```
[andrew@aps ~] cat talk_title.txt
```



```
[andrew@aps ~]|
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] cat whoami.txt | cowsay


  _____
 / Manjaro & Fedora w/ Awesome      \
 |                                   |
 | twitter: @verdnaa                 |
 | github:  ar-calder                |
 | year:      4                      |
 |                                   |
 \ https://arcalder.uk              /
  -----------------------------------
          \    ^__^
           \  (oo)_____
              (__)\       )\/\
                  ||----w |
                  ||     ||
```

```
[andrew@aps ~]cat ricing.txt
"Ricing comes from the car terminology "ricing" or "RICEing". In the car world, RICE stands
for Race Inspired Cosmetic Enhancement. When you put a scoop on your car (that doesn't lead
to a cold air intake) or a big spoiler (which won't make a difference), you're ricing. The
idea is to increase its perceived performance through cosmetics."
--/r/unixporn/comments/3iy3wd


[andrew@aps ~] ls linux_customisation/
desktop_environments.txt
window_managers.txt
launchers.txt
aliases.txt
file_managers.txt
browsers.txt
media.txt
terminals.txt

# comments usually in this colour


[andrew@aps ~]|
```
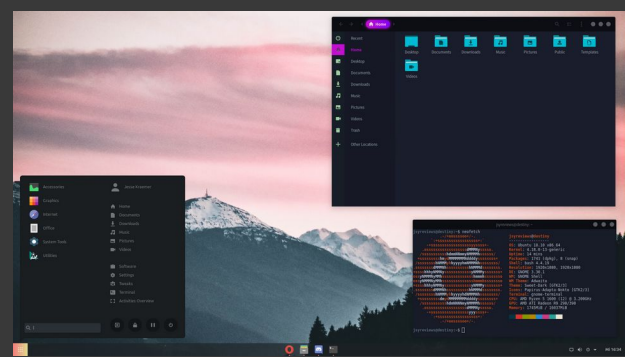
```
[andrew@aps ~] cat desktop_environments.txt


 ___                 _      _
|   \   ___  ___ ___| |_ __| |_   ___  ___
| |) | / -_)(_-</ -_)  _/ _ \  _|/ _ \ | \ \
|___/  \___//__/\___|\_\__/_\\_\/ ___/|  _/
                                      |_|


 ___                         _
| __|  _ ___ __ __(_)_ _ ___  _ _  _ __  ___  _ _  _| |_  ___
| _| | ' \\ V /| || '_/ _ \| ' \| '  \/ -_)| ' \|  _|(_-<
|___||_||_|\_/ |_||_| \___/|_||_|_|_|_\___||_||_|\__|/__/


[andrew@aps ~]|
```

[andrew@aps ~] cat desktop_environments_1
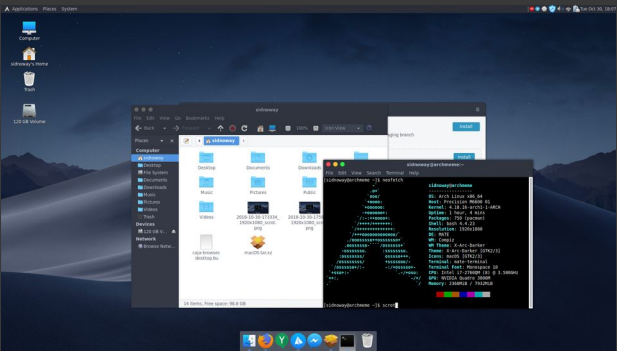GNOME3 - very modern, simple, *and a total ram whore*
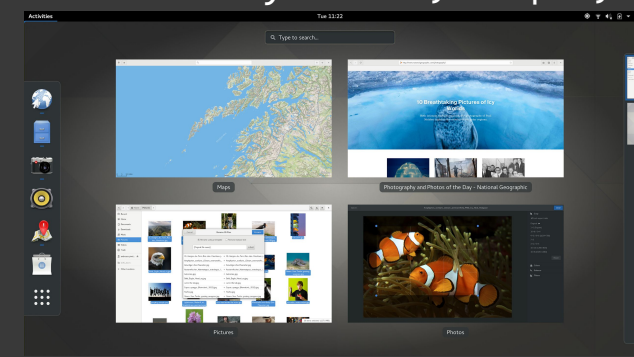
CINNAMON - a fork of gnome3 that is made to look somewhat like gnome2
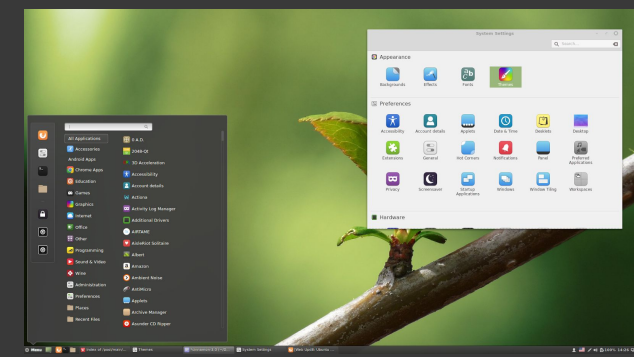
[andrew@aps ~]|

