



# WAYLAND

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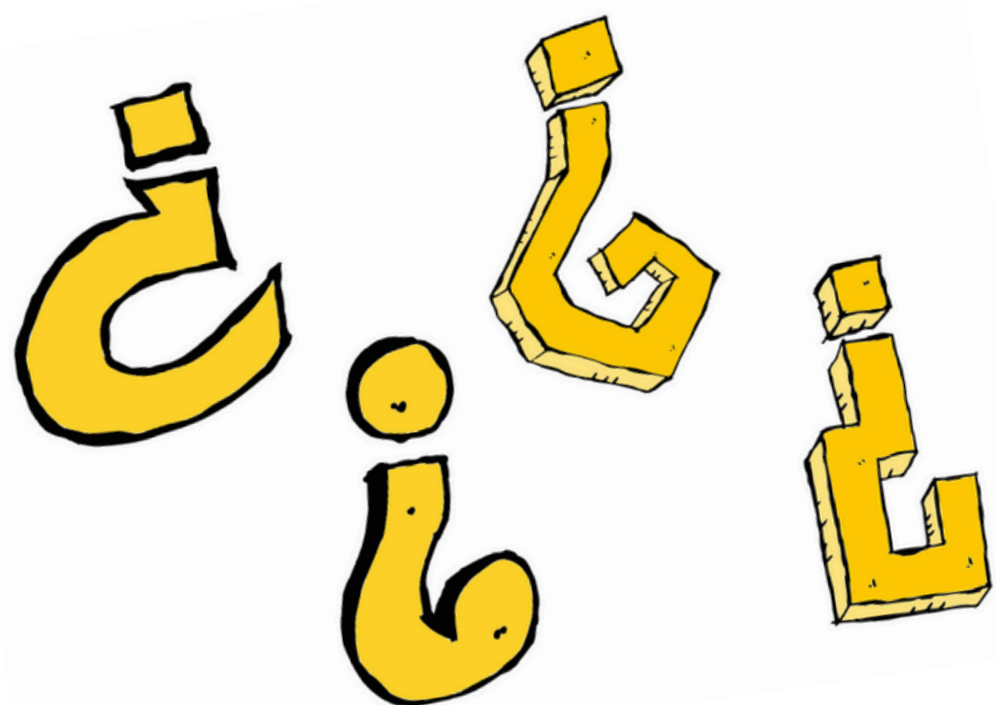
¿Qué es? y Comparativa con X11



