



Pimp Your Linux (System Customization)

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RITLug, Week 8



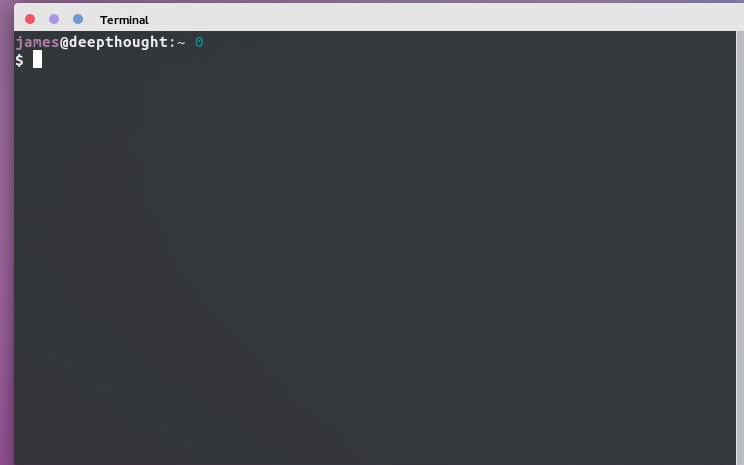
Customization! What can we do?

- One of the biggest selling points of Linux
- Change your desktop environment!
- Change the wallpaper (duh)
- Change the theme!
- Change every single icon!
- Change the boot splash screen!
- Change the login screen!
- Change almost everything to how you want it!

Shameless Plug

“Submit screenshots of all your *NIX desktops, themes, and nifty configurations, or submit anything else that will make ricers happy. Maybe a server running on an Amiga, or a thinkpad signed by Bjarne Stroustrup? Show the world how sexy your computer can be!”

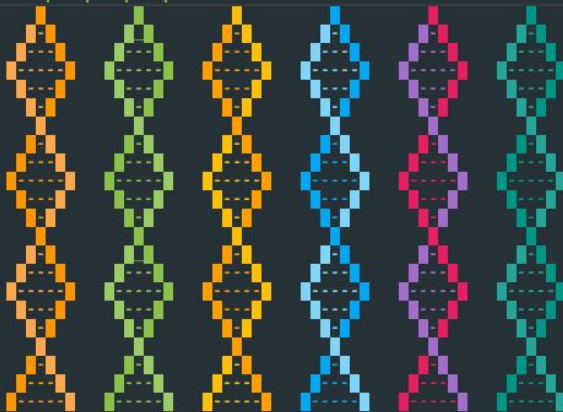
<https://www.reddit.com/r/unixporn>



Unity, Libra Theme (GTK), Numix Circle Icons



```
dinesh | 1 | 2 | 3 |
```



```
> bash colors.sh
```

| | | 40m | 41m | 42m | 43m | 44m | 45m | 46m | 47m |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 1m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 30m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 30m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 31m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 31m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 32m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 32m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 33m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 33m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 34m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 34m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 35m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 35m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 36m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 36m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| | 37m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |
| 1; | 37m | xYz | xYz | xYz | xYz | xYz | xYz | xYz | xYz |

```
/r/unixporn
```

```
din35h
```

[Awesome] One script to trash Unity and make Ubuntu Awesome again
<http://imgur.com/KdGp6YT>
 47 pts • 6hr 14 comments
 ruxvtc /r/unixporn Screenshot

[BSPWM][Bar] Finally happy with my setup
<http://imgur.com/a/d11EG>
 35 pts • 7hr 3 comments
 wgman /r/unixporn Screenshot

Thinking about creating a community-sponsored customization guide. I'd like the sub's thoughts
[selfpost](#)
 25 pts • 7hr 8 comments
 TsuDoughNym /r/unixporn Discussion

[bspwm] crack addict
<http://imgur.com/a/ZnMmY>
 7 pts • 3hr 4 comments
 scammer_of_keys /r/unixporn Screenshot

