Absolutely! Here's an **updated Git & GitHub command guide**, now including **branch renaming commands**:

Git & GitHub Complete Commands Guide

1. Git Configuration

- git config --global user.name "Your Name" Sets your Git username.
- git config --global user.email "your.email@example.com" Sets your
 Git email.
- git config --list Displays all configured Git settings.
- git config --global core.editor "vim" Sets the default text editor for Git.
- git config --global alias.st status Creates a shortcut alias for git status.

2. Git Basics

- git init Initializes a new Git repository.
- git clone <repo_URL> Creates a local copy of a remote repository.
- git status Shows the current state of the working directory.
- git add <file> Stages specific files for the next commit.
- git add . Stages all changes.
- git commit -m "message" Saves staged changes with a descriptive commit message.
- qit commit --amend -m "new message" Modifies the last commit message.
- git rm <file> Removes a file from the repository and stages the deletion.

3. Branching & Merging

- git branch Lists all branches.
- qit branch <branch_name> Creates a new branch.
- git checkout
branch_name> Switches to an existing branch.
- git checkout -b
branch_name> Creates and switches to a new branch.
- qit merge
 branch_name> Merges another branch into the current branch.
- git branch -d <branch_name> Deletes a local branch.

- git branch -D <branch_name> Force deletes a branch.
- git rebase

branch_name> Reapplies commits on top of another branch.

4. Renaming Branches

Rename the current branch locally

git branch -m <new_branch_name>

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Rename a different branch locally

git branch -m <old_branch_name> <new_branch_name>

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Push the renamed branch to remote

git push origin <new_branch_name>

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Delete the old branch from remote

git push origin --delete <old_branch_name>

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Update tracking for the renamed branch

git branch --unset-upstream <new_branch_name>
git push -u origin <new_branch_name>

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5. Working with Remotes

- git remote -v Lists connected remote repositories.
- git remote add origin <repo_URL> Links local repository to a remote.
- git push -u origin
branch_name> Pushes local commits to a remote repository.
- git pull origin <branch_name> Fetches and updates local repository with remote changes.
- git fetch Retrieves updates from a remote repository without merging them.
- git remote remove <remote_name> Removes a remote repository.

6. Undoing Changes

- git reset --soft <commit_hash> Resets to a specific commit but keeps changes staged.
- git reset --hard <commit_hash> Resets to a specific commit and deletes all changes.
- git revert <commit_hash> Creates a new commit that undoes changes from a previous commit.
- git checkout -- <file> Discards changes in a specific file.
- git restore <file> Restores a file to its last committed state.

7. Stashing Work

- git stash Saves uncommitted changes temporarily.
- git stash apply Restores the latest stashed changes.
- git stash drop Deletes the latest stash entry.
- git stash list Displays all stashed changes.
- git stash pop Applies and removes the latest stash.

8. Collaboration on GitHub

- git push origin main Pushes the local repository to GitHub.
- git pull origin main Pulls updates from GitHub.
- git fork <repo_URL> Copies another repository into your GitHub account.
- git clone <your_forked_repo_URL> Clones a forked repository locally.
- git fetch upstream Retrieves changes from the original repo.
- git merge upstream/main Merges latest changes from the original repo into your branch.
- git pull --rebase origin main Pulls changes while keeping your commits on top.

9. Viewing History

- git log Displays a list of commit history.
- git log --oneline Shows a brief history of commits.
- git log --graph --decorate --all Displays a visual representation of commit history.
- git diff Compares changes between commits.
- git blame <file> Shows who last modified each line of a file.

10. Tagging Releases

- git tag <tag_name> Creates a new tag for a commit.
- git tag -a <tag_name> -m "message" Creates an annotated tag.
- git push origin <tag_name> Pushes a tag to the remote repository.
- git tag -d <tag_name> Deletes a local tag.
- git push origin --delete <tag_name> Deletes a remote tag.

11. Advanced Git Commands

- git cherry-pick <commit_hash> Applies a specific commit to the current branch.
- git reflog Shows a history of all changes, including deleted commits.
- git bisect start Helps find a bug by performing a binary search through commits.
- git shortlog -sn Displays commit statistics by author.
- git archive --format=zip HEAD > archive.zip Creates a zip archive of the repository.

This guide now includes **branch renaming commands** along with all essential Git & GitHub commands. You can copy and paste this into a document and save it as a **PDF** using Microsoft Word or Google Docs. Let me know if you need any refinements! \checkmark