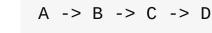
How do I squash two nonconsecutive commits?

Asked 14 years, 2 months ago Modified 4 years, 7 months ago Viewed 66k times



I'm a bit new to the whole rebasing feature within git. Let's say that I made the following commits:

308









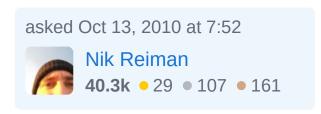
Afterwards, I realize that D contains a fix which depends on some new code added in A, and that these commits belong together. How do I squash A & D together and leave B & C alone?

git git-rebase

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5 Answers

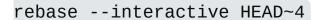
Sorted by:

Highest score (default)





You can run git rebase --interactive and reorder D before B and squash D into A.











```
pick aaaaaaa Commit A
pick bbbbbbb Commit B
pick cccccc Commit C
pick ddddddd Commit D
# Rebase aaaaaaa..ddddddd onto 1234567 (4
command(s))
#
# 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
#
# 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.
#
# Note that empty commits are commented out
```

Now you change the file that it looks like this:

```
pick aaaaaaa Commit A
squash ddddddd Commit D
pick bbbbbbb Commit B
pick cccccc Commit C
```

And git will now meld the changes of A and D together into one commit, and put B and C afterwards. When you don't want to keep the commit message of D, instead of squash, you would use the fixup keyword. For more on fixup, you can consult the <u>git rebase docs</u>, or check out <u>this question</u> which has some good answers.

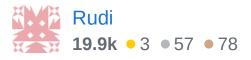
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edited Apr 28, 2020 at 6:05

rogerdpack

66.5k • 39 • 282 • 401

answered Oct 13, 2010 at 7:55



- Initially, I read it as "rebase D onto A, squash D into A, then rebase B onto DA". It's not clear from the answer that this can be done by reordering lines in a text editor.
 - Victor Sergienko May 31, 2017 at 17:56
- If your branch is local, you will get There is no tracking information for the current branch error when rebasing. In this case you need to specify the number of commits you want to work with, like this: git rebase -i HEAD~4. See this answer. johndodo May 16, 2018 at 10:55
- I use interactive mode(git rebase -i) for years, I just realized it can be reordered. Thanks → CalvinChe Jul 2, 2019 at 9:06
- This is to be told in bold to all who are new to git. Nobody ever told me reordering in rebase works wonders. hardeep Mar 24, 2021 at 0:19

@thirdeye Of course, just put them one after each other into the list, and set all but the first of them to squash – Rudi Jul 19 at 9:43



55

Note: You should **not change commits that have been pushed** to another repo in any way *unless you know the consequences*.



```
git log --oneline -4
```



```
D commit_message_for_D
C commit_message_for_C
B commit_message_for_B
A commit_message_for_A
```

1

```
git rebase --interactive
```

```
pick D commit_message_for_D
pick C commit_message_for_C
pick B commit_message_for_B
pick A commit_message_for_A
```

Type i (Put VIM in insert mode)

Change the list to look like this (You don't have to remove or include the commit message). *Do not misspell* squash!:

```
pick C commit_message_for_C
pick B commit_message_for_B
pick A commit_message_for_A
squash D
```

Type Esc then zz (Save and exit VIM)

```
# This is a combination of 2 commits.
# The first commit's message is:

commit_message_for_D

# This is the 2nd commit message:

commit_message_for_A
```

Type i

Change the text to what you want the new commit message to look like. I recommend this be a description of the changes in commit A and D:

You have now created a new commit E. Commits A and D are no longer in your history but are not gone. You can still recover them at this point and for a while by git rebase --hard D (git rebase --hard will destroy any local changes!).

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edited May 23, 2017 at 12:18



answered Jun 21, 2013 at 15:43



Nate 13.2k • 4 • 63 • 81



For those using <a>SourceTree:

5

Make sure you haven't already pushed the commits.



1. Repository > Interactive Rebase...



2. Drag D (the newer commit) to be directly above A (the older commit)



- 3. Make sure commit D is highlighted
- 4. Click Squash with previous

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edited May 6, 2016 at 2:41

answered Apr 15, 2016 at 13:34



Adam Johns **36.3k** • 26 • 128 • 181



1





Interactive rebase works well until you have big feature branch with 20-30 commits and/or couple of merges from master or/and fixing conflicts while you was commiting in your branch. Even with finding my commits through history and replacing <code>pick</code> with <code>squash</code> doesn't worked here. So i was looking for another way and found this <code>article</code>. I did my changes to work this on separate branch:



```
git checkout master
git fetch
git pull
git merge branch-name
git reset origin/master
```

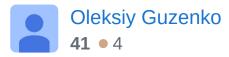
```
git branch -D branch-name
git checkout -b branch-name
git add --all
#Do some commit
git push -f --set-upstream origin branch-name
```

Before this I got my pull request with about ~30 commits with 2-3 merges from master + fixing conflicts. And after this I got clear PR with one commit.

P.S. here is bash <u>script</u> to do this steps in automode.

Share Improve this answer edited Apr 12, 2019 at 9:40 Follow

answered Oct 10, 2018 at 6:47



The first solution in that article is really nice, thanks for the link – Hoody Apr 2, 2019 at 10:20



\$ git checkout master

-1

\$ git log --oneline



D C

В

Α

1

\$ git rebase --onto HEAD^^^ HEAD^

\$ git log --oneline

D

Α

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edited Oct 13, 2010 at 15:14

answered Oct 13, 2010 at 11:17



I think you mean --oneline? And it looks like you've dropped C and B, which isn't what the OP was intending. - bstpierre Oct 13, 2010 at 12:18

Didn't work for me. It moved both my HEAD and master down to A, but did not merge D into A (git show A) and D, C and B were lost in my ref-log. Had to git rebase D to get back. — Nate Jun 21, 2013 at 15:20