System Notes

Grace Han

TO DO: colour code AUR vs arch package rethink formatting?

Rules

1. Always think carefully before installation
2. Never keep a cluttered system
3. Use a virtual environment when you think there may be conflicts
4. Understand commands before running them, that is - opt for man 'xyz' over some random command from the internet

Configuration Files

1. ~/.vimrc
2. ~/.config/i3/config
3. ~/.config/i3/i3status.conf
4. ~/.Xresources
5. ~/.Xinitrc
6. ~/.Xdefaults
7. ~/.bashrc
8. ~/.zshrc

System configuration

Multimedia keys

- Install package **light** from the AUR
- add `bindsym XF86MonBrightnessUp exec light -A 1` and `bindsym XF86MonBrightnessDown exec light -U 1` to ~**/.config/i3/config**

Performance management

- *TLP*
- *Powertop*
- *BBSwitch & Bumblebee*

Programming Languages

Python

- Install **python-virtualenvwrapper** from the AUR
- add `export WORKON_HOME=~/.virtualenvs source /usr/bin/virtualenvwrapper.sh` to ~**./zshrc**

- reload shell

creating a new virtual env

- cd to the project and run `mkvirtualenv [project name]`
- `workon` will show the list of virtual environments, empty if none
- run `workon [project name]` to enter project virtual environment
- run `deactivate` to exit
- run "rmvirtualenv [project name]"' to remove virtual environment and project ## Java Jdk, Jvm

R

- Install Rstudio from AUR
- Then run:

`sudo R`

`install.packages("rmarkdown")`

- To compile rmarkdown to pdf install AUR package: **pandoc-citeproc**
- For python code snippets that execute install R package **reticulate**
- Note that `install.packages()` requires the package **tk** to be installed You will see the error: `Error: .onLoad failed in loadNamespace() for 'tcltk', details (...)`

Other configuration

urxvt

- install font packages (ttf-dejavu)
- fix encoding

zsh

- install zsh package
- make default shell using

  `chsh -s $(which zsh)`

- log out and in again

- run zsh configuration tool

- install **oh my zsh** using:

  `sh -c "$(curl -fsSL https://raw.githubusercontent.com/robbyrussell/oh-my-zsh/master/tools/install.s`

mupdf & zathura

- install **mupdf** package and **zathura** from the AUR
- then install the **zathura-pdf-mupdf** from the AUR

ranger

- install **ranger** package
- install **w3m** package
- add `set preview_images true` to: ~/**.config/ranger/rc.conf**

feh

- install **feh**
- add `exec --no-startup-id ~/.fehbg` to ~/**.config/i3/config** to make the wallpaper persistent through restart

libreoffice

TeX

- install *texlive* package

- *AUR package manager* Install one of these, using trizen

- *feh* Install

- *ranger* Install, set up image preview with w3m

- *i3Status* Install package, set config file path in i3 config file

- *Compton* Install compton, apply config

- *rofi*

- *xbindkeys* for the media keys

- *i3lock*

Dependencies

- xorg-xrandr
- xorg-xmodmap
- compton
- pulse audio
- git
- vundle
- xbindkeys
- alsa
- light
- intel xf86-video-intel(?)

Applications

- vscode
- ranger
- vim
- neofetch

- mupdf/zathura
- pycharm/intellij
- Rstudio, Rmarkdown, R
- Latex, texmaker
- zsh
- gparted
- chrome
- transmission cli
- libreoffice?
- vlc/mpv
- lightscreen
- sublime
- weechat?
- ncmpcpp, mpd