

Git Commands Cheat Sheet

◆ 1. Setup & Configuration

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

◆ 2. Initialize & Clone

```
git init      # Create new Git repo  
git clone <url>    # Clone existing repo
```

◆ 3. Basic Workflow

```
git status      # Check current state  
git add <file>    # Stage specific file  
git add .       # Stage all changes  
git commit -m "message" # Commit staged files  
git log        # View commit history  
git diff       # Show unstaged changes  
git diff --staged    # Show staged changes
```

◆ 4. Branching & Merging

```
git branch      # List branches  
git branch <name>    # Create new branch  
git checkout <name>   # Switch branch  
git checkout -b <name> # Create & switch  
git merge <branch>    # Merge branch into current  
git branch -d <name>   # Delete branch
```

◆ 5. Remote Repositories

```
git remote -v      # Show remotes  
git remote add origin <url> # Add remote  
git push origin <branch>  # Push branch to remote  
git pull origin <branch>  # Fetch & merge changes  
git fetch origin      # Fetch updates only
```

◆ 6. Undoing Changes

```
git restore <file>      # Discard unstaged changes  
git restore --staged <file> # Unstage file  
git reset --hard <commit>  # Reset to a specific commit  
git revert <commit>       # Undo commit safely
```

◆ 7. Viewing & Comparing

```
git show <commit>      # Show details of commit  
git log --oneline --graph # Compact commit history  
git blame <file>       # Show who changed each line
```

◆ 8. Stashing (Temporary Save)

```
git stash      # Save uncommitted changes  
git stash list # List stashed items  
git stash apply # Reapply last stash  
git stash drop # Delete last stash
```

◆ 9. Tagging

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

◆ **10. Common Shortcuts**

```
git commit -am "msg"      # Add & commit tracked files  
git push                  # Push default branch  
git pull                  # Pull updates
```

 **Pro Tip:**

Use `git log --oneline --decorate --graph --all` to visualize all branches in a beautiful tree

view 