

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
| | | | | | | | | |L----- changed value (for symlinks, devices, and special files)
| | | | | | | | | |L----- the file type:
| | | | | | | | | |L----- f: for a file,
| | | | | | | | | |L----- d: for a directory,
| | | | | | | | | |L----- L: for a symlink,
| | | | | | | | | |L----- D: for a device,
| | | | | | | | | |L----- S: for a special file (e.g. named sockets and fifos)
| | | | | | | | | |L----- the type of update being done::
| | | | | | | | | |L----- <: file is being transferred to the remote host (sent)
| | | | | | | | | |L----- >: file is being transferred to the local host (received)
| | | | | | | | | |L----- c: local change/creation for the item, such as:
| | | | | | | | | |L----- - the creation of a directory
| | | | | | | | | |L----- - the changing of a symlink,
| | | | | | | | | |L----- - etc.
| | | | | | | | | |L----- h: the item is a hard link to another item (requires
| | | | | | | | | |L----- --hard-links).
| | | | | | | | | |L----- .: the item is not being updated (though it might have
| | | | | | | | | |L----- attributes that are being modified)
| | | | | | | | | |L----- *: means that the rest of the itemized-output area contains
| | | | | | | | | |L----- 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/
```

Full backup

```
rsync -haxAX --stats --delete --info=progress2 --info=name0 /* "$TargetMnt"  
--exclude={"/dev/*,/proc/*,/sys/*,/tmp/*,/run/*,/mnt/*,/media/*,/lost+found"}
```

Some notable comments about parameters:

--stats gives information on files added, changed and deleted from the clone (called backup in your case).

--delete instructs rsync to delete files in the clone that no longer exist in the source directory.

info=progress2 gives a modern looking progress display whilst cloning directories.

--info=name0 prevents every single filename from being displayed as it is being copied. This gives less screen clutter but you may want to omit this parameter.

/* tells rsync where to start synchronizing files. In this example it's the root directory but you want to change it to /media/user1/DATA4/FolderA.

"\$TargetMnt" tells rscync where to clone to. In your case change it to "/media/ivan/Seagate Backup Plus Drive/FolderA". The double quotes are important because your directory names contain spaces in them.

The second line starting with --exclude={"/dev/* you don't need at all because these directories aren't in the list. Don't use this line and drop the line continuation character \ at the end of the first line.

As with all backup scenarios always test the backups to make sure all files are there and contain the appropriate information.

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