

# Rsync

Each bit position and value in rsync's output:

```

YXcstpoguax  path/to/file
|||||||||||
|||||||||||- x: The extended attribute information changed
|||||||||||- a: The ACL information changed
|||||||||||- u: The u slot is reserved for future use
|||||||||||- g: Group is different
|||||||||||- o: Owner is different
|||||||||||- p: Permission are different
|||||||||||- t: Modification time is different
|||||||||||- s: Size is different
|||||||||||- c: Different checksum (for regular files), or
|||||||||||   changed value (for symlinks, devices, and special files)
||

|----- 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)
|
|----- 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/
```

```
rsync -haxAX -stats -delete -info=progress2 -info=name0 /* "$TargetMnt" \
```

1. -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 rsync 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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