[i3] summer chill
<http://i.imgur.com/pMT0KoF.png>
 72 pts • 20hr 14 comments
 lovelybac0n /r/unixporn Screenshot

[i3] After 1 years with Windows, I'm back with Debian.
<http://imgur.com/a/XVuG3>
 11 pts • 10hr 4 comments
 rkz- /r/unixporn Screenshot

[i3] Finally proud enough to share my coding setup!
<http://imgur.com/a/tp6Se>
 31 pts • 16hr 9 comments
 supajord /r/unixporn Screenshot

[i3] Transparent Terminals!
<http://imgur.com/a/F1dDJ>
 94 pts • 23hr 29 comments
 LickableLemon /r/unixporn Screenshot

Need help ricing (Newbee ricer)
[selfpost](#)
 4 pts • 8hr 5 comments
 Swagnaster /r/unixporn Discussion

[i3][vim] I always said i'd get around to making everything match... Tomorrow Night
<https://imgur.com/a/w818J>
 28 pts • 1day 9 comments
 flylikeabanana /r/unixporn Screenshot

```
[KDE] from default to minimal: how to?
```

```
v*
```

```
1:18 Fri 3:03:41 PM 2015-07-24
```


Conky - System Monitor

Conky is a system monitor software for the X Window System.

Conky is able to monitor many system variables including CPU, memory, swap, disk space, temperature, top, upload, download, system messages, and much more.

It is extremely configurable, however, the configuration can be a little hard to understand.

Conky Examples

The screenshot displays a Linux desktop environment with a Conky dashboard. The dashboard features a large Arch Linux logo on the left and a terminal window on the right showing system information. The bottom of the dashboard displays various system statistics and a large digital clock.

Terminal Output:

```
[rhamilton@ArchBox ~]$ screenfetch -t -c 09 -s
@ArchBox
OS: Arch Linux
Kernel: x86_64 Linux 3.18.5-1-ARCH
Uptime: 4h 29m
Packages: 776
Shell: bash 4.3.33
Resolution: 3840x1200
DE: Cinnamon 2.4.6
WM: Muffin
WM Theme: Numix-Cinnamon (Adwaita)
GTK Theme: Adwaita [GTK2], Adwaita [GTK3]
Icon Theme: Faenza-Dark
Font: Droid Sans 10
CPU: Intel Core i7-4790K CPU @ 4GHz
GPU: GeForce GTX 970, GeForce GTX 660 Ti
RAM: 2275MB / 15898MB
Taking shot in 3.. 2.. 1..
```

System Statistics:

- System Uptime: 4h 29m (16187)
- CPU Avg use: 1%
- Freq: 4.00 GHz
- Ram Usage: 14% | 2.22GiB (+1.13GiB +5.99GiB)
- File System Hdd: 11.5GiB
- Temp: 29 °C
- Network Public: ip
- Music Volume: 100%

Process List:

| Process | CPU | Mem | Private |
|-------------|-------|---------|---------|
| conky | 0.32% | 0.08% | 1.92GiB |
| conky | 0.11% | 0.08% | 1.21% |
| cinnamon | 0.12% | 2.70% | 1.33GiB |
| Xorg bin | 0.12% | 0.83% | 604MB |
| awk | 0.00% | 0.02% | 0.82% |
| cinnamon | 3.70% | 1.92GiB | |
| Finalizer | 1.21% | 2.23GiB | |
| gnome-shell | 0.50% | 1.33GiB | |
| Xorg bin | 0.89% | 604MB | |
| dropbox | 0.82% | 2.28GiB | |

System Summary:

- Processes: 206 (0 running)
- Threads: 5
- Connections: 1
- GPU: 40° C | 1113GHz

Network Activity:

| Read | Write | Receive | Send |
|------|-------|---------|------|
| 0B | 0B | 63B | 0B |

Temperature and Load:

| Temp | Load |
|-------|------|
| 30° C | 0.10 |
| 30° C | 0.26 |
| 30° C | 0.34 |

