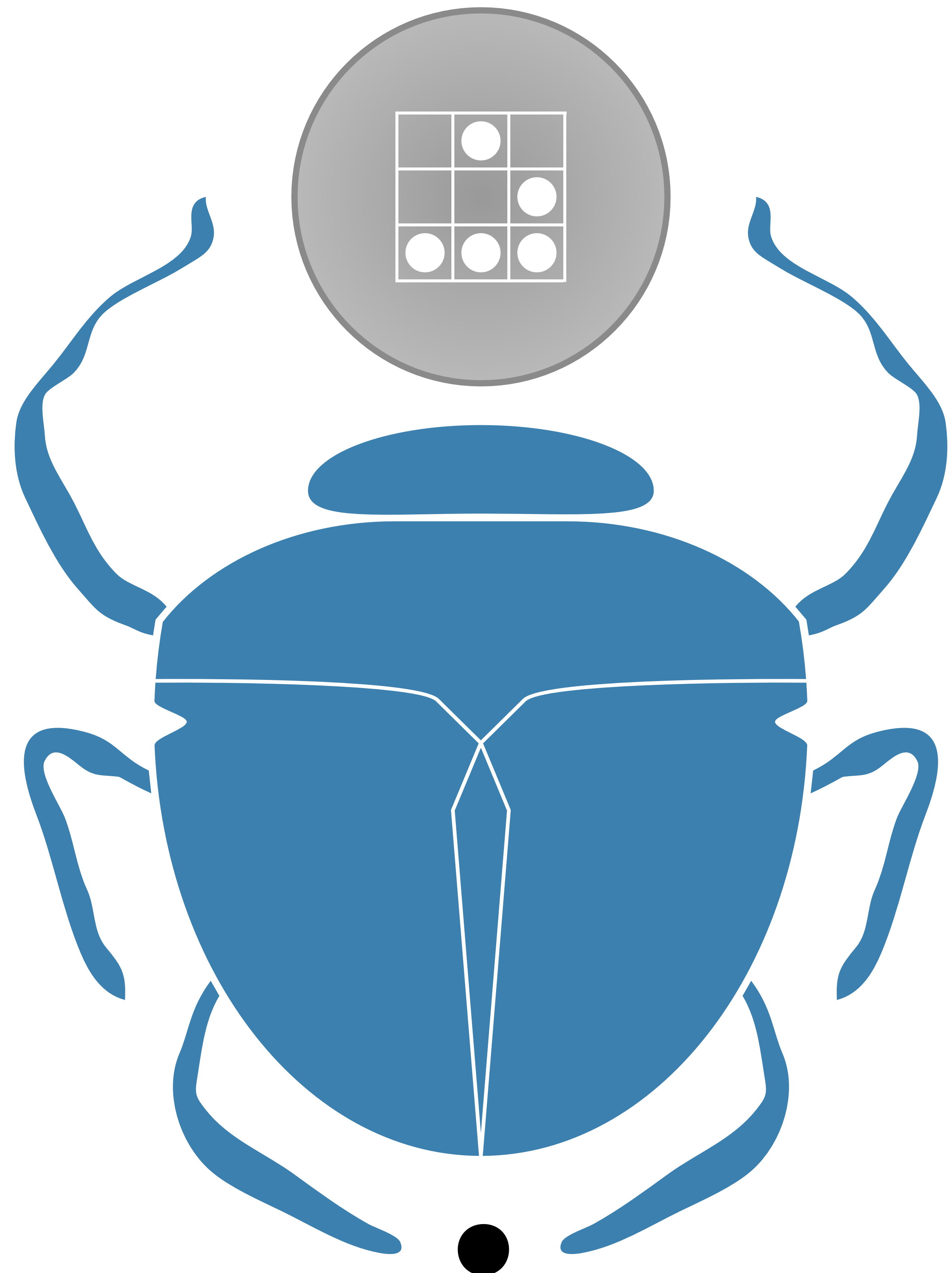


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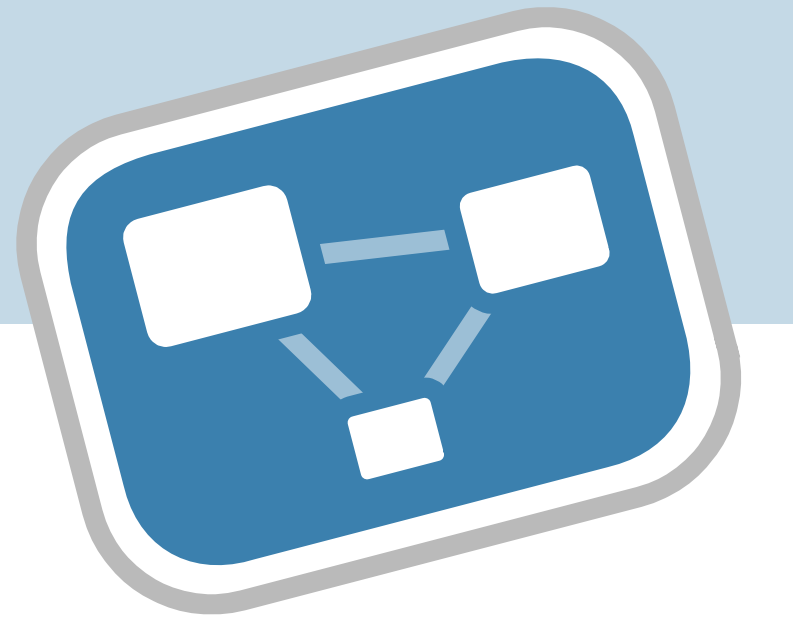
