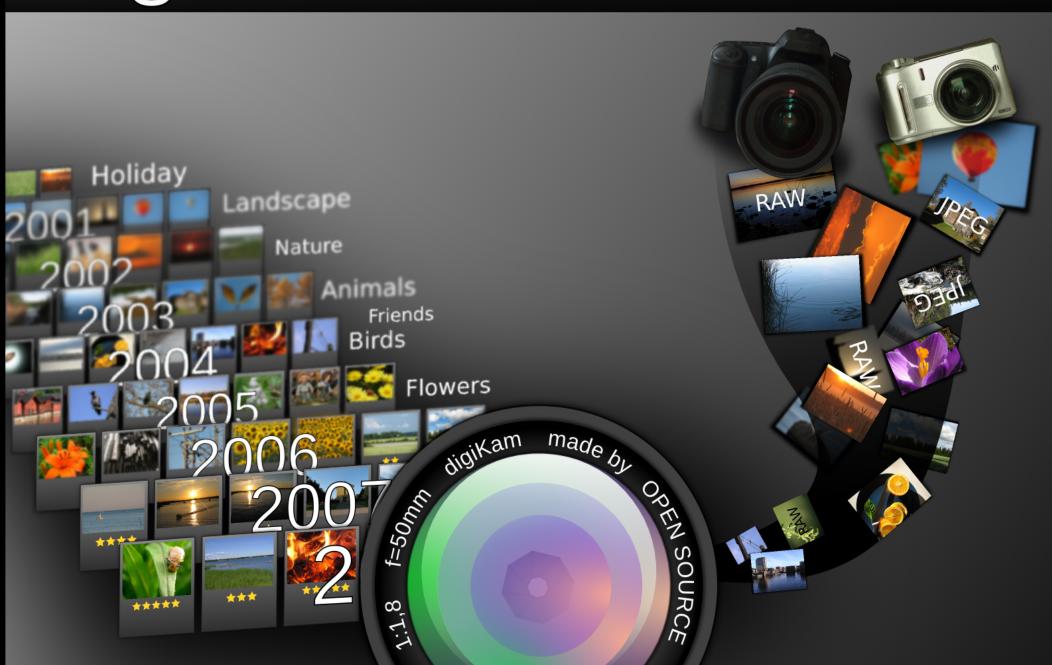
Manage your photographs like a professional, with the power of Open Source





# Summary:

- \* Digital photography
- \* Project overview
- \* digiKam 0.9.4:
  - Main interface
  - Camera interface
  - Image Editor
  - Plugin interfaces
  - Light Table
  - Search Tools

- \* digiKam 0.10.0:
  - What's new?
  - Geolocation
  - New search tools
  - Raw import
- \* Conclusion



# The world of digital photography:

### In last few years:

- \* Digital photography revolution
- \* Photograph workflow is speeding up
- \* Photographic items increase in number and size
- \* Photographers need a computer and software

### Computerized photographer:

- \* Huge image collections
- \* Talking to the camera
- \* Digital image editing
- \* Image cataloging and publishing

A solution : digiKam

Page: 3/16 Akademy 2008 2008/08/10



# **Project overview:**

### **About the program:**

- \* Started in 2002
- \* International team
- \* Open Source
- \* C++ (Qt / KDE)
- \* IRC / mailing-lists / bugzilla
- \* Web page / wiki
- \* Linux

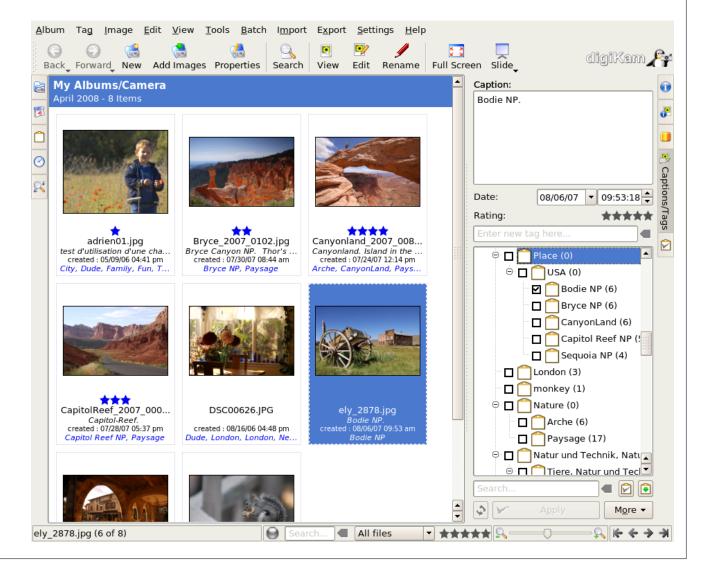
#### Goals:

