

# Merge, Rebase, Reset, Clean

## merge vs rebase

<https://www.atlassian.com/git/tutorials/merging-vs-rebasing>

## Make the current Git branch a master branch

```
git checkout better_branch
git merge --strategy=ours master    # keep the content of this branch, but record a merge
git checkout master
git merge better_branch             # fast-forward master up to the merge
```

## rename branch (local and remote)

- `git branch -m master main` - rename master to main
- `git push -u origin main` - push branch with new name
- set remote default branch in remote repo.
- protect new branch, unprotect old branch (in remote repo)
- `git push origin --delete master` - delete branch in remote repo

## reset last commit(s)

- undo the last commit (changes will be in place)
- `git reset --soft HEAD~`
- `git reset --soft HEAD~2` undo the last two commits

## merge (force remote)

- drop local changes (incl commits)

```
git fetch --all
git reset --hard origin/master
```

# mergetool

- installed merge tool like meld necessary
  - `sudo apt install meld`
  - configure it: <https://stackoverflow.com/questions/34119866/setting-up-and-using-meld-as-your-git-difftool-and-mergetool>

```
[diff]
    tool = meld
[difftool]
    prompt = false
[difftool "meld"]
    cmd = meld "$LOCAL" "$REMOTE"

[merge]
    tool = meld
[mergetool "meld"]
    # Choose one of these 2 lines (not both!) explained below.
    cmd = meld "$LOCAL" "$MERGED" "$REMOTE" --output "$MERGED"
#    cmd = meld "$LOCAL" "$BASE" "$REMOTE" --output "$MERGED"
```

- merge

```
git checkout master
git merge branch_name
```

- start mergetool: `git mergetool`
- diff
  - `git difftool BRANCH_NAME -- FILE`

# clean up

```
git clean -d -x ( -n | -i | -f )
```

will remove untracked files

- including directories (`-d`)
- files ignored by git (`-x`)
- `-n`, `-i` or `-f` must be specified

- perform a dry-run (-n)
  - interactive mode (-i)
  - delete all without asking (-f)
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Created 2022-10-27 16:42:33 UTC by Daniel Raab  
Updated 2025-04-24 14:51:31 UTC by Daniel Raab