

NAME

git-ls-tree – List the contents of a tree object

SYNOPSIS

```
git ls-tree [-d] [-r] [-t] [-l] [-z]
            [--name-only] [--name-status] [--full-name] [--full-tree] [--abbrev[=<n>]]
            <tree-ish> [<path>...]
```

DESCRIPTION

Lists the contents of a given tree object, like what `"/bin/ls -a"` does in the current working directory. Note that:

- the behaviour is slightly different from that of `"/bin/ls"` in that the `<path>` denotes just a list of patterns to match, e.g. so specifying directory name (without `-r`) will behave differently, and order of the arguments does not matter.
- the behaviour is similar to that of `"/bin/ls"` in that the `<path>` is taken as relative to the current working directory. E.g. when you are in a directory `sub` that has a directory `dir`, you can run `git ls-tree -r HEAD dir` to list the contents of the tree (that is `sub/dir` in **HEAD**). You don't want to give a tree that is not at the root level (e.g. `git ls-tree -r HEAD:sub dir`) in this case, as that would result in asking for `sub/sub/dir` in the **HEAD** commit. However, the current working directory can be ignored by passing `--full-tree` option.

OPTIONS

```
<tree-ish>
  Id of a tree-ish.

-d
  Show only the named tree entry itself, not its children.

-r
  Recurse into sub-trees.

-t
  Show tree entries even when going to recurse them. Has no effect if -r was not passed. -d implies -t.

-l, --long
  Show object size of blob (file) entries.

-z
  \0 line termination on output and do not quote filenames. See OUTPUT FORMAT below for more information.

--name-only, --name-status
  List only filenames (instead of the "long" output), one per line.

--abbrev[=<n>]
  Instead of showing the full 40-byte hexadecimal object lines, show only a partial prefix. Non default number of digits can be specified with --abbrev=<n>.

--full-name
  Instead of showing the path names relative to the current working directory, show the full path names.

--full-tree
  Do not limit the listing to the current working directory. Implies --full-name.

[<path>...]
  When paths are given, show them (note that this isn't really raw pathnames, but rather a list of patterns to match). Otherwise implicitly uses the root level of the tree as the sole path argument.
```

OUTPUT FORMAT

```
<mode> SP <type> SP <object> TAB <file>
```

This output format is compatible with what **--index-info** **--stdin** of *git update-index* expects.

When the **-l** option is used, format changes to

```
<mode> SP <type> SP <object> SP <object size> TAB <file>
```

Object size identified by <object> is given in bytes, and right-justified with minimum width of 7 characters. Object size is given only for blobs (file) entries; for other entries – character is used in place of size.

Without the **-z** option, pathnames with "unusual" characters are quoted as explained for the configuration variable **core.quotePath** (see **git-config(1)**). Using **-z** the filename is output verbatim and the line is terminated by a NUL byte.

GIT

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