

# Rsync

Each bit position and value in rsync's output:

```

YXcstpoguax  path/to/file
|||||
|||||L- x: The extended attribute information changed
|||||L-- a: The ACL information changed
|||||L--- u: The u slot is reserved for future use
|||||L---- g: Group is different
|||||L----- o: Owner is different
|||||L----- p: Permission are different
|||||L----- t: Modification time is different
|||L----- s: Size is different
||L----- c: Different checksum (for regular files), or
||              changed value (for symlinks, devices, and special files)
||
||L----- the file type:
||          f: for a file,
||          d: for a directory,
||          L: for a symlink,
||          D: for a device,
||          S: for a special file (e.g. named sockets and fifos)
||
||L----- the type of update being done::
||          <: file is being transferred to the remote host (sent)
||          >: file is being transferred to the local host (received)
||          c: local change/creation for the item, such as:
||              - the creation of a directory
||              - the changing of a symlink,
||              - etc.
||          h: the item is a hard link to another item (requires
||              --hard-links).
||          .: the item is not being updated (though it might have
||              attributes that are being modified)
||          *: means that the rest of the itemized-output area contains
||              a message (e.g. "deleting")

```

**Some example output from rsync for various scenarios:**

```

>f+++++++ some/dir/new-file.txt
.f....og..x some/dir/existing-file-with-changed-owner-and-group.txt
.f.....x some/dir/existing-file-with-changed-unnamed-attribute.txt
>f...p....x some/dir/existing-file-with-changed-permissions.txt
>f..t..g..x some/dir/existing-file-with-changed-time-and-group.txt
>f.s.....x some/dir/existing-file-with-changed-size.txt
>f.st.....x some/dir/existing-file-with-changed-size-and-time-stamp.txt
cd+++++++ some/dir/new-directory/
.d....og... some/dir/existing-directory-with-changed-owner-and-group/

```

.d..t..... some/dir/existing-directory-with-different-time-stamp/

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