- \* User friendly interface
- \* Photograph workflow:
  - Camera interface
  - Album management
  - Search tools
  - Export tools
- \* Extendable
- \* Handbook (as a book)



# digiKam 0.9.4

- Designed for KDE3
- Photographers' tools:
  - \* Albums view
  - \* Image Editor
  - \* Camera Interface
  - \* Light Table
  - \* Search Tools





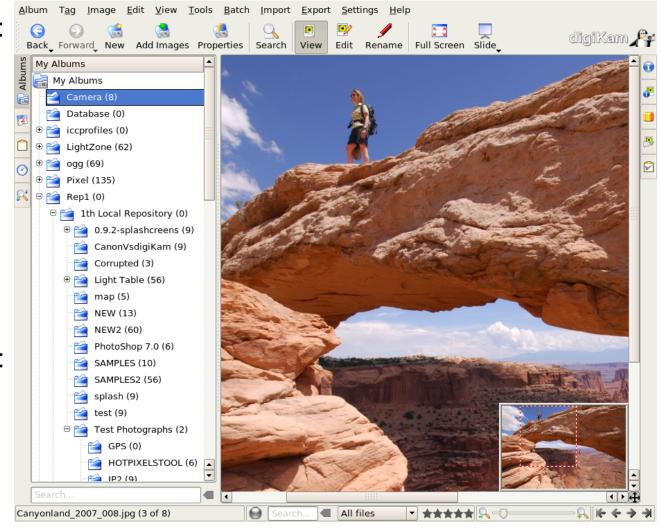
## **Main Interface:**

### Collections management:

- \* Albums Tree-view
- \* Icon-view
- \* Sidebars
- \* Fast preview
- \* Searching tools
- \* Sorting, filtering
- \* Comments, date
- \* Tags, rating
- \* Plugin interface

### Features per photograph:

- \* Histogram
- \* Metadata
- \* Color profile
- \* Geolocation





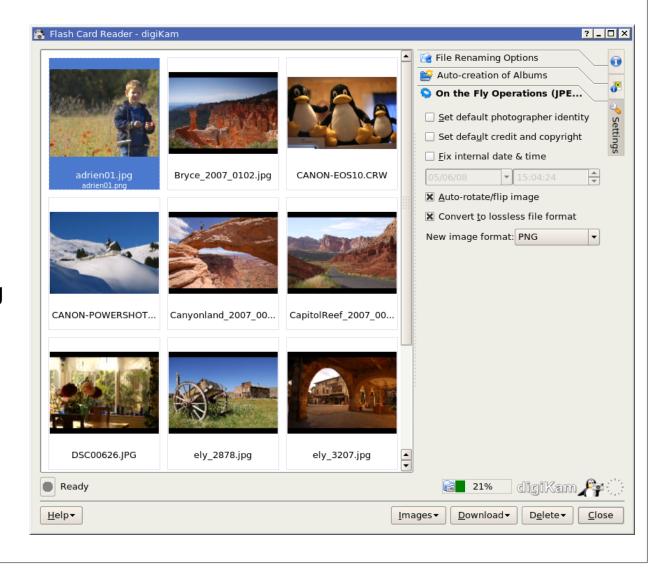
## **Camera Interface:**

#### Features:

- \* Gphoto2 front-end
- \* More than 900 cameras
- \* USB/IEEE protocols
- \* PTP
- \* Proprietary protocols
- \* Background downloading

#### Tools:

- \* Auto-fix (rotation/date)
- \* Auto-album creation
- \* Files renaming
- \* Exif-data owner marking
- \* Lossless conversion





