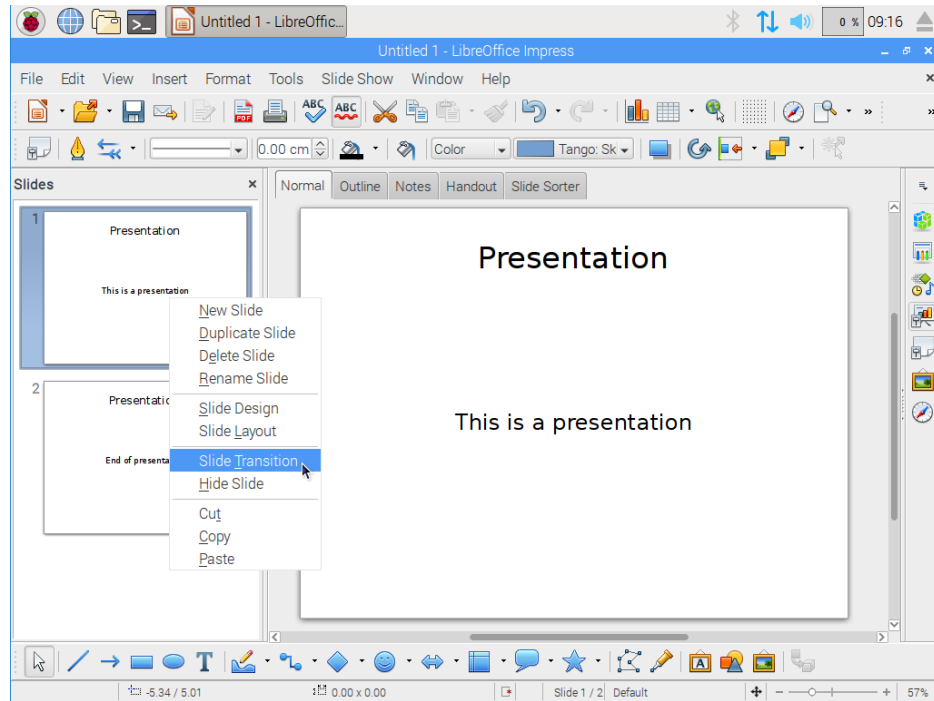


SETTING UP A RASPBERRY PI ZERO AS A SLIDESHOW EXHIBITOR

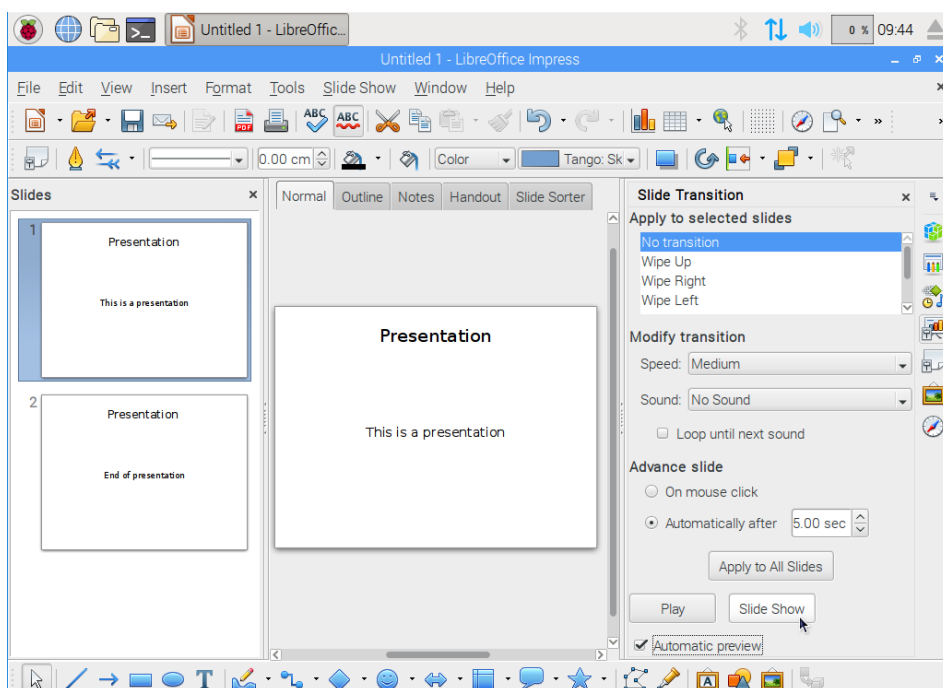
Adrián Gil Gómez – GiaKonda IT

SETTING UP AN AUTOMATIC SLIDE SHOW

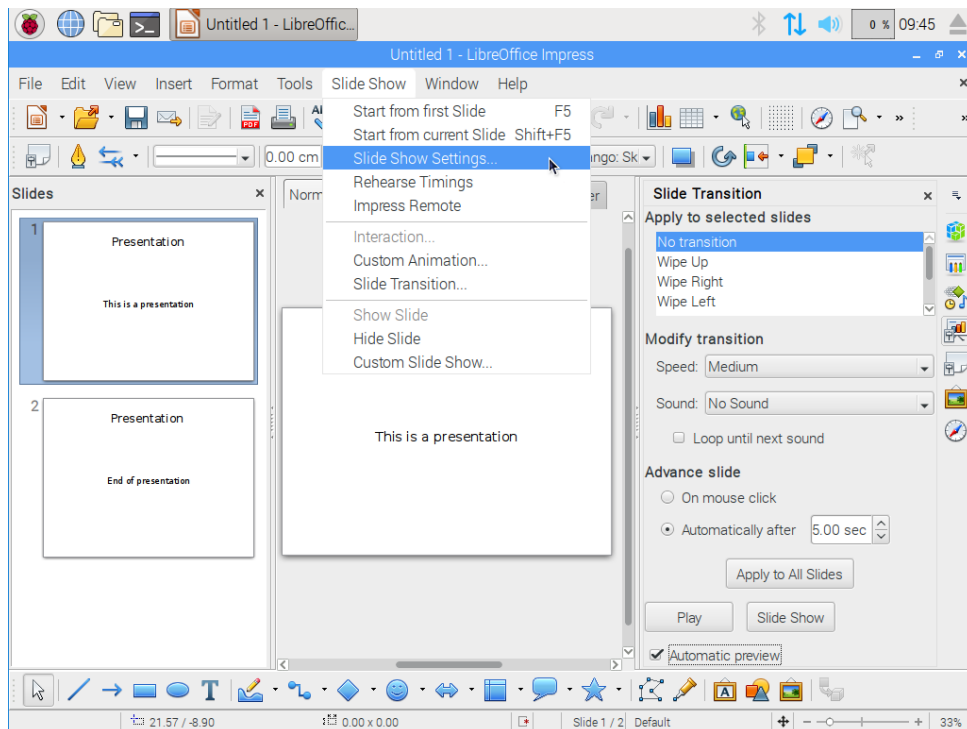
Open your selected slideshow presentation with **LibreOffice Impress**, then right-click on any slide and click on **Slide Transition**



