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git rebase (recap)

Rebase is a way to reintregrate changes from a branch (e.g. *master*) branch into a different branch (e.g. *feature*).

feature



master



git rebase (recap)

Rebase is a way to reintregrate changes from a branch (e.g. *master*) into a different branch (e.g. *feature*).



git checkout feature git rebase master It "moves" *feature* branch to start on tip of *master* branch

Rebase **re-writes** the history by creating brand new commits.



= brand new commit

Rebasing interactively means that you have a chance to edit the commits which are rebased.

-i, --interactive

Make a list of the commits which are about to be rebased.

Let the user edit that list before rebasing.

This mode can also be used to split commits.





Steps

- Coding
- → Try… Fail
- → → Fix
- → Try again… OK Coding
- → Try… OK
- Coding
- → Try… Fail
- \rightarrow \rightarrow Fix
- → Try… Fail
- \rightarrow \rightarrow Fix
- Coding

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Steps	Commits
Coding	$igodoldsymbol{O}$ First HTTP client impl (GET)
→ Try… Fail → → Fix	Fix: increase conn timeout
→ Try again… OK Coding	Add POST method
→ Try… OK ∠/ Coding	Add SSL support
→ Try… Fail → → Fix	Fix: need newer libopenssl
→ Try… Fail	Fix increase conn timeout
→ → Fix Coding	Configure conn timeout



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Usage: git rebase -i <after-this-commit>



Rebase ce76861..6887e58 onto ce76861 (10 commands)

Note: git rebase -i displays commits reversed compared to git log



Interactive rebase allows to:

- Reorder commits
- Drop commits
- Join commits
- Edit commits
 - Insert new commits
 - Modify an existent commit (its content and/or its commit message)
 - Split a commit into multiple ones



Interactive rebase commands:

- pick (p): keep the commit
- drop (d): remove the commit
- edit (e): stop rebase, allow to change/amend commit
- **fixup (f)**: meld commit into previous one
- squash (s): similar to "fixup", but keep the commit message
- **reword (r)**: edit the commit message



Don't worry!

There's not need to remember all the commands.

git helps you :)

pick T0T04C9 make Postrwupgrade playbooks using reusable tasks pick 1502dc4 WI-16980: HF1 add hotel billing tables to cdrdb repset pick e12fdda add playbooks to be executed post fw 4.9.9 upgrade pick d50b001 init KCN w/ fw 4.9.9: post upgr + HF1 pick 6887e58 ignore retry files

Rebase ce76861..6887e58 onto ce76861 (10 commands)

Commands: # p, pick = use commit # r, reword = use commit, but edit the commit message # e, edit = use commit, but stop for amending # s, squash = use commit, but meld into previous commit # f, fixup = like "squash", but discard this commit's log message # x, exec = run command (the rest of the line) using shell # d, drop = remove commit # # These lines can be re-ordered; they are executed from top to bottom. # # If you remove a line here THAT COMMIT WILL BE LOST.

However, if you remove everything, the rebase will be aborted.







Remember: rebase cannot be reverted.

Don't forget to create a branch before doing it!

git branch pre-rebase
git rebase -i HEAD~5 # last 5 commits





That's all folks!

Questions?