PR Like a Pro with Advanced Techniques in Git

Jordan Leven



git rebase main

git rebase --continue

git rebase --abort

git push --force-with-lease

Nondestructive

git pull --rebase



Rebase on main

Continue rebase

Abort rebase

Push after rebase

Pull after rebase

Command Summary

- git rebase
- git rebase --continue
- git rebase --abort
- git push --force-with-lease
- git pull -- rebase



Rebase on main

Continue rebase

Abort rebase

Push after rebase

Pull after rebase

Command Summary

- grb
- grbc
- grba
- gpf
- gpr

git rebase -i main

The branch to compare commits against.

git rebase -i main

git rebase -i HEAD~10

Number of commits in current branch to show (descending order)

Commands in Interactive Rebasing

pick (p)

Use existing commit

drop (d) Remove commit from history

edit (e)

Rewind HEAD to commit and make changes

squash (s)

fixup (f)

Combine this commit with previous commit, but preserve commit message of this commit

Combine this commit with previous commit and do not preserve commit message of this commit

reword (r)

Reword commit message (no code changes)



Reordering Commits

When to use

- Related commits are not grouped together
- Commits cannot be individually checked out



Drop (d)



Use existing commit

7d39341 feat: Use my great feature al6aa66 feat: Add my great feature

Squash (s)

Fixup (f)



Reordering Commits

How to use

- Re-order your commits in the preferred ascending order
- You may encounter merge conflicts
- Can be combined with all other commands



Drop (d)



Use existing commit

Squash (s)

Fixup (f)

Dropping Commits

When to use

- Made an accidental commit
- Delete a temporary commit



Drop (d)



Remove commit from history

7d39341 drop: Attempt rebuild

Squash (s)

Fixup (f)



Dropping Commits

How to use

- Replace pick with drop or d
- Remove the line entirely
- Gone, but not forgotten



Drop (d)



Remove commit from history

Squash (s)

Fixup (f)

When to use

- A single commit encompasses too many ideas
- You made a mistake in a previous commit



Drop (d)



Rewind HEAD to commit and make changes

Editing Commits

a77779f feat: Add my great feature 7d39341 feat: Add missing part of feature

Squash (s)

Fixup (f)



How to use

- Replace pick with edit or e
- Stage your changes (ga p), and continue the rebase
- You may encounter merge conflicts



Drop (d)

Rewind HEAD to commit and make changes



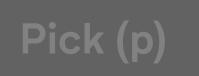
Squash (s)

Fixup (f)

Squashing and Fixing Up Commits

When to use

- Two commits express a singular idea
- You forgot to stage a change to your previous commit
- You're preparing to merge a PR



Drop (d)

Edit (e)

a77779f feat: Add my great feature

Squash (s)

Fixup (f)

Reword (r)

Combine commit with previous and preserve commit message

Combine commit with previous and disregard commit message



Squashing and Fixing Up Commits

How to use

- Replace pick with squash or s
- Replace pick with fixup or f
- You're not modifying history you're compacting it



Drop (d)

Edit (e)

Squash (s)

Fixup (f)

Reword (r)

Combine commit with previous and preserve commit message

Combine commit with previous and disregard commit message

Rewording Commits

When to use

- You mkae a typo
- You forgot important details



Drop (d)



Use existing commit

Remove commit from history

Rewind HEAD to commit and make changes

a77779f feat: Do something

Squash (s)

Fixup (f)

Reword (r)

Combine commit with previous and preserve commit message

Combine commit with previous and disregard commit message

Reword commit message (no code changes)





Rewording Commits

How to use

- Replace pick with reword or r
- No code changes, but the SHAs will change



Drop (d)



Squash (s)

Fixup (f)

Reword (r)

Reword commit message (no code changes)



github.com/jordanleven/advanced-techniques-in-git



Words of Advice

When using interactive rebasing, it's easier to combine two commits than to split one.

git config --global core.editor "code --wait" git config --global core.editor "goland --wait" git config --global core.editor "idea --wait"



git

git reflog

Git reference log

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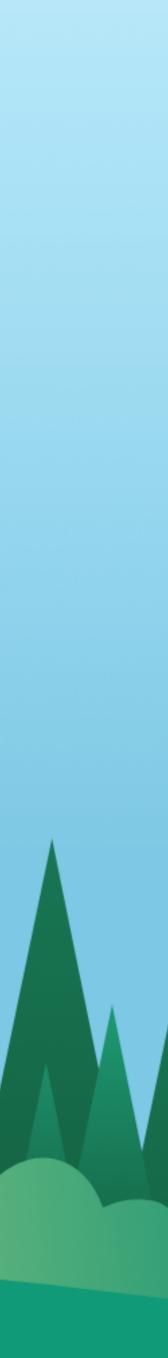


THAT *

JULY 29TH - AUG. 1ST



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