GitHub CLI

GitHub from the terminal

Branch local commits → `gh pr create` → **Pull request** review and checks → `gh pr merge` → **Merged** base branch → `gh run watch` → **Actions run** CI and deploy

CONCEPTS

Inside a git clone, gh picks the repo from the remotes. Elsewhere add -R <owner>/<repo>.

Most list and view commands take --json <fields> with --jq <expr> for scripting.

AUTH AND SETUP

`gh auth login`
Sign in interactively

`gh auth status`
Show who you are signed in as

REPOSITORIES

`gh repo clone <owner>/<repo>`
Clone a repository

`gh repo create <name> --public --clone`
Create a repo and clone it

`gh repo create <name> --private --source=. --push`
Publish the current folder

`gh repo view --web`
Open the repo in the browser

REPOSITORIES (cont.)

`gh repo fork --clone`
Fork and clone

`gh repo list <owner>`
List an owner's repos

`gh browse`
Open the repo, file or PR in the browser

PULL REQUESTS

`gh pr create --fill`
Open a PR with title from commits

`gh pr create --draft --title "<t>" --body "<b>"`
Open a draft PR

`gh pr list`
List open PRs

`gh pr view <number>`
Show a PR

`gh pr checkout <number>`
Check out a PR branch

`gh pr status`
PRs that involve you

`gh pr checks --watch`
Watch CI checks on this PR

`gh pr review --approve`
Approve a PR

`gh pr review --request-changes -b "<text>"`
Request changes

PULL REQUESTS (cont.)

`gh pr merge --squash --delete-branch`
Squash-merge and clean up

`gh pr merge --auto --squash`
Merge when checks pass

`gh pr ready`
Mark a draft as ready

ISSUES

`gh issue list`
List open issues

`gh issue create --title "<t>" --body "<b>"`
File an issue

`gh issue view <number>`
Show an issue

`gh issue close <number>`
Close an issue

`gh issue list --assignee @me`
Issues assigned to you

ACTIONS

`gh run list`
Recent workflow runs

`gh run view <run-id>`
Summary of a run

ACTIONS (cont.)

`gh run watch`
Follow a run live

`gh run view <run-id> --log-failed`
Logs of failed steps only

`gh run rerun <run-id> --failed`
Rerun only failed jobs

`gh workflow run <workflow> -f <key>=<value>`
Trigger a workflow_dispatch

RELEASES AND GISTS

`gh release create <tag> --generate-notes`
Publish a release

SEARCH AND STATUS

`gh status`
Your PRs, issues and notifications

API AND SCRIPTING

`gh api repos/{owner}/{repo}/issues`
GET a REST endpoint

API AND SCRIPTING (cont.)

`gh api <endpoint> --jq '<expr>'`
Filter the response with jq

`gh api <endpoint> --paginate`
Fetch every page

`gh api <endpoint> -f <key>=<value>`
Send a string field (POST)

`gh pr list --json number,title --jq '.[].title'`
JSON fields, then jq

RECIPES

Feature branch to merged PR

```
git switch -c feature/x
# commit your work
git push -u origin feature/x
gh pr create --fill
gh pr checks --watch
gh pr merge --squash --delete-branch
```

Debug a failed CI run

```
gh run list --branch <branch> --limit 5
gh run view <run-id> --log-failed
gh run rerun <run-id> --failed
```