[andrew@aps ~] cat desktop_environments_2
MATE - "a logical continuation of gnome2"
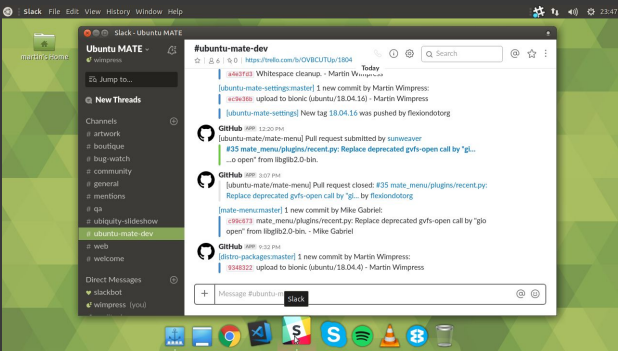
XFCE - fast and light-weight, w/ a really fucking ugly default theme
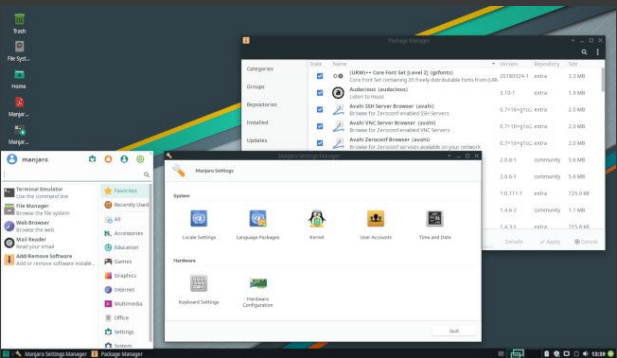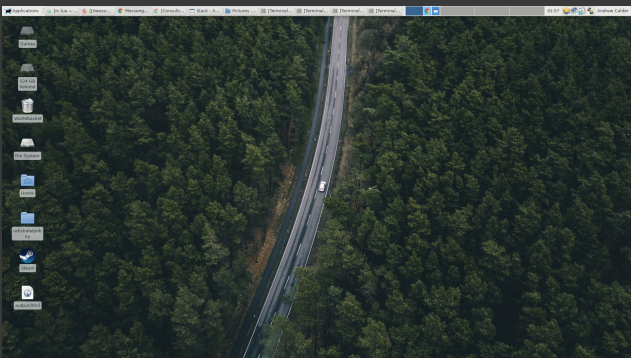
[andrew@aps ~]|

[andrew@aps ~] cat desktop_environments_3
KDE - very modern, flexible, *and reasonable with system resources*
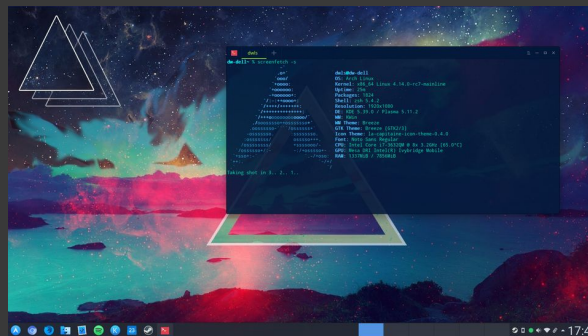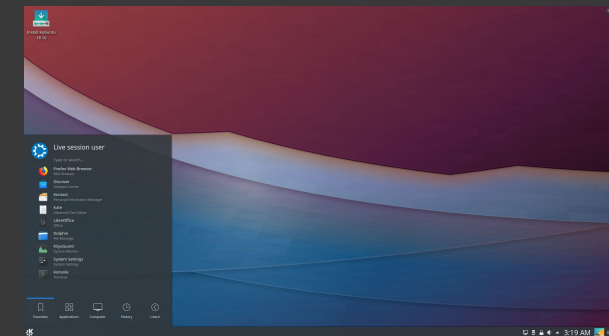
DEEPIN - very modern, flexible, beautiful desktop -*but possibly chinese spyware*

