

# DLNA on GNOME



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May 25<sup>th</sup> 2013



# About me

- Contributing to GNOME since 2001
- Working as a professional software developer since 2006
- Main Rygel and GUPnP maintainer since 2010

# DLNA

- Media sharing
- Refinement of UPnP-AV
- Simplified media sharing/interoperability
- Set of use-cases and scenarios
- RPC and media streaming



# The past - Rygel

- Around since 2008
- DLNA server
- Share your media
- Part of GNOME, but stand-alone
- Also used outside of GNOME (Nokia N9)

# The past - Rygel

- Some other nice features
  - Convert MPRIS-compatible media players
  - Grilo: YouTube, Flickr, ...
  - Media display

# The present

- Since 3.8, local file sharing integrated
- Currently not based on Tracker, TBD



# The present

- Rygel the SDK
  - Add DLNA functionality to your application
    - Either through code or Dbus
  - Serve media
  - Be a renderer
    - Either through code or Dbus
  - Advances UPnP-AV and DLNA features
    - Upload, Synchronisation, ...



# The present – Also used in

- N9
- Guacamayo distribution
- Tizen 2.0 IVI profile
- Some unknown stand-alone hardware
- ...

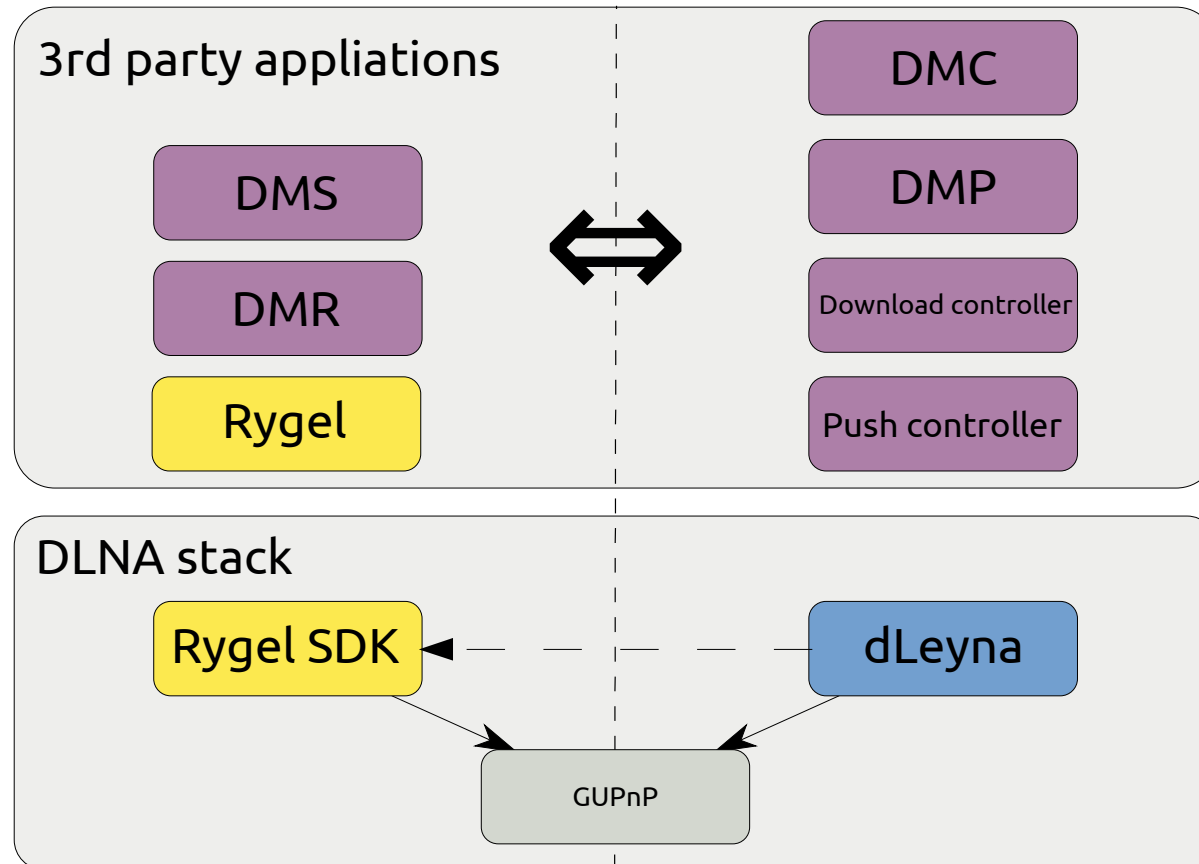
# The future - Rygel

- IPv6 – TBD
- Improve Tracker integration
- ACL - TBD
  - Simple version
  - Full-blown UPnP version
- Firewall zone support
- Fix GObject introspection

