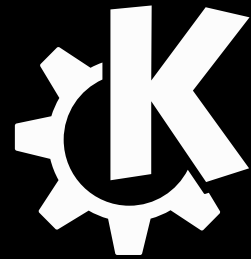
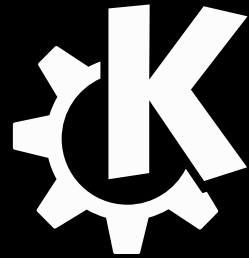


# Working on Wayland standards



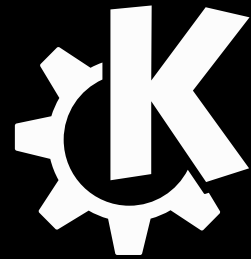
**Aleix Pol i Gonzàlez <[aleixpol@kde.org](mailto:aleixpol@kde.org)>**

# ~~Working on Wayland standards~~



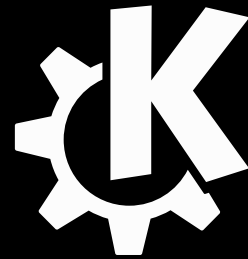
Aleix Pol i Gonzàlez <[aleixpol@kde.org](mailto:aleixpol@kde.org)>

# Talking to apps on Wayland



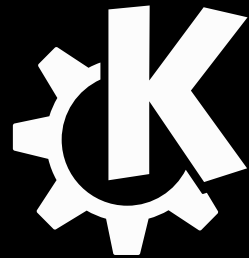
**Aleix Pol i Gonzàlez <[aleixpol@kde.org](mailto:aleixpol@kde.org)>**

# Talking to ~~apps~~ on Wayland



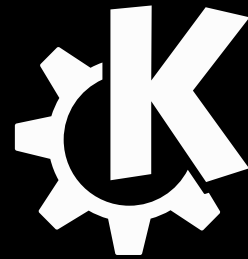
Aleix Pol i Gonzàlez <[aleixpol@kde.org](mailto:aleixpol@kde.org)>

# Talking to clients on Wayland



**Aleix Pol i Gonzàlez <[aleixpol@kde.org](mailto:aleixpol@kde.org)>**

# Working on Wayland standards



Aleix Pol i Gonzàlez <[aleixpol@kde.org](mailto:aleixpol@kde.org)>

# Who am I?

- Aleix Pol i Gonzàlez <aleixpol@kde.org>
- KDE Contributor (my 15th Akademy! 🎂)
- Employed by Blue Systems to work on KDE products
- KDE e.V. President
- Barcelona

**We are still transitioning away from  
X11**



**From working on a shared  
codebase...**

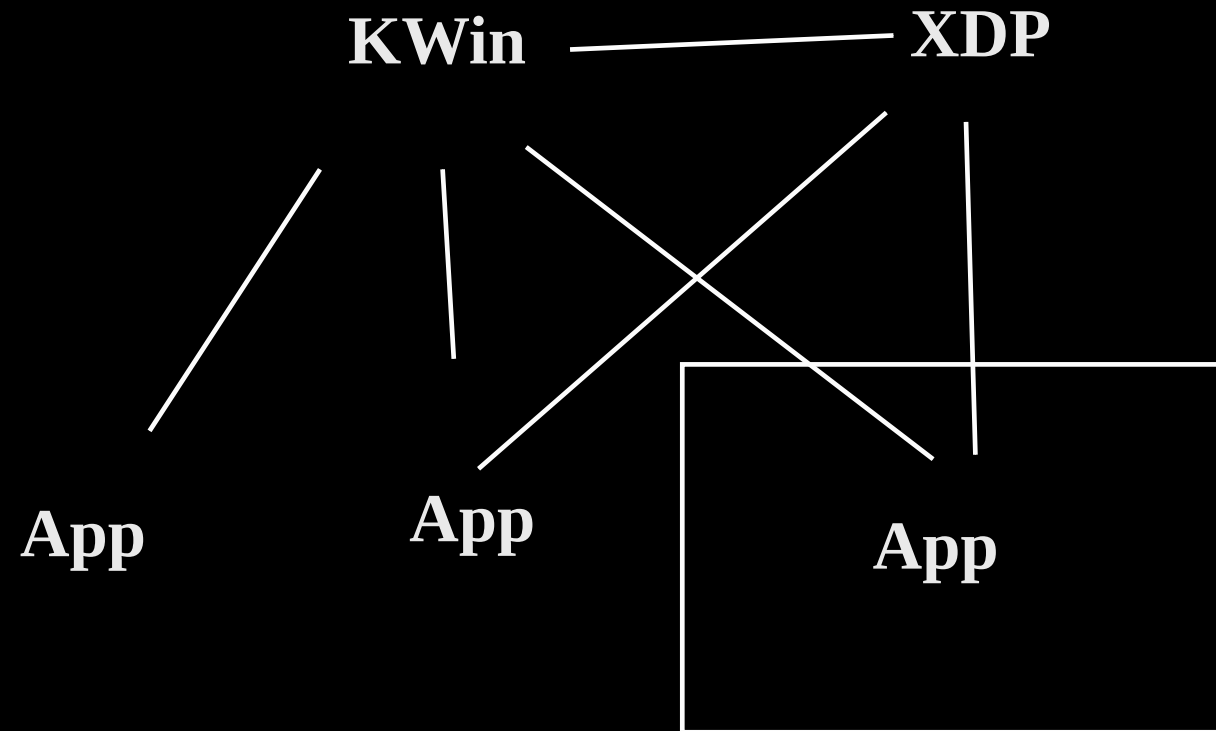
**... to working on a shared set of  
protocols\***

