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## **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. 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!
git am	Used to apply patches emailed to the repository	<pre>1. 1 1. git am &lt; 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	1. 1 1. git checkout <existing-branch>  Copied! 1. 1</existing-branch>
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>
git commit	Allows you to take staged snapshots if changes and commit them to the project	<ol> <li>1. git commit -m "Your commit message here"</li> <li>Copied!</li> <li>Example 1:</li> </ol>
git configglobal user.email	Example 1: Sets a global email configuration for Git  Example 2: Sets a global username	1. 1 1. git configglobal user.email "your.email@example.com"  Copied!
	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!  1. 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	<ol> <li>1. git fetch <options> <remote name=""> <branch name=""></branch></remote></options></li> <li>Copied!</li> </ol>
git fetch upstream/master	Used to grab upstream branches	<ol> <li>1. git fetch upstream master:upstream-master</li> <li>Copied!</li> </ol>
git format-patch	Generates or prepares e-mail submission if you adopt Linux kernel-style public forum workflow	<ol> <li>1. git format-patch -n <number_of_commits></number_of_commits></li> </ol> Copied!

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Package/Method	Description	Code Example
		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>
		Copied! 1. 1
git init	Used to clone an existing repository	<pre>1. git init <directory>     Copied!</directory></pre>
git instaweb	Allows to set up web front-end to Git repositories	1. 1 1. git instaweb -p 8080
	Enables to browse previous changes to a	Copied! 1. 1
git log	project	1. git log -p filename  Copied!
git merge	Used to merge changes in the active branch into another branch	<ol> <li>1. git merge feature_branch</li> </ol>
		Copied! 1. 1
git merge upstream/master	Merges changes from the 'upstream/master' branch to the current branch	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	<ol> <li>1. 1</li> <li>1. git pull origin main</li> </ol>
	branch	Copied! 1. 1
git pull downstream	Pulls changes from a downstream repository, specifically from the master branch of that repository	1. git pull downstream main  Copied!
git pull upstream	Pulls changes from the "upstream" repository into the current branch	<ol> <li>1. 1</li> <li>1. git pull upstream main</li> </ol> Copied!
git push	Used to push all the committed changes into the repository	1. 1 1. git push origin your_branch_name
git remote	A command to manage a set of tracked repositories	Copied!  1. 1  1. git remote add upstream https://github.com/original/repo.git
	repositories	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 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
	The git remote rename command is followed	Copied! 1. 1
git remote rename	by the name of the remote repository(origin) you want to rename and the new name(upstream) you want to give it	1. git remote rename origin new-origin  Copied!  1. 1
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	1. git request-pull origin/main your-branch  Copied!

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Package/Method	Description	Code Example
		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!
		1. 1
git reset	Undoes changes that were made to the files in your working directory	1. git reset HEAD~1
	your 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>
	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
		<ol> <li>git send-emailto recipient@example.com</li> <li>patches/*.patch</li> </ol>
		Copied!
		1. 1
git-shell	Used as a restricted login shell for shared	1. sudo usermod -s /usr/bin/git-shell gituser
8	central repository users	Copied!
		1. 1
git status	Allows to see the state of your working directory and the staged snapshot of the	1. git status
gre status	changes	Copied!
		1. 1
git version	Displays the current Git version installed on	1. gitversion
8-1 1010101	your system	Copied!
		1. 1
git web	Provides a web front-end to Git repositories	1. git instawebport=8080
Pre wen	110 racs a web from end to On repositories	Copied!
		Copieu:



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