

# Free/Libre and Open Source Software

Lecture 8

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# Free/Libre and Open Source Software

## Lecture 8

### X-Window concepts

man X

```
DISPLAY      hostname:displaynumber.screennumber
GEOMETRY     WIDTHxHEIGHT+XOFF+YOFF
COLOR        <color_space_name>:<value>/.../<value>
```

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### X-Window fonts

xfontsel, xfd, xlsfonts – font related utilities

-adobe-courier-medium-?-normal--10-100-75-75-m-60-  
iso8859-\*

FontConfig – fc-cache, fc-list, fc-cat, fc-match

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### X-Window options

- display – name of the X server to use
- geometry – initial size and location of the window
- title – window title
- bg, -background, -fg color, -foreground – window background/foreground color
- fn, -font – font to use for displaying text
- name – name under which resources for the application should be found
- xrm – resource name and value to override any defaults

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### X-Window resources

obj.subobj[.subobj].attr: value

Obj – class name

obj – application name

XTerm\*Font: 6x10

emacs\*Background: rgb:5b/76/86

Placed at \$HOME/.Xdefaults or \$HOME/.Xresource

GNOME resource mangement – Gconf (gconf-editor,  
gconftool-2)

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### Xserver

X [option ...]

Options:

:displaynumber – default is 0

-fp fontPath – search path for fonts

-s minutes – screen-saver timeout time in minutes

-query hostname – enables XDMCP and sends Query packets to the specified hostname

-broadcast – enables XDMCP and broadcasts BroadcastQuery packets to the network

-indirect hostname – enables XDMCP and send IndirectQuery packets to the specified hostname

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### Xserver settings

xset - user preference utility for X

Options:

-display display – set display

q – current settings

[+|-]fp[+|-|=] path,... – set the font path for X-server, including font-server

fp default – font path to be reset to the server's default.

fp rehash – reset the font path to its current value (server reread the font databases in the current font path)

p – pixel color values

s – screen saver parameters

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### X-Window utilities

xterm - terminal emulator for X

xkill - kill a client by its X resource

xdpyinfo - display information utility for X

xwininfo - window information utility for X

xlsclients - list client applications running on a display

showrgb - display an rgb color-name database

appres - list X application resource database

xrdb - X server resource database utility

editres - a dynamic resource editor for X Toolkit applications

xsetroot - root window parameter setting utility for X

xev - print contents of X events

xmodmap - utility for modifying keymaps and pointer button mappings in X

setxkbmap - set the keyboard using the X Keyboard Extension

xrefresh - refresh all or part of an X screen