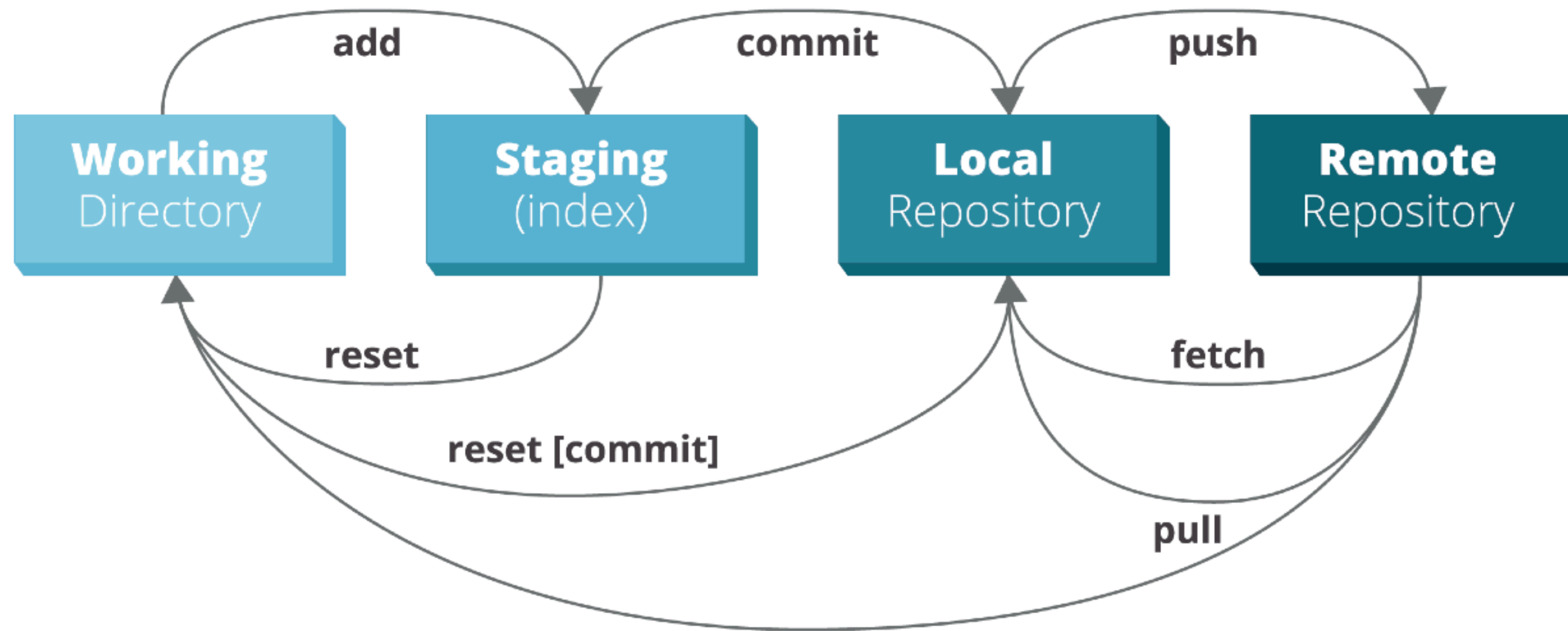# Git & GitHub birdview

- **git**: an open source, distributed version-control system
- **GitHub**: a platform for hosting and collaborating on Git repositories
- **commit**: a Git object, a snapshot of your entire repository compressed into a SHA
- **branch**: a lightweight movable pointer to a commit
- **clone**: a local version of a repository, including all commits and branches
- **remote**: a common repository on GitHub that all team members use to exchange their changes
- **fork**: a copy of a repository on GitHub owned by a different user
- **pull request**: a place to compare and discuss the differences introduced on a branch with reviews, comments, integrated tests, and more
- **HEAD**: representing your current working directory, the HEAD pointer can be moved to different branches, tags, or commits when using git switch

The usual jokes

V1

In case of fire

○─ 1. git commit

2. git push

3. leave building

V2

IN CASE OF EMERGENCY

GIT COMMIT
GIT PUSH
GIT OUT

V3 more realistic

In case of fire

○─ 1. git commit

2. git push

❌ 3. JIRA issue number required
! [remote rejected]
error: failed to push refs...

4. try to fix

5. burn alive