

NAME

dircmp — Compare 2 directories using sha1 checksums

SYNOPSIS

```
dircmp [-abdfhrsv] [--all] [--brief] [--debug] [--fast] [--help] [--recurse]
        [--single] [--version] dir1 dir2
```

DESCRIPTION

The **dircmp** utility compares the contents of *dir1* and *dir2* and writes to the standard output a report detailing the differences between the two directories. A usage statement and error is printed if no arguments are provided.

Options:

- a --all
Include hidden files and directories in comparisons.
- b --brief
Brief mode - causes **dircmp** to suppress file lists.
- d --debug
Debug mode - causes **dircmp** to produce verbose output and program debug information.
- f --fast
Fast mode - causes **dircmp** to perform shallow digests (super fast, but less accurate).
- h --help
Show a help message and exit.
- r --recurse
Recurse mode - causes **dircmp** to recurse subdirectories.
- s --single
Single directory mode - causes **dircmp** to analyze a single directory for duplicates.
- v --version
Display **dircmp** version number and exit.

EXAMPLE SESSION

Compare two directories recursively.

```
$ dircmp.py -r tests/default/src tests/default/dst
```

```
+-----+
| Welcome to dircmp version 0.7.0 |
| Created by Will Senn on 20191210 |
| Last updated 20210803           |
+-----+

Digest: sha1
Source (src): tests/default/src/

Destination (dst): tests/default/dst/
Single directory mode: False
Show all_flag files: False
Recurse subdirectories: False
Calculate shallow digests: False

Scanning src ... 9 files found (0.01s).
Calculating sha1 digests in src ..... done (0.0s).
Scanning dst ... 7 files found (0.0s).
Calculating sha1 digests in dst ... done (0.0s).
```

```
Analyzing src directory ...done (0.0s).
Analyzing dst directory ...done (0.0s).
Comparing src to dst ...done (0.0s).
Comparing dst to src ...done (0.0s).
Checking for different names, same digest ...done (0.0s).

Duplicates found in tests/default/src/: 6 files found.
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both_copy
c62a323c301dfb0f3cc8e27609c7f507d1965b64 only_in_src
c62a323c301dfb0f3cc8e27609c7f507d1965b64 only_in_src_copy
da39a3ee5e6b4b0d3255bfef95601890afd80709 empty
da39a3ee5e6b4b0d3255bfef95601890afd80709 empty_in_both

Duplicates found in tests/default/dst/: 2 files found.
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both_copy

Exact matches: 4 files found.
75093aa729169179c9dbbca6aa2d95a97865ca03 b_same_in_both
da39a3ee5e6b4b0d3255bfef95601890afd80709 empty_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both_copy

Only in tests/default/src/: 2 files found.
c62a323c301dfb0f3cc8e27609c7f507d1965b64 only_in_src
c62a323c301dfb0f3cc8e27609c7f507d1965b64 only_in_src_copy

Only in tests/default/dst/: 1 files found.
36969b074153d1e76fbd43fb3d3c59802b5f730d only_in_dst

Same names but different digests: 2 files found.
in_both_diff_content src:e3bbf99ae9bb23804155b25a82a943e8757fc07a
in_both_diff_content dst:2690814b054f2ddf3435a30a65506ce4bedbald2

Different names but same digests: 8 files found.
0026a27ffa78a4a4963175c35fbee11c332049ed src:same_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed src:same_in_both_copy
0026a27ffa78a4a4963175c35fbee11c332049ed dst:same_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed dst:same_in_both_copy
6476df3aac780622368173fe6e768a2edc3932c8 src:in_src_same_content_diff_name
6476df3aac780622368173fe6e768a2edc3932c8 dst:in_dst_same_content_diff_name
da39a3ee5e6b4b0d3255bfef95601890afd80709 src:empty
da39a3ee5e6b4b0d3255bfef95601890afd80709 dst:empty_in_both

Summary
-----
Started at 2021-08-03 09:38:40.373714
0 dirs, 16 files analyzed.
0 dirs, 9 files found in tests/default/src/.
0 dirs, 7 files found in tests/default/dst/.
6 duplicate files found in tests/default/src/.
2 duplicate files found in tests/default/dst/.
4 exact matches found.
```

```

2 files only exist in tests/default/src/.
1 files only exist in tests/default/dst/.
2 files have same names but different digests.
8 files have different names but same digest.
Finished at 2021-08-03 09:38:40.392788

```

Total running time: 0.02s.

Compare two directories recursively in brief mode.

```
$ dircmp.py -b -r tests/default/src tests/default/dst
```

```

+-----+
| Welcome to dircmp version 0.7.0 |
| Created by Will Senn on 20191210 |
| Last updated 20210803           |
+-----+
4 dirs, 18 files analyzed.
1 dirs, 10 files found in simple-test/src/.
3 dirs, 8 files found in simple-test/dst/.
6 duplicate files found in simple-test/src/.
2 duplicate files found in simple-test/dst/.
4 exact matches found.
3 files only exist in simple-test/src/.
2 files only exist in simple-test/dst/.
2 files have same names but different digests.
8 files have different names but same digest.
Finished at 2021-08-03 20:40:48.128633

```

Analyze a single directory recursively.

```
$ dircmp.py -s -r tests/default/src
```

```

+-----+
| Welcome to dircmp version 0.7.0 |
| Created by Will Senn on 20191210 |
| Last updated 20210803           |
+-----+
Digest: sha1
Source (src): simple-test/src/
Single directory mode: True
Show all_flag files: False
Recurse subdirectories: True
Calculate shallow digests: False

Scanning src ... 10 files found (0.01s).
Calculating sha1 digests in src ..... done (0.0s).
Analyzing src directory ...done (0.0s).
Duplicates found in simple-test/src/: 6 files found.
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both
0026a27ffa78a4a4963175c35fbee11c332049ed same_in_both_copy
c62a323c301dfb0f3cc8e27609c7f507d1965b64 only_in_src
c62a323c301dfb0f3cc8e27609c7f507d1965b64 only_in_src_copy

```

```
da39a3ee5e6b4b0d3255bfef95601890afd80709 empty
da39a3ee5e6b4b0d3255bfef95601890afd80709 empty_in_both
```

Summary

```
Started at 2021-08-03 20:42:19.780063
1 dirs, 10 files analyzed.
1 dirs, 10 files found in simple-test/src/.
Finished at 2021-08-03 20:42:19.789974
```

Total running time: 0.01s.

SEE ALSO

cmp(1), *diff*(1), *shasum*(1)