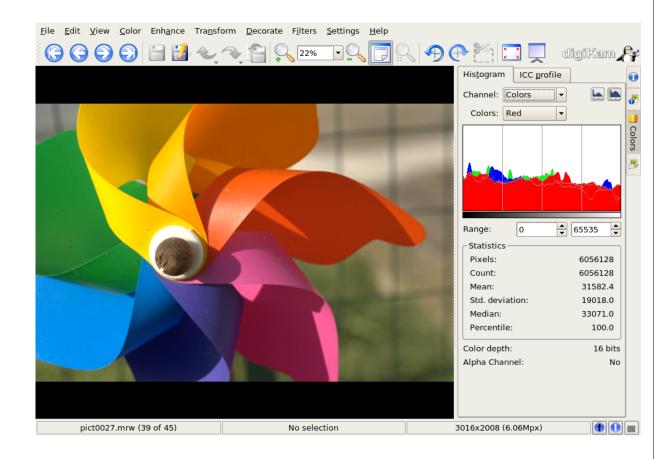
# **Image Editor:**

#### Features:

- \* Easy to use
- \* 16 bits color depth
- \* Raw support
- \* Color management
- \* Metadata preservation
- \* Plugin interface
- \* Stand-alone version

#### Tools:

- \* Refocus
- \* Noise reduction
- \* Red eyes
- \* Exposure/White balance
- \* Transform/Composition
- \* Decorations/Effects





# **Plugin Interface:**

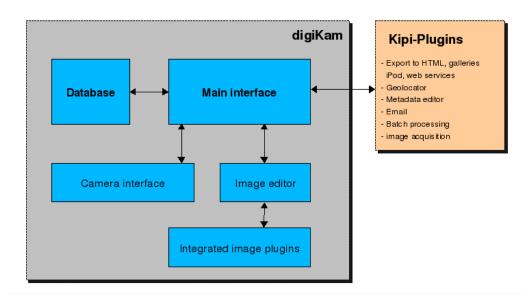
- \* Extended features
- \* 2 architectures

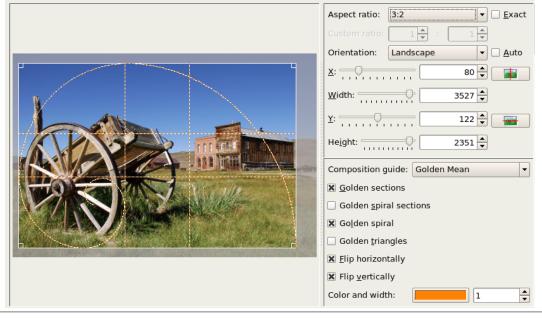
#### Main Interface:

- \* Export (email, html, galleries)
- \* Batch process
- \* Slide show (3D, DVD, flash)

### Image Editor:

- \* Ratio Crop
- \* Composition guides
- \* Effects (Infrared, film grain, ...)
- \* Corrections:
  - Restoration
  - Lens
  - Colors





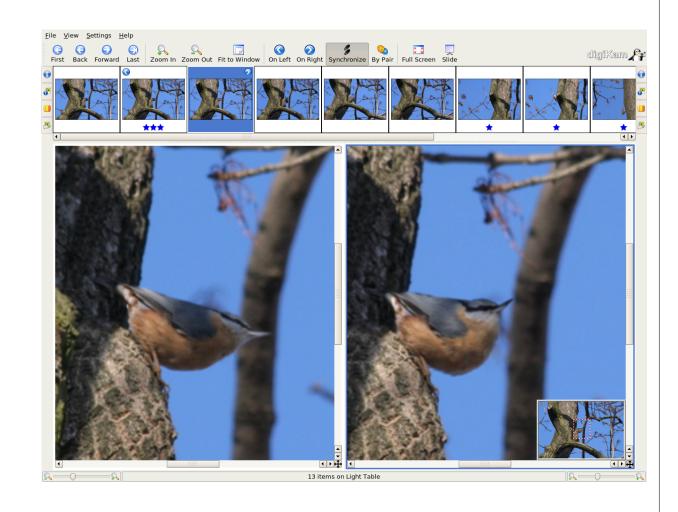


# **Light Table:**

- \* Virtual container
- \* Thumb-bar
- \* Compare
- \* Side by side
- \* 2 canvases
- \* Sync
- \* Zoom / scroll
- \* Fast loading