*you can't really *cat* images (Also I forgot about openbox sorry)
[andrew@aps ~]|

```
[andrew@aps ~] cat de_summaries.txt


# Doesn't really matter what environment or distro you use all offer theming/configuration.

# Some rely on plugins, extensions or tweaks to make noticeable differences, others have
# grizzly config files.

Gnome-based: .Xresources, <file>.theme, gtk-2/3.0, extensions, gnome-look.org
XFCE:        .Xresources, <file>.theme, gtk-3.0, xfce-look.org
KDE:         .Xresources, <file>.theme, gtk-3.0, store.kde.org
DEEPIN:      .Xresources, <file>.theme, gtk-3.0, *apparently works w/ store.kde.org themes

# For a lot of these config files my goto's are terminal.sexy & themix-project/oomox


[andrew@aps ~]|
```

[andrew@aps ~] qutebrowser https://terminal.sexy

terminal.sexy

About   Open Window   Workspace Layout

BG	FG
#1d1f21	#c5c8c6

0	8
#282a2e	#373b41

1	9
#a54242	#cc6666

2	10
#8c9440	#b5bd68

3	11
#de935f	#f0c674

4	12
#5f819d	#81a2be

5	13
#85678f	#b294bb

6	14
#5e8d87	#8abeb7

7	15
#707880	#c5c8c6

Color Picker ✕   Randomiser ✕

\# 000000

R: 0
G: 0
B: 0
H: 0
S: 0
B: 0

Template: /vim/default/python ✕   Template: /vim/default/c++ ✕

```python
def dump_args(func):
    "This decorator dumps out the arguments passed to a function before calling it"
    argnames = func.func_code.co_varnames[:func.func_code.co_argcount]
    fname = func.func_name
    def echo_func(*args,**kwargs):
        print fname, ":", ', '.join(
            '%s=%r' % entry
            for entry in zip(argnames,args) + kwargs.items())
        return func(*args, **kwargs)
    return echo_func

@dump_args
def f1(a,b,c):
    print a + b + c

f1(1, 2, 3)

def precondition(precondition, use_conditions=DEFAULT_ON):
```

Background: bg Foreground: 130

Import ✕   Export ✕   Scheme Browser ✕   Save Scheme ✕

base16/
collection/
xcolors.net/

3024.dark
3024.light
ashes.dark
ashes.light
atelierdune.dark
atelierdune.light
atelierforest.dark
atelierforest.light
atelierheath.dark
atelierheath.light
atelierlakeside.dark
atelierlakeside.light
atelierseaside.dark

/base16/

Template Browser ✕   Import Template ✕

misc/
tig/
vim/

columns
rows

/misc/

[andrew@aps ~]|

```
[andrew@aps ~] cat window_managers.txt


 __          __  _              _
 \ \        / / (_)          | |
  \ \  /\  / /   _   _ __    __| |   ___   __      __
   \ \/  \/ /   | | | '_ \  / _` |  / _ \  \ \ /\ / /
    \  /\  /    | | | | | || (_| | | (_) |  \ V  V /
     \/  \/     |_| |_| |_| \__,_|  \___/    \_/\_/


  __  __
 |  \/  |   __ _   _ __     __ _    __ _    ___   _ __   ___
 | |\/| |  / _` | | '_ \   / _` |  / _` |  / _ \ | '__| / __|
 | |  | | | (_| | | | | | | (_| | | (_| | |  __/ | |    \__ \
 |_|  |_|  \__,_| |_| |_|  \__,_|  \__, |  \___| |_|    |___/
                                    __/ |
                                   |___/


[andrew@aps ~]|
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] cat wm_summaries.txt
/*


i3 (& i3-gaps) - a fast & theme-able, dynamic tiling wm [c] *keybindings
 -  super popular, good for most users but rather rigid in design (i3 often looks like i3)

awesome - a highly configurable, extensible, dynamic tiling wm [lua]
 -  can do some awesome things with this one, the api is awful, config is a bit long-winded

dwm - a tiny (<2000 LOC), somewhat configurable, dynamic tiling wm [c]
 -  customized through editing its source code, no weird config files formats - just c

xmonad - a superfast & configurable, dynamic tiling wm [haskell]
 -  glhf unless you know haskell

qtile - a 'hackable' theme-able, dynamic tiling wm [python]
 -  Not as stable as others, but easy to extend functionality

*/

[andrew@aps ~]|
```