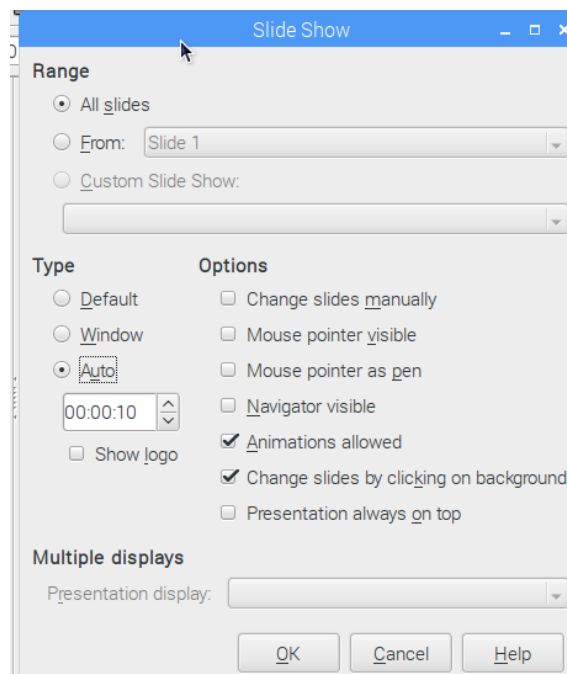
In the **Slide Transition** panel on the right, check **Automatically after** under the **Advance slide** section and set the timer to whatever time you want your slides to advance automatically (I will set it up to 5 sec for the moment), then click on **Apply to All Slides**.