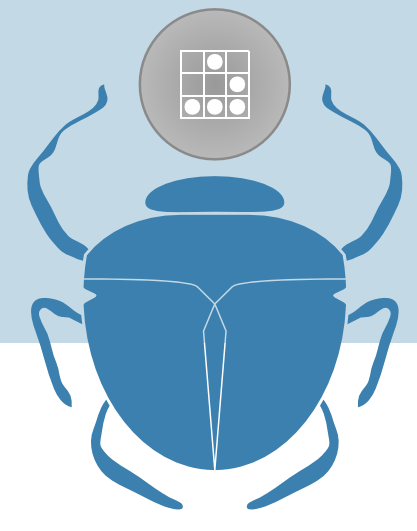


cairo

Carl Worth

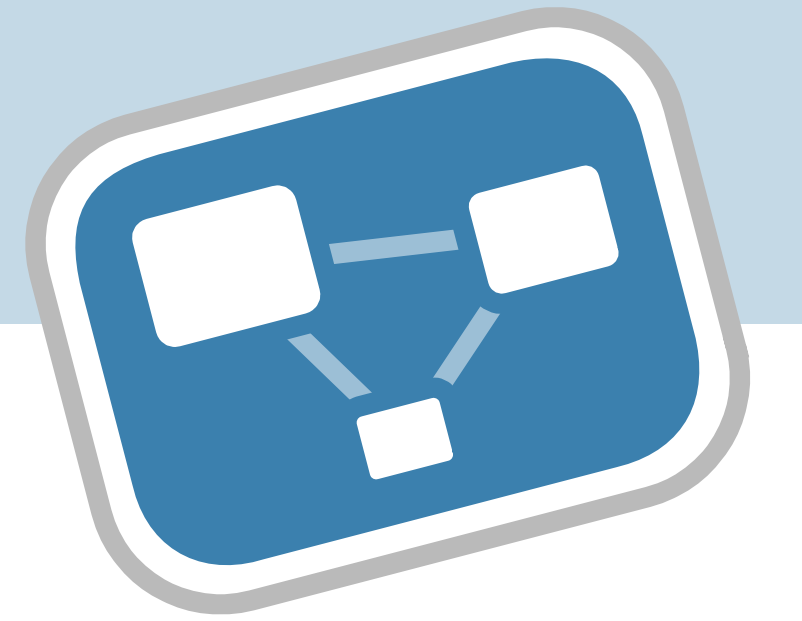
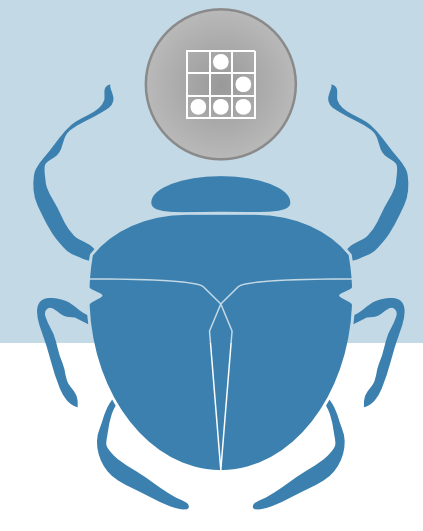
X Developers' Conference

