

digikam

Organizing photos on GNU/Linux & OS X

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- ▶ Why digikam?
- ▶ Connecting the camera
- ▶ digikam features
- ▶ digikam on OS X
- ▶ More or less useful tips
- ▶ Links
- ▶ Demo

- ▶ During the last years
 - the digital photography rose tremendously
 - more and more photos
 - photos getting bigger and bigger in size

- ▶ How to organize all the photos?
- ▶ Photo manipulation?
- ▶ Photo presentation?

digikam can be a solution!

- ▶ digikam is a nice tool for:
 - organization of photos
 - Comments
 - Tags
 - Ratings
 - handling RAW photos
 - more than 200 camera file formats supported
 - doing simple photo modifications
 - contrast, saturation, red eye correction, ...
 - Kipi plugins
 - creating HTML albums
 - exporting your gallery to flickr.com
 - ...

▶ Camera interfaces

- The good thing: every camera with a storage card can be used with GNU/Linux
- 3 kinds of interfaces:
 - PTP (Picture-Transfer-Protocol)
 - USB-Storage
 - Manufacturer specific interface

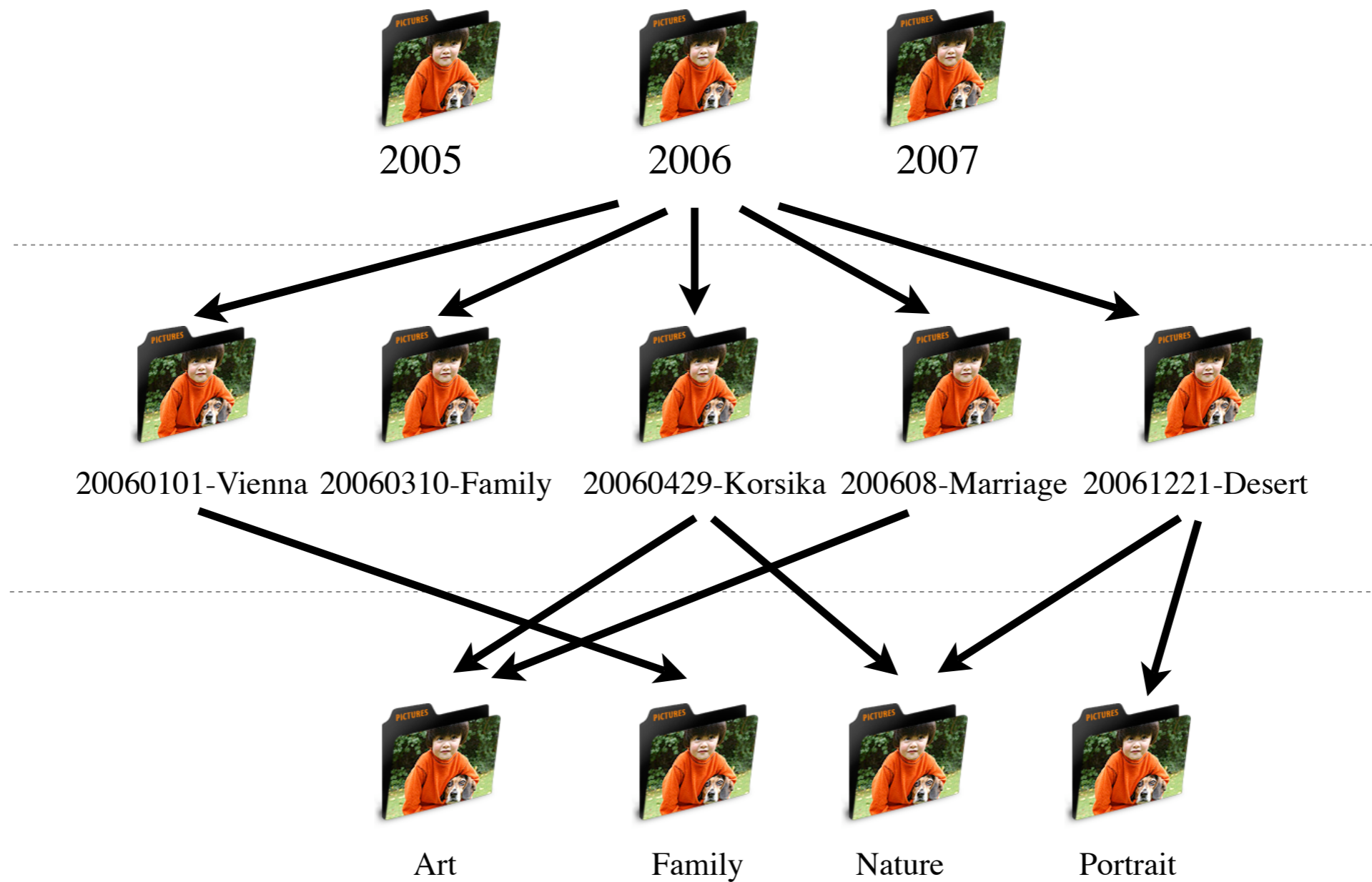
▶ USB/PTP and GNU/Linux

- Today very easy (most times ;-)
- gphoto
 - 818 supported cameras
- No special configuration necessary for
 - Ubuntu/Kubuntu
 - Gentoo

- ▶ RAW, TIFF, JPEG, PNG

- ▶ RAW
 - format, containing additional information of the photo
 - different format, depending on manufacturer
- ▶ TIFF (Tagged Image File Format)
 - 64bit depth
 - lossless compression -> huge filesizes
- ▶ JPEG (Joint Photographic Experts Group)
 - 24 bit color depth (16.7 million colors)
 - lossy compression
- ▶ PNG (Portable Network Graphics)
 - 24 bit color depth (16.7 million colors)
 - lossless compression

▶ Proposed 3 level structure



- ▶ Scale
- ▶ Rotate
- ▶ Resize
- ▶ Crop
- ▶ Brightness, contrast, ... correction
- ▶ Remove red eye effect
- ▶ Convert to black&white, sepia, etc.
- ▶ Sharpen
- ▶ ...

▶ Kipi-plugins (KDE Image Plugin Interface)

- NEW FlickrExport: export images to a remote Flickr web service.
