



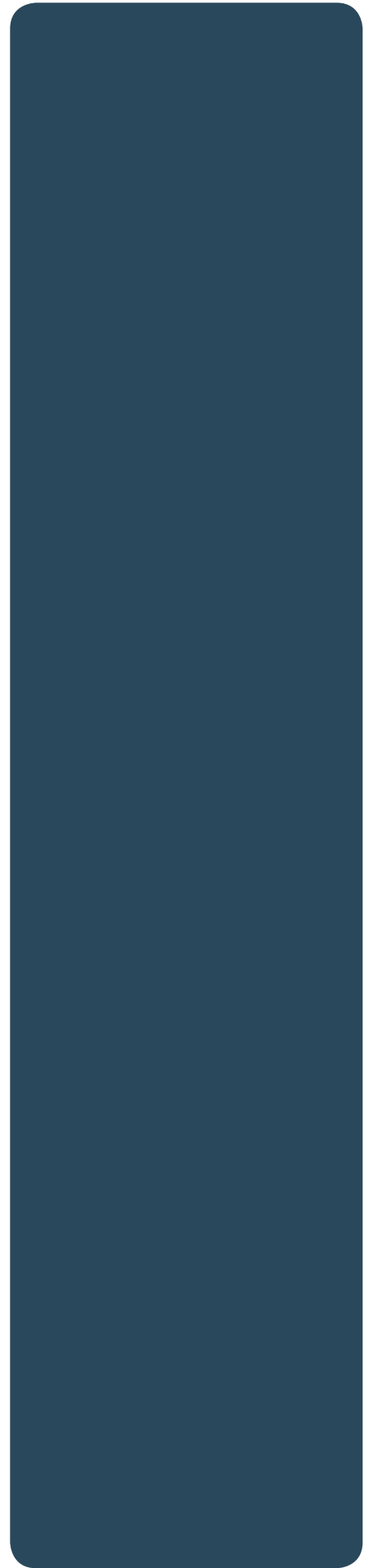
Linux Academy

Study Guide

Git Cheat Sheet

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Global Configuration Commands

- **git config --global user.name <name>** • Configures the default repository username
- **git config --global user.email <email>** • Configures the default repository user email address
- **git config --system core.editor <editor>** • Sets the default editor for commits and/or diffs
- **git config --global alias.<aliasname> 'git commands'** • Allows you to create an alias for common git commands

Basic Commands

- **git init <dirname>** • Creates an empty repository in the directory **dirname** and initializes that repository
- **git clone <repo>** • Clones and indicates remote or local repo by SSH/HTTP/HTTPS to the current directory
- **git add <file/dir>** • Adds the indicated files, staging them to be committed to the repository
- **git commit -m "Message"** • Commits all the staged files (new/changes) to the current repository in the active branch
- **git status** • Displays the status of the current repository's files and directories (untracked/staged)
- **git rm <file/dir>** • Removes a file from the existing repo cache, staging it for removal during next commit

Logging Commands

- **git log** • Displays all commits to the current repository, all branches, newest to oldest
- **git log -p** • Displays all commits, with the backend statistics indicating all changes/adds/deletes
- **git log --oneline** • Displays all commits by short ID and commit message
- **git log --stat** • Displays all commits, including which files are changed and the number of lines added/deleted from each

- **git log --author="name"** • Displays all commits by indicated author
- **git log --grep="value"** • Displays all commits with text values matching the indicated value
- **git log --graph --decorate** • Draws a text-based graph of the commits and commit messages with names of branches/tags

Branching and Merging Commands

- **git branch** • Indicates the current/active branch
- **git branch <name>** • Creates a new branch with the indicated name
- **git checkout <name>** • Changes the active branch to the indicated name, if exists
- **git checkout -b <name>** • Creates a new branch with the indicated name and changes to the new branch
- **git merge <name>** • Merges all changes/additions/deletions from the indicated branch to the current/active branch

Update /Push Commands

- **git push <remote> <branch>** • Pushes changes from the local copy to the original repository on the indicated branch, creating the branch if it does not exist
- **git push <branch>** • Forces a push to the remote repository even if it would result in merge errors
- **git push <remote> --all** • Pushes all changes from all local branches to the original repository on the indicated branches, creating them if they do not exist