Tracker

Metadata central storage for the Desktop

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Tracker 0.6.6

- 1.5 years ago
- Obvious decision for maemo
 - Linux-based distribution for the internet tablets
- It needed some work
 - Difficult to extend and fix
- Deep rewriting of the daemon

Tracker 0.6.95

- Today
- · The "same" with better code
 - No API break (few new methods)
 - GObject, cleaner modules/libraries
 - Unit tests
 - Better memory and CPU consumption
- Ready to ship with Fremantle/Maemo5

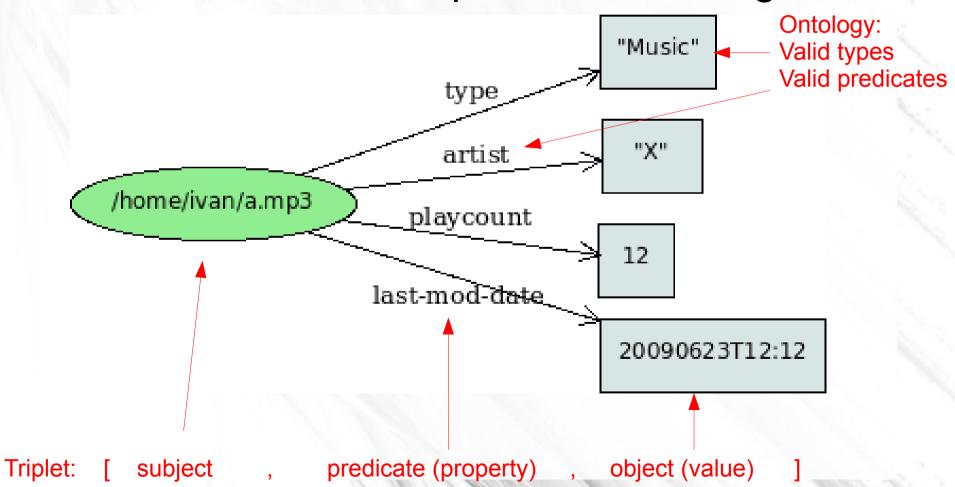
Is Tracker finished?

The current tracker works and does what we expected it to do.

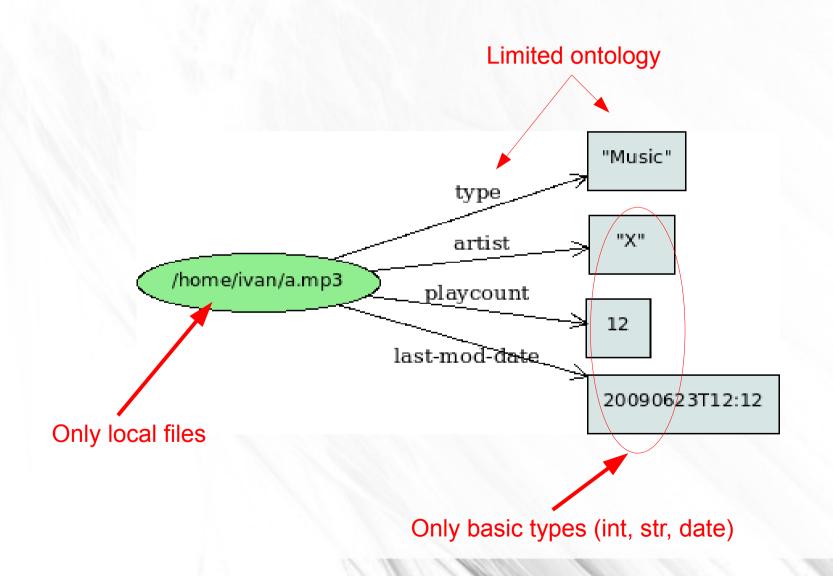
We want to do MORE, better and faster.

