X-Windows

It is networked windowing system. X-window follows network protocol. UNIX-WINDOWS.

Bob Scheifler & Jame Gettys gave GUI to Unix in 1984 from MIT called X-Windows. X-Protocol

All network protocols are based on ISO-OSI (International Standards Organization – Open System Interconnections)

ISO-OSI Layers:

Application

Presentation

Session

Transport

Network

Data Link

Physical

X-Windows Client

API

Xt – X-Toolkit

Xaw – Athena Widget(Windowing GUI elements)

Xview

Motif

QT – Quick toolkit

GDK – GENOME Development Kit (GNOME – GNU Network Object Model Environment)

X-lib (Client API Library)

X-Server

Window Manager   
(GNOME,  
KDE – K Desktop Environment),

X-Protocols

OS

Hardware

X-Server called as Xorg

XFree86

5 Imp graphics terminologies:

Rudimentory Driver:

Windows: VESA – Video Electronics Standards Associations

Linux: NOUVEAU (NVDIA)

Gallium(AMD)

MESA – Mathematics Engineering Science Achievement   
(Brain Poul)

Native Driver: Hardware company  
  
VA – Video Accelration

VDPAU: Video Decode And Presentation API for Unix

DRI – Direct Rendering Infrastructure

DRM – Direct Rendering Manager

Rudimentory Driver for Mobile:

MALI -> LIMA

Freedreno

Port : 6000

4 Packets in Xserver:

NDP – Network Data Packet

Request – Response – Event – Error