

Compressing NASA's Media Files

- This project is offered by [Codecademy.com](https://www.codecademy.com)
- Ubuntu CLI was used for this project

In this project, a family friend is willing to share their photos and their experience working in NASA. This friend warns that these files need to be compressed before being shared due to them being raw and unedited.

To complete this project, I will be:

- Downloading and extracting a zip file.
- Compressing files using *qzip*, *bzip2*, or *xz* and move into a directory.

Project start timestamp:

```
Max:~/NASA_media/media$ timedatectl
Local time: Sun 2024-01-14 12:52:27 MST
Universal time: Sun 2024-01-14 19:52:27 UTC
RTC time: Sun 2024-01-14 19:52:27
Time zone: America/Denver (MST, -0700)
System clock synchronized: yes
NTP service: inactive
RTC in local TZ: no
```

Download the File

1. First creating a directory to hold the file using the **mkdir** command. In my case, I created the **NASA_media** directory.

```
Max:~$ mkdir NASA_media
```

2. Navigate to NASA_media folder using the **cd** command.

```
Max:~$ cd NASA_media
Max:~/NASA_media$
```

3. Use **wget** or **curl** command to download file.
 - a. In my case, I'm downloading the media.zip file from <https://static-assets.codecademy.com/Courses/learn-linux/nasa-media-off-platform-project/media.zip>

```

Max:~/NASA_media$ wget https://static-assets.codecademy.com/Courses/learn-linux/nasa-media-off-platform-project/media.zip
--2024-01-12 10:02:25-- https://static-assets.codecademy.com/Courses/learn-linux/nasa-media-off-platform-project/media.zip
Resolving static-assets.codecademy.com (static-assets.codecademy.com)... 104.18.199.63, 104.17.212.81, 2606:4700::6812:c73f, ...
Connecting to static-assets.codecademy.com (static-assets.codecademy.com)|104.18.199.63|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 112912870 (108M) [application/zip]
Saving to: 'media.zip'

media.zip          100%[=====>] 107.68M  11.9MB/s   in 9.2s

2024-01-12 10:02:34 (11.7 MB/s) - 'media.zip' saved [112912870/112912870]

```

4. Unzip the media folder that was downloaded.

```

Max:~/NASA_media$ unzip media
Archive: media.zip
  creating: media/
  inflating: media/Apollo 8 Separation.jpg
  inflating: media/Apollo 9 Launch.jpg
  inflating: media/credits.txt
  inflating: media/Pathfinder.jpg
  inflating: media/Saturn Apollo Program Illustration.jpg
  inflating: media/Saturn Apollo Program.jpg
  inflating: media/Voyager in Deep Space.jpg

```

5. Navigate to unzipped media folder.

Option: use **ls -a** command to see all the files within the folder. Can also be seen in the Ubuntu file explorer.

```

Max:~/NASA_media$ cd media
Max:~/NASA_media/media$ ls -a
.      'Apollo 8 Separation.jpg'  Pathfinder.jpg      'Saturn Apollo Program.jpg'  credits.txt
..     'Apollo 9 Launch.jpg'   'Saturn Apollo Program Illustration.jpg'  'Voyager in Deep Space.jpg'

```

6. Create a directory called **Compressed_photos**.

```

Max:~/NASA_media/media$ mkdir compressed_photos

```

7. Move the jpg files to the compressed_photos directory.

```

Max:~/NASA_media/media$ mv *.jpg compressed_photos

```

8. Compress all the jpg files in the compressed_photos directory using **gzip**, **bzip2**, **xz**, or any other compression utility. I used gzip.

```

Max:~/NASA_media/media$ gzip compressed_photos/*.jpg

```

Option: Navigate to compressed_photos directory and use the **ls -a** command to see the compressed files.

```
Max:~/NASA_media/media$ cd compressed_photos
Max:~/NASA_media/media/compressed_photos$ ls -a
.      'Apollo 8 Separation.jpg.gz'  Pathfinder.jpg.gz      'Saturn Apollo Program.jpg.gz'
' Apollo 9 Launch.jpg.gz'      'Saturn Apollo Program Illustration.jpg.gz' 'Voyager in Deep Space.jpg.gz'
```

Project end timestamp:

```
Max:~/NASA_media/media/compressed_photos$ timedatectl
          Local time: Mon 2024-01-15 13:12:08 MST
          Universal time: Mon 2024-01-15 20:12:08 UTC
            RTC time: Mon 2024-01-15 20:12:07
          Time zone: America/Denver (MST, -0700)
System clock synchronized: yes
              NTP service: inactive
          RTC in local TZ: no
```