

How to list branches that contain a given commit?



993



How can I query git to find out which branches contain a given commit? gitk will usually list the branches, unless there are too many, in which case it just says "many (38)" or something like that. I need to know the full list, or at least whether certain branches contain the commit.

git

version-control



244

edited Dec 20 '12 at 14:49



ThiefMaster

247k 63 490 570

asked Sep 14 '09 at 4:03



Andrew Arnott

59.1k 23 117 157

4 See also: [How to list all tags that contain a commit?](#). – Andrew Marshall Jan 18 '13 at 17:51

Related question for an equivalent commit per comments: [stackoverflow.com/questions/16304574/...](#) – UpAndAdam Feb 25 '15 at 16:38

2 Answers



1346

From the [git-branch manual page](#):

```
git branch --contains <commit>
```



Only list branches which contain the specified commit (HEAD if not specified). Implies `--list`.

```
git branch -r --contains <commit>
```

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See also this [git ready](#) article.

The `--contains` tag will figure out if a certain commit has been brought in yet into your branch. Perhaps you've got a commit SHA from a patch you thought you had applied, or you just want to check if commit for your favorite open source project that reduces memory usage by 75% is in yet.

```
$ git log -1 tests
commit d590f2ac0635ec0053c4a7377bd929943d475297
Author: Nick Quaranto <nick@quaran.to>
Date:   Wed Apr 1 20:38:59 2009 -0400
```

Green all around, finally.

```
$ git branch --contains d590f2
tests
* master
```

Note: if the commit is on a [remote tracking branch](#), add the `-a` option.
(as [MichielB](#) comments [below](#))

```
git branch -a --contains <commit>
```

[MatrixFrog](#) comments that it only shows which branches contain that *exact* commit.

If you want to know which branches contain an "equivalent" commit (i.e. which branches have cherry-picked that commit) that's [git cherry](#) :

Because `git cherry` **compares the changeset rather than the commit id (sha1)**, you can use `git cherry` to find out if a commit you made locally has been applied `<upstream>` under a different commit id.

For example, this will happen if you're feeding patches `<upstream>` via email rather than pushing or pulling commits directly.

```
,_*_*_*_*_> <upstream>
```

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edited Jul 7 '17 at 22:24

answered Sep 14 '09 at 4:08

Gerold Broser
8,383 4 22 63VonC
878k 318 2841
3407

3 tests and master - master is the current branch, therefore the asterisk. – blueyed Mar 25 '11 at 13:31

49 This only shows which branches contain *that exact commit*. If you want to know which branches contain an "equivalent" commit (i.e. which branches have cherry-picked that commit) that's `git cherry`: "Because git cherry compares the changeset rather than the commit id (sha1), you can use git cherry to find out if a commit you made locally has been applied <upstream> under a different commit id. For example, this will happen if you're feeding patches <upstream> via email rather than pushing or pulling commits directly." kernel.org/pub/software/scm/git/docs/git-cherry.html – MatrixFrog Apr 14 '11 at 1:04

57 Add a `-a` parameter to also check remote branches. – Raman Jan 25 '12 at 23:45

25 You can also do `git tag --contains <commit>`. See [Searching for all tags that contain a commit?](#). – Andrew Marshall Jan 18 '13 at 17:42

4 For the `git cherry` part @UpAndAdam asked the question here: stackoverflow.com/questions/16304574/..., alas, the question has not (yet) been answered. – adeelx Aug 6 '14 at 19:24

▲ You may run:

17 `git log <SHA1>..HEAD --ancestry-path --merges`

▼ From comment of last commit in the output you may find *original branch* name

Example:

```

      c---e---g--- feature
     /         \
-a---b---d---f---h---j--- master

git log e..master --ancestry-path --merges

commit h
```

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edited Oct 29 '16 at 13:58

answered Oct 29 '16 at 13:53



Eugen Konkov

7,166 3 43 68

-
- 6 Nice! I used `git log <SHA1>..master --ancestry-path --merges --oneline | tail -n1` to get this in one line – [James EJ](#) Aug 11 '17 at 19:59
-
- 1 If you would like to use pure git command, you could use: `git log <SHA1>..master --ancestry-path --merges --oneline -1` – [Bartosz](#) Mar 23 '18 at 12:03
-

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