Graphics (X11)

X Server

Links

- ArchWiki: libinput
- Stack Exchange: Difference between .xinitrc, .xsession and .xsessionrc

Commands

- *X* server resource database utility: `xrdb`
- list all input devices: `xinput list`
- list properties of an input device: `xinput –list-props 16`
- show *X* events (for example to see keycodes): `xev`

Files

- `/usr/share/X11/xorg.conf.d`: server configuration
- `~/.xinitrc`: environment from `xinit` (`startx`)
- `~/.xprofile`: environment of display manager, for example *XFCE*
- `~/.xsessionrc`: executed on MX/Debian/Ubuntu GUI login



Creating a symlink might be a good idea:

```
ln -s .xinitrc .xsessionrc
```

Mouse

- reddit: Mouse speed in XFCE (libinput)
- StackExchange: How to change mouse speed/sensitivity?
- Patrick Mylund Nielsen: Lowering Mouse Sensitivity in Ubuntu and Fedora
- Nitesh Kumar: How to Change Mouse and Touchpad Settings Using Xinput in Linux

Mad Catz /R.A.T./ 7 mouse

X server configuration in `/usr/share/X11/xorg.conf.d/20-rat7.conf`

```
# Edited by Ralf Hoppe <ralf@dfcgen.de>
# originally from https://community.linuxmint.com/hardware/view/10217
```

```
Section "InputClass"
Identifier "R.A.T."
MatchProduct "R.A.T.7"
MatchDevicePath "/dev/input/event*"
#
#
https://delightlylinux.wordpress.com/2012/03/07/using-the-cyborg-r-a-t-7-wit
h-ubuntu/
# https://askubuntu.com/questions/331508/buttonmapping-positional-parameters
# ftp://ftp.x.org/pub/current/doc/mouse.txt
Option "Buttons" "17"
# 1  left button
# 2  middle button
# 3  right button
# 4,5 neg/pos wheel
# 6,7 is the left/right wheel (see "ZAxisMapping")
# 8,9 thumb rest buttons
# 12 precision aim button
# 17 DPI settings button
Option "ButtonMapping" "1 2 3 4 5 0 0 8 9 7 6 12 0 0 0 16 17"
#         Option "ButtonMapping" "1 2 3 4 5 6 7 2 9 10 11 12 0 0 0"
Option "AutoReleaseButtons" "13 14 15"
# 4,5 is the typ. scroll wheel
# 6,7 is the left/right wheel
Option "ZAxisMapping" "4 5 6 7"
Option "AccelSpeed" "-0.6"
EndSection
```

Monitor (Screens)

- screen control and info: `xrandr`
- screen adjustment: `xvidtune`

Keyboard

- interactive key assignments (in `~/.Xmodmap`): `xkeycaps`
- assign keycodes to keysyms: `xmodmap -e “keycode 86 = KP_Add”`

Fonts

- show matching fonts: `xlsfonts '*helvetica*'`
- interactive font selection: `xfontsel`

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