Now click on **Slide Show** under the toolbar and then click on **Slide Show Settings**.



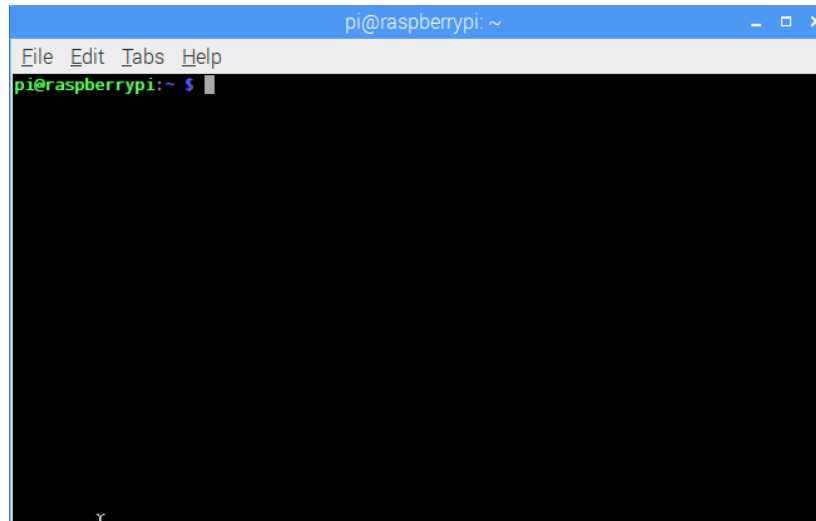
Under **Type**, click on **Auto**, and set the timer to 00:00:00 (Else an ugly countdown will show up everytime after the slide show finishes and before it starts again). If you want to set up any transitions whatsoever you can do that now or just click on OK if you're done.



Click on **Save** or press Ctrl + S to save your slide show settings and you're good to go! Save on your home folder for easy access later on.

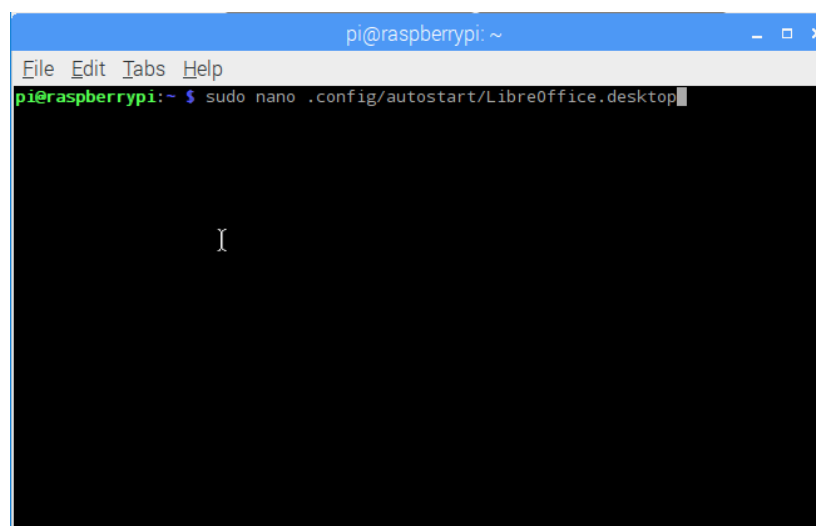
START A SLIDE SHOW ON BOOT

We are going to do a little tinkering with the Linux terminal now. In order for the presentation to run just as you plug your Pi Zero in we need to create a file to specify that it's going to run once the Pi Zero gets to the desktop. Open a Terminal by pressing **Ctrl + Alt + T** or just by clicking on the icon above

A screenshot of a terminal window on a Raspberry Pi. The window title is 'pi@raspberrypi: ~'. The menu bar shows 'File Edit Tabs Help'. The prompt is 'pi@raspberrypi:~ \$' with a cursor.

ls .c

We need to create a **.desktop** file, which will indicate which and how programs run after the system finishes booting up to the desktop. I will create a file called **LibreOffice.desktop**, although you can call it whatever you want as long as the file's got the **.desktop** extension. Write **sudo nano .config/autostart/Libreoffice.desktop** on the terminal and press Enter.