File Edit View Terminal Tabs Help

[andrew@aps ~] qutebrowser https://reddit.com/r/unixporn/top/?t=all
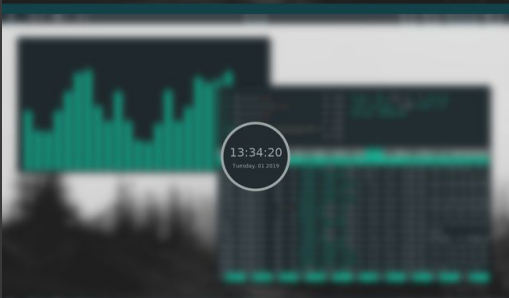
awesome, i3, & dwm

[andrew@aps ~]|

```
[andrew@aps ~] cat launchers_and_switchers.txt


  _                        _            _____
 | |    __ _ _   _ _ __   | |__   ___  (_)  _  __
 | |   / _` | | | | '_ \  | '_ \ / _ \ | | (_) / _\
 | |__| (_| | |_| | | | | | | | |  __/ | | (_> <
 |_____,_|_|   |_| |_| |_| |_|\___| |_|  \___/\_\

  ____       _ _       _
 / ___|     (_) |_ ___| |__   ___  _ __ ___
 \___ \ \ \ / / | __/ __| '_ \ / _ \| '__/ __|
  ___) | \ V /| | || (__| | | |  __/| | \__ \
 |____/ \_/\_/|_|\__\___|_| |_|\___||_|  |___/


[andrew@aps ~]|
```

[andrew@aps ~] cat launchers.txt # (And window switchers)
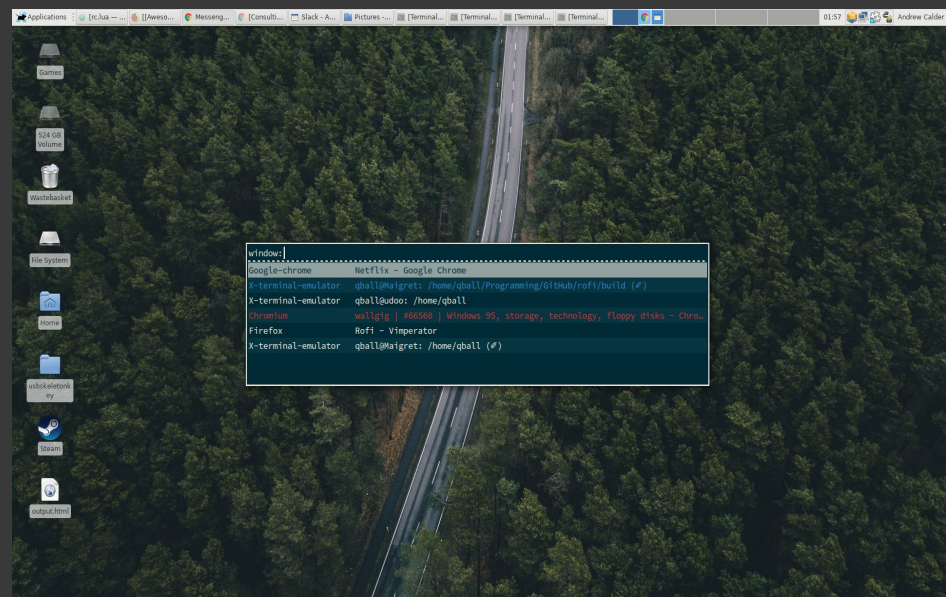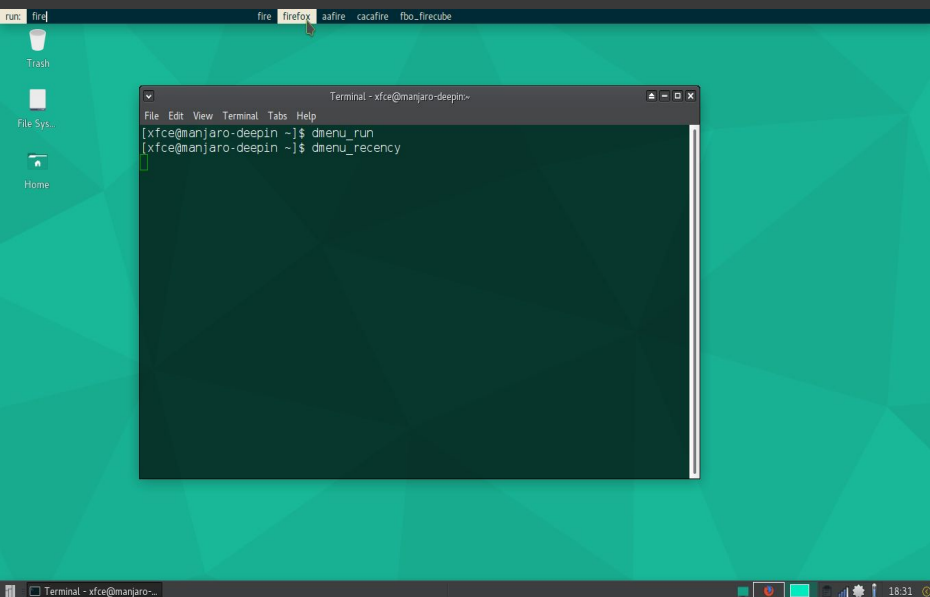
Left - Dmenu (top right), Right - rofi (Centre)
Launchers offer a fast easy way to ... launch applications, but they can also be configured to do other cool shit too.

