



GitHub Cheat Sheet

Your quick reference guide for essential GitHub commands and workflows.



Repositories



Create a New Repo

- Click the + icon in the top-right corner → New repository
- Name it, add description, choose visibility
- Optional: Initialize with README, .gitignore, license



Clone a Repository

```
git clone <repo-url>
```



Remote Management



View Remotes

```
git remote -v
```



Add Remote

```
git remote add origin <repo-url>
```



Change Remote URL

```
git remote set-url origin <new-url>
```



Push & Pull



Push to GitHub

```
git push -u origin main
```

Pull from GitHub

```
git pull origin main
```

Branching

Create Branch

```
git branch <branch-name>
```

Switch Branch

```
git checkout <branch-name>
```

+ Create & Switch

```
git checkout -b <branch-name>
```

✗ Delete Branch

```
git branch -d <branch-name>
```

Merging & Conflicts

Merge Branch

```
git merge <branch-name>
```

✗ Abort Merge

```
git merge --abort
```

Forks & Pull Requests

Forking

- Go to a repo → Click **Fork** (top-right) → Choose your account

Submit Pull Request

1. Fork → Clone → Create a branch → Make changes → Push
2. On GitHub, go to your repo → **Pull Request** → Compare and submit

GitHub CLI (Optional)

Setup

```
gh auth login
```

Create a repo

```
gh repo create <name>
```

Create pull request

```
gh pr create --fill
```

Security & Settings

- Use **.gitignore** to avoid pushing sensitive files.
- Set up **branch protection rules** on GitHub for **main**.
- Enable **2FA** for better account security.

README Tips

- Use markdown for formatting.
- Include project title, description, setup, usage, and license.
- Add badges (CI status, license, stars, etc.).

For More Help:

- [GitHub Docs](#)
- [GitHub CLI](#)
- [GitHub Learning Lab](#)