

# LPIC-1 102-400 – Lesson 4

## 106.2 Graphical Desktops



# Graphical Desktop Environments

- A *Graphical Desktop Environment* is a collection of applications, themes, icons, windows, wallpapers with a distinct user interface.
- Another terminology used is *Graphical Shell*
- There are numerous Graphical Environments for Linux some full-featured and customizable, some light and basic.
- All these Desktop Environments need a graphical server to work, such as X11, or Wayland.

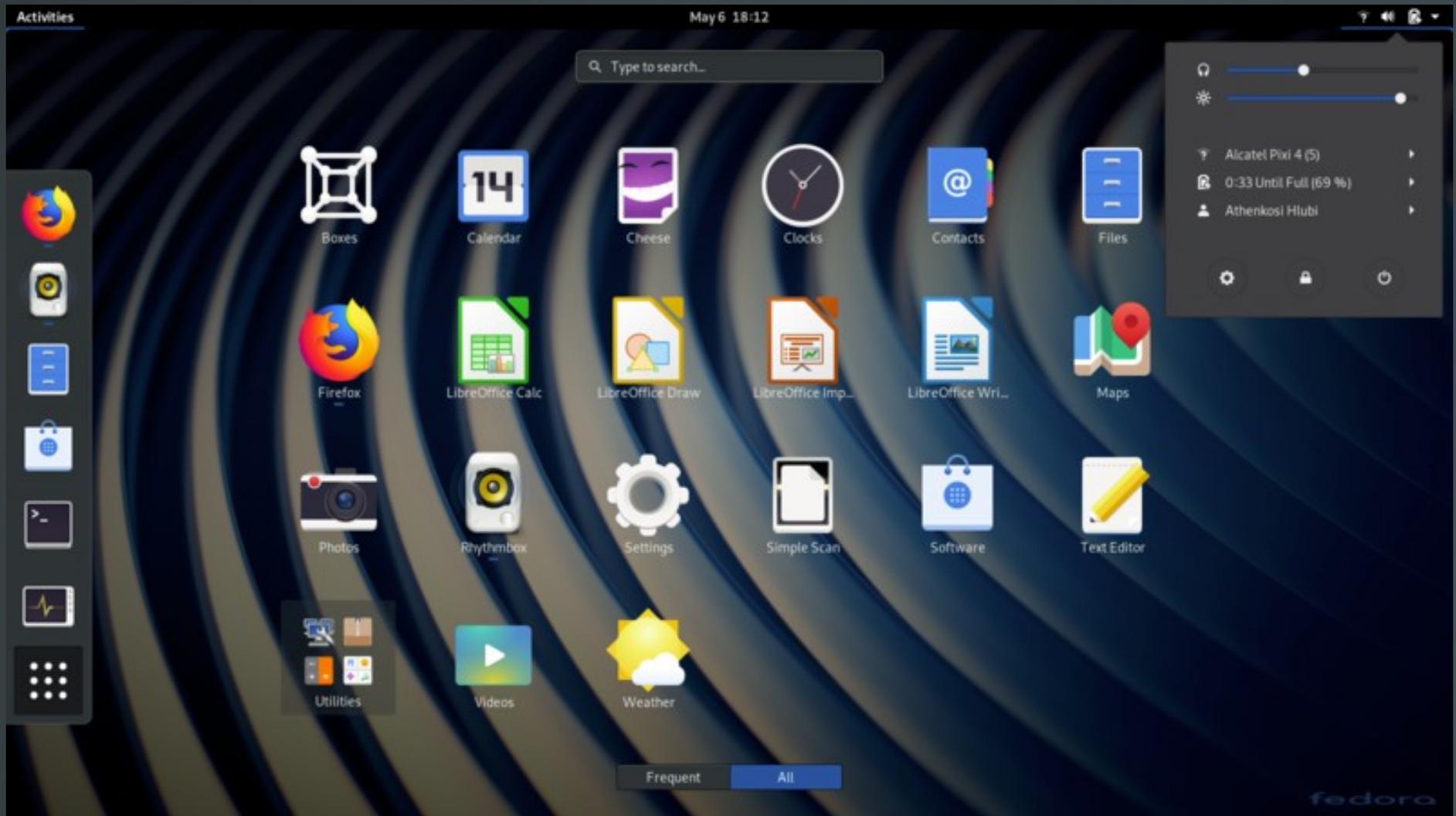


# List of Graphical Desktops

- GNOME
- KDE
- Mate (Gnome 2 fork)
- Cinnamon (Mint)
- Unity (earlier Ubuntu versions)
- XFCE
- LXDE
- ...