**Facultad de  
Ingeniería**  
UNAM

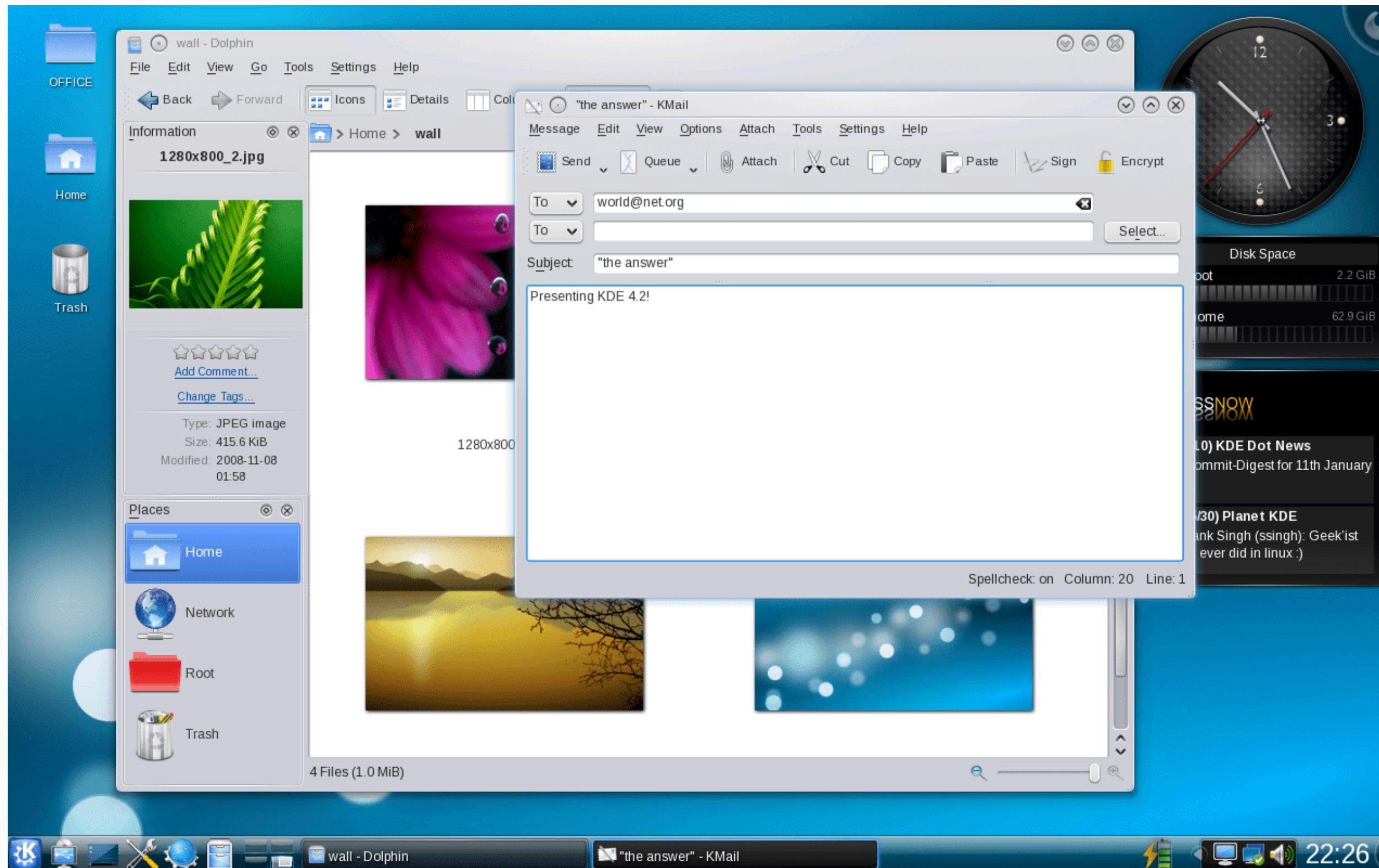


¿Interfaces gráficas, Wayland, X11?