You could have a version to search **stackoverflow** using https://stackoverflow.com/search?q=

[andrew@aps ~]|

File Edit View Terminal Tabs Help

```
[andrew@aps ~]        cat search_stackoverflow.sh
# Search stack overflow
URL='https://stackoverflow.com/search?q='
SEARCH=$(echo '' | dmenu -p "Search Stack Overflow:" -b)
# Ignore if no search specified
if [ -n "$SEARCH" ] ; then
  xdg-open "${URL}${SEARCH}" > /dev/null 2>&1
fi

[andrew@aps ~] cat search_cppref.sh
# Search cpp reference
URL='https://en.cppreference.com/mwiki/index.php?search='
SEARCH=$(echo '' | dmenu -p "Search Stack Overflow:" -b)
# Ignore if no search specified
if [ -n "$SEARCH" ] ; then
  xdg-open "${URL}${SEARCH}" > /dev/null 2>&1
fi

# You could of course do this with pretty much anything, here's two alts:
URL='https://www.youtube.com/results?search_query='
URL='https://duckduckgo.com/?q='
[andrew@aps ~]|
```

```
[andrew@aps ~] cat aliases.txt

             _____
           / _ \| ()
  _ _ _   / /_\ \ |_____ ___ ___ ___
 |_| |_| |  _  | |/ _` / __|/ _ \/ __|
 |_| |_| | | | | | (_| \__ \  __/\__ \
  \_| |_/\_| |_/_|\__,_|___/\___||___/

[andrew@aps ~]|
```

```
[andrew@aps ~] cat alias_intro.txt
# What is an alias?
alias nickname='command'

# But you can also use them like this
alias nickname='command1; command2; command3'

# Usually not permanent unless
printf "\nalias nickname='command'" >> ~/.bashrc

# Add this to your ~/.bashrc
# This allows you to seperate your aliases from the rest of bashrc (readability)
if [ -f ~/.bash_aliases ]; then
    # if External Aliases File exists, include it
    . ~/.bash_aliases
fi

# Then can just be used like
printf "\nalias nickname='command'" >> ~/.bash_aliases
# Could permanent aliases be aliased?

[andrew@aps ~]|
```

```
[andrew@aps ~] cat aliases.txt #other_cool_shit

# if you wanted an ailas 'adda' to easily create other alias...
printf "alias adda='printf \"\\\n alias %%s\">> .bash_aliases'\n" >> .bash_aliases

# Or to get your external ip...
adda myip='curl http://icanhazip.com; echo'

# Or to copy file contents to clipboard | usage: cpcb <file> or echo "thing" | cpb
alias cpcb='xclip -selection clipboard'
# Or to print clipboard contents
alias pcb='xclip -selection primary -o'

# Or to capture/record screen 1
alias screencap="echo 'capturing screen 1, q to quit...' && ffmpeg -loglevel panic
-video_size $(xrandr |grep \* | gawk 'NR==1{print $1}') -framerate 30 -hwaccel auto -f
x11grab -i :1.0 screencap-$(date +%F-%H-%M-%S).mp4 && mv screencap* ~/Videos/"

# Or to launch firefox with proxy settings for burp
alias burpfox='firefox -P burp -no-remote'

[andrew@aps ~]|
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] cat bash_aliases_function.sh #other_cool_shit
#!/usr/bin/env bash
alias | gawk -F'[ =]' '{print $2}'

[andrew@aps ~] rofi -show run -run-list-command ". ~/bash_aliases_function.sh" -run-command
"/bin/bash -i -c '{cmd}'" -rnow # This allows you to see aliases in rofi :)

[andrew@aps ~] cat burpfox_setup.sh
#!/usr/bin/env bash

# Create & configure firefox profiles
firefox -CreateProfile burp -no-remote; firefox -CreateProfile default -no-remote;
