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# GIT COMMANDS CHEATSHEET

## Configuration

```
git config --global user.name "Your Name"  
git config --global user.email "youremail@example.com"  
git config --list
```

## Repository Setup

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

## Basic Workflow

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

## Branching & Merging

```
git branch        # List branches  
git branch <branch-name> # Create new branch  
git checkout <branch>    # Switch branch  
git merge <branch>      # Merge branch
```

## Remote Repositories

```
git remote add origin <repo-url> # Add remote repository  
git push -u origin main          # Push to remote  
git pull origin main            # Pull changes from remote  
git fetch                      # Fetch changes without merging
```

## Undo & Reset

```
git reset --soft HEAD~1      # Undo last commit, keep changes staged  
git reset --hard HEAD~1     # Undo last commit and discard changes  
git checkout -- <file>      # Discard changes in a file
```

# LINUX COMMANDS CHEATSHEET

## File & Directory Operations

```
pwd                      # Print current directory  
ls                       # List files and folders  
ls -lah                  # List with details and hidden files  
cd <dir>                # Change directory  
cd ~                     # Go to home directory  
mkdir <dir>              # Create a directory  
rm <file>                # Remove a file  
rm -r <dir>              # Remove a directory recursively  
mv <source> <dest>       # Move or rename file/directory  
cp <source> <dest>       # Copy file/directory
```

## File Viewing & Editing

```
cat <file>                # Display file contents  
nano <file>               # Edit file with nano editor  
less <file>               # View file page by page  
tail -f <file>             # View live updates
```

## Permissions

```
chmod +x <file>           # Make file executable  
chown <user>:<group> <file> # Change owner/group
```

## Process & System Management

```
top                      # View running processes  
ps aux                  # Detailed process list
```

```
kill <pid>          # Kill process by PID  
sudo <command>      # Run command as root
```

## Package Management (Ubuntu/Debian)

```
sudo apt update      # Update package list  
sudo apt upgrade     # Upgrade packages  
sudo apt install <package> # Install package  
sudo apt remove <package>   # Remove package
```

## Networking

```
ping <host>          # Ping a host  
curl <url>           # Fetch URL content  
wget <url>           # Download file
```

## Searching

```
grep "text" <file>  # Search text in file  
find . -name "*.js" # Find files by name
```

## Archiving & Compression

```
tar -czvf file.tar.gz <dir>  # Compress folder  
tar -xzvf file.tar.gz        # Extract folder
```

## Misc

```
clear                # Clear terminal  
history             # Show command history  
man <command>       # Show manual/help for command
```

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