# Interfaz Gráfica

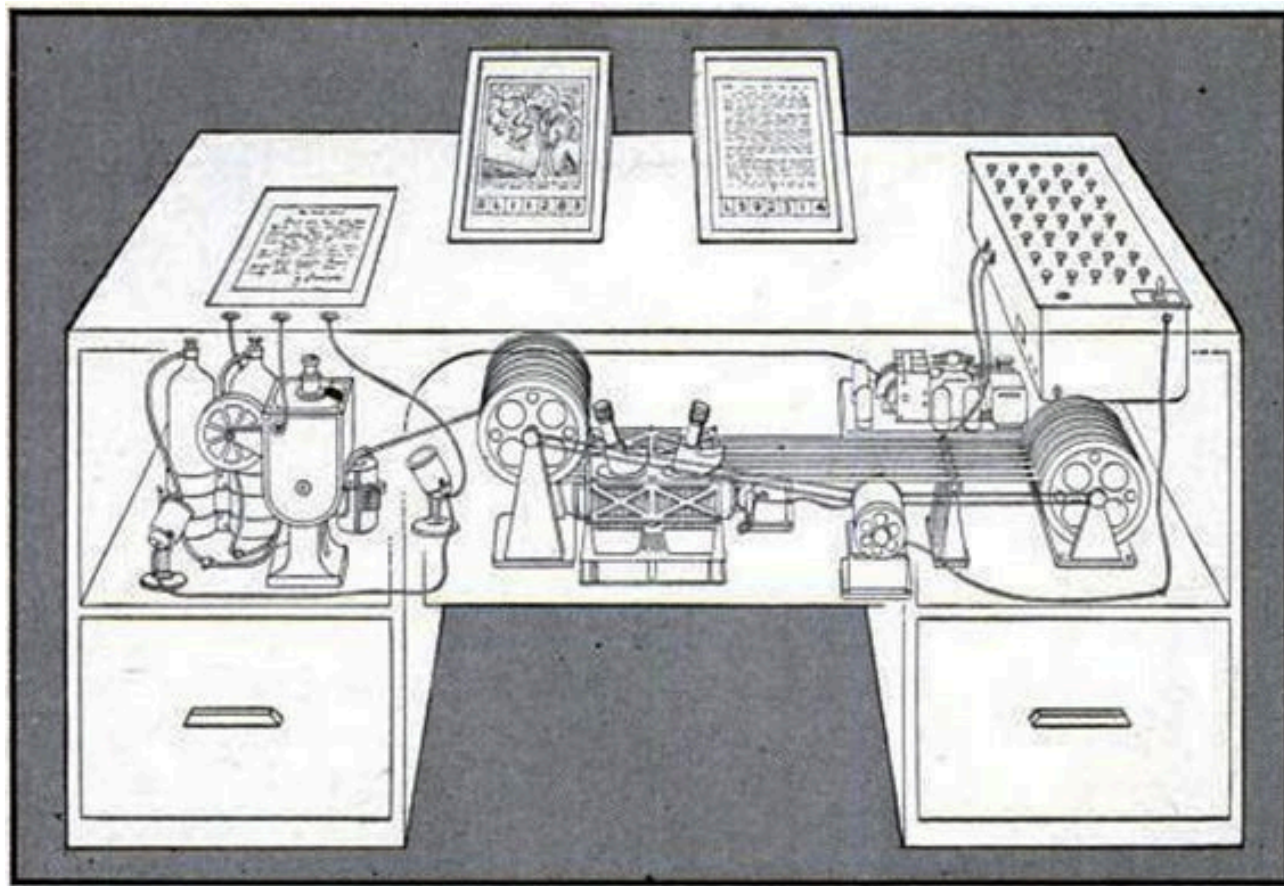




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# Interfaz Gráfica

