

NAME

git-commit-graph – Write and verify Git commit-graph files

SYNOPSIS

```
git commit-graph read [--object-dir <dir>]
git commit-graph verify [--object-dir <dir>]
git commit-graph write <options> [--object-dir <dir>]
```

DESCRIPTION

Manage the serialized commit-graph file.

OPTIONS

--object-dir

Use given directory for the location of packfiles and commit-graph file. This parameter exists to specify the location of an alternate that only has the objects directory, not a full **.git** directory. The commit-graph file is expected to be at **<dir>/info/commit-graph** and the packfiles are expected to be in **<dir>/pack**.

COMMANDS

write

Write a commit-graph file based on the commits found in packfiles.

With the **--stdin-packs** option, generate the new commit graph by walking objects only in the specified pack-indexes. (Cannot be combined with **--stdin-commits** or **--reachable**.)

With the **--stdin-commits** option, generate the new commit graph by walking commits starting at the commits specified in stdin as a list of OIDs in hex, one OID per line. (Cannot be combined with **--stdin-packs** or **--reachable**.)

With the **--reachable** option, generate the new commit graph by walking commits starting at all refs. (Cannot be combined with **--stdin-commits** or **--stdin-packs**.)

With the **--append** option, include all commits that are present in the existing commit-graph file.

read

Read the commit-graph file and output basic details about it. Used for debugging purposes.

verify

Read the commit-graph file and verify its contents against the object database. Used to check for corrupted data.

EXAMPLES

- Write a commit-graph file for the packed commits in your local **.git** directory.

```
$ git commit-graph write
```

- Write a commit-graph file, extending the current commit-graph file using commits in **<pack-index>**.

```
$ echo <pack-index> | git commit-graph write --stdin-packs
```

- Write a commit-graph file containing all reachable commits.

```
$ git show-ref -s | git commit-graph write --stdin-commits
```

- Write a commit-graph file containing all commits in the current commit-graph file along with those reachable from **HEAD**.

```
$ git rev-parse HEAD | git commit-graph write --stdin-commits --append
```

- Read basic information from the commit-graph file.

```
$ git commit-graph read
```

GIT

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