**From negotiating a technical  
implementation...**

**... discussing how apps interact with  
their respective compositors.**

# Focus on two mechanisms:

- Walyand Protocols
- XDG Desktop Portal



# A Wayland Protocol

```
<protocol name="foodz_protocol">
<interface name="fruit_interface">
  <request name="request_fruit" />

  <event name="got_fruit">
    <arg name="fruit" type="string"/>
  </event>
</interface>
</protocol>
```

**When do I want a protocol?**



# What do I do with my protocol?

- <https://invent.kde.org/libraries/plasma-wayland-protocols/>
- <https://gitlab.freedesktop.org/wayland/wayland-protocols/>

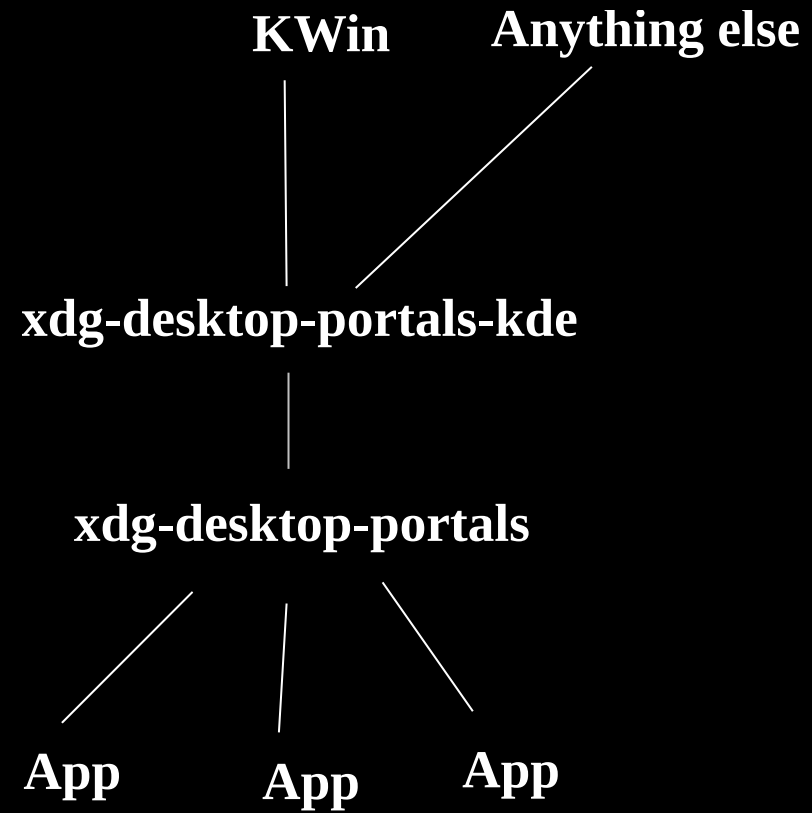
# How do I use a protocol?

Wayland for App Developers - LAS 2020

**TL;DW: qtwaylandscanner produces C++ code you  
can use**

# **An XDG Desktop Portal Interface**

# **A D-Bus service**



**I'm not explaining D-Bus, you've  
all\* used it 🤪**

**\*or not? do we need a BoF?**

# **\*Disclaimer**

**There's some glue code between the XDP and the implementations**

**But that's it!**

**See? Easy peasy!**



**Is it scary?**

**NO!**



**Is it scary?**

**NO!**

**Maybe a tad intimidating...**

# Tricks

**Research prior art thoroughly**

# **Talk to the people**

**If you are doing something useful, you are probably working for them anyway**

**... yes, use video. Or join them in a  
conference!**

**Talk to GNOME, talk to Sway, talk  
to the users of the API**

**And of course, talk to the KDE  
maintainers!**



**Be nice!**





**Aleix Pol i Gonzàlez <aleixpol@kde.org>, @AleixPol,  
@apol:kde.org**