

Elput & Wayland

an open discussion

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Wayland

Wayland communication protocol has been introduced in 2010, for which there are already many compositor available:

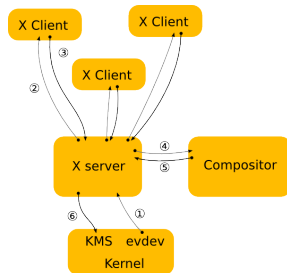
- Weston – the reference implementation of a Wayland compositor; Weston implements client-side decoration
- Enlightenment has full Wayland support since version 0.20
- KWin has nearly complete Wayland support as of 2018
- Mutter maintains a separate branch for the integration of Wayland for GNOME 3.9 (in September 2013).[50]
- Clayland is a simple example Wayland compositor using Clutter.
- Sway (i3)

Wayland Vs. X

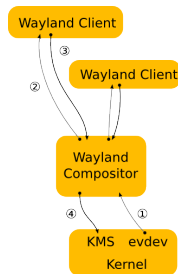
If you are unfamiliar with the differences, start here^a

^a<https://www.secjuice.com/wayland-vs-xorg/>

X Architecture



Wayland Architecture



Input under X

LibInput

Under X you would use the Input Xinput to configure keyboards and mice, but in Wayland you must use libinput^a.

^a<https://wayland.freedesktop.org/libinput/doc/latest/>

Wayland input

- Where the input devices are handled?
- How can elput be leveraged?

Wayland input

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Questions

- Swipe?
- Gestures?
- Touchscreens?

Elput provides a wrapper and functions for using libinput. Elput provides a wrapper and functions for using libinput.

Elput anatomy

- **Elput_Manager_Group** - to manage devices
- **Elput input functions** - Once you have the device, you can use these functions to do get and set
- **Configuration of touch devices** - handle touch devices

Elput manager

elput_manager_* functions

Elput manager

elput_input_* functions

Elput manager

elput_touch_* functions

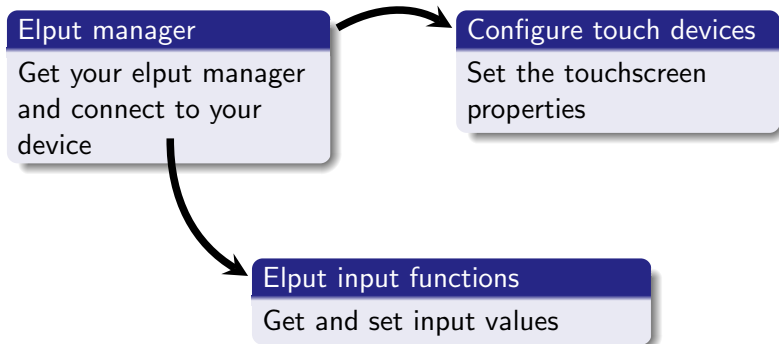


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Swipe

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- How that could be implemented?
- Is it already implemented?

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Libinput

Libinput already support that

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X

What about X? Could it be backported? Is it worthy?

Input alignment

Problem

Suppose you are capable of rotating a convertible laptop screen. You would like that:

- Your touchpad axis are translated accordingly
- Possibly, disable your keyboard if the laptop is fully folded

Libinput

Does Libinput provide an API for this?

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Again, X

What about X? Could it be backported? Is it worthy?

References

- [Enlightenment Main Website](#)
- [C API documentation](#)
- [A Software engineering platform](#)
- [The source of truth AKA GIT](#)

Thanks

Further discussion?