# The gnarliness below searches prefs and sets proxy type to 1.
sed -i -e 's/user_pref("network.proxy.type", 0)/user_pref("network.proxy.type", 1)/g'
~/.mozilla/firefox/*.burp/prefs.js

# Add burp specific instance instance to .bash_aliases
printf "\n alias burpfox='firefox -P burp -no-remote' ">> .bash_aliases
# Make firefox alias for launch 'default' instance
printf "\n alias firefox='firefox -P default -no-remote' ">> .bash_aliases
printf "Now launch 'burpfox' and setup proxy -settings will remain"
[andrew@aps ~]|
```

```
[andrew@aps ~] cat file_managers.txt
```

```
 _____ _ _
|  ___(_) | ___
| |_  | | |/ _ \
|  _| | | |  __/
|_|   |_|_|\___|


 __  __
|  \/  | __ _ _ __   __ _  __ _  ___ _ __ ___
| |\/| |/ _` | '_ \ / _` |/ _` |/ _ \ '__/ __|
| |  | | (_| | | | | (_| | (_| |  __/ |  \__ \
|_|  |_|\__,_|_| |_|\__,_|\__, |\___|_|  |___/
                          |___/
```

```
[andrew@aps ~]|
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] /home/andrew/Exploit Development # pip install ranger
 andrew        Android              1    AdvGen.pl
                Books               13    calcGen.pl
                BurpSuiteCommunity    7    depCalcGen.pl
                crash                ?    DisToEIP.pl
                Desktop              3    m3uPattern2500.pl
                Documents            6    overflowTestGen.pl
                dotfiles             9    ropTestGen.pl
                Downloads           23    SkinCrashGen.pl
                Exploit Development  11    SkinDistToEIP.pl
                FedoraDev            3    SkinDistToEnd.pl
                FedoraThings         5    testGen.pl
                Music                0
                Pictures           183
                Public               0
                PycharmProjects      3
                Templates            0
                Videos              20
                bash_aliases_funct~.sh 54 B
                my-abrtactionsav.pp   1.1 K
drwxr-xr-x 2 andrew andrew 11 2018-05-10 03:17   143K sum, 12.4G free  9/24  Top
[andrew@aps ~]| # This is a terminal file manager called ranger [python]
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] fff # https://github.com/dylanaraps/fff
Desktop/
Documents/
Downloads/
Music/
Pictures/
Public/
Templates/
Videos/
random




(3/9) /home/andrew
[andrew@aps ~]|# This is a terminal file manager called fucking fast file-manager(fff)
```

```
[andrew@aps ~] cat browsers.txt
  _____
 |  _  \
 | |_/ / _ __   ___  __      __ ___   ___  _ __  ___
 | ___ \| '__| / _ \ \ \ /\ / // __| / _ \| '__|/ __|
 | |_/ /| |   | (_) | \ V  V / \__ \|  __/| |   \__ \
 \____/ |_|    \___/   \_/\_/  |___/ \___||_|   |___/

[andrew@aps ~]|
```

```
[andrew@aps ~] cat browsers.txt
```


DuckDuckGo — Privacy, simplified. - qutebrowser

1: DuckDuckGo — Privacy, simplified.

DuckDuckGo

The search engine that doesn't track you. Help Spread DuckDuckGo!

https://start.duckduckgo.com/ [top] [1/1]

DuckDuckGo — Privacy, simplified. - qutebrowser

1: DuckDuckGo — Privacy, simplified.