A screenshot of a terminal window on a Raspberry Pi. The window title is 'pi@raspberrypi: ~'. The menu bar shows 'File Edit Tabs Help'. The prompt is 'pi@raspberrypi:~ \$' and the command 'sudo nano .config/autostart/Libre0ffice.desktop' has been entered, with the cursor at the end of the line.

The file will have the following structure. Change it as you see fit.

```
[Desktop Entry]
# The type as listed above
Type=Application

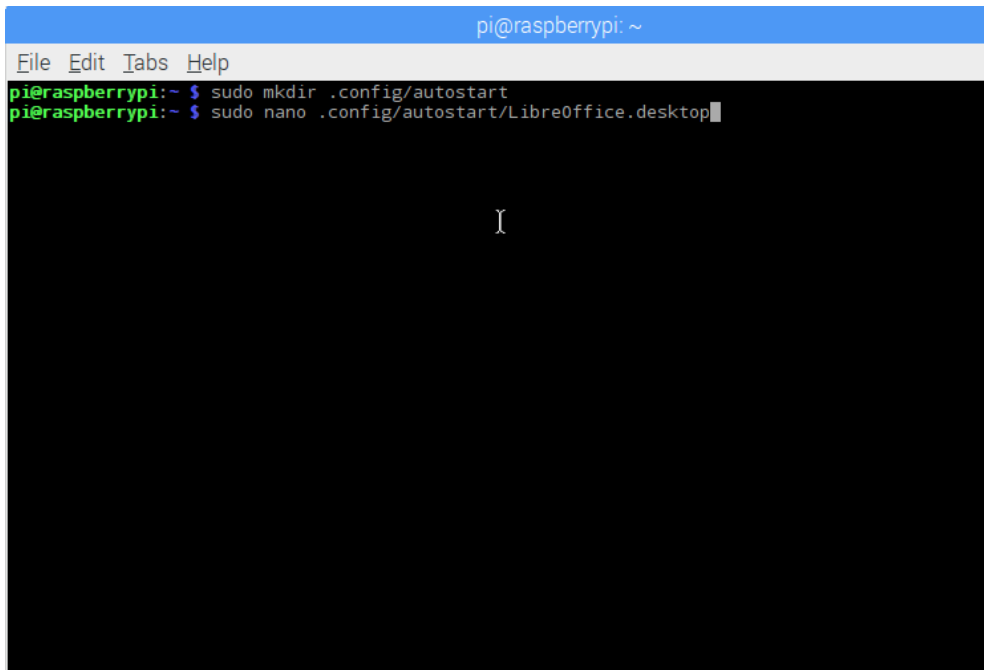
# The name of the application
Name=LibreOffice

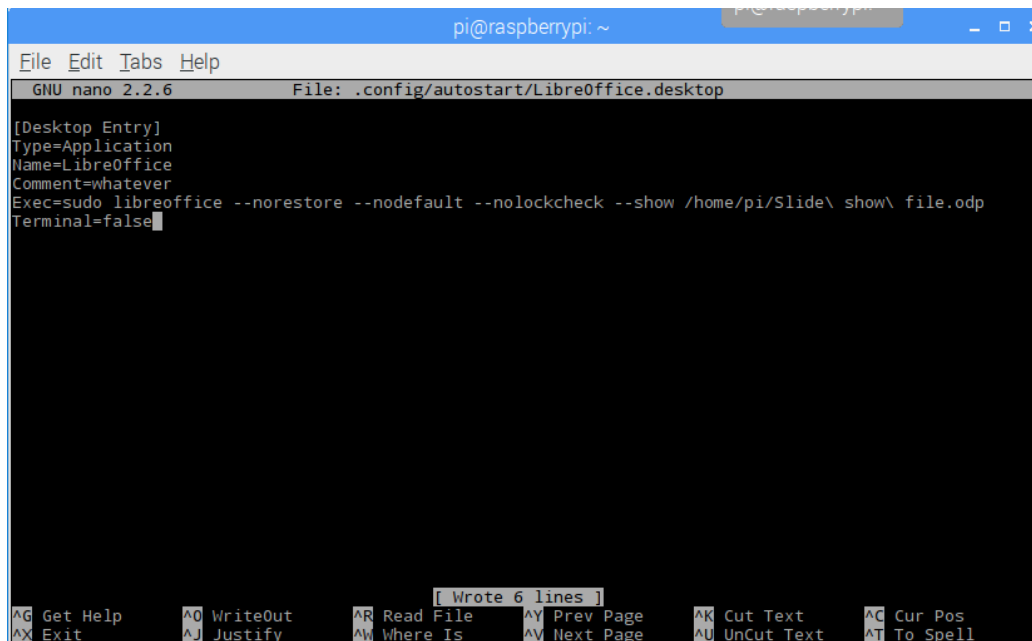
# A comment which can/will be used as a tooltip. This is optional.
Comment=This will run a slideshow automatically

# The executable of the application. Here we will pass all the arguments that
we need so that the slide show runs automatically. Change the file location to
wherever your slide show is and if your slide show's file name contains spaces
it must be written with backslashes before the spaces.
Exec=sudo libreoffice --norestore --nodefault --nolockcheck --show
/location/of/your/file.odp

# Describes whether this application needs to be run in a terminal or not
Terminal=false
```