### To process:

- \* Sorting
- \* Selection
- \* Deletion
- \* Rating





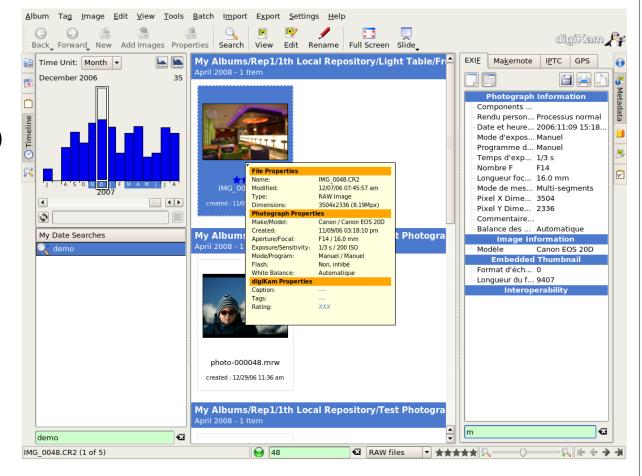
## **Search Tools:**

#### Database:

- \* Find photos
- \* By Date (Calendar)
- \* By time range (Time Line)
- \* With simple strings
- \* Advanced:
  - Albums
  - Comments
  - Tags
  - Rating
  - Date
  - Multiple queries

#### **GUI** contents:

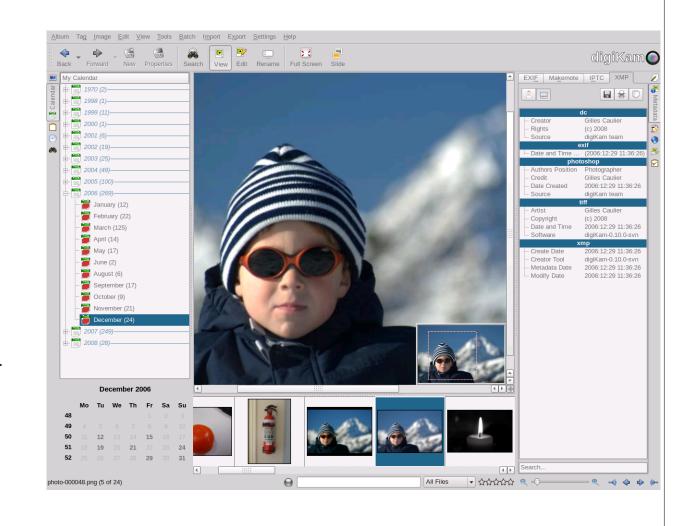
- \* Sorting items
- \* Album names
- \* Metadata
- \* Tag names





# <u>digiKam 0.10.0</u>

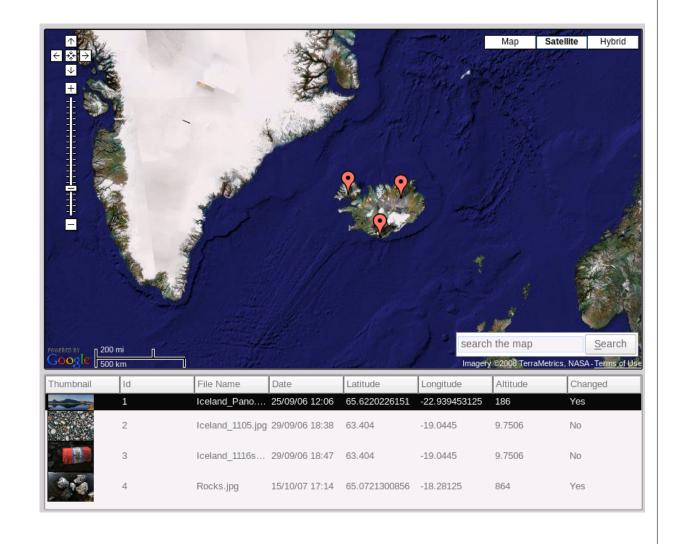
- Designed for KDE4
- New features:
  - \* Marble integration
  - \* Solid integration
  - \* **Phonon** integration
  - \* Multiple repositories
  - \* Remote storage
  - \* Network transparency
  - \* New Database schema
  - \* New Search tools
  - \* Thumbbar everywhere
  - \* Auto Lens correction
  - \* Camera Capture tool
  - \* XMP support
  - \* Portability (Mac / Win)





