digiKam

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**
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
digiKam 0.10.0

- 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

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New Search Tools

- Back-end fully rewritten
- New DB => more metadata
- Photo properties
  - “Fuzzy” search (Haar)
    * Find duplicates
    * 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