When you're done press **Ctrl + O** to save the file and then press **Ctrl + X** to exit. If it tells you there's no such file or directory you'll need to create the **autostart** folder by exiting nano (Press **Ctrl + X**) and write **sudo mkdir .config/autostart**, then go back to the aforementioned nano command (Tip: Press the arrow key up to browse the history of the commands you have input).



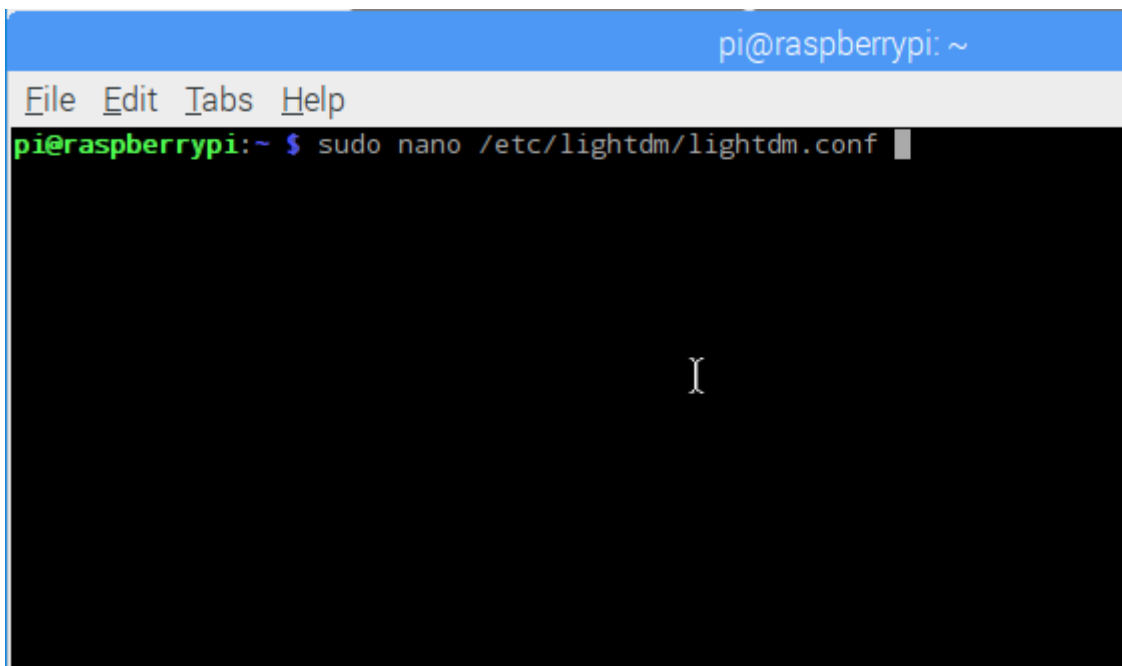


A screenshot of a terminal window on a Raspberry Pi. The window title is 'pi@raspberrypi: ~'. The terminal shows the GNU nano 2.2.6 text editor editing the file '.config/autostart/LibreOffice.desktop'. The file content is as follows:

```
[Desktop Entry]
Type=Application
Name=LibreOffice
Comment=whatever
Exec=sudo libreoffice --norestore --nodefault --nolockcheck --show /home/pi/Slide\ show\ file.odp
Terminal=false
```