## MEMEX

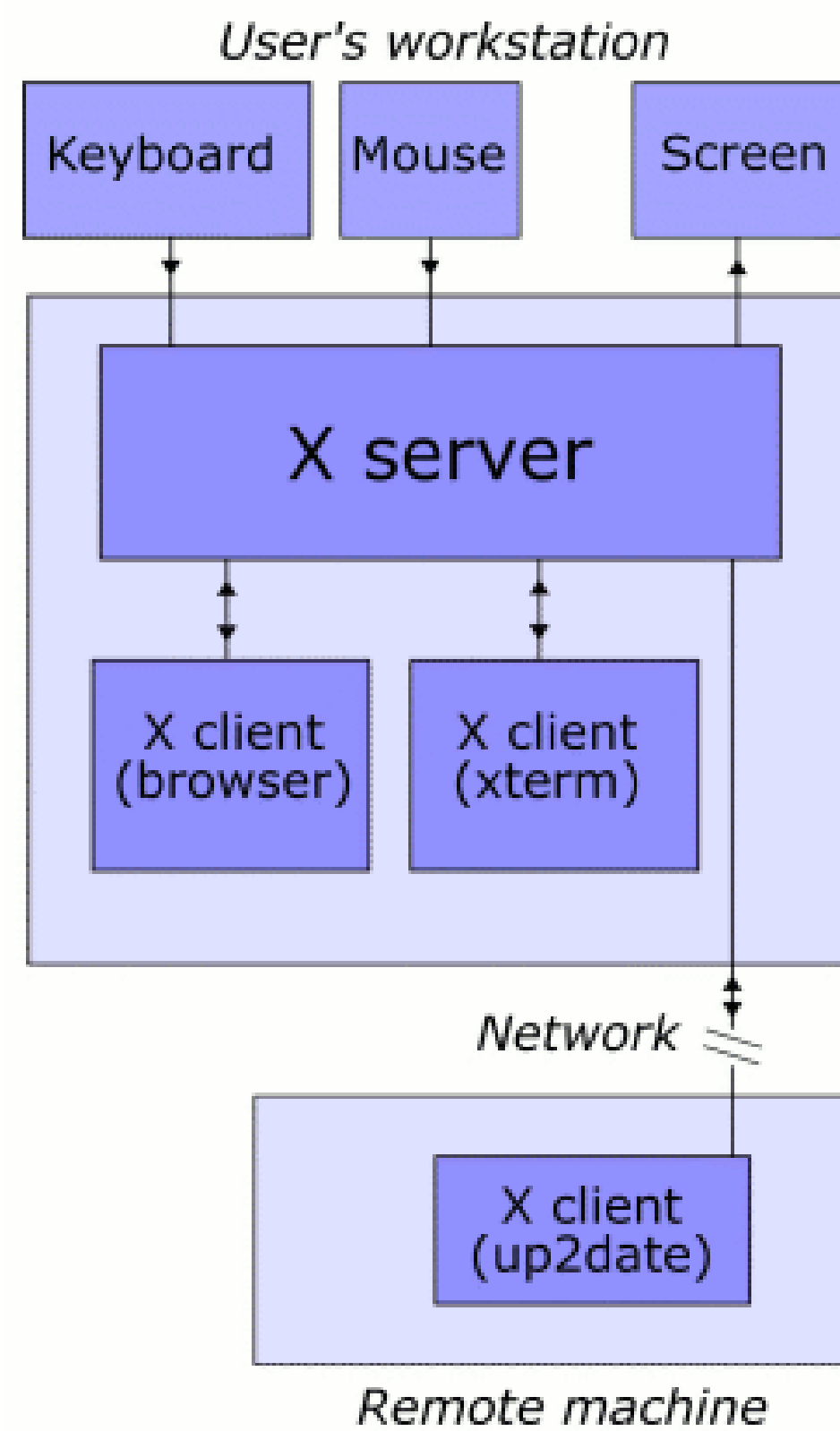


## NLS

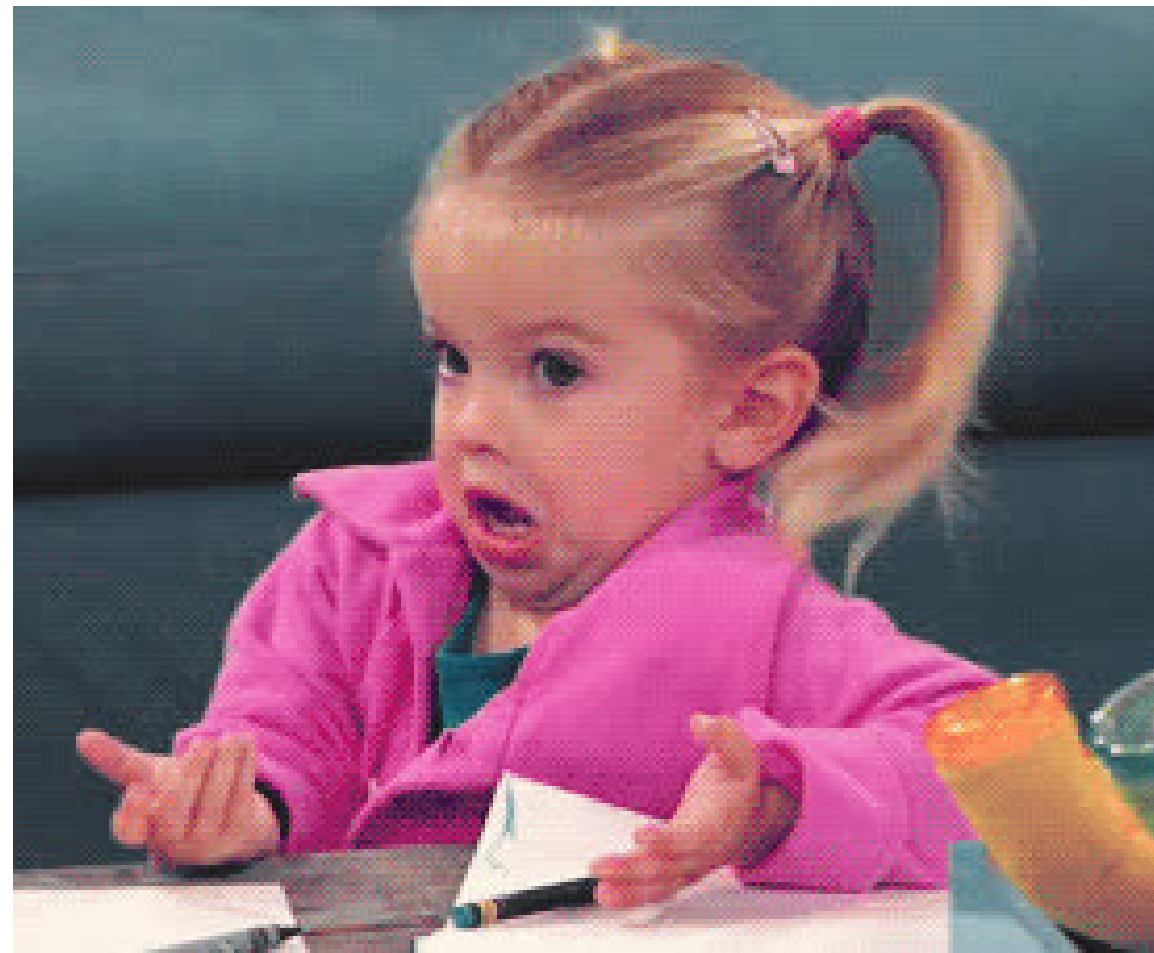




- Protocolo
- cliente-servidor
- Mostrar información en pantalla