Time: 01:58:03⁰⁷ February 2015 Saturday

Conky Examples



Conky Config

```

${voffset 35}
${goto 95}${color4}${font ubuntu:size=22}${time %e}${color1}${offset -50}${font ubuntu:size=10}${time %A}
${goto 85}${color2}${voffset -2}${font ubuntu:size=9}${time %b}${voffset -2} ${color3}${font ubuntu:size=12}${time %Y}${font}

```

```

${voffset 80}
${goto 90}${font Ubuntu:size=7,weight:bold}${color}CPU
${goto 90}${font Ubuntu:size=7,weight:normal}${color1}${top name 1}${alignr}${top cpu 1}%
${goto 90}${font Ubuntu:size=7,weight:normal}${color2}${top name 2}${alignr}${top cpu 2}%
${goto 90}${font Ubuntu:size=7,weight:normal}${color3}${top name 3}${alignr}${top cpu 3}%
${goto 90}${cpugraph 10,100 666666 666666}
${goto 90}${voffset -10}${font Ubuntu:size=7,weight:normal}${color}${threads} process

```

```

${voffset 20}
${goto 90}${font Ubuntu:size=7,weight:bold}${color}MEM
${goto 90}${font Ubuntu:size=7,weight:normal}${color1}${top_mem name 1}${alignr}${top_mem mem 1}%
${goto 90}${font Ubuntu:size=7,weight:normal}${color2}${top_mem name 2}${alignr}${top_mem mem 2}%
${goto 90}${font Ubuntu:size=7,weight:normal}${color3}${top_mem name 3}${alignr}${top_mem mem 3}%

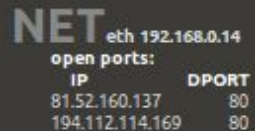
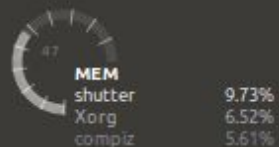
```

```

${voffset 15}
${goto 90}${font Ubuntu:size=7,weight:bold}${color}DISKS

```

<http://gnome-look.org/content/show.php/?content=137272>



Compton

Lightweight, standalone composite manager, suitable for use with window managers that do not natively provide compositing functionality. (Like i3wm)

Provides default inactive/active window opacity, window frame transparency, window background blur, window color inversion, painting rate throttling, VSync and more!

```
=====
#
#                               conkyrc_grey
#
# author   : SLK
# version  : v2011011601
# license  : Distributed under the terms of GNU GPL version 2 or la
#
#-----
background yes
update_interval 1

cpu_avg_samples 2
net_avg_samples 2
temperature_unit celsius

double_buffer yes
no_buffers yes
text_buffer_size 2048

gap_x 10
gap_y 30
minimum_size 190 450
maximum_width 190
own_window yes
own_window_type override
own_window_transparent yes
own_window_hints undecorate,sticky,skip_taskbar,skip_pager,below
border_inner_margin 0
border_outer_margin 0
alignment tr

draw_shades no
draw_outline no
draw_borders no
.
```

Without Compton

```
mark@mark-laptop: ~
File Edit View Search Terminal Help
mark@mark-laptop:~$
```

```
=====
#
#                               conkyrc_grey
#
# author   : SLK
# version  : v2011011601
# license  : Distributed under the terms of GNU GPL version 2 or later
#
#-----
background yes
update_interval 1

cpu_avg_samples 2
net_avg_samples 2
temperature_unit celsius

double_buffer yes
no_buffers yes
text_buffer_size 2048

gap_x 10
gap_y 30
minimum_size 190 450
maximum_width 190
own_window yes
own_window_type override
own_window_transparent yes
own_window_hints undecorate,sticky,skip_taskbar,skip_pager,below
border_inner_margin 0
border_outer_margin 0
alignment tr

draw_shades no
draw_outline no
draw_borders no
=====
```

With Compton

```
mark@mark-laptop: ~
File Edit View Search Terminal Help
mark@mark-laptop:~$ compton -c
```