- NEW SimpleviewerExport: export your images in a nice flash movie.
- NEW HTMLGallery: export your images to HTML
- RawConverter: A raw image converter for digital cameras.
- SlideShow: Slideshow with effects ripped out from kslideshow and 3D effects using OpenGL.
- MpegEncoder: Create an MPEG slideshow from your images.
- PrintWizard: A wizard to print images in various format.
- JpegLossLess: Batch process your JPEG images without losing meta information and compression.
- CdArchiving: Archive your albums on CD or DVD using K3b.
- ScanImages: Scanner management using Kooka.
- ScreenshotImages: Snap screen based on KSnapshot and adapted to Kipi.
- Calendar: A plugin to create calendars.
- SendImages: A plugin to send images by email, allowing resizing and recompressing before sending.
- RenameImages: Batch image renamer.
- ConvertImages: Batch image converter.
- BorderImages: Add border to your images in batch.
- FilterImages: Batch image enhancer using digital filters.
- ColorImages: Batch image color enhancer.
- EffectImages: Batch image transformation effects.
- ResizeImages: Batch image resizer.
- RecompressImages: Batch image recompressor.
- FindDuplicateImages: Find duplicate images in albums.
- WallPaper: Set your image as wallpaper.
- TimeAdjust: Adjust image file time and date.
- GalleryExport: Interface for export images collections to remote Gallery web server.
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▶ More?

→ wait a few minutes and follow the “Gimp presentation”.. ;-)

- ▶ Slideshow
 - ➔ digikam
- ▶ Web gallery
 - ➔ digikam
- ▶ Printout's
 - ➔ Many online services
 - [snapfish.\[be,de,fr,lu\]](#)
 - [fotokasten.de](#)
 - ...
- ▶ Photo-CD

- ▶ No OS X package
- ▶ No fink
- ▶ No Darwin port

- ▶ ... but it's possible...

- ▶ Apple Developer Tools (XCode 2.4)
- ▶ Installation of XDarwin (XFree X86 4.50) (via fink)
- ▶ Installation of KDE (via fink)
- ▶ Installation of some libraries by hand:
 - exiv2
 - libgphoto2
 - jpeg6b
 - lcms

