Getting Started with Git and GitHub

Module 2 Cheat Sheet: Git Commands and Managing GitHub Projects

Package/Method	Description	Code Example
		1. 1
git add	Used to move changes from the working directory to the staging area	1. git add sample.md
		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	<pre>1. git am < patchfile.patch</pre>
	1 7	Copied!
		1. 1
git branch	Allows to create an isolated environment within the repository to make changes	<pre>1. git branch <new-branch></new-branch></pre>
	• • •	Copied!
		1. 1
git checkout	Allows to see and change existing branches	<pre>1. git checkout <existing-branch></existing-branch></pre>
		Copied!
		1. 1
git checkout main	Allows to switch to the main branch	1. git checkout main
		Copied!
		1. 1
git clone	Allows to create a copy of the remote repository	<pre>1. git clone <repository-url></repository-url></pre>
		Copied!
		1. 1
git commit	Allows you to take staged snapshots if changes and commit them to the project	 git commit -m "Your commit message here"
		Copied!
		Example 1:
		1. 1
		 git configglobal user.email "your.email@example.com"
		Copied!
git configglobal user.email	Example 1: Sets a global email configuration for Git	
ga comiggiobai uscr.eman	Example 2: Sets a global username configuration for Git	
		Example 2:
		1. 1
		1. git configglobal user.name "Your Name"
		Copied!
git daemon	Used to allow anonymous download from the repository	1. 1

Package/Method	Description	Code Example
		1. git daemonreuseaddrverbose
		Copied!
. 1100		1. 1
git diff	Helps others to review your code to identify and compare the changes	<pre>1. git diff example.txt Copied!</pre>
		1. 1
git fetch	Used to transfer the changes from the remote repo to your local repo	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!
git format-patch	Generates or prepares e-mail submission if you adopt Linux kernel-style public forum	 git format-patch -n <number_of_commits></number_of_commits>
gn tot mat paten	workflow	Copied!
		1. 1
		2. 2 3. 3
git http-backend	Provides a server-side implementation of Git-over-HTTP, allowing both fetch and push services	 git clonebare /path/to/repos/myrepo.git cd myrepo.git
		3. git update-server-info
		Copied!
		1. 1
git init	Used to clone an existing repository	<pre>1. git init <directory> Copied!</directory></pre>
		1. 1
git instaweb	Allows to set up web front-end to Git repositories	1. git instaweb -p 8080
		Copied!
		1. 1
git log	Enables to browse previous changes to a project	1. git log -p filename
		Copied!
git merge	Used to merge changes in the active branch into another branch	1. git merge feature_branch
Br. morde	esect to merge changes in the active orange into another orange.	Copied!
		1. 1
git merge upstream/master	Merges changes from the 'upstream/master' branch to the current branch	1. git merge upstream/master
		Copied!
% n	Used to transfer the changes from the remote repo to your local repo, and merge them to	 1. 1 1. git pull origin main
git pull	a branch	Copied!
git pull downstream	Pulls changes from a downstream repository, specifically from the master branch of that	1. 1
	repository	1. git pull downstream main

Package/Method	Description	Code Example
git pull upstream	Pulls changes from the "upstream" repository into the current branch	Copied! 1. 1 1. git pull upstream main Copied! 1. 1
git push	Used to push all the committed changes into the repository	<pre>1. git push origin your_branch_name Copied!</pre>
git remote	A command to manage a set of tracked repositories	 1. 1 1. git remote add upstream https://github.com/original/repo.git Copied!
git remote add origin <url></url>	Adds a remote repository named "origin" with the specified URL	 1. 1 1. git remote add origin https://github.com/yourusername/your-repo.git Copied!
git remote add upstream	Adds the original repository as a new remote repository labeled upstream	 1. 1 1. git remote add upstream https://github.com/original/repo.git Copied!
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	 1. 1 1. 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	<pre>Example 1: 1. 1 1. git request-pull origin/main your-branch Copied! Example 2: 1. 1 1. git request-pull <base/> <head> <repository></repository></head></pre>
git rerere	Reuses recorded resolution of previously resolved merge conflicts	Copied! 1. 1 2. 2 1. git rerere 2. git rerere diff
git reset	Undoes changes that were made to the files in your working directory	Copied! 1. 1 1. git reset HEAD~1

Package/Method	Description	Code Example
		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	 sudo usermod -s /usr/bin/git-shell gituser
g.v sv		Copied!
		1. 1
git status	Allows to see the state of your working directory and the staged snapshot of the changes	1. git status
		Copied! 1. 1
git version	Displays the current Git version installed on your system	1. gitversion
		Copied! 1. 1
git web	Provides a web front-end to Git repositories	1. git instawebport=8080
8	1	Copied!

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