Git error, need to remove large file

Asked 6 years, 10 months ago   Modified 1 year, 1 month ago   Viewed 54k times

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I am getting this error when I try to push to git and I have no idea how to fix it.

```
Counting objects: 1239, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (1062/1062), done.
Writing objects: 100% (1239/1239), 26.49 MiB | 679.00 KiB/s, done.
Total 1239 (delta 128), reused 0 (delta 0)
remote: warning: File log/development.log is 98.59 MB; this is larger than GitHub's
recommended maximum file size of 50.00 MB
remote: error: GH001: Large files detected. You may want to try Git Large File Storage -
https://git-lfs.github.com.
remote: error: Trace: efd2d13efa4a231e3216dad097ec25d6
remote: error: See http://git.io/iEPt8g for more information.
remote: error: File log/development.log is 108.86 MB; this exceeds GitHub's file size limit of
100.00 MB
remote: error: File log/development.log is 108.74 MB; this exceeds GitHub's file size limit of
100.00 MB
remote: error: File log/development.log is 108.56 MB; this exceeds GitHub's file size limit of
100.00 MB
remote: error: File log/development.log is 106.58 MB; this exceeds GitHub's file size limit of
100.00 MB
remote: error: File log/development.log is 103.70 MB; this exceeds GitHub's file size limit of
100.00 MB
To git@github.com:myUsername/myRepo.git
! [remote rejected] master -> master (pre-receive hook declined)
error: failed to push some refs to 'git@github.com:myUsername/myRepo.git'
```

I'm guessing I need to remove the large file from the commit, but how do I do that?

git   github

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asked Oct 27, 2015 at 4:36

Daniel
1,144 ●3 ●10 ●17

Is this a rails project? Don't add your `log/` directory to git. That shouldn't be versioned. – Andy Ray Oct
27, 2015 at 4:39

I realize that now. Did not know that before. – Daniel Oct 27, 2015 at 5:22

10 Answers

Sorted by:
Trending sort available ⓘ

Highest score (default) ⬍

To remove large files, GitHub suggests:

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```
$ git rm --cached giant_file
# Stage our giant file for removal, but leave it on disk

git commit --amend -CHEAD
# Amend the previous commit with your change
# Simply making a new commit won't work, as you need
# to remove the file from the unpushed history as well

git push
# Push our rewritten, smaller commit
```

Or if you want more general information on how to work with large files on GitHub.

And next time add `/log` in your `.gitignore`

Share   Edit   Follow   edited Oct 27, 2015 at 10:26   answered Oct 27, 2015 at 8:33

                                                                              Daniel Andrei Mincă
                                                                              3,926 ● 2 ● 18 ● 30

2   This doesn't work when you already made another commit deleting the file in an initial attempt to get past
    Git's annoyances.. – aviator Aug 3 at 2:31

I faced the same issue recently, you can actually just filter the branch for specific file and remove it

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```
git filter-branch --tree-filter 'rm -rf path/to/your/file' HEAD
```

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answered Jun 29, 2018 at 11:09

Ritesh Chandnani
365 ● 3 ● 13

1   You need to run this command from the toplevel of the working tree. – user11146622 Jan 2, 2020 at 1:59

To improve upon one of the reply above, you need

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```
git filter-branch -f --tree-filter 'rm -f /path/to/file' HEAD --all
```

in order to remove your file even from the history. You need `-f` to force rewriting any backup and `--all` to remove file from all branches. More information here: Git docs

Your large file error won't go away by removing it from the git cache because it is still lurking in the commit history.

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answered Apr 4, 2019 at 12:32

user30850
181 ● 1 ● 3

2   Thanks, this worked for me! As a side note, I had to ensure to have forward slashes and relativ path for "/path/to/file" – Pierre Chavaroche Sep 11, 2019 at 8:52

how can I remove it from the commit history? – jhabar singh Bhati May 21, 2021 at 3:26

@jhabarsinghBhati That is exactly what the command does. – user30850 May 21, 2021 at 10:33

I had already deleted the file thinking that would help. Running this command on the the branch worked for me.

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```
git filter-branch -f --index-filter 'git rm --cached --ignore-unmatch path/to/file'
```

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answered Aug 5, 2021 at 13:59

CZTopp
91 ● 1 ● 2

```
git reset --soft HEAD~1
```

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then exclude the file from the commit.

Note: Use HEAD~N to go back to N number of previous commits.

use this , go back a commit ,remove the large file from the commit if you can see it , then re commit and push.

this should solve the problem

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answered Aug 12, 2019 at 10:25

Sithija Piyuman Thewa
Hettige
1,506 ● 17 ● 20

Perfect solution. git reset --soft HEAD~n is the best command to go back – Tekson Feb 24 at 1:55

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Adding to the previous answers:

We are going to remove the large file from the commit as you said

1. Do the push from the terminal just to get the large file path `git push --set-upstream origin Remote_branch_name` , locate the large file path in the errors, something like `RepositoryName/folders.../bigFileName` .

2. Remove the file from all the branches, `git filter-branch -f --index-filter 'git rm --cached --ignore-unmatch path_and_big_file'` past the path that we found in section one instead of `path_and_big_file` .

3. Execute `git pull origin branch_name --allow-unrelated-histories` to not get `unrelated histories` error

4. Now try to push to git, it should work

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edited Apr 10, 2020 at 12:41

answered Apr 10, 2020 at 11:06

Guy Luz
2,784 ● 15 ● 38

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Adding to the previous answers:

```
git filter-branch -f --index-filter 'git rm --cached --ignore-unmatch
path_to_the_file/your_big_file'
```

Additionally, when I tried to pull I got "Refusing to merge unrelated histories".

Solution was to use:

```
git pull origin branch_name --allow-unrelated-histories
```

Then solve your possible conflicts, and push this time without the `big_file`.

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@Daniel

You can ignore that log(s) file from git repo using `.gitignore` file. for that you have to add below line to your `.gitignore` file

```
/log
```

and try to commit again.
Hope this details help you to fix your issue.

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I had already tried this and commited again but it did not work. – Daniel Oct 27, 2015 at 5:00

you need to revert git add, check my answer @Daniel – m.aibin Oct 27, 2015 at 5:22

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This command worked for me

```
git filter-branch -f --index-filter 'file path'
```

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You can revert git add before commit.

Check this question: How to undo 'git add' before commit? It should work. And don't send big files to git, it's not worthy ;)

Also, exclude your logs, by adding git ignore on your logs path.

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If you're getting this error it means you're trying to push which means you've already committed.
– gargoylebident May 26, 2021 at 22:46