## How do I manually update a remote tracking branch, say, to undo a fetch?



devblogs.microsoft.com/oldnewthing/20231002-00

October 2, 2023



Raymond Chen

One of my colleagues who writes git tools wanted to know how to force a local repo's remote tracking branch into a stale state. Doing so would allow testing of various edge cases.

```
$ git fetch origin
remote: Enumerating objects: 15, done.
remote: Counting objects: 100% (15/15), done.
remote: Total 15 (delta 0), reused 6 (delta 0), pack-reused 0
From http://contoso.com/sample
  844de02..01781ca main
                               -> origin/main
```

How can we "unfetch" the origin/main branch so the local repo thinks that the remote is still on 844de02?

The magic command is git update-ref. This command lets you set the commit for any branch or tag.

```
$ git update-ref refs/remotes/origin/main 844de02
```

You can also use it to undo the creation of a branch via a fetch.

```
$ git fetch origin
remote: Enumerating objects: 22, done.
remote: Counting objects: 100% (22/22), done.
remote: Total 22 (delta 0), reused 9 (delta 0), pack-reused 0
From http://contoso.com/sample
 * [new branch]
                     dev
                                -> origin/dev
```

You can delete the remote tracking branch by saying

```
$ git update-ref -d refs/remotes/origin/dev
```