DuckDuckGo

Commands		
open	Open a URL in the current/[count]th tab.	
open-editor	Open an external editor with the currently selected form fie⅂	
config-cycle	Cycle an option between multiple values.	
config-edit	Open the config.py file in the editor.	
config-unset	Unset an option.	
download-open	Open the last/[count]th download.	
edit-command	Open an editor to modify the current command.	
home	Open main startpage in current tab.	<Ctrl+h>
navigate	Open typical prev/next links or navigate using the URL path.	
nop	Do nothing.	<Ctrl+Shift+Tab>
record-macro	Start or stop recording a macro.	q
restart	Restart qutebrowser while keeping existing tabs open.	
set	Set an option.	
stop	Stop loading in the current/[count]th tab.	<Ctrl+s>

:op

https://start.duckduckgo.com/ [top] [1/1]

```
# This is a qt-based browser called qutebrowser, can customize things such keybindings and
theme, and even add your own commands
[andrew@aps ~]
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] cat browsers.txt
# Chrome, firefox (and probably most other browsers) have launch options.
# Firefox has a fuck tonne of options for webdev, chrome is pretty minimal.


# Private browsing Chrome              # Private browsing Firefox
google-chrome --incognito             firefox --private-window


# Select profile                      # Select profile
google-chrome --user-data-dir <path>  firefox --profile <path>


# Select proxy                        # No dedicated env override - must set in profile
google-chrome --proxy-server=host:port
#^ Chrome obeys env such as https_proxy   #^ Firefox should obey env such as https_proxy


# No search options                   # Search with default search engine
                                      firefox --search <query>

# Doesn't even search as url fallback  # No search fallback, but will try <query>.com


# Should know by now, but in case you don't; find all these options and more with…
man google-chrome                     man firefox


[andrew@aps ~]|
```

```
[andrew@aps ~] cat media.txt


 __  __          _ _
|  \/  | ___  __| (_) __ _
| |\/| |/ _ \/ _` | |/ _` |
| |  | |  __/ (_| | | (_| |
|_|  |_|\___|\__,_|_|\__,_|


// TODO look at mplayer, youtube-dl, etc...

[andrew@aps ~]|
```

```
File Edit View Terminal Tabs Help

[andrew@aps ~] cat terminals.txt




 ___                 _           _
|_ _|               (_)         | |
 | | ___ _ __ _ __ ___ _ __   __ _| |___
 | |/ _ \ '__| '_ ` _ \| | '_ \ / _` | / __|
 | |  __/ |  | | | | | | | | | | (_| | \__ \
 \_/\___|_|  |_| |_| |_|_|_| |_|\__,_|_|___/



[andrew@aps ~]|
```

```
[andrew@aps ~] cat terminals.txt
```

```
 _      _ _                  _ _
| |    (_) |                | | |                  _   _ ___ ___
| |     _| |_ ___ _ __ __ _ | | |_   _   _   _ ___ ___
| |    | | __/ _ \ '__/ _` || | | | | | | | / __/ _ \
| |____| | ||  __/ | | (_| || | | |_| | | |_\__ \  __/
|_____|_|\__\___|_|  \__,_||_|_|\__, |  \__,___|
                                  __/ |
                                 |___/

 _         _     _                                        _ _        _
| |    _  (_)   | |                                  (_) | | |
| | |  | | | |__  _  ___| |__   _____   _____ _ __   ___ _   _| | |_ ___| |
\ \ /\ / /| '_ \| |/ __| '_ \ / _ \ \ / / _ \ '__| / __| | | | | __/ __| |
 \ V  V / | | | | | (__| | | |  __/\ V /  __/ |    \__ \ |_| | | |_\__ \_|
  \_/\_/  |_| |_|_|\___|_| |_|\___| \_/ \___|_|    |___/\__,_|_|\__|___(_)
```

