### **C-Py WORKFLOW Notes for Git**

- If you're new to Git and GitHub, get comfortable with the basics before contributing.
- Experienced contributors might prefer different approaches.
- Useful: Set up Git aliases for common tasks.

#### **FORK & CLONE**

- 1. Fork: Go to https://github.com/python/cpython and press 'Fork'.
- 2. **Clone**: git clone git@github.com:<username>/cpython.git
- 3. Configure Upstream:

```
cd cpython
git remote add upstream https://github.com/python/cpython
```

#### **CONFIGURE REMOTES**

- Pull from upstream:
  - git config --local branch.main.remote upstream
- Push to origin:
  - git remote set-url --push upstream git@github.com:<username>/cpython.git

#### **VERIFY REMOTES**

- List remotes:
  - git remote -v
- Check upstream for main:
  - git config branch.main.remote

## **GIT BASICS**

- Name & Email:
  - git config --global user.name "Your Name" and git config --global user.email your.email@example.com
- Windows Line Endings:
  - git config --global core.autocrlf input
- Switch/Create Branch:
  - git switch -c <branch-name> main
- Delete Local Branch:
  - git switch main; git branch -D <branch-name>
- Delete Remote Branch:
  - git push origin -d <branch-name>

## **Working with Changes**

- Status:
  - git status
- Stage:
  - git add -p Or git add <filename1> <filename2>
- Commit:
  - git commit -m "Message"
- Revert:
  - git checkout <filename> Or git reset --hard HEAD
- Stash:
  - git stash and git stash pop
- Diff:
  - git diff Or git diff main

- Create a Pull Request on https://github.com/python/cpython.
- Link to issues and PRs using gh-NNNNN.
- Mention issue number in the PR title: gh-NNNNN: <PR Title>.

### **Update Your Fork**

Update Main:

```
git switch main
git pull upstream main
git push origin main
```

• Update Branch:

```
git switch some-branch
git fetch upstream
git merge upstream/main
git push origin some-branch
```

# Miscellaneous

- Apply Patch: git apply /path/to/patch.diff
- Check Out PR Locally: gh pr checkout <pr\_number> or hub pr checkout <pr\_number>
- Merging a PR: Core Developers can merge PRs after passing all required checks.