Resolving a merge conflict using the command

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Merge conflicts occur when competing changes are made to the same line of a file, or when one person edits a file and another person deletes the same file. For more information, see "About merge

between branches that are part of a pull request. For more information, see "Resolving a merge

For example, if you and another person both edited the file styleguide.md on the same lines in different branches of the same Git repository, you'll get a merge conflict error when you try to merge these branches. You must resolve this merge conflict with a new commit before you can merge these

Generate a list of the files affected by the merge conflict. In this example, the file styleguide.md

```
> no changes added to commit (use "git add" and/or "git commit -a")
```

- 4 Open your favorite text editor, such as Visual Studio Code, and navigate to the file that has merge conflicts.
- To see the beginning of the merge conflict in your file, search the file for the conflict marker <>><<< \ . When you open the file in your text editor, you'll see the changes from the HEAD or base branch after the line <<<<<< HEAD . Next, you'll see ====== , which divides your changes from the changes in the other branch, followed by >>>>>> BRANCH-NAME. In this example, one person wrote "open an issue" in the base or HEAD branch and another person wrote "ask your question in IRC" in the compare branch or branch-a.

```
If you have questions, please
<<<<< HEAD
open an issue
ask your question in IRC.
>>>>>> branch-a
```

6 Decide if you want to keep only your branch's changes, keep only the other branch's changes, or make a brand new change, which may incorporate changes from both branches. Delete the conflict markers <<<<<< , ====== , >>>>>> and make the changes you want in the final merge. In this example, both changes are incorporated into the final merge:

If you have questions, please open an issue or ask in our IRC channel if it's more urgent.

Add or stage your changes.

git add .

8 Commit your changes with a comment.

git commit -m "Resolved merge conflict by incorporating both suggestions."

You can now merge the branches on the command line or push your changes to your remote repository on GitHub and merge your changes in a pull request.

Removed file merge conflicts &

To resolve a merge conflict caused by competing changes to a file, where a person deletes a file in one branch and another person edits the same file, you must choose whether to delete or keep the removed file in a new commit.

For example, if you edited a file, such as *README.md*, and another person removed the same file in another branch in the same Git repository, you'll get a merge conflict error when you try to merge these branches. You must resolve this merge conflict with a new commit before you can merge these branches.

1 Open Git Bash.

> # Unmerged paths:

Navigate into the local Git repository that has the merge conflict. cd REPOSITORY-NAME

```
has a merge conflict.
  $ git status
  > # On branch main
  > # Your branch and 'origin/main' have diverged,
  > # and have 1 and 2 different commits each, respectively.
  > # (use "git pull" to merge the remote branch into yours)
 > # You have unmerged paths.
      (fix conflicts and run "git commit")
```

Generate a list of the files affected by the merge conflict. In this example, the file README.md

> # deleted by us: README.md > # > # > # no changes added to commit (use "git add" and/or "git commit -a")

(use "git add/rm <file>..." as appropriate to mark resolution)

merge conflicts. 5 Decide if you want to keep the removed file. You may want to view the latest changes made to

4 Open your favorite text editor, such as Visual Studio Code, and navigate to the file that has

the removed file in your text editor. To add the removed file back to your repository:

git add README.md

```
$ git rm README.md
> README.md: needs merge
> rm 'README.md'
```

6 Commit your changes with a comment.

To remove this file from your repository:

```
$ git commit -m "Resolved merge conflict by keeping README.md file."
> [branch-d 6f89e49] Merge branch 'branch-c' into branch-d
```

You can now merge the branches on the command line or push your changes to your remote repository on GitHub and merge your changes in a pull request.

Further reading 2

- "About merge conflicts"
- "Checking out pull requests locally"

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