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
```