10/04/2024, 18:36 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. 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	1. 1 1. git branch <new-branch> Copied! 1. 1</new-branch>
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	1. git checkout main Copied! 1. 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	 1. 1 1. git configglobal user.email "your.email@example.com" Copied!
	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 1. git daemonreuseaddrverbose Copied! 1. 1
git diff	Helps others to review your code to identify and compare the changes	Copied!
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=""> Copied! 1. 1</branch></remote></options></pre>
git fetch upstream/master	Used to grab upstream branches	 git fetch upstream master:upstream-master Copied! 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> Copied!</number_of_commits>
git http-backend	Provides a server-side implementation of Git- over-HTTP, allowing both fetch and push services	1. 1 2. 2 3. 3 1. git clonebare /path/to/repos/myrepo.git
		2. cd myrepo.git 3. git update-server-info

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10/04/2024, 18:36 about:blank

10/04/2024, 18:36		about:blank
Package/Method	Description	Code Example
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		1. 1
git init	Used to clone an existing repository	1. git init <directory></directory>
Ü		Copied!
		1. 1
git instaweb	Allows to set up web front-end to Git	1. git instaweb -p 8080
gre more wes	repositories	Copied!
		1. 1
git log	Enables to browse previous changes to a project	1. git log -p filename
git log	Enables to blowse previous changes to a project	
		Copied! 1. 1
•.	Used to merge changes in the active branch into	
git merge	another branch	1. Sie mer Se redeal e_or anem
		Copied!
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 branch	1. git pull origin main
	branch	Copied!
	Pulls changes from a downstream repository,	1. 1
git pull downstream	specifically from the master branch of that	1. git pull 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 repository	1. git push origin your_branch_name
	repository	Copied!
		1. 1
git remote	A command to manage a set of tracked repositories	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	1. git remote add origin https://github.com/yourusername/your-repo.git
<url></url>	the specified URL	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
	repository labeled upstream	Copied!
	The git remote rename command is followed by	
git remote rename	the name of the remote repository(origin) you	1. git remote rename origin new-origin
g., , ,	want to rename and the new name(upstream) you want to give it	Copied!
	you want to give it	1. 1
git remote -v	Allows to view the remotes associated with the	1. git remote -v
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 your upstream to pull	Copied!
git request-pull	•	
	Example 2: Generates a summary of pending changes for an email request	Example 2:
	enunges for un enum request	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
	resolved merge conflicts	2. git rerere diff
		Copied!

about:blank 2/3

10/04/2024, 18:36 about:blank

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
-:4 d:1	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!
		1. 1
git status	Allows to see the state of your working directory and the staged snapshot of the changes	1. git status
	ancetory and the staged shapshot of the change	Copied!
git version	Displays the current Git version installed on	 1. gitversion
g.,	your system	Copied!
		1. 1
git web	Provides a web front-end to Git repositories	1. git instawebport=8080
		Copied!



about:blank 3/3