Using google-drive-ocamlfuse

There are so many variables with computer systems that it's impossible to guarantee results on an unknown one. I make no promises that this will work for anybody else now or in the future.
It was compiled on 14 July 2016.

To install run these commands:—

```
sudo add-apt-repository ppa:alessandro-strada/ppa
sudo apt-get update
sudo apt-get install google-drive-ocamlfuse
```

The next thing is to authorise the program to access your Google Drive. To do this the command is:—

```
google-drive-ocamlfuse
```

This will open a browser window, connect to Google and ask your permission.

You now need to make a directory for your files to appear in. You can call it what you like but it makes things much easier if it's only one word. Also remember that Linux is case-sensitive so if you call it GoogleDrive you can't later refer to it as googledrive or GOOGLEDRIVE. The logical place for this is your Home folder for which the command is:—

```
mkdir /home/USERNAME/DIRECTORYNAME
```

eg:—

```
mkdir /home/joe/GoogleDrive
```

Finally you have to mount it with:—

```
sudo mount /home/USERNAME/DIRECTORYNAME
```

eg:—

```
sudo mount /home/joe/GoogleDrive
```

After that you should be able to find the files on your Google Drive in the directory you created and any that you add there will be added to your Google Drive.

This happy state of affairs will continue until you switch your computer off. When your turn it back on you will have to run the `mount` command again. This can be automated but it's a bit of a palaver.

The first thing is to create a shell script called `gdfuse` in the directory `/usr/bin` as root. The exact command will depend on what text editor you use. In MY case it's:—

```
gksu pluma /usr/bin/gdfuse
```

When the editor opens add this:—

```
#!/bin/bash
su USERNAME -l -c "google-drive-ocamlfuse -label $1 $*"
exit 0
```

eg:—

```
#!/bin/bash
su joe -l -c "google-drive-ocamlfuse -label $1 $*"
exit 0
```

Save and exit the editor.

Make it executable:—

```
sudo chmod 755 /usr/bin/gdfuse
```

Take ownership of your Google Drive directory:—

```
sudo chown USERNAME.USERNAME DIRECTORYNAME
```

eg:—

```
sudo chown joe.joe /home/joe/GoogleDrive
```

Next, open and edit file `/etc/fstab`. Again the command may vary but as an example:—

```
gksu pluma /etc/fstab
```

Add this line at the bottom:—

```
gdfuse#default  DIRECTORYNAME    fuse  uid=1000,gid=1000       0     0
```

eg:—

```
gdfuse#default  /home/joe/GoogleDrive  fuse  uid=1000,gid=1000       0     0
```

The `uid` and `gid` are usually 1000. To check, run these commands:—

```
id -u USERNAME
id -g USERNAME
```

eg:—

```
id -u joe
id -g joe
```

Save and exit the editor.

If it isn't already, you can mount the Google Drive with:—

```
sudo mount DIRECTORYNAME
```

eg:—

```
sudo mount /home/joe/GoogleDrive
```

In future it should be automatic.

Your Google Drive will be checked for changes every sixty seconds. You can make this happen at different time intervals by altering the line `metadata_cache_time=60` in the `~/.gdfuse/default/config` file.

eg:—

```
pluma ~/.gdfuse/default/config
```

Note the full-stop between the / and the g.