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	<pre>1. 1 1. git add sample.md Copied!</pre>	
git add .	Allows to move the changed files into the staging area on GitHub repositories	<pre>1. 1 1. git add . Copied!</pre>	
git am	Used to apply patches emailed to the repository	<pre>1. 1 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!</new-branch></pre>	
git checkout	Allows to see and change existing branches	<pre>1. 1 1. git checkout <existing-bra copied!<="" pre=""></existing-bra></pre>	anch>
git checkout main	Allows to switch to the main branch	 1. 1 1. git checkout main Copied!	
git clone	Allows to create a copy of the remote repository	<pre>1. 1 1. git clone <repository-url; copied!<="" pre=""></repository-url;></pre>	>
git commit	Allows you to take staged snapshots if	 1. 1 1. git commit -m "Your commit 	t message here"

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	changes and commit them to the project	Copied!
git config global user.email	Example 1: Sets a global email configuration for Git	<pre>Example 1: 1. 1 1. git configglobal user.email "your.email@example.com" Copied!</pre>
	Example 2: Sets a global username configuration for Git	<pre>Example 2: 1. 1 1. git configglobal user.name "Your Name"</pre>
git daemon	Used to allow anonymous download from the repository	<pre>1. 1 1. git daemonreuseaddrverbose Copied!</pre>
git diff	Helps others to review your code to identify and compare the changes	<pre>1. 1 1. git diff example.txt Copied!</pre>
git fetch	Used to transfer the changes from the remote repo to your local repo	<pre>1. 1 1. git fetch <options> <remote name=""> <branch name=""></branch></remote></options></pre>
git fetch upstream/ master	Used to grab upstream branches	<pre>1. 1 1. git fetch upstream master:upstream-master Copied!</pre>
git format- patch	Generates or prepares e-mail submission if you adopt Linux kernel-style public forum workflow	<pre>1. 1 1. git format-patch -n <number_of_commits> Copied!</number_of_commits></pre>
git http- backend	Provides a server-side implementation	1. 1 2. 2 3. 3

Package/ Method	Description	Code Example
	of Git-over- HTTP, allowing both fetch and push services	 git clonebare /path/to/repos/myrepo.git cd myrepo.git git update-server-info Copied!
git init	Used to clone an existing repository	<pre>1. 1 1. git init <directory> Copied!</directory></pre>
git instaweb	Allows to set up web front-end to Git repositories	<pre>1. 1 1. git instaweb -p 8080 Copied!</pre>
git log	Enables to browse previous changes to a project	<pre>1. 1 1. git log -p filename Copied!</pre>
git merge	Used to merge changes in the active branch into another branch	<pre>1. 1 1. git merge feature_branch Copied!</pre>
git merge upstream/ master	Merges changes from the 'upstream/master' branch to the current branch	 1. 1 1. git merge upstream/master Copied!
git pull	Used to transfer the changes from the remote repo to your local repo, and merge them to a branch	 1. 1 1. git pull origin main Copied!
git pull downstream	Pulls changes from a downstream repository, specifically from the master branch of that repository	 1. 1 1. git pull downstream main Copied!

Package/ Method	Description	Code Example
git pull upstream	Pulls changes from the "upstream" repository into the current branch	<pre>1. 1 1. git pull upstream main Copied!</pre>
git push	Used to push all the committed changes into the repository	<pre>1. 1 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-rep 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	<pre>1. 1 1. git remote -v Copied!</pre>
git request- pull	Example 1: Creates a summary of changes for your	Example 1:

Package/ Method	Description	Code Example
	upstream to pull Example 2: Generates a summary of pending changes for an email request	<pre>1. 1 1. git request-pull origin/main your-branch Copied! Example 2: 1. 1 1. git request-pull <base/> <head> <repository> Copied!</repository></head></pre>
git rerere	Reuses recorded resolution of previously resolved merge conflicts	<pre>1. 1 2. 2 1. git rerere 2. git rerere diff Copied!</pre>
git reset	Undoes changes that were made to the files in your working directory	<pre>1. 1 1. git reset HEAD~1 Copied!</pre>
git revert	Used to undo botched commits	1. 1 1. git revert HEAD Copied!
git send- email	Example 1: Sends your email submission without corruption by your MUA Example 2: Sends a collection of patches as emails	Example 1: 1. 1 2. 2 1. git send-emailto=recipient@example.com 2. path/to/patchfile.patch Copied! Example 2: 1. 1 2. 2 1. git send-emailto recipient@example.com 2. patches/*.patch Copied!

Package/ Method	Description	Code Example
git-shell	Used as a restricted login shell for shared central repository users	 1. 1 1. sudo usermod -s /usr/bin/git-shell gituser Copied!
git status	Allows to see the state of your working directory and the staged snapshot of the changes	<pre>1. 1 1. git status Copied!</pre>
git version	Displays the current Git version installed on your system	<pre>1. 1 1. gitversion Copied!</pre>
git web	Provides a web front-end to Git repositories	<pre>1. 1 1. git instawebport=8080 Copied!</pre>



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