

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/
```

Full backup

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

Some notable comments about parameters:

1. -stats gives information on files added, changed and deleted from the clone (called backup in your case).
2. -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.

1. -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.

<code> 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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