2005-02-13



## Overview

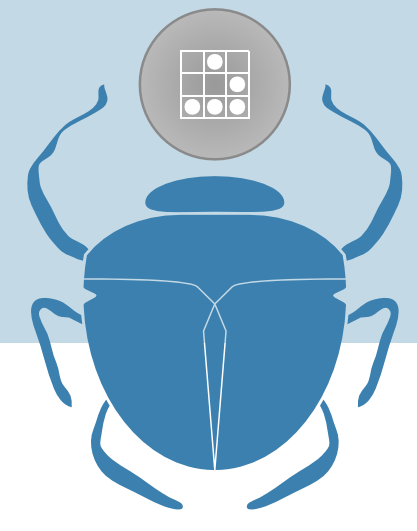
- How far have we come?
- Where are we going?
- What's it going to take to get there?



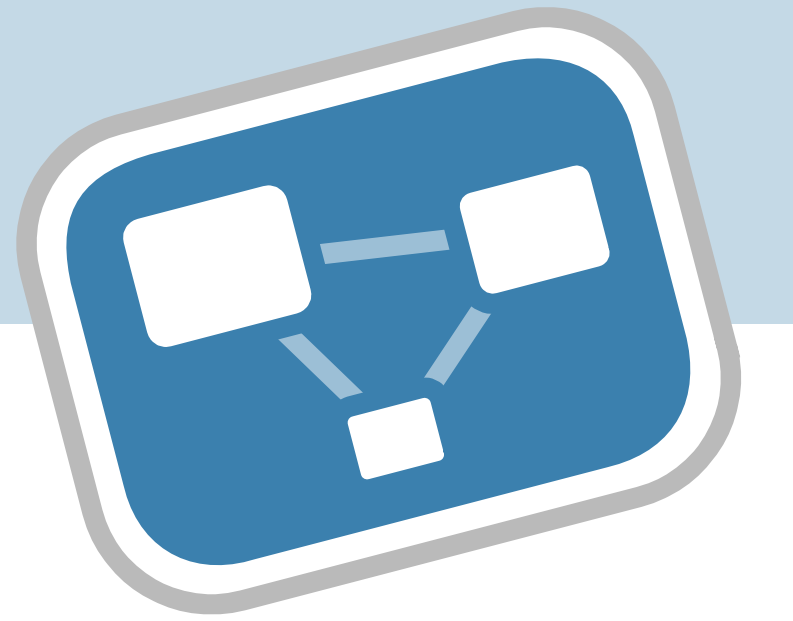
## How far have we come?

- Lots of progress since last year:
  - New backends
  - New developers
  - New applications
  - New bindings
  - New license (LGPL + MPL)
  - Performance improvements





