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GIT COMMANDS GUIDE

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GIT COMMANDS CHEAT SHEET

Unlock the power of Git with this essential guide to daily commands.

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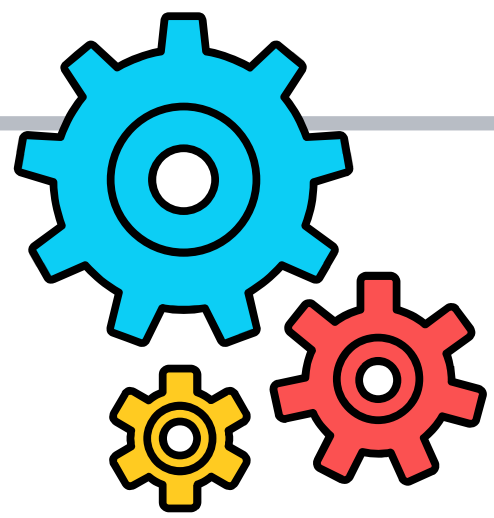
SETTING UP AND CONFIGURING GIT

- **git init:** Initialize a new Git repository.
- **git clone [URL]:** Download a repository onto your local machine.
- **git config --global user.name "[name]":** Set your username for all repositories.
- **git config --global user.email "[email address]":** Set your email for all repositories.
- **git config --list:** List all settings configured in git config.



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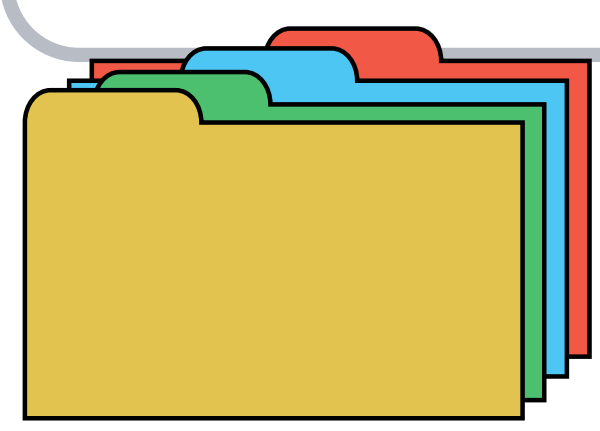
MANAGING FILES AND STAGING

- **git status:** Show the status of files in the working directory and staging area.
- **git add [file]:** Add a file to the staging area.
- **git rm [file]:** Remove a file from the working directory and the staging area.
- **git mv [old-file] [new-file]:** Move or rename a file or a directory.
- **git diff:** Show changes between files, commit, and staging area.



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BRANCHING AND MERGING

- **git branch:** List all branches in your repo.
- **git branch [name]:** Create a new branch.
- **git checkout [branch]:** Switch to another branch and check it out into your working directory.
- **git merge [branch]:** Merge another branch into your active branch.
- **git branch -d [branch]:** Delete a branch.

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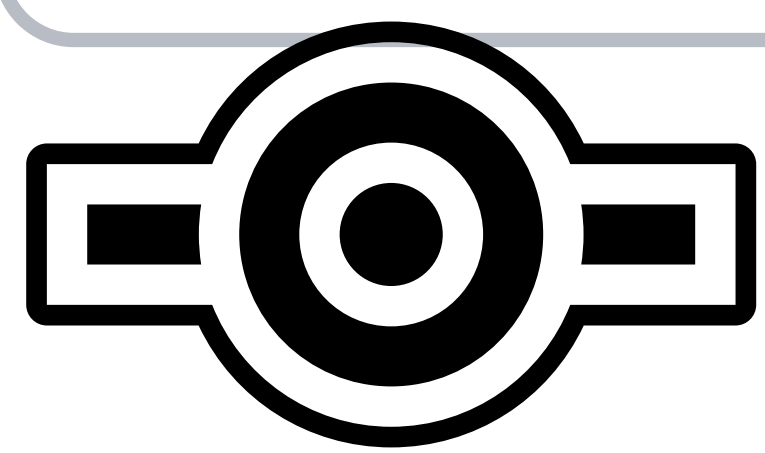
COMMITTING CHANGES

- **git commit -m "[message]":** Commit your staged content as a new commit snapshot.
- **git commit --amend:** Modify the most recent commit.
- **git revert [commit]:** Revert some existing commits.
- **git reset [file]:** Unstage a file while retaining the changes in working directory.
- **git clean -n:** Show which files would be removed from working directory.



