Git Quick Guide — Push & Pull (1-pager)

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Prereqs (one-time per machine)
• Install Git: https://git-scm.com (check: `git --version`)
• Identify yourself:
  git config --global user.name "Your Name"
  git config --global user.email "you@example.com"
• (Optional) Default branch name:
  git config --global init.defaultBranch main
Get the repo (first time only)
  git clone <repo-url>
  cd <repo-folder>
Pull latest changes (stay current)
# Update main
  git fetch origin
  git switch main
  git pull --rebase origin main
# Update your feature branch with latest main
  git fetch origin
  git switch <your-branch>
  git rebase origin/main
                            # or: git merge origin/main
Make changes
  # edit files...
  git status
                             # see what changed
Commit & push your work
                              # or: git add <file1> <file2>
  git add -A
  qit commit -m "Clear, short message"
  # First push of a new branch:
  git push -u origin <your-branch>
  # Afterwards (or on main):
  git push origin HEAD
Create a branch (recommended for new work)
  git switch -c feature/short-topic
                                     # new branch from current branch
  # Push it and open a PR on GitHub
Check remotes
  git remote -v
                             # verify origin URL (HTTPS or SSH)
Resolve common issues
• Rejected (non-fast-forward) on push:
    git pull --rebase origin <current-branch>
    # resolve conflicts, then:
    git push origin HEAD
• Merge/rebase conflicts:
    # open files, fix conflict markers <<<<< ====== >>>>>>
    git add <fixed-files>
    git rebase --continue
                              # or: git merge --continue
    # If you need to start over:
    git rebase --abort
• Detached HEAD (accidentally checked out a commit):
    git switch <your-branch>
• Stashed changes (if you used stash):
    git stash list
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^{...(}truncated to keep this a 1-pager)...