NAME

git-cherry - Find commits yet to be applied to upstream

SYNOPSIS

```
git cherry [-v] [<upstream> [<head> [<liimit>]]]
```

DESCRIPTION

Determine whether there are commits in **head>...<upstream>** that are equivalent to those in the range **limit>...<head>**.

The equivalence test is based on the diff, after removing whitespace and line numbers. git—cherry therefore detects when commits have been "copied" by means of **git-cherry-pick**(1), **git-am**(1) or **git-rebase**(1).

Outputs the SHA1 of every commit in **imit>...<head>**, prefixed with – for commits that have an equivalent in **<up>upstream>**, and **+** for commits that do not.

OPTIONS

-v

Show the commit subjects next to the SHA1s.

<upstream>

Upstream branch to search for equivalent commits. Defaults to the upstream branch of HEAD.

<head>

Working branch; defaults to HEAD.

limit>

Do not report commits up to (and including) limit.

EXAMPLES

Patch workflows

git—cherry is frequently used in patch—based workflows (see **gitworkflows**(7)) to determine if a series of patches has been applied by the upstream maintainer. In such a workflow you might create and send a topic branch like this:

```
$ git checkout -b topic origin/master # work and create some commits $ git format-patch origin/master $ git send-email ... 00*
```

Later, you can see whether your changes have been applied by saying (still on **topic**):

```
$ git fetch # update your notion of origin/master $ git cherry -v
```

Concrete example

In a situation where topic consisted of three commits, and the maintainer applied two of them, the situation might look like:

```
$ git log --graph --oneline --decorate --boundary origin/master...topic
* 7654321 (origin/master) upstream tip commit
[... snip some other commits ...]
* cccc111 cherry-pick of C
* aaaa111 cherry-pick of A
[... snip a lot more that has happened ...]
| * cccc000 (topic) commit C
```

```
| * bbbb000 commit B
| * aaaa000 commit A
|/
o 1234567 branch point
```

In such cases, git-cherry shows a concise summary of what has yet to be applied:

```
$ git cherry origin/master topic

- cccc000... commit C

+ bbbb000... commit B

- aaaa000... commit A
```

Here, we see that the commits A and C (marked with –) can be dropped from your **topic** branch when you rebase it on top of **origin/master**, while the commit B (marked with +) still needs to be kept so that it will be sent to be applied to **origin/master**.

Using a limit

The optional is useful in cases where your topic is based on other work that is not in upstream. Expanding on the previous example, this might look like:

```
$ git log --graph --oneline --decorate --boundary origin/master...topic
* 7654321 (origin/master) upstream tip commit
[... snip some other commits ...]
* cccc111 cherry-pick of C
* aaaa111 cherry-pick of A
[... snip a lot more that has happened ...]
| * cccc000 (topic) commit C
| * bbbb000 commit B
| * aaaa000 commit A
| * 0000fff (base) unpublished stuff F
[... snip ...]
| * 0000aaa unpublished stuff A
|/
o 1234567 merge-base between upstream and topic
```

By specifying base as the limit, you can avoid listing commits between base and topic:

```
$ git cherry origin/master topic base

- cccc000... commit C

+ bbbb000... commit B

- aaaa000... commit A
```

SEE ALSO

```
\textbf{git-patch-id}(1)
```

GIT

Part of the **git**(1) suite