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REMOTE REPOSITORIES AND PUSHING CHANGES

- **git remote add [name] [url]:** Add a new remote repository.
- **git fetch [remote]:** Fetch changes from the remote repository.
- **git pull [remote] [branch]:** Fetch and merge changes on the remote server to your working directory.
- **git push [remote] [branch]:** Push your branch to the remote repository.
- **git remote show [remote]:** Give detailed information about a particular remote.

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ADVANCED BRANCHING AND MERGING

- **git checkout -b [branch]:** Create and check out a new branch.
- **git merge --no-ff [branch]:** Merge without a fast-forward.
- **git stash push:** Save your modifications temporarily without committing.
- **git stash pop:** Apply stashed changes back to your working directory.
- **git cherry-pick [commit]:** Apply the changes introduced by some existing commits.

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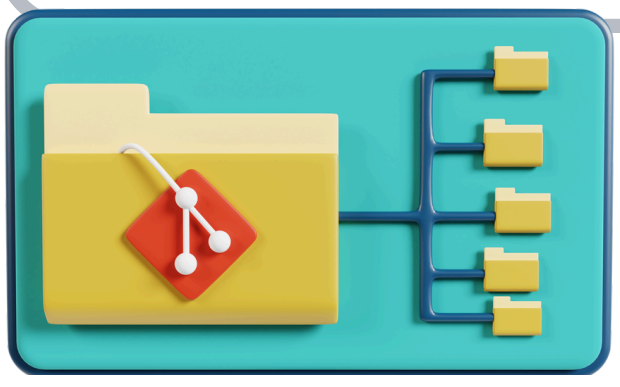
TAGGING AND LOGGING

- **git tag [tag]:** Create a tag for marking a significant change.
- **git log:** Show recent commits on the current branch.
- **git log --follow [file]:** Show the commits that changed a file.
- **git show [commit]:** Show various types of objects.
- **git tag -a [tag] -m [msg]:** Create an annotated tag.



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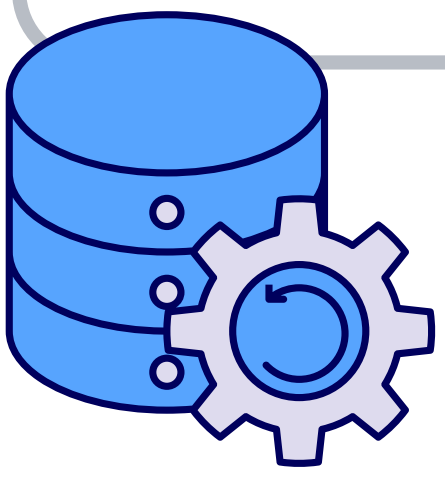
UNDOING CHANGES AND CLEANING UP

- **git reset --hard [commit]:** Reset your HEAD and working directory to another commit.
- **git revert [commit]:** Generate a new commit that undoes all of the changes introduced in [commit].
- **git clean -f:** Remove untracked files from the working directory.
- **git reset --soft [commit]:** Soft reset on a commit.
- **git reset --mixed [commit]:** Resets the index but not the working tree.



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ADVANCED GIT TOOLS

- **git bisect start:** Start binary search to find the commit that introduced a bug.
- **git bisect good [commit]:** Mark commit as good.
- **git bisect bad [commit]:** Mark commit as bad.
- **git grep [pattern]:** Search for a pattern in the tracked files in your repository.
- **git blame [file]:** Show what revision and author last modified each line of a file.

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COLLABORATION AND WORKFLOW

- **git pull --rebase [remote]:** Reapply changes from a remote branch.
- **git push --force [remote] [branch]:** Force push to a remote repository.
- **git fetch --all:** Fetch all remotes.
- **git push --tags:** Push all tags to remote repository.
- **git pull --all:** Pull changes from all branches and merge them.

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GIT MASTERY

Leverage these Git commands to enhance your development workflows, improve collaboration, and streamline your projects.

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