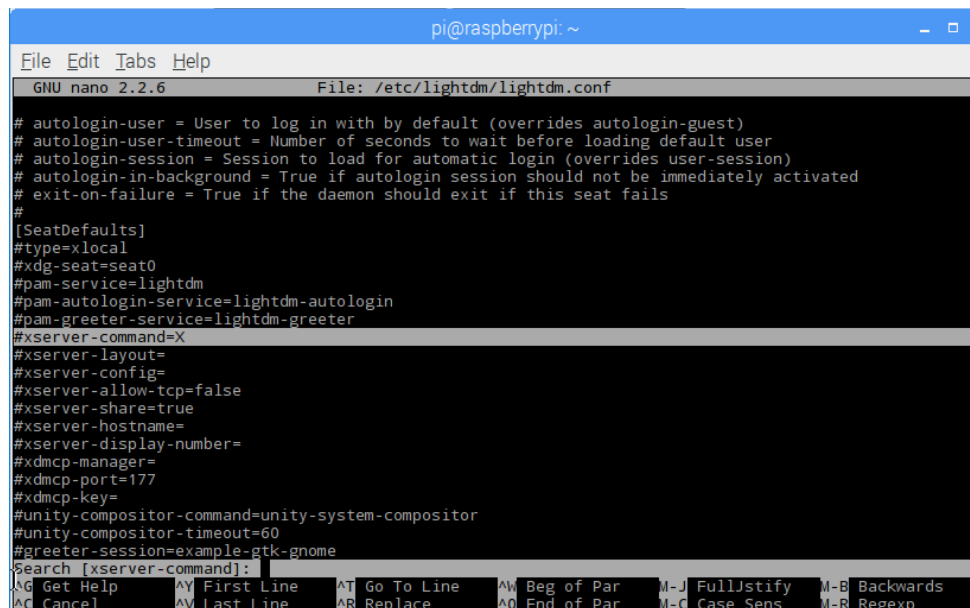
The bottom status bar of the nano editor shows '[Wrote 6 lines]' and various keyboard shortcuts like ^G Get Help, ^O WriteOut, ^R Read File, ^Y Prev Page, ^K Cut Text, ^C Cur Pos, ^X Exit, ^J Justify, ^W Where Is, ^V Next Page, ^U UnCut Text, and ^T To Spell.

We will need to tweak something else before we're done. By default Raspbian (the OS running on the Pi Zero) will shut the screen down after ten minutes of inactivity, unfortunately the slide show won't count as activity so we need to change that. In the terminal write **sudo nano /etc/lightdm/lightdm.conf** and press Enter.



A screenshot of a terminal window on a Raspberry Pi. The window title is 'pi@raspberrypi: ~'. The terminal shows the command 'sudo nano /etc/lightdm/lightdm.conf' being entered at the prompt. The cursor is at the end of the command line.

Search for the line **xserver-command** under **[SeatDefaults]**. Tip: You can search lines in nano by pressing **Ctrl + W** and writing the line you want to find.

