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	git add sample.md
git add .	Allows to move the changed files into the staging area on GitHub repositories	git add .
git am	Used to apply patches emailed to the repository	git am < patchfile.patch
git branch	Allows to create an isolated environment within the repository to make changes	git branch <new-branch></new-branch>
git checkout	Allows to see and change existing branches	git checkout <existing-branch></existing-branch>
git checkout main	Allows to switch to the main branch	git checkout main

Package/Method	Description	Code Example
git clone	Allows to create a copy of the remote repository	git clone <repository-url></repository-url>
git commit	Allows you to take staged snapshots if changes and commit them to the project	git commit -m "Your commit message here"
git configglobal user.email	Example 1: Sets a global email configuration for Git Example 2: Sets a global username configuration for Git	Example 1: git configglobal user.email "your.email@example.com" Example 2: git configglobal user.name "Your Name"
git daemon	Used to allow anonymous download from the repository	git daemonreuseaddrverbose
git diff	Helps others to review your code to identify and compare the changes	git diff example.txt
git fetch	Used to transfer the changes from the remote repo to your local repo	git fetch <options> <remote name=""> <branch name=""></branch></remote></options>
git fetch upstream/main	Used to grab upstream branches	git fetch upstream main:upstream-main

Package/Method	Description	Code Example
		git format-patch -n <number_of_commits></number_of_commits>
git format-patch	Generates or prepares e-mail submission if you adopt Linux kernel-style public forum workflow	
		git clonebare /path/to/repos/myrepo.git cd myrepo.git git update-server-info
git http-backend	Provides a server-side implementation of Git-over-	
git intp-backend	HTTP, allowing both fetch and push services	
		git init <directory></directory>
		git lift valuectory/
git init	Used to clone an existing repository	
		git instaweb -p 8080
git instaweb	Allows to set up web front-end to Git repositories	
		git log -p filename
git log	Enables to browse previous changes to a project	
		git merge feature_branch
git merge	Used to merge changes in the active branch into another branch	
		git merge upstream/main
git merge upstream/main	Merges changes from the 'upstream/main' branch to the current branch	
git pull	Used to transfer the changes from the remote repo to your local repo, and merge them to a branch	git pull origin main
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Package/Method	Description	Code Example
		git pull downstream main
git pull downstream	Pulls changes from a downstream repository, specifically from the main branch of that repository	
		git pull upstream main
	Pulls changes from the "upstream" repository into the	
git pull upstream	current branch	
		git push origin your_branch_name
git push	Used to push all the committed changes into the	
	repository	
		git remote add upstream https://github.com/original/repo.git
git remote	A command to manage a set of tracked repositories	
		git remote add origin https://github.com/yourusername/your-repo.git
git remote add origin	Adds a remote repository named "origin" with the	
<url></url>	specified URL	
		git remote add upstream https://github.com/original/repo.git
git remote add upstream	Adds the original repository as a new remote repository labeled upstream	
		git remote rename origin new-origin
	The git remote rename command is followed by the	
git remote rename	name of the remote repository(origin) you want to rename and the new name(upstream) you want to give it	
git remote -v	Allows to view the remotes associated with the local	git remote -v
garanet -	repository	<u> </u>
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Package/Method	Description	Code Example
		Example 1: git request-pull origin/main your-branch
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	Example 2: git request-pull <base/> <head> <repository></repository></head>
git rerere	Reuses recorded resolution of previously resolved merge conflicts	git rerere git rerere diff
git reset	Undoes changes that were made to the files in your working directory	git reset HEAD~1
		git revert HEAD
git revert	Used to undo botched commits	
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: git send-emailto=recipient@example.com path/to/patchfile.patch
		Example 2: git send-emailto recipient@example.com patches/*.patch

Package/Method	Description	Code Example
git-shell	Used as a restricted login shell for shared central repository users	sudo usermod -s /usr/bin/git-shell gituser
git status	Allows to see the state of your working directory and the staged snapshot of the changes	git status
git version	Displays the current Git version installed on your system	gitversion