Tracker 0.6's data model

The famous words: triplets and ontologies



Tracker 0.6's limitations

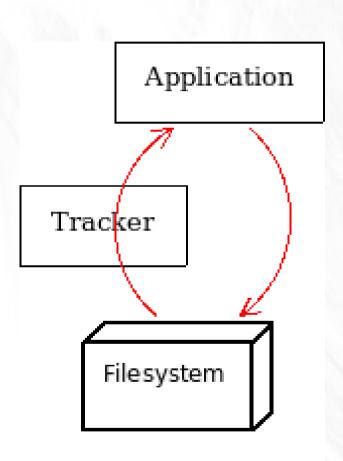


Tracker 0.6's limitations

- Too simple query language
 - Half-fixed using API parameters → Ugly API

"Make everything as simple as possible, but not simpler." (Albert Einstein)

Tracker 0.6's data flow

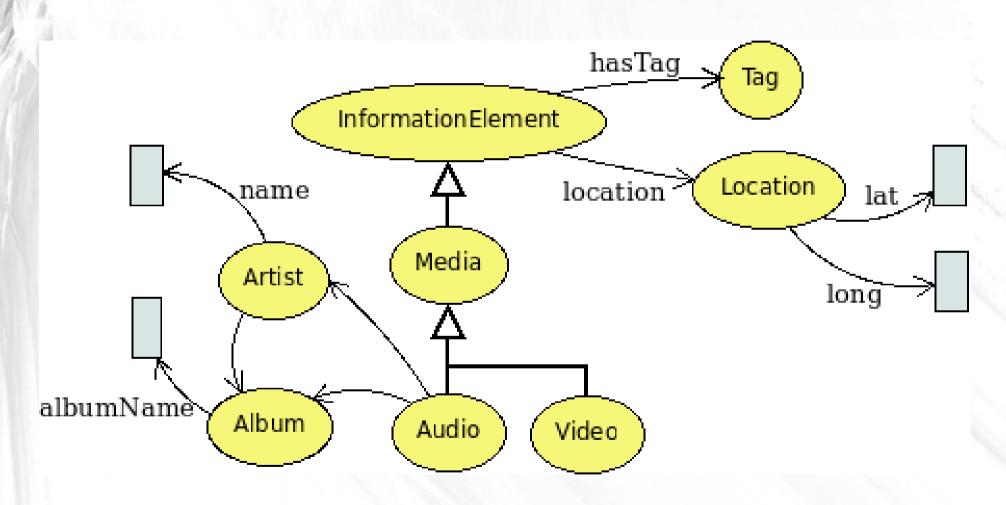


- Caches local content
- Isn't a primary store
- Is passive

Tracker 0.7: basics

- Supports real graphs
- Has a rich ontology: Nepomuk
- Resources instead of only files
- Has a better query language: SparQL
- Uses a different data flow

Tracker 0.7: we can say more...



...about more things

- Web history / Bookmarks
- Rss feeds / entries
- Playlists
- Geolocation / Tags
- IM Messaging
- Online information (flickr / facebook integration)

Tracker 0.7: Easier to query

• SparQL: URI and title of all songs with playcount > 10

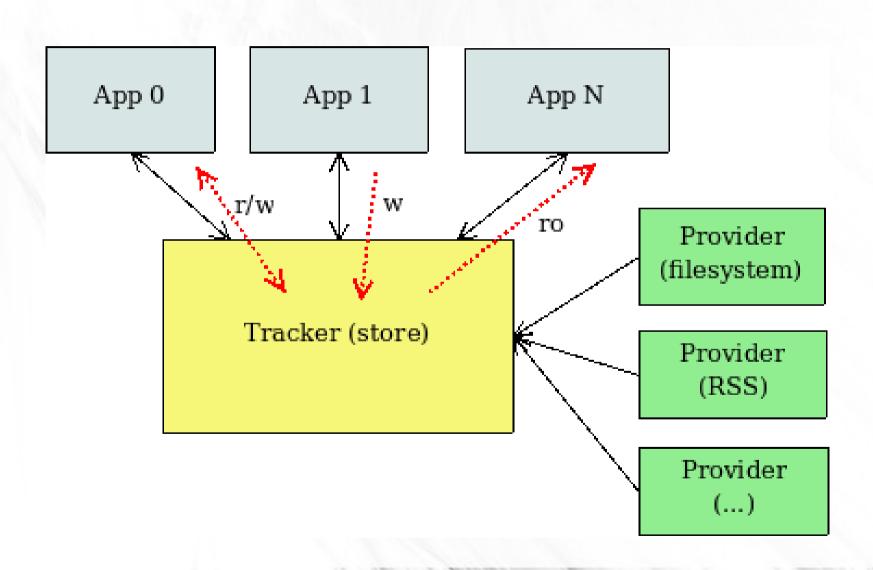
Tracker 0.7: Easier to query

 All files received from Martyn in the last three days ordered by date

Tracker 0.7: One more

- SparQL supports INSERTS and DELETE
 - Apps can store things directly into tracker
- New signals system
 - An app knows insertions/update/deletes in its relevant categories