# The future

- dLeyna
  - DLNA client SDK
    - Currently Dbus
  - Add DLNA functionality to your application
  - Ad-hoc sharing
    - Share a single image on your Smart TV
  - More advanced DLNA features
    - Upload, Synchronization, ...
  - HTML5 story

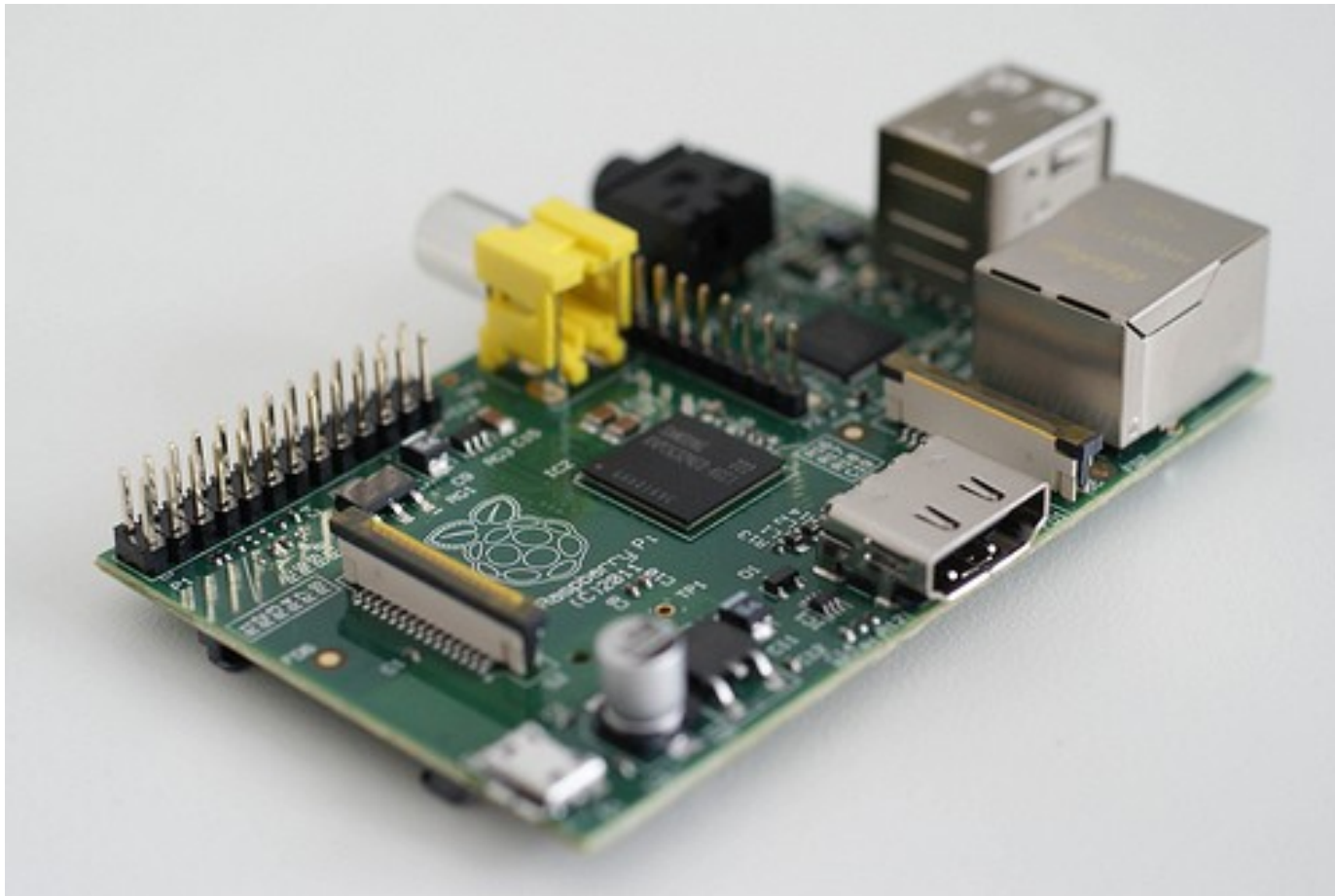
# DLNA overview between Rygel/dLeyna



# The future

- Gnome-photos
  - Show images on your smart TV
- More to come ...