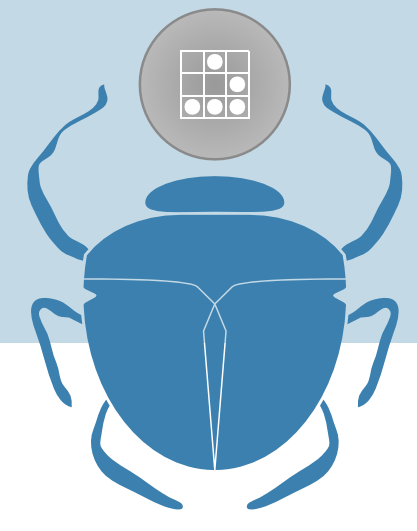
# cairo



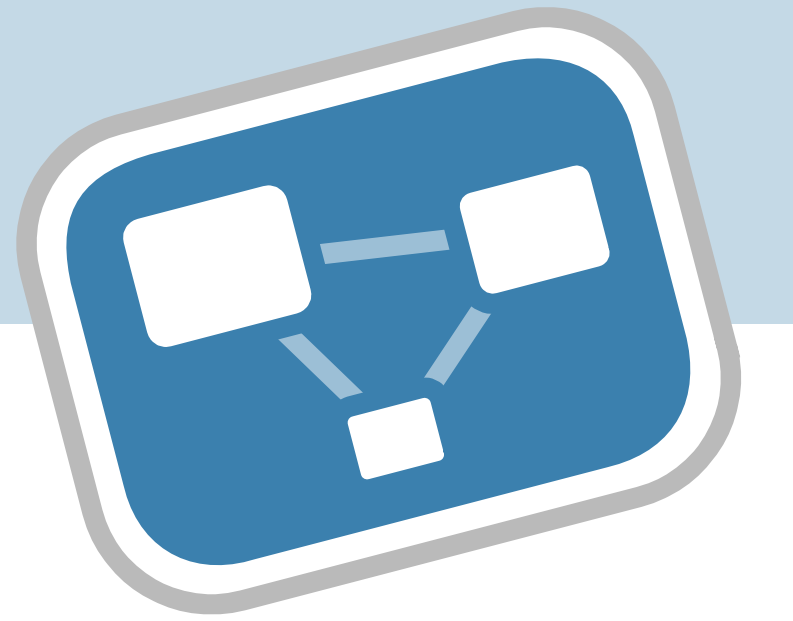
Backends as of 2004-04

- OpenGL (glitz)
- X Render Extension
- Core X graphics
- In-memory image
- Postscript
  
- Planned: PDF, Mac OS X (Quartz), Win32



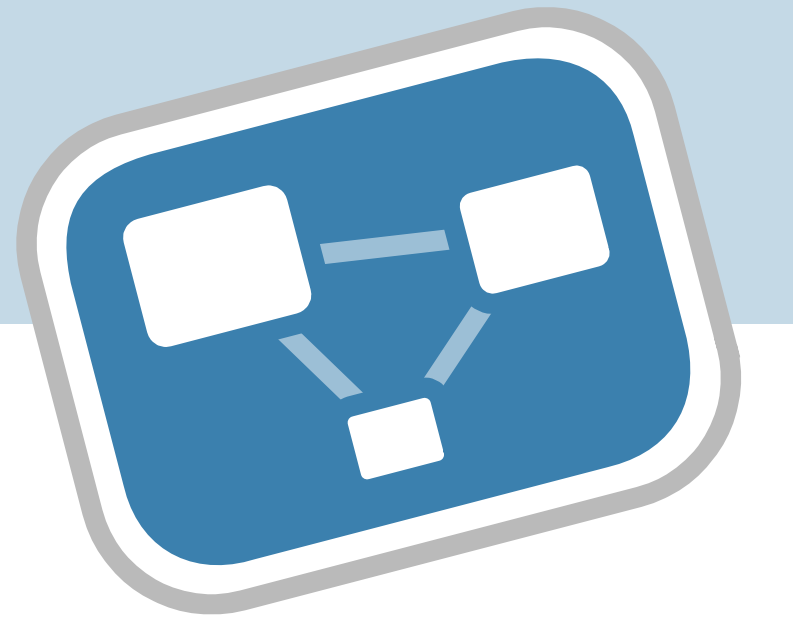
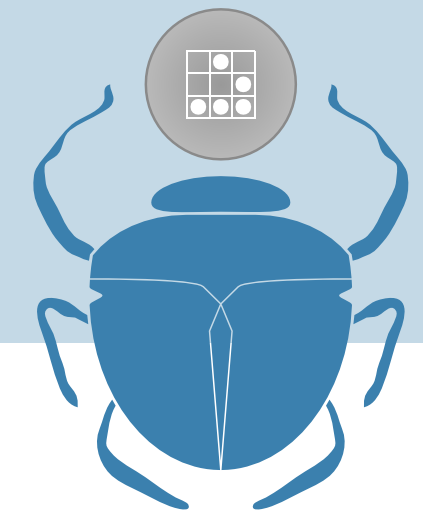