¿Qué hay de malo con X11?





# Wayland

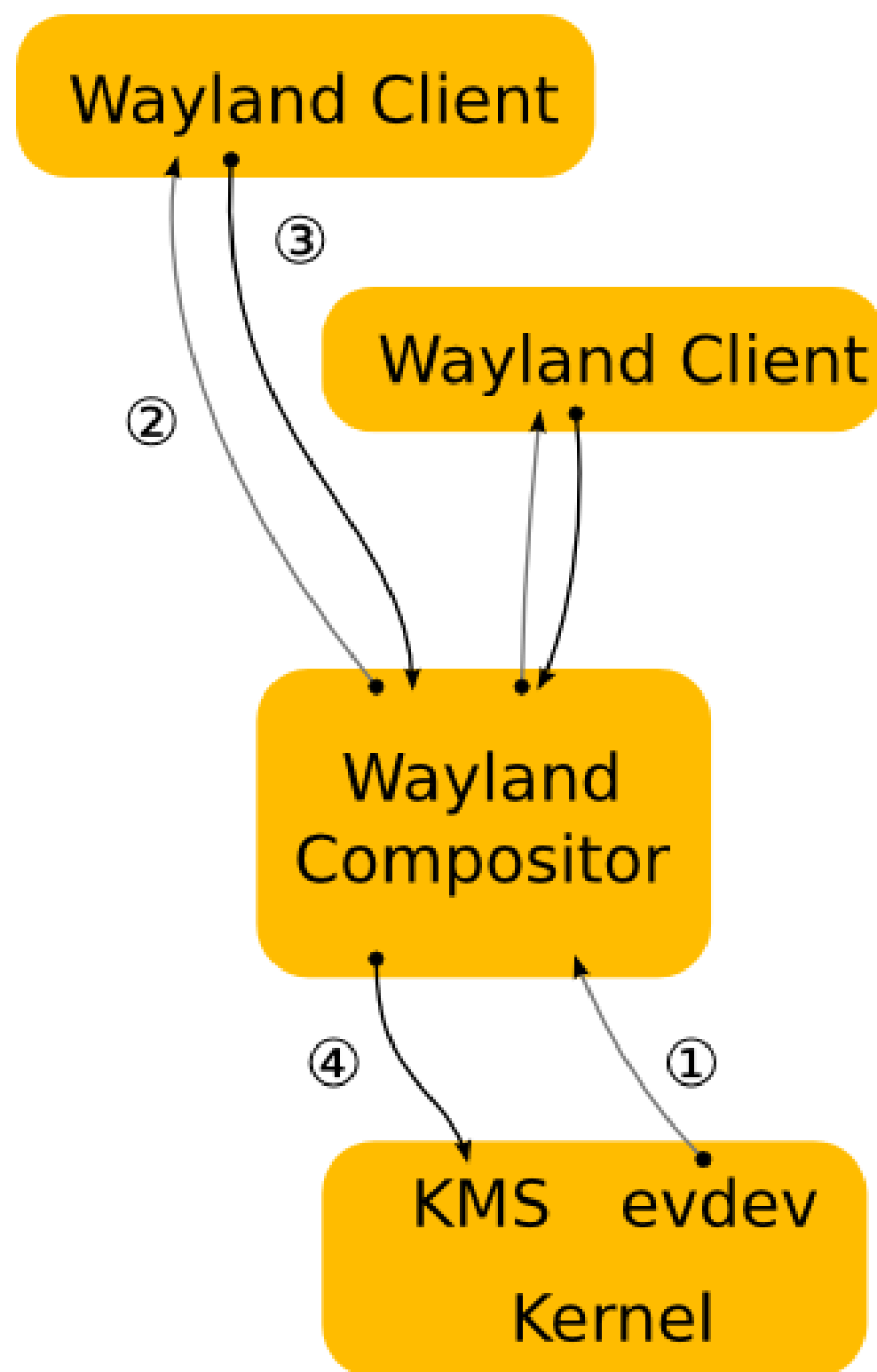
- Protocolo
- cliente-servidor
- Mostrar información en pantalla





