



These cheat sheets are provided for non-commercial purpose for personal study.

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Good luck on your exam!



Git Commands

Repository Setup

- Initialize a new repository: git init
- Clone a repository: git clone <repository_url>

Basic Operations

- Check the status: git status
- Add files to staging area: git add <file_path> or git add . for all files
- Commit changes: git commit -m "commit message"
- View commit history: git log
- View a concise commit history: git log --oneline
- View changes: git diff
- View changes in the staging area: git diff --staged
- Remove files from staging area: git reset <file_path>
- Discard local changes to a file: git checkout -- <file_path>

Branching and Merging

- Create a new branch: git branch <branch_name>
- Switch to a branch: git checkout <branch_name>
- Create and switch to a new branch: git checkout -b
branch_name>
- Merge a branch: git merge <branch_name>
- Delete a branch: git branch -d <branch name>
- **List all branches**: git branch
- Rebase a branch: git rebase <base_branch>



Remote Repositories

- Add a remote repository: git remote add <name> <url>
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- View remote repositories: git remote -v
- Fetch changes from a remote repository: git fetch
- Pull changes from a remote repository: git pull
- Push changes to a remote repository: git push <remote>
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- Delete a remote branch: git push <remote> --delete
branch>

Advanced Operations

- **Stash changes**: git stash
- Apply stashed changes: git stash apply
- **List stashes**: git stash list
- Create a tag: git tag <tag_name>
- Push tags to remote: git push --tags
- Show commit details: git show <commit_hash>
- Reset to a previous commit: git reset --hard <commit_hash>
- Cherry-pick a commit: git cherry-pick <commit_hash>



GitHub CLI (gh) Commands

Authentication and Setup

- Authenticate with GitHub: gh auth login
- Check authentication status: gh auth status

Repository Management

- Create a new repository: gh repo create <repository_name>
- Clone a repository: gh repo clone <repository_name>
- View repository details: gh repo view

Issue and Pull Request Management

- **List issues**: gh issue list
- View an issue: gh issue view <issue_number>
- Create a new issue: gh issue create
- Close an issue: gh issue close <issue_number>
- **List pull requests**: gh pr list
- View a pull request: gh pr view <pr_number>
- Create a new pull request: gh pr create
- Merge a pull request: gh pr merge <pr_number>
- Close a pull request: gh pr close <pr_number>



Workflow and Actions

- **List workflow runs**: gh run list
- View a workflow run: gh run view <run_id>
- Re-run a workflow: gh run rerun <run_id>

Miscellaneous

- Open repository in browser: gh browse
- Create a GitHub gist: gh gist create
- **List gists**: gh gist list
- View a gist: gh gist view <gist_id>