# Git & GitHub Quick Reference

## 🔧 Initial Git Setup (One-time)

```bash
# Set your identity
git config --global user.name "Your Name"
git config --global user.email "your.email@example.com"

# Set modern defaults
git config --global init.defaultBranch main
```

## 📁 New Project Setup

```bash
# Navigate to project folder
cd your-project-folder

# Initialize Git
git init

# Create .gitignore file (via text editor)
# Add common exclusions: *.env, .DS_Store, node_modules/, __pycache__/, *.pyc

# First commit
git add .
git commit -m "feat(init): initial project setup"
```

## 🔗 Connect to GitHub

```bash
# Add GitHub remote (create empty repo on GitHub first)
git remote add origin https://github.com/username/repo-name.git

# Push to GitHub for first time
git branch -M main
git push -u origin main
```

## 📤 Daily Push Workflow

```bash
bash

# Stage specific file
git add filename.txt

# Stage all changes
git add .

# Commit with message
git commit -m "type: description of changes"

# Push to GitHub
git push
```

## 📥 Pull from GitHub

```bash
bash

# Get latest changes
git pull
```

## 📋 Common Commit Types

- `feat:` new feature
- `fix:` bug fix
- `docs:` documentation changes
- `refactor:` code improvements
- `test:` adding tests

## 🔍 Useful Commands

```bash
bash
```

```
# Check status
git status

# View commit history
git log --oneline

# See what branches exist
git branch

# Check remote connections
git remote -v
```