote -v
	local repository	Copied!
		Example 1:
		1. 1
		1. git request-pull origin/main your-branch
	Example 1: Creates a summary of changes for	Copied!
git request-pull	your upstream to pull	
go request pun	Example 2: Generates a summary of pending	
	changes for an email request	Example 2:
		1. 1
		1. git request-pull <base/> <head> <repository></repository></head>
		Copied! 1. 1
		2. 2
git rerere	Reuses recorded resolution of previously	1. git rerere
J	resolved merge conflicts	2. git rerere diff
		Copied!

about:blank 2/3

Package/Method	Description	Code Example
		1. 1
git reset	Undoes changes that were made to the files in your working directory	1. git reset HEAD~1
		Copied!
		1. 1
git revert	Used to undo botched commits	1. git revert HEAD
		Copied!
		Example 1:
		1. 1 2. 2
		 git send-emailto=recipient@example.com path/to/patchfile.patch
	Example 1: Sends your email submission without corruption by your MUA	Copied!
git send-email	Example 2: Sends a collection of patches as	
	emails	Example 2:
		1. 1 2. 2
		 git send-emailto recipient@example.com patches/*.patch
		Copied!
		1. 1
git-shell	Used as a restricted login shell for shared central repository users	1. sudo usermod -s /usr/bin/git-shell gituser
		Copied!
	Allows to see the state of your working	1. 1
git status	Allows to see the state of your working directory and the staged snapshot of the changes	1. git status
		Copied!
	Displays the current Git version installed on	1. 1
git version	your system	1. gitversion
		Copied! 1. 1
git web	Provides a web front-end to Git repositories	1. git instawebport=8080
		Copied!



about:blank 3/3