But you might want to try urxvt, kitty, or konsole - among others (ask around)

```
[andrew@aps ~]|
```

```
[andrew@aps ~] cat other_cool_shit.txt

  ___  _   _
 / _ \| |_| |__   ___ _ __
| | | | __| '_ \ / _ \ '__|
| |_| | |_| | | |  __/ |
 \___/ \__|_| |_|\___|_|

  ____            _  ____  _     _ _
 / ___|___   ___ | |/ ___|| |__ (_) |_
| |   / _ \ / _ \| |\___ \| '_ \| | __|
| |__| (_) | (_) | | ___) | | | | | |_
 _____/ \___/|_||____/|_| |_|_|\__|

[andrew@aps ~]|
```

```
[andrew@aps ~] cat ansi_set_graphics_mode.txt
# Order/inclusion of attributes doesn't actually matter
\033[<text attribute>;<fg colour>;<bg colour>m
0 none            30 black      40 black
1 bold            31 red        41 red
4 underline       32 green      42 green
5 blink           33 yellow     43 yellow
7 reverse         34 blue       44 blue
8 conceal         35 magenta    45 magenta
                  36 cyan       46 cyan
                  37 white      47 white

# blinking red/green 'readabletext'
[andrew@aps ~] printf "\033[5;31;42m%s\033[5;41;32m%s\n" "readable" "text"
readabletext


# clear all previous text formatting
[andrew@aps ~] printf "%s\033[0m%s\n" "and" " unfucking it"
and unfucking it


# How you might want to use it
red(){printf "\033[31m%s\033[0m"}; bold(){printf "\033[1m%s\033[0m"}; red $(bold "a")
[andrew@aps ~]|
```

```
[andrew@aps ~]   cat ansi_set_graphics_mode.txt
Order/inclusion of attributes doesn't actually matter
\033[<text attribute>;<fg colour>;<bg colour>m
0 none   30 black   40 black
1 bold   31 red   41 red
4 underline   32 green   42 green
5 blink   33 yellow   43 yellow
7 reverse   34 blue   44 blue
8 conceal   35 magenta   45 magenta
                    36 cyan   46 cyan
                    37 white   47 white

How you might want to use it, really useful in debugging python
[andrew@aps ~] red() { printf "\033[31m%s\033[0m" "$1" ; };
[andrew@aps ~] bold() { printf "\033[1m%s\033[0m" "$1" ; };
[andrew@aps ~] red "$(bold 'And just like that we have bold red text')" && echo
And just like that we have bold red text

[andrew@aps ~]|
```

File Edit View Terminal Tabs Help

[andrew@aps ~]        neofetch

```
          /:-------------:\          andrew@localhost.localdomain
       :-------------------::        -----------------------------
     :-----------/shhOHbmp---:\      OS: Fedora release 28 (Twenty Eight) x86_6
   /-----------omMMMNNNMMD  ---:     Host: MS-7A32 1.0
   :-----------sMMMMNMNMP.    ---:   Kernel: 4.19.3-200.fc28.x86_64
  :-----------:MMMdP-------    ---\  Uptime: 9000 hours, 1 mins
 ,------------:MMMd--------    ---:  Packages: 2679
 :------------:MMMd-------    .---:  Shell: bash 4.4.23
 :----     oNMMMMMMMMMNho     .----: Resolution: 1920x1080, 1920x1080
 :--     .+shhhMMMmhhy++   .------/  DE: Xfce
 :-    -------:MMMd--------------:   WM: Xfwm4
 :-   -------/MMMd-------------;     WM Theme: Default
 :-    ------/hMMMy------------:     Theme: Adwaita [GTK2], Ant-Bloody [GTK3]
 :-- :dMNdhhdNMMNo-----------;       Icons: Fedora [GTK2], Paper [GTK3]
 :---:sdNMMMMNds:------------:       Terminal: xfce4-terminal
 :------::://:-------------::        Terminal Font: Monospace 12
 :---------------------://           CPU: AMD Ryzen 7 1700 (16) @ 3.300GHz
                                     GPU: NVIDIA GeForce GTX 980 Ti
                                     Memory: 3683MiB / 16043MiB
```
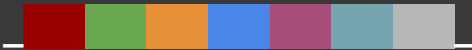
[andrew@aps ~]|

```
[andrew@aps ~]        Alias blurlock='ffmpeg -f x11grab -video_size 1920x1080 -y -i $DISPLAY
-i ~/dotfiles/lock.png -filter_complex "boxblur=3:1,
overlay=(main_w-overlay_w)/2:(main_h-overlay_h)/2" -vframes 1 ~/.tmp.png && i3lock -i
~/.tmp.png'




// Ran out of time for this one









[andrew@aps ~]|
```

```
[andrew@aps ~] cat last_slide.txt
```



```
[andrew@aps ~] sudo shutdown now
```