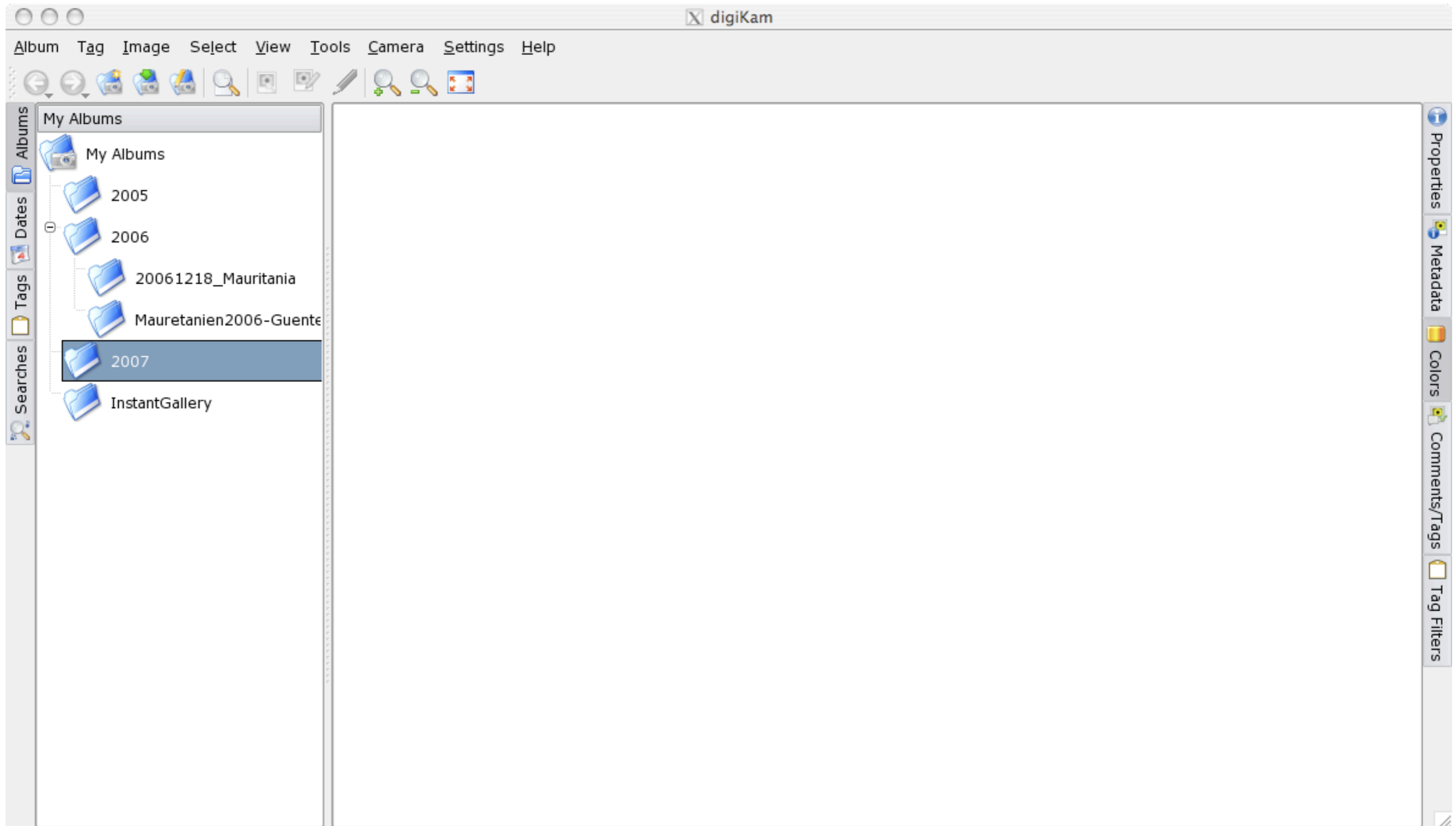
▶ ... and digikam (0.9.0)

▶ Checkout latest stable svn source:

- # svn co -N svn://anonsvn.kde.org/home/kde/branches/stable/extragear/graphics
- # cd graphics
- # svn up digikam
- # svn up digikamimageplugins
- # svn co svn://anonsvn.kde.org/home/kde/branches/KDE/3.5/kde-common/admin

▶ ... and compile it:

- # export UNSERMAKE=no
- # make -f Makefile.cvs
- # ./configure
- # make
- # make install (optional)



▶ Experience:

- Performance: fine ...
- Direct import from camera doesn't work yet
- Stability: it's crashing sometimes... :-)

▶ Conclusion

- It's ok, but some additional work has to be done ;-)
- OS X Package planned... but when?

- ▶ Keep the original photo, work only with a copy!

- ▶ Backup your photos
 - 2nd Disk
 - DVD
 - Online backup

- ▶ Organize well ;-)

- ▶ digikam: <http://www.digikam.org>
- ▶ <http://www.ebv4linux.de>
- ▶ Supported Cameras: <http://www.gphoto.org/proj/libgphoto2/support.php>

- ▶ Online album
 - <http://flickr.com>
 - <http://www.smugmug.com>

▶ Let's go Marc! ;-)