



spectaKle



Thank you for coming

Please turn off all mobile phones.

Turn off phones completely as even in silent mode, phones can interfere with the sound system



spectaKle



spectaKle - Digital signage platform
<http://www.spectakle.org>

Desktop?



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aseigo's keynote: KDE = Desktop apps
We are at cross-desktop room

spectaKle

- is not a desktop app
- is not for the home user
- is not for the enterprise user

spectaKle is a niche app for embedded* devices

* Usually COTS hardware in a nice case, Amino being the exception

What's signage



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Signage

Show contents/messages
in a screen or surface

Static



What's digital signage KDE



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Digital signage

Signage + real time updates

- Dynamic: contents may be changed at any moment in time
- "embedded": COTS computers usually involved
- Niche market: hotels, hospitals, train stations, airports... (not for home users)

Examples of DS



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Current solutions (\$)



KDE



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quadriga



kasenna
The IPTV Company™

Base software:

- Expensive
- Does almost nothing
- Zillions of modules needed for feature-complete solution

Customization (feature additions):

- They will only add small features, if at all (true lived nightmare: add VoIP)
- Very expensive (tens of thousands €)
- It can take up to 6 months (!)

spectaKle: features



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KDE

- Control of multiple screens at multiple locations
- Play video, slideshows or webpages
- Schedule content to be shown at a certain time or date
- Give directions, room layouts and room booking or usage information
- Easy to extend with plugins

How does it work?



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KDE

- Client-server architecture
- Administration & playlist creation: webapp
- Some helper tools, no really needed
- Server distributes contents to clients
- No DRM: data transfer security relies on the network (hint: 802.1q VLAN)
- Working on Active Directory authentication/authorization for the admin webapp

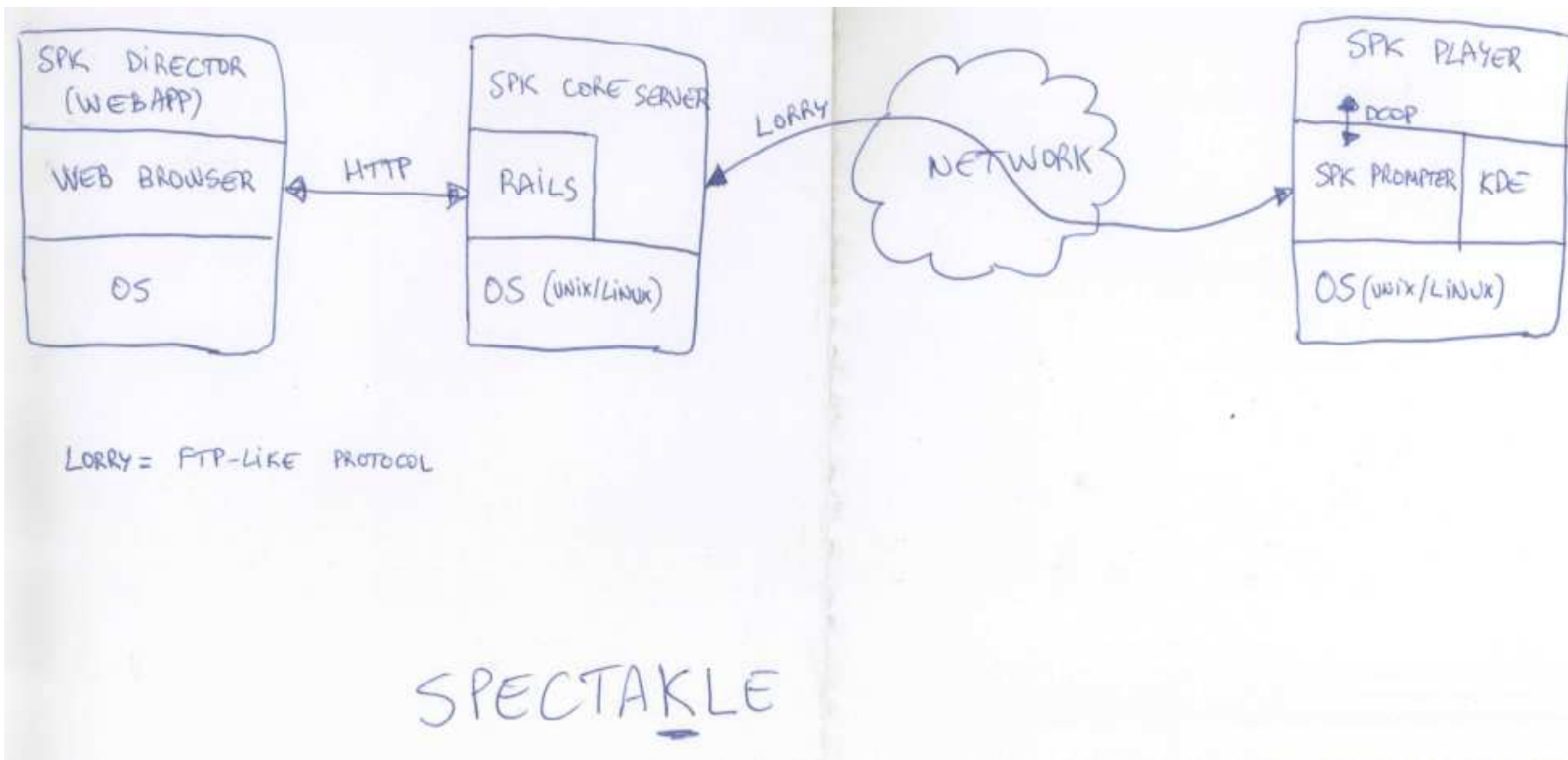
How does it work?



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KDE



Server-side: Rails



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KDE

- AJAX webapp
- Painful: it's nice but it's proving to be more difficult than expected (f.i. file uploads)
- Why webapp? It was demanded by some potential customers

Client-side: Korundum KDE



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- Slideshows: OpenDocument (patched KPresenter part)
- Video: *ugly* KProcess launching mplayer (will be replaced by Phonon)
- Webs: KHTML-based kiosk browser
- Some more plugins on the works (passive popups for out-of-band warnings, picture slideshow, etc)
- Easy to develop thanks to KParts => No idea how to achieve this with GNOME (do they have a real component architecture???)

Helpers: Korundum



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KDE

spectaKle Display Editor

Simple tool to create files describing screen features (resolution, etc)

spectaKle Encoding Tools

Wizard for video encoding (advice is based on the target-display settings from sDE)

Current features



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Mostly tied on features with DZine (but 2,000€ cheaper per client)

Passive users ("no" interaction)

Good for a museum/gallery

As of now, client is difficult to set up

Needs testing

I'm behind of schedule (main stopper: Rails-based admin app)

The future



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Not KDE-related:

- Video on demand
- Pre/post payment with single wallet
- Kiosk browser (just lock down current browser)

KDE-related:

- Phonon-based video player (2.0)
- Tenor-based communication (2.0?)
- VoIP using Decibel (3.0)
- Customized, minimal Linux/KDE distribution

Ruby, bindings, speed KDE



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Joel's rant: Ruby is slow

Yes, it is. But it is fast enough for me.

QtRuby and Korundum:

- Very nice and easy to develop with
- Need a better documentation (especially Korundum)
- Fat: ~15MB overhead
- Wish: ability link to C++ code (Jambi is able)

Questions



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Special thanks to Richard Dale for developing Korundum and helping me with it

Conclusion: Korundum works very well, use it
Questions?