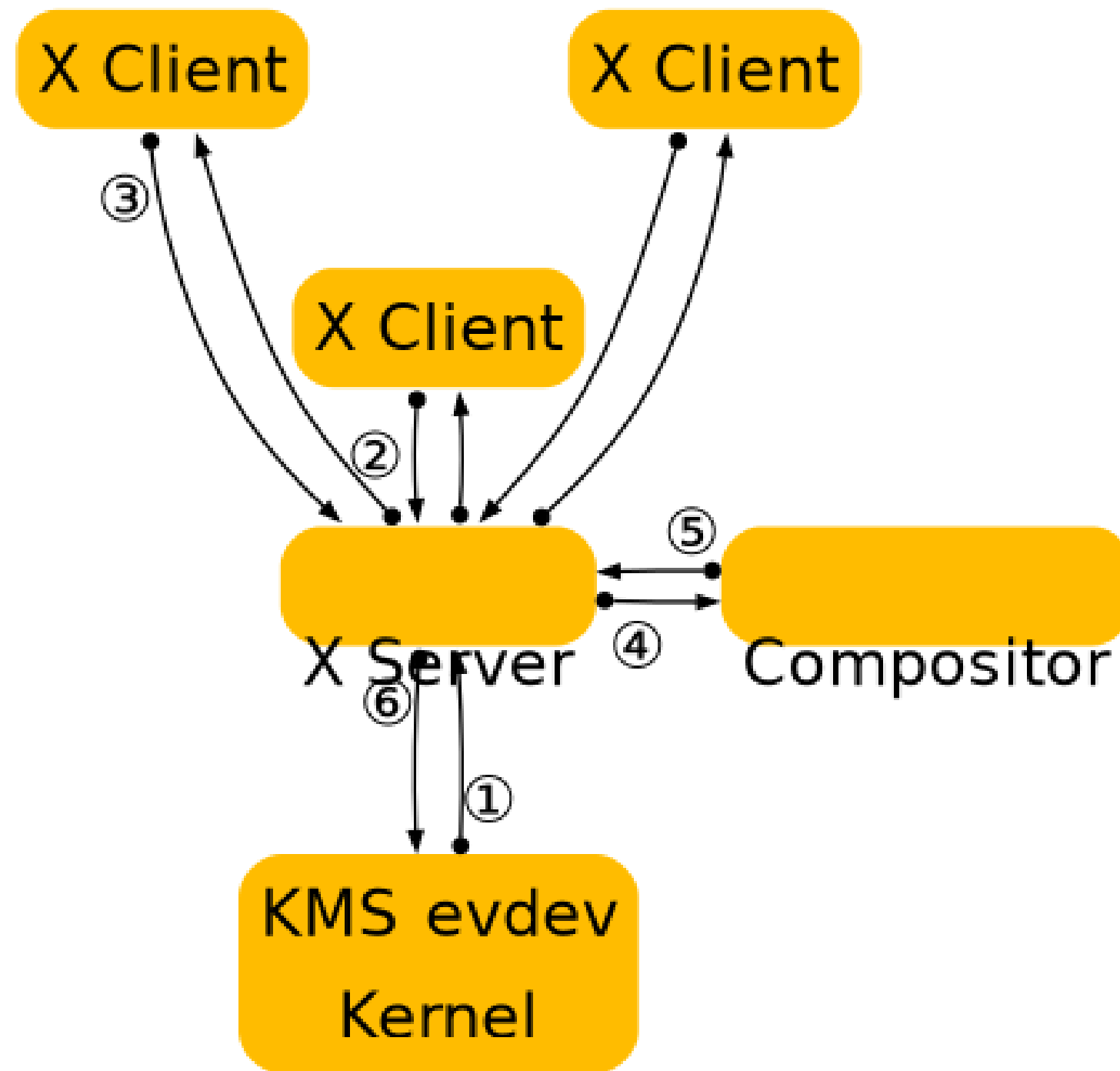


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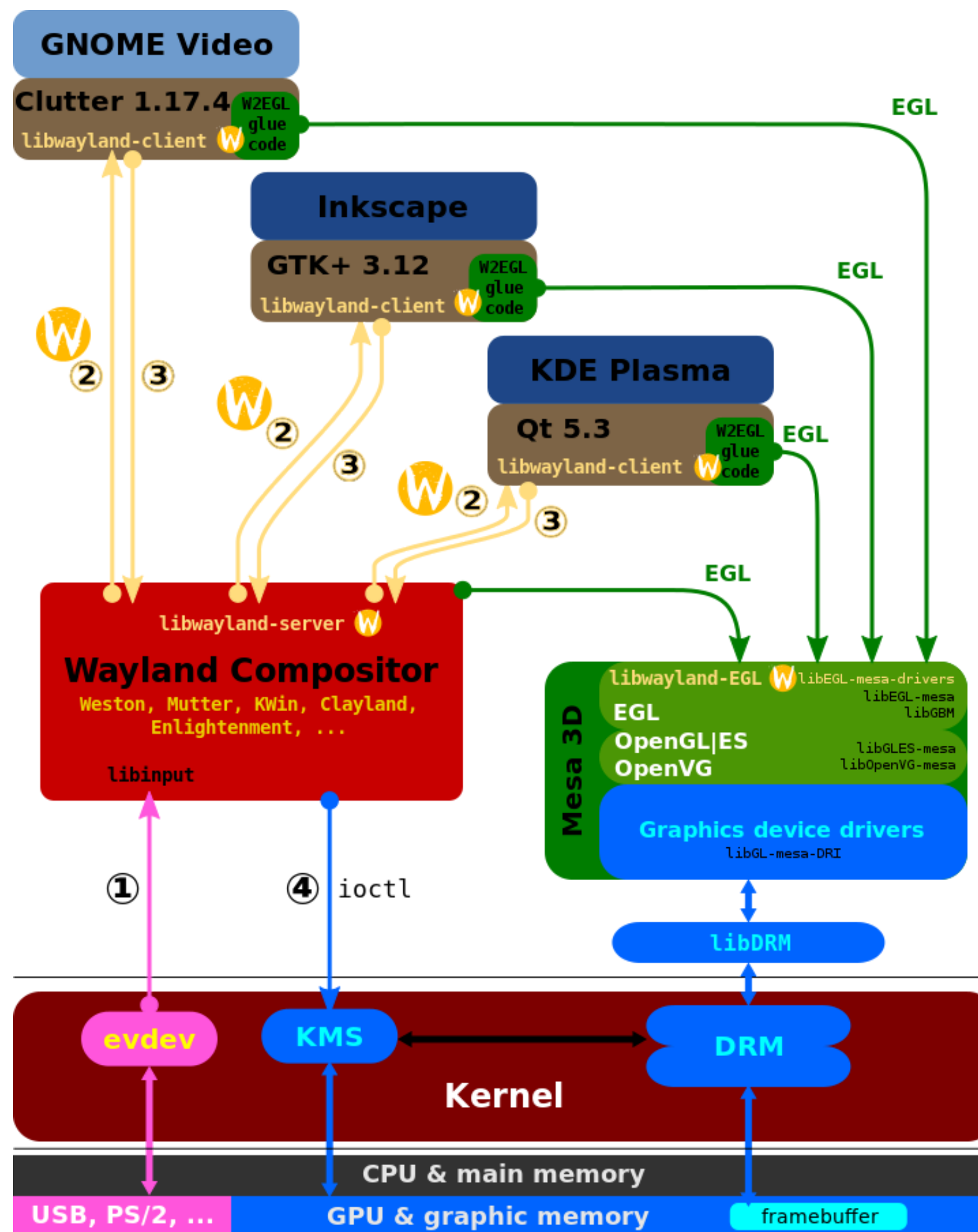