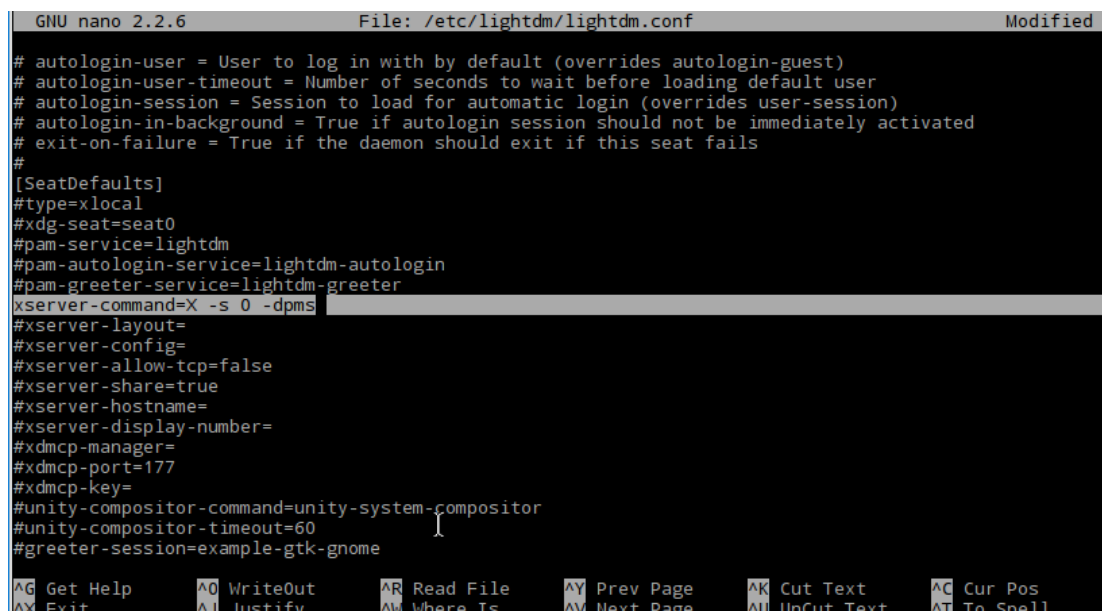


```
pi@raspberrypi: ~
File Edit Tabs Help
GNU nano 2.2.6 File: /etc/lightdm/lightdm.conf

# autologin-user = User to log in with by default (overrides autologin-guest)
# autologin-user-timeout = Number of seconds to wait before loading default user
# autologin-session = Session to load for automatic login (overrides user-session)
# autologin-in-background = True if autologin session should not be immediately activated
# exit-on-failure = True if the daemon should exit if this seat fails
#
[SeatDefaults]
#type=xlocal
#xdg-seat=seat0
#pam-service=lightdm
#pam-autologin-service=lightdm-autologin
#pam-greeter-service=lightdm-greeter
#xserver-command=X
#xserver-layout=
#xserver-config=
#xserver-allow-tcp=false
#xserver-share=true
#xserver-hostname=
#xserver-display-number=
#xdmcp-manager=
#xdmcp-port=177
#xdmcp-key=
#unity-compositor-command=unity-system-compositor
#unity-compositor-timeout=60
#greeter-session=example-gtk-gnome
Search [xserver-command]:
^G Get Help ^Y First Line ^T Go To Line ^W Beg of Par ^M-J FullJstify ^M-B Backwards
^C Cancel ^V Last Line ^R Replace ^O End of Par ^M-C Case Sens ^M-R Regexp
```