# The hacky things



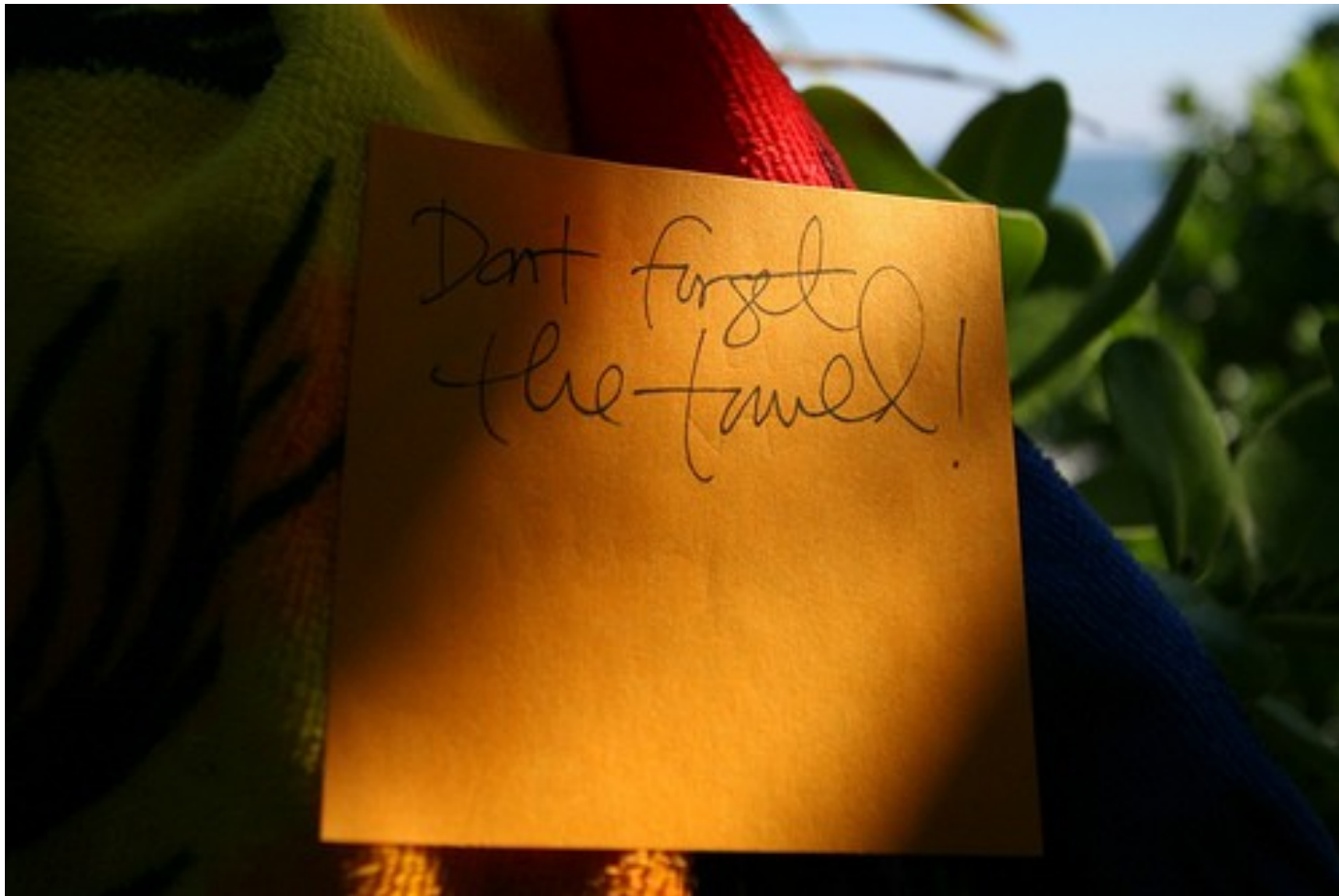
# The hacky things

- Playing with Raspberry Pi
  - Audio renderer (Guacamayo distribution)
  - Hardware-accelerated video renderer
    - Based on Raspbian
    - Our own repository + up-to-date GStreamer
    - Blogpost w/ detailed instructions to follow

# Links

- <http://rygel-project.org>
- <http://gupnp.org>
- <https://launchpad.net/~yg-jensge/+archive/gupnp>
- <https://launchpad.net/~yg-jensge/+archive/gupnp-unstable>
- <http://rygel-project.org/raspbian>
- <http://01.org/dleyna/>





# Image references

- Raspberry Pi: CC-BY-2.0  
<http://www.flickr.com/photos/gijsbertpeijs/7988262046>
- Rygel: CC-BY-NC-2.0  
<http://www.flickr.com/photos/cayusa/1339414099>
- Towel Day: CC-BY-2.0  
<http://www.flickr.com/photos/puukibeach/3563344467>