The State of KWin Wayland

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Agenda

Architecture

What's new in 5.0

What's new in 5.1 and beyond

Agenda

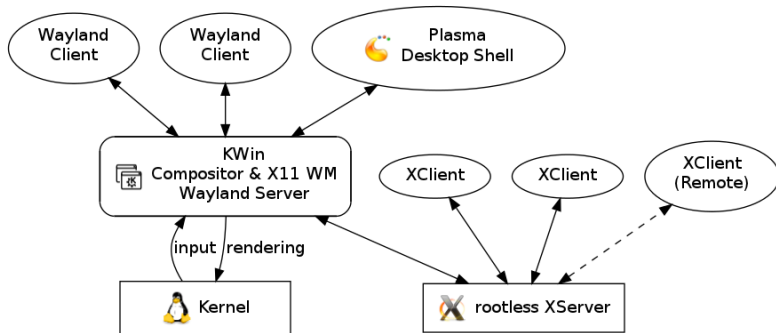# Architecture as planned in 2011

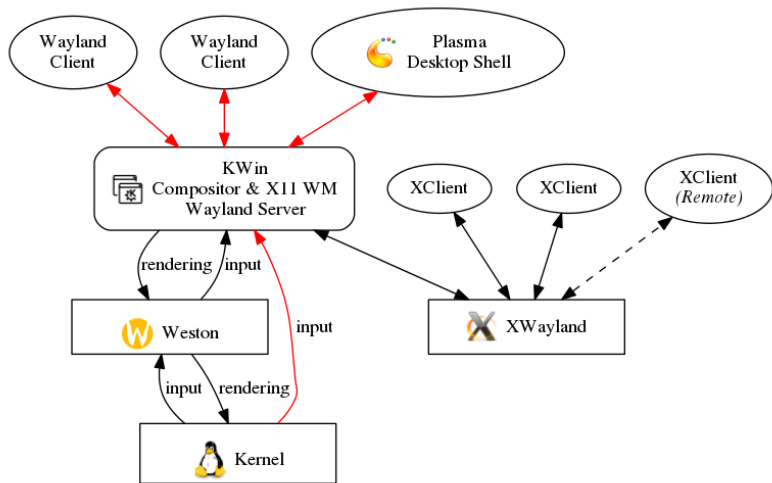# Current Architecture

Architecture of KWin Core

Agenda

Qt5 was difficult!

New Wayland features

Features in 5.0

- ► Binary renamed to kwin_x11
- ► QPainter based Compositor backend
- ► XRender Compositor supports Wayland
- ► Better detection on when KWin should use Wayland
- ► Compositing gets enforced in Wayland mode
- ► Input redirection module

Agenda

Features for 5.1

Already in master

- New binary kwin_wayland
- Starting nested X Server
- Wayland client connection hold in a dedicated thread
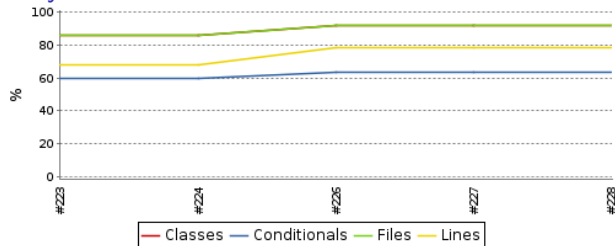- Support for Fullscreen Shell in Client mode

Server module
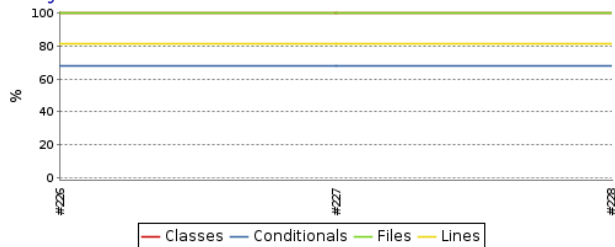
- Headless
- Used in auto tests of Wayland Client code

Test Coverage of New Code

Wayland Client Module

Wayland Server Module

Unfinished Features for 5.1

In the Pipeline

- Start a Wayland Server
- Rendering to one Surface per Output
- libinput integration

More work needed!

Kanboard (Project "Plasma on Wayland")
http://ur1.ca/i44d1

Wiki
- https://community.kde.org/Plasma/Next/Wayland
- https://community.kde.org/Plasma/Wayland

Questions?