### Geolocation

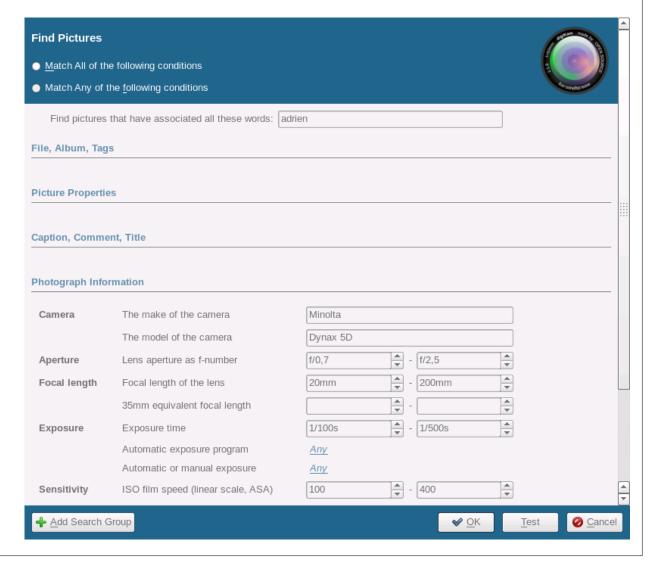
- GPS <=> camera
- New DB => GPS info
- All file formats
- Plugin GPSSync
- GoogleMap: editing
- Marble: visualization
- Export to KML
- To finalize:
  - \* Search tool using map
  - \* Tracklist viewer





### **New Search Tools**

- Back-end fully rewritten
- New DB => more metadata
- Photo properties
- "Fuzzy" search (Haar)
  - \* Find dupplicates
  - \* Find using sketch painted
- TODO:
  - \* DB over network
  - \* **Nepomuk** support





# **RAW Import**

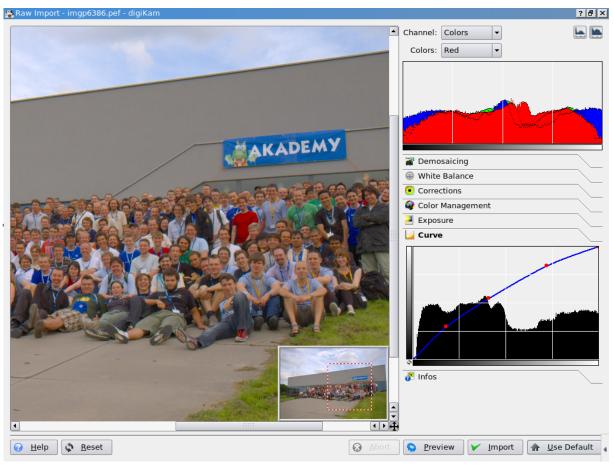
Pre-loading in editor

### 2 stages:

- Demosaicing:
  - \* Customize settings.
  - \* Apply corrections (Lens, NR)
  - \* Color Adjust.
- Post processing:
  - \* Exposure.
  - \* Linearity.

#### Provide:

- Zomming/panning.
- Mutithreaded.





### In conclusion:

### digiKam goals:

- \* Be the most easy to use
- \* Adapts for casual photographers
- \* Provides advanced features for professional photographers

#### The future:

- \* Versioning
- \* Actions list
- \* Backup tool
- \* Batch queue manager
- \* RAW metadata writing (Exiv2)
  - ==> version **1.0.0**
- \* Unified Web export tool (Coherence ?)
- \* DNG writing?

More informations: www.digikam.org

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