# cairo



## Backends as of 2005-02

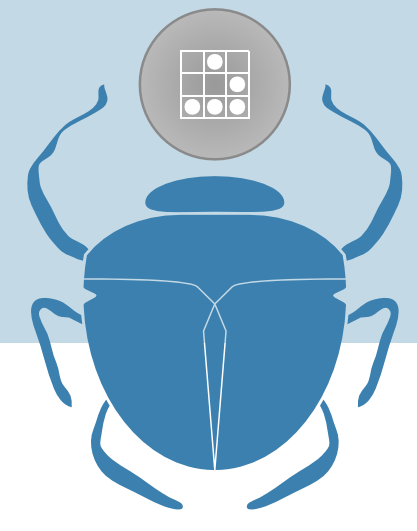
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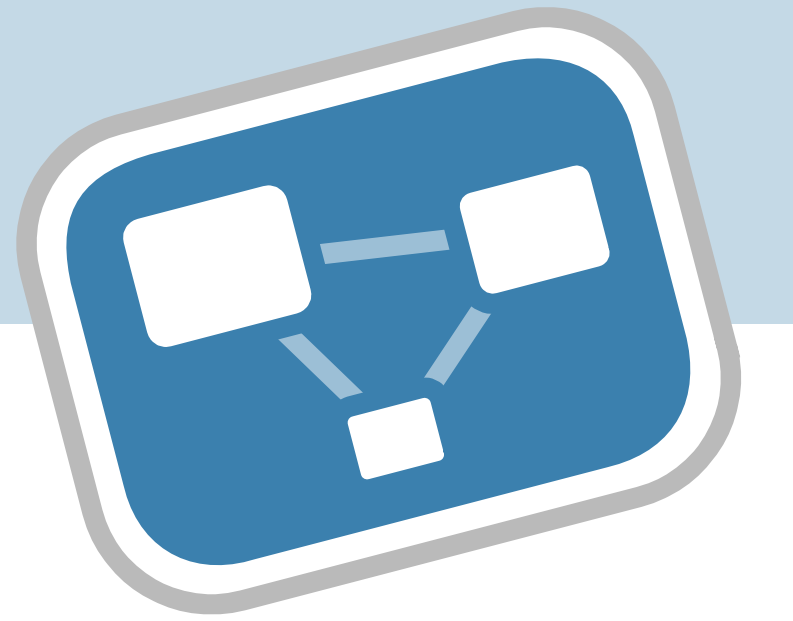
## New developers

- Alexander Larsson
  - Profiling, performance improvements
- Kristian Høgsberg
  - PDF backend, backend interface
- Calum Robinson
  - Quartz backend
- Owen Taylor
  - Win32 backend, font rewrite, gtk-doc





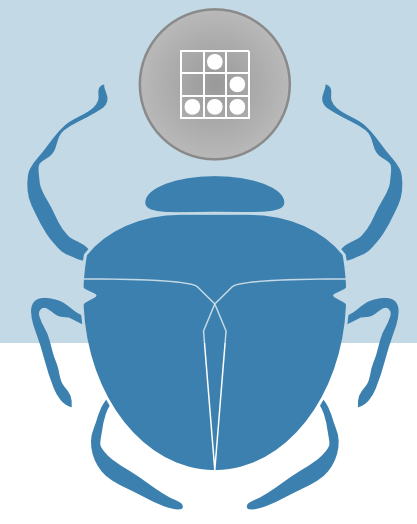
# cairo



