

Git & GitHub Commands Cheat Sheet

1. Basic Configuration

```
git config --global user.name "Your Name"
git config --global user.email "you@example.com"
git config --list                # Show all config
```

2. Create or Clone Repositories

```
git init                        # Initialize a new Git repo
git clone <repo-url>           # Clone an existing repo
```

3. Staging and Committing Changes

```
git status                     # View status
git add <file>                 # Stage a specific file
git add .                      # Stage all changes
git commit -m "message"       # Commit changes
```

4. Branching

```
git branch                    # List branches
git branch <branch-name>     # Create new branch
git checkout <branch-name>    # Switch to branch
git checkout -b <name>        # Create and switch
```

5. Merging and Rebasing

```
git merge <branch>           # Merge branch into current
git rebase <branch>          # Rebase current onto branch
```

6. Pushing and Pulling

```
git remote add origin <url>      # Add remote origin
git push -u origin <branch>      # Push to remote first time
git push                          # Push changes
git pull                          # Pull latest changes
```

7. Undoing Changes

```
git checkout -- <file>           # Discard local changes
git reset <file>                 # Unstage a file
git reset --hard                 # Remove all local changes
```

8. Stashing

```
git stash                        # Stash current changes
git stash apply                  # Reapply stashed changes
```

9. Logs and History

```
git log                         # View commit history
git log --oneline               # Condensed view
```

10. Tagging

```
git tag <tagname>              # Create tag
git tag                         # List tags
git push origin <tagname>      # Push tag to remote
```

11. Other Useful Commands

```
git diff                        # Show changes
git fetch                       # Download changes
```

12. Deleting

```
git branch -d <branch>          # Delete local branch
git push origin --delete <branch> # Delete remote branch
```

13. Working with .gitignore

```
# Create .gitignore and list file patterns to exclude
```

14. GitHub-Specific Tips

- Create a repo on GitHub first
 - Then use `git remote add origin <url>`
 - Always push using your branch name: `git push -u origin main`
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Note: Replace `<...>` with actual values.

Keep this cheat sheet handy for quick reference!