Tracker 0.7: New data flow



Tracker 0.7: Desktop impact

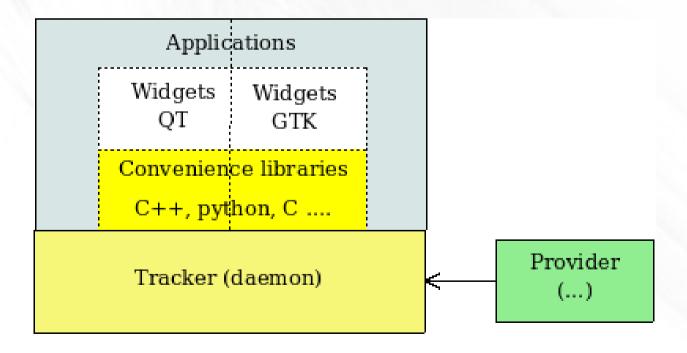
- Cross application / desktop data
 - Shared tags
 - E.G. Bookmarks between browsers
 - Nepomuk de-facto standard

Tracker 0.7: Desktop impact

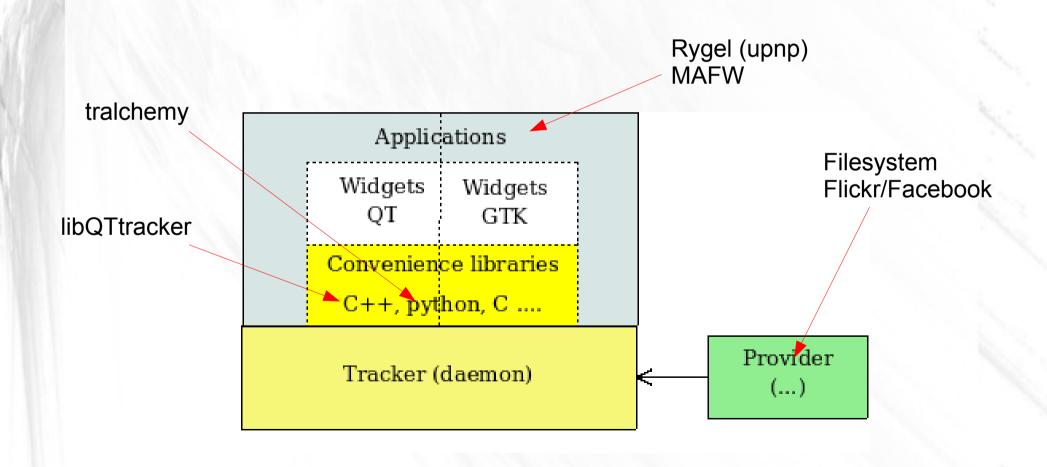
- Information mash-up
 - Relevant information for a contact
 - Geolocation
 - Integrate online/offline information

Tracker: Freedesktop

- Dbus API + SparQL + Nepomuk
 - Desktop neutrality
- The value is on the stack



Is everything already done?



Interesting links

- Code: http://git.gnome.org/cgit/tracker/
 - Branch tracker-0.6 for 0.6
 - Branch master for 0.7
 - Various branches for incomplete features
- IRC (#tracker in GIMPnet), mailing-list
- About online providers:
 - http://live.gnome.org/Tracker/TrackerWebService
- Some documentation:
 - http://live.gnome.org/Tracker/Documentation

Come and talk with us

- Tracker developers here around this week
 - Jürg Billeter
 - Ivan Frade
 - Carlos Garnacho
 - Martyn Russell
 - Jamie McCracken
 - Philip Van Hoof
- Participate, visit the BOFs!

