CHANGE DPI IN UBUNTU

There is no option in Ubuntu with Unity to change the default DPI which is considered to be 96 DPI (run in a terminalxrdb -query). But there are two parameters which control the user interface DPI (this affects font rendering too) and font rendering only.

The parameter that controls user interface and fonts DPI is scaling-factor and the font rendering parameter is text-scaling factor. These parameters can be modified by the **Displays** application, by **GNOME Tweak Tool** and by **Unity Tweak Tool**, but none of these allows you to set a value with 3-4 decimals.

What's the scaling factor's value

The scaling factor is 1 for a 96 DPI. My display has a DPI of 103, so the scaling factor is 103 / 96 = 1.072917. GNOME Tweak Tool rounded this value to 1.10 so it's useless.

If you don't know what your display DPI is, simply measure its width in inches and divide your horizontal resolution in pixels by the measured value. Another way of getting the width and height of your display is by running xrandr and looking at the connected monitor. Example output: DVI-I-2 connected primary 1920x1080+0+0 (normal left inverted right x axis y axis) **477mm x 268mm**.

Dconf Editor allows you to set this value with 16 decimals. It can be installed by running sudo apt-get install dconf-editor in a terminal. These parameters are found in org.gnome.desktop.interface.

😣 🖨 🗉 dconf Editor		
▶ freyja	Name	Value
▼ gnome	gtk-im-module	gtk-im-context-simple
Bluetooth	gtk-im-preedit-style	callback
Contacts	gtk-im-status-style	callback
Disks	gtk-key-theme	Default
GWeather	gtk-theme	Ambiance
NautilusSendto	gtk-timeout-initial	200
▶ Totem	gtk-timeout-repeat	20
▶ baobab	icon-theme	ubuntu-mono-dark
▶ brasero	menubar-accel	F10
calculator	menubar-detachable	
▶ charmap	menus-have-icons	
cheese	menus-have-tearoff	
▶ deja-dup	monospace-font-name	Ubuntu Mono 11
▼ desktop	scaling-factor	1
▶a11y	show-input-method-menu	
applications		
background	show-unicode-menu	
datetime	text-scaling-factor	1.0729
file-sharing	toolbar-detachable	
input-sources	toolbar-icons-size	large
interface	toolbar-style	both-horiz
lockdown	toolkit-accessibility	
media-handling	ubuntu-overlay-scrollbars	
notifications	Schema: org.gnome.de	sktop.interface
privacy	Summary: Only show mn	emonics on when the Alt key is pressed
remote-access	Description: Whether mnemonics should be automatically shown and hidden when the user presses the Alt key.	
screensaver	Type: Boolean	
search-providers	Default: true	
session		Set to Default

I didn't change the interface DPI (scaling-factor) as my DPI is not so high to make the interface look too small. I only changed fonts DPI (text-scaling-factor) as I like for the user interface the font Ubuntu size 8 which looked too small.

What are the effects

- If you open a LibreOffice Writer document at 100% size and overlay a sheet of paper on the screen it should be exactly the same size.
- A font with the size equal to screen DPI will have a height of 1 inch on the display.
- Usually (depends on program e.g. qpdfview follows DPI, Evince doesn't) documents displayed at 100% are the same size as if they were on paper.

Source: http://onetransistor.blogspot.in/2014/09/change-dpi-in-ubuntu.html