Beyond Hugin

Future development in Hugin Project

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Current Development

- Hugin
 - feature rich, more and more technologies
- · Fairly well received
 - by advanced users
 - most comments are in minor usability
- How about those people don't use Hugin?
 - maybe too difficult for them

Where to go

- One maturing foundation
- Two target users
 - Panorama photographers (pro/hobby)
 - Casual users (looking for "iPano ")
- in one application?
 - ...No, need two applications!

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New GUI, New App

- Panorama for everyone
 - different target user
 - whole new GUI in Qt
 - not Hugin anymore (call it "Munin" here)
- Hugin can adopt advantages as matures
 - including core components of GUI in Qt

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Munin's Infterface

- Simple is the best
 - intuitive and interactive
 - priority in usability
 - over available features and flexibility
 - based on what users should see
 - not on what software does internally

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Hugin for dummies add multiple photos set camera and lens info (Exif helps) lay them out (on a sphere surface)

4. put them together (into a flat surface)

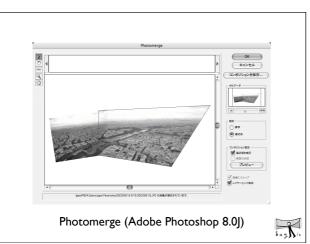
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Munin's workspace

- Workspace view (main)
 - image shelf (images yet to be added)
 - interactive sphere surface (cf. VR viewers)
- Editor view
 - list of all images / lens-camera editor
- Output view
 - interactive preview
 - (list of outputs)

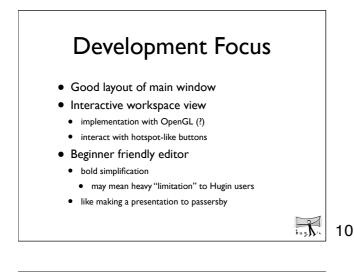


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Munin vs Photomerge

- Photomerge
 - interactive, with drag and drop
 - not powerful enough for nice panorama
- Hugin's tool chain
 - less automatic
 - currently a bit slow for interactive
 - based on far more powerful model

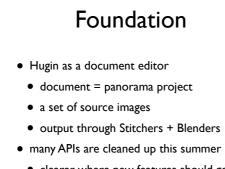
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The New GUI

- New GUI, New App
 - tentative codename "Munin"
 - panorama for everyone
 - interactive interface like Photomerge
- use (subset of) Hugin's foundation
- Its foundation in Qt just started

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• clearer where new features should go

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Foundation - ongoing

- Object-orientated accessor methods
 - old ones to be deprecated
- New output process
 - centred around batch processing
 - Hugin edits perspective and projection
 - out as Command-line scripting in makefile
- Better automatic control-point (Zoran)

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Foundation - future

- Some cleanups left
 - internal API of Nona stitcher engine
 - flexible linked variables (Lens/Camera)
- Multiple outputs in a project
 - same scene (one set of photos)
 - multiple outputs (eg. different perspective)
- Speed-up in the remapping process

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What about Hugin?

- Continue on current line
 - New technologies
 - Exposure optimization
 - Feature matching
 - For advanced users
 - HDR, Batch processing

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Hugin's Development

- Usability
 - collect feedback from the user
 - incrementally improve on current code
- Foundation
 - general stability and speed-up
 - more in data structure (linked variables / multiple outputs)

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Conclusion

- Development in two directions
 - all new Simple and Easy panorama app
 - add panorama making to the "multimedia hub"
 - to become the basis of next generation Hugin
 - continuing development of Hugin
 improving foundation / adding new technology
 - some effort in GUI improvement

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