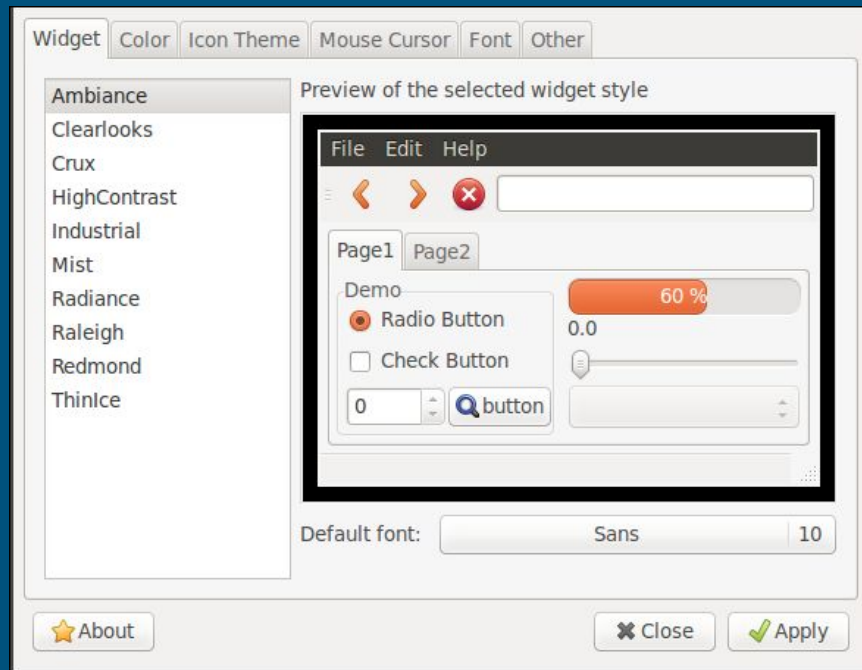
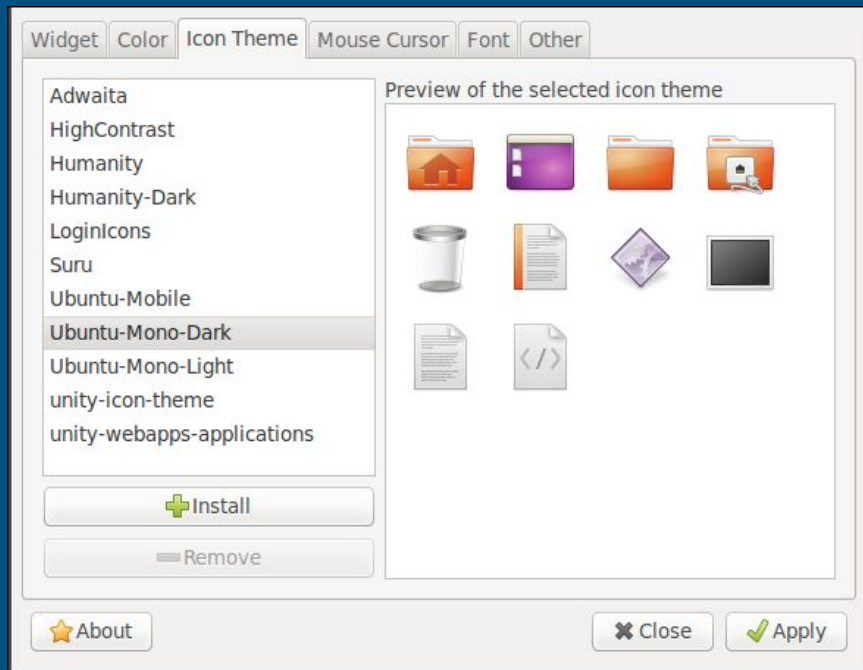

lxappearance

Despite its name, LXAppearance is not dependent on a specific window manager or desktop environment.

