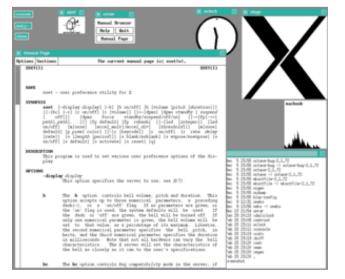
X or X11: "server" for graphical user interface

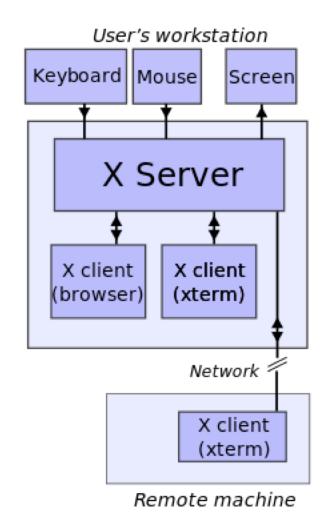
"startx" launches the server and the first "client" which is a "window manager" Many window managers out there



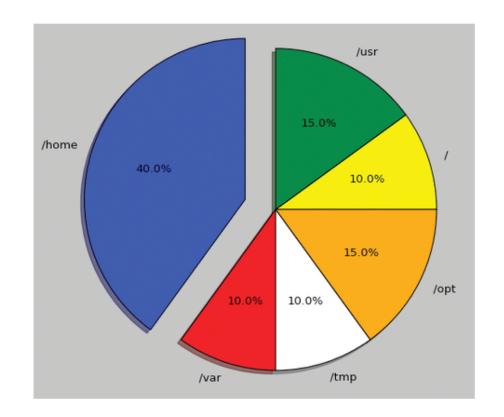
twm
One of the first



KDE A "modern" one



- "filesystem" starts with /
- Unlike Windows C:\ D:\ etc
- Underneath filesystem:
 - directories (folders)
- Some are real disks
 - EIDE disk/USB key/CD/DVD
- Some are a bit "fake"
- Disks can get "partitioned"
- Each partition (sort of) looks like a separate disk
- Different filesystem types
 - FAT (FAT16 FAT32 exFAT)
 MS DOS
 - NTFS
 MS Window
 - HFS old MAC
 - APFS new MAC
 - ext (ext2 ext3 ext4) Linux
 -



- Shells
 - bash sh csh tcsh zsh ksh
 - You are setup to use bash
- Commands:
 - command –option parameter
 - Command –option parameter
- In most (all?) cases invoking a command through the shell means running a program

- bin binaries..minimum set of syst. programs
- boot
 Stuff needed for system to boot ("kernel"
- dev devices...special directory
- etcSystem config files
- homeUser stuff
- lib
 Library files
- lost+found Broken files
- media
 DVDs, CDROM

- mnt
 Where you attach more stuff
- opt "optional" packages
- proc
 Processes...special directoy
- root
 Home directory of "superuser"
- run
 Used by system during boot time
- sbin
 Utilities for sysadmin
- srv
 Used by "servers"
- sys
 Used by kernel...special directory
- tmp Temporary junk
- usrMost other programs
- Var
 Where system normally writes stuff during operation

- Pathnames. Relative vs absolute. Meaning of ~ ("tilde")
- Make a text file with emacs
- Is cd pwd
- man info
- less more cat
- cp mv rm
- mkdir
- grep
- apropos
- alias
- which