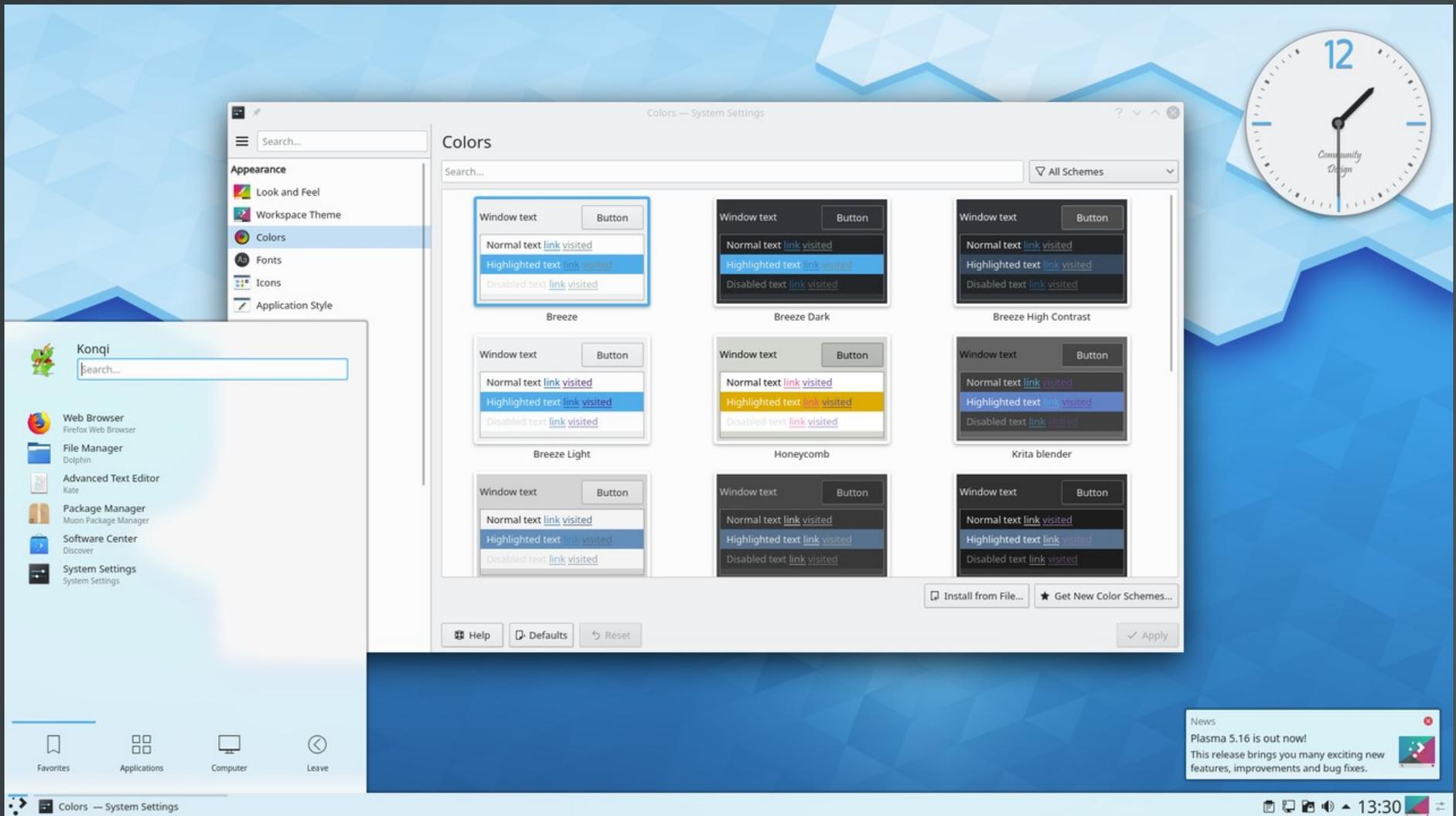


# Gnome Shell

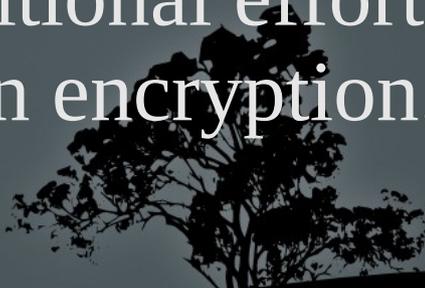


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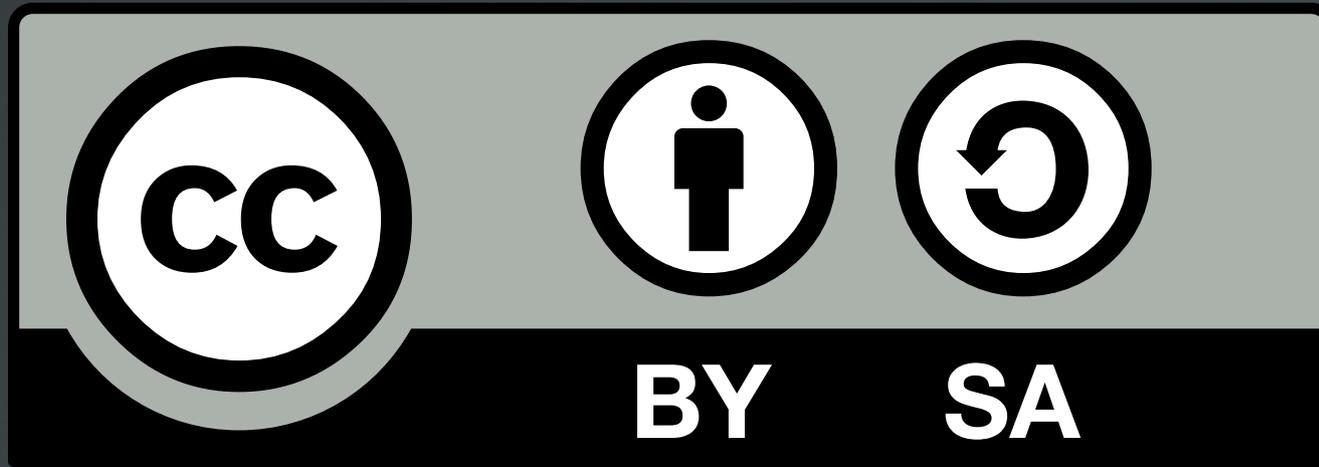
# KDE Plasma 5



# Remote Display Protocols for Linux Desktop Environments

- XDMCP: X11 native, port 177/UDP
  - VNC: Very popular on Linux, port 5900/TCP
  - SPICE: used mainly in virtual environments, port 5900/TCP. Supports TLS.
  - RDP: Supported via the xrdp package. Not all Desktop Environments are supported.
  - All these protocols (except SPICE with TLS) are inherently unsecure and need additional effort, like an SSH tunnel, for connection encryption.
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