# Wayland



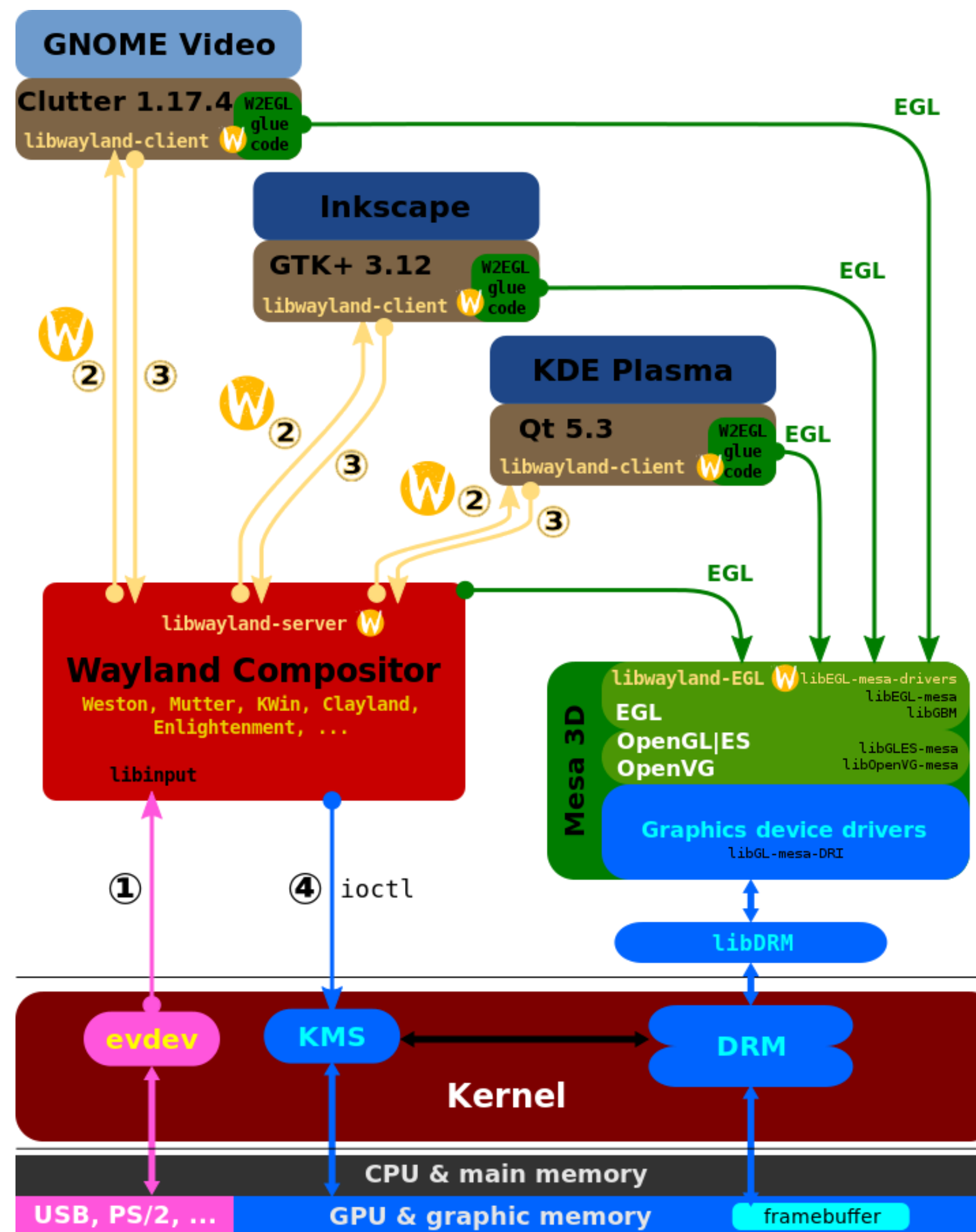


# Wayland



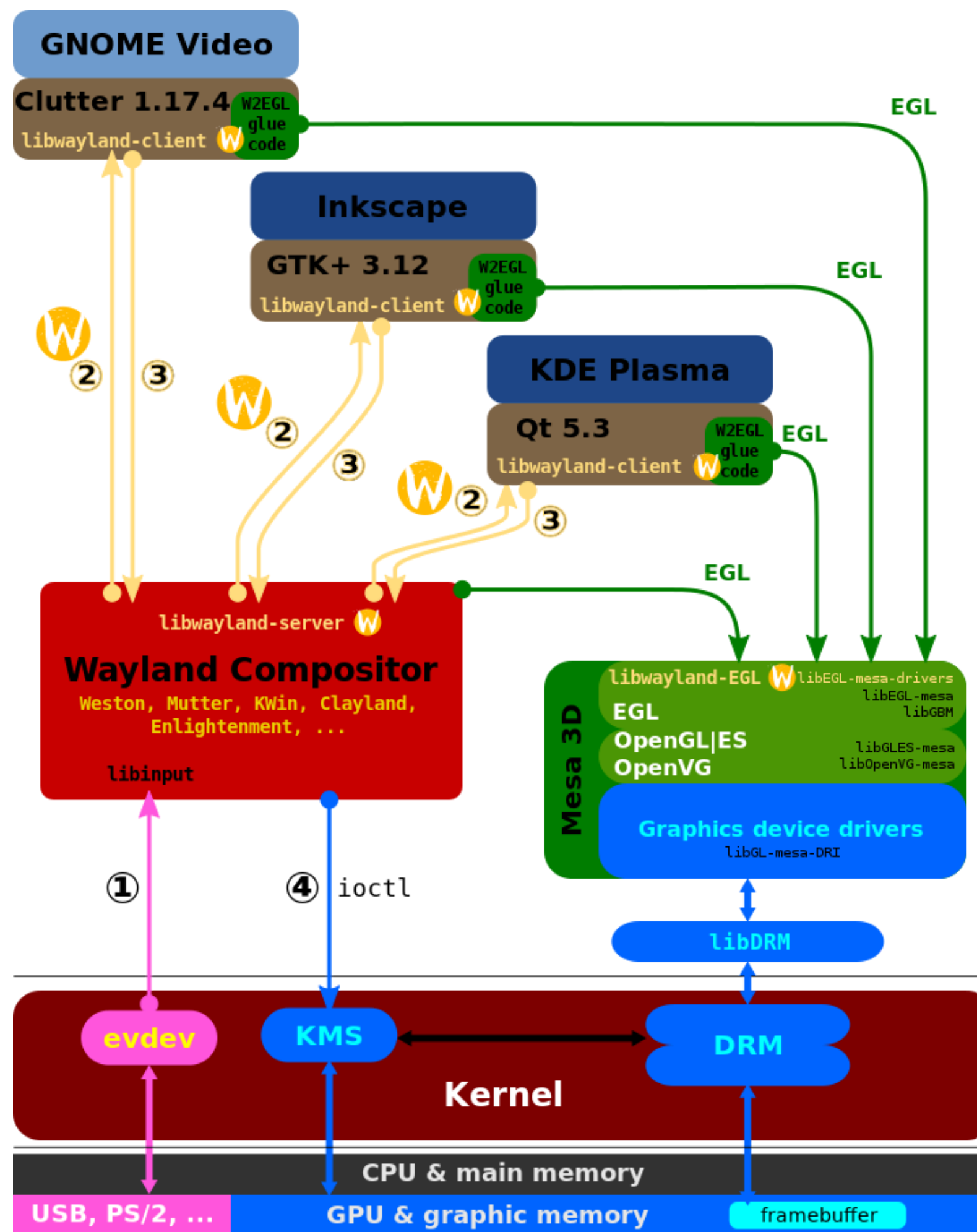


# Wayland



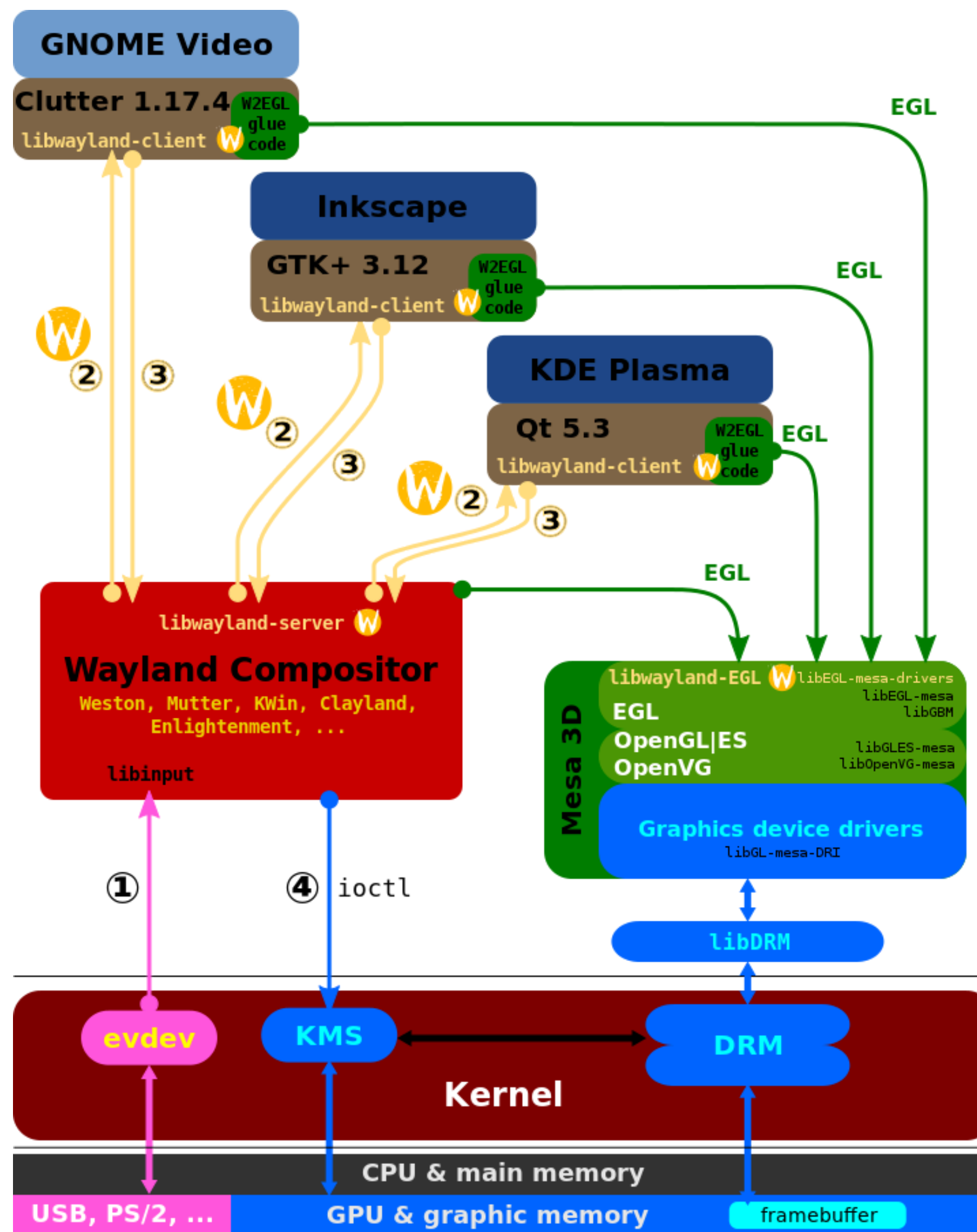


# Wayland





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## Distribuciones



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## Entornos de escritorio



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Wayland o X11





# Wayland o X11



- Rendimiento: no intermediarios
- Seguridad: aislamiento de aplicaciones



# Wayland o X11

- Incompatibilidad: muchas aplicaciones se pensaron para ejecutarse en X11
- Bugs: reportes constantes de errores





# Conclusión



# Fuentes

- Historia de Interfaces gráficas - <https://arstechnica.com/features/2005/05/gui/>
- X11 - <https://web.archive.org/web/20070103060448/http://www.visi.com/~grante/Xtut/>
- Última versión de X11 - <https://www.x.org/releases/current/>
- Compositores x - <https://dev.to/l04db4l4nc3r/compositors-in-linux-1hnb>
- Administrador de ventanas - [https://wiki.archlinux.org/title/window\\_manager](https://wiki.archlinux.org/title/window_manager)
- evdev - <https://linux.die.net/man/4/evdev>
- ioctl - <https://man7.org/linux/man-pages/man2/ioctl.2.html>
- Distros - <https://www.ubuntubuzz.com/2021/10/distros-which-adopted-wayland-in-2021.html>
- Comparativa - [https://access.redhat.com/documentation/es-es/red\\_hat\\_enterprise\\_linux/8/html/using\\_the\\_desktop\\_environment\\_in\\_rhel\\_8/wayland-differences-xorg\\_overview-of-gnome-environments](https://access.redhat.com/documentation/es-es/red_hat_enterprise_linux/8/html/using_the_desktop_environment_in_rhel_8/wayland-differences-xorg_overview-of-gnome-environments)
- Seguridad - <https://www.cbtnuggets.com/blog/technology/devops/wayland-vs-xorg-wayland-replace-xorg>