Change the line to the following:

```
xserver-command=X -s 0 -dpms
```



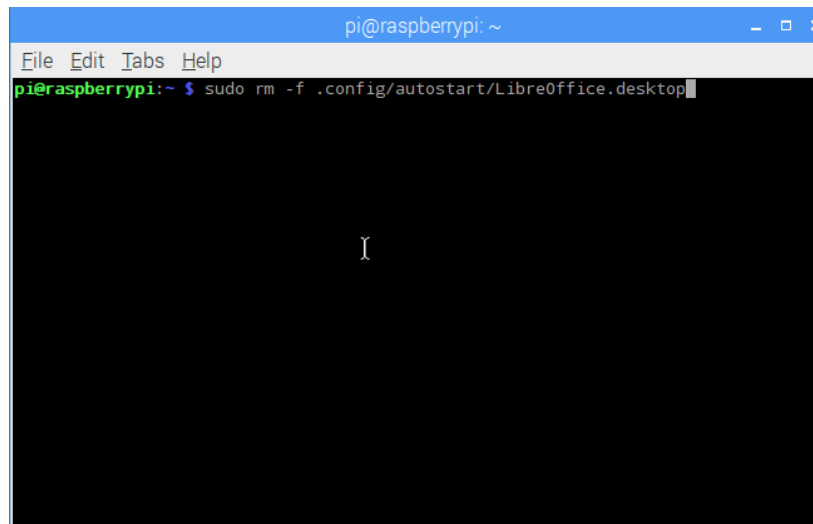
```
GNU nano 2.2.6 File: /etc/lightdm/lightdm.conf Modified

# autologin-user = User to log in with by default (overrides autologin-guest)
# autologin-user-timeout = Number of seconds to wait before loading default user
# autologin-session = Session to load for automatic login (overrides user-session)
# autologin-in-background = True if autologin session should not be immediately activated
# exit-on-failure = True if the daemon should exit if this seat fails
#
[SeatDefaults]
#type=xlocal
#xdg-seat=seat0
#pam-service=lightdm
#pam-autologin-service=lightdm-autologin
#pam-greeter-service=lightdm-greeter
xserver-command=X -s 0 -dpms
#xserver-layout=
#xserver-config=
#xserver-allow-tcp=false
#xserver-share=true
#xserver-hostname=
#xserver-display-number=
#xdmcp-manager=
#xdmcp-port=177
#xdmcp-key=
#unity-compositor-command=unity-system-compositor
#unity-compositor-timeout=60
#greeter-session=example-gtk-gnome
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

Press **Ctrl + O** to save and **Ctrl + X** to exit. Now whenever you boot your Pi Zero it will start you slide show automatically.

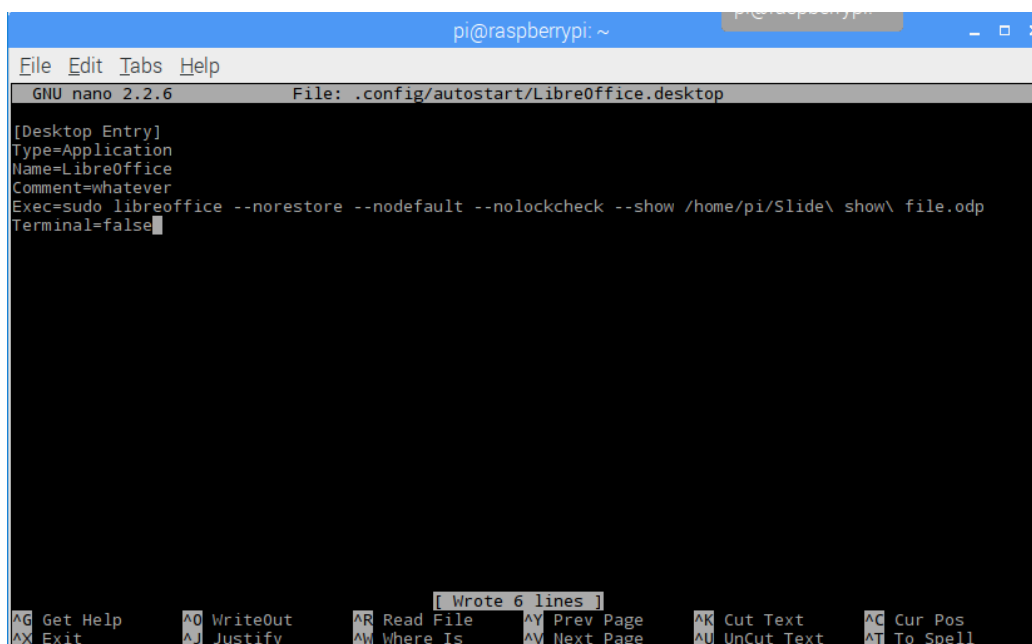
I DON'T WANT THE SLIDE SHOW TO RUN ON BOOT ANYMORE/I WANT TO CHANGE THE SLIDESHOW

That's pretty easy! You can just remove the file we created earlier if you don't need it anymore by opening up a terminal and writing `sudo rm -f .config/autostart/Yourfile.desktop` then pressing Enter.



```
pi@raspberrypi: ~  
File Edit Tabs Help  
pi@raspberrypi:~ $ sudo rm -f .config/autostart/LibreOffice.desktop
```

If you just want to change the slide show you want to start automatically open the desktop file with nano and change the location of the file:



```
pi@raspberrypi: ~  
File Edit Tabs Help  
GNU nano 2.2.6 File: .config/autostart/LibreOffice.desktop  
[Desktop Entry]  
Type=Application  
Name=LibreOffice  
Comment=whatever  
Exec=sudo libreoffice --norestore --nodefault --nolockcheck --show /home/pi/Slide\ show\ file.odp  
Terminal=false  
[ Wrote 6 lines ]  
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos  
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```



```
pi@raspberrypi: ~
File Edit Tabs Help
GNU nano 2.2.6 File: .config/autostart/LibreOffice.desktop Modif
[Desktop Entry]
Type=Application
Name=LibreOffice
Comment=whatever
Exec=sudo libreoffice --norestore --nodefault --nolockcheck --show /home/pi/Another\ slide\ show.odp
Terminal=false

^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text       ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is      ^V Next Page     ^U UnCut Text    ^T To Spell
```