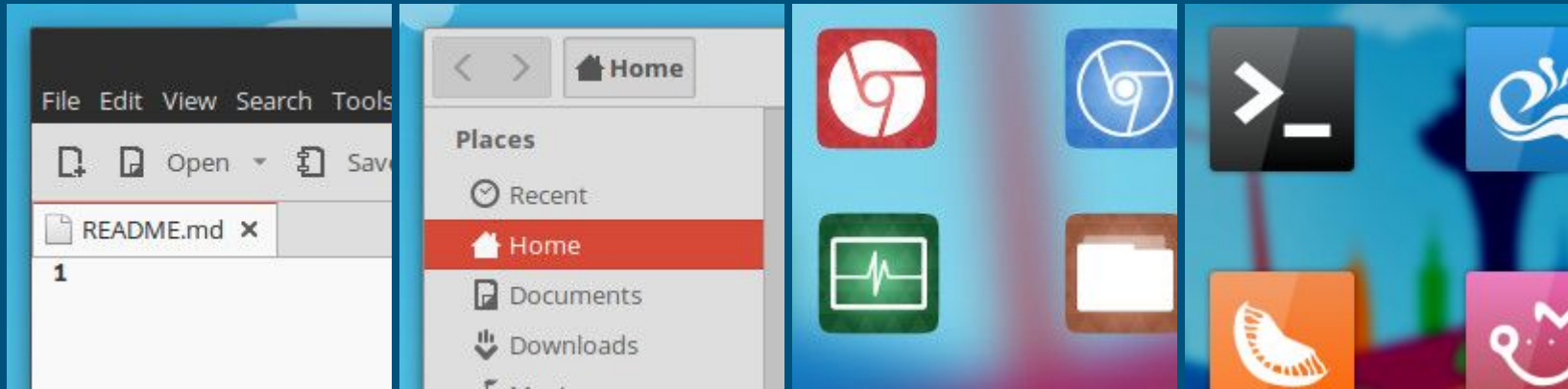
It writes the changes directly into `.gtkrc!`

Great for customizing any GTK+ based environment or anything that uses GTK themes

Theme and Icons - lxappearance



Example: Numix



Quick and easy to install:

```
sudo add-apt-repository ppa:numix/ppa
```

```
sudo apt-get install numix-gtk-theme
```

```
sudo apt-get install numix-icon-theme
```

<https://numixproject.org/>

<https://terminal.sexy/>

The screenshot displays the terminal.sexy web application interface, which is a terminal emulator with a dark theme. The interface is divided into several panels:

- Editor:** The main terminal window showing a JavaScript code snippet:

```
1 var _ = require('underscore');
2 var TransformStream = require('stream').Transform;
3
4 var tokenStream = function () {
5   var token = new Token();
6   var stream = TransformStream({ objectMode: true });
7
8   stream._transform = function (chunk, encoding, done) {
9     var output = token.write(chunk);
10    _.each(output, stream.push, stream);
11    done();
12  };
13
```
- Color Picker:** A panel for selecting colors, featuring a color wheel and a vertical color bar. It includes input fields for the hex code (currently #000000) and RGB values (R: 0, G: 0, B: 0).
- Settings:** A panel for configuring the terminal, including a grid of 14 color swatches for background (BG) and foreground (FG) colors, numbered 0 through 14. The current settings are BG: #1d1f21 and FG: #c5c8c6.
- Template Browser:** A panel for selecting a terminal template, showing a list of templates: /tig/, vim/, and misc/.
- Import/Export:** A panel for managing terminal schemes, including a "Format" dropdown set to "Xresources" and an "Import" button.

The interface also includes a top navigation bar with "About", "Open Window", and "Workspace Layout" options, and a bottom status bar showing the current template: "/tig/".

themer.edit

Generate a system theme based off an image.

<https://github.com/suhmedoh/themer.edit>

Usage: `./themer.py -l generate i3_theme ~/i3_bg.png`

Created by a /r/unixporn user

My Personal Config

`feh --bg-scale $HOME/.i3/bgimage.jpg` : simple image viewer that can also set the x11 'desktop' background

`compton --backend glx --paint-on-overlay --glx-no-stencil --vsync opengl-swc -b -C -f -D 3` : This is the Compton config that I run (minus the fade effects...)