Git Commands Cheat Sheet

Git Basics

```
git init                      # Initialize new repository
git clone <url>               # Clone remote repository
git status                    # Check working status
git add <file> / git add .    # Stage files
git commit -m "message"       # Commit changes
git commit --amend            # Modify last commit
```

Branching

```
git branch new-branch         # Create new branch
git checkout new-branch       # Switch to branch
git checkout -b new-branch    # Create + switch branch
git branch                    # List branches
git branch -d <branch>        # Delete branch
```

Push / Pull / Merge

```
git remote add origin <url>   # Add remote repository
git push origin <branch>      # Push changes
git pull origin <branch>      # Pull updates
git merge <branch>            # Merge another branch
```

Undo / Reset

```
git reset <file>              # Unstage file
git reset --soft HEAD~1       # Undo last commit (keep code)
git reset --hard HEAD~1       # Delete commit + code
git revert <commit>           # Safely undo pushed commit
```

Log / Diff / Show

```
git log --oneline             # Short commit history
git log                       # Full history
git diff <file>               # Show file changes
git show                      # Show last commit
```

Cherry-Pick / Rebase / Stash

```
git cherry-pick <commit>      # Apply specific commit
git rebase <branch>           # Reapply commits on top
git stash                     # Save uncommitted changes
```

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```
git stash pop                # Reapply stashed changes
```

Remote & Config

```
git remote -v                # View remotes
git remote set-url origin <url>  # Change remote URL
git config --global user.name    # Set Git username
git config --global user.email   # Set Git email
```

Tagging

```
git tag v1.0                 # Create a tag
git push origin v1.0         # Push a tag
git tag                      # List tags
```

Most Used Combos

```
git add . && git commit -m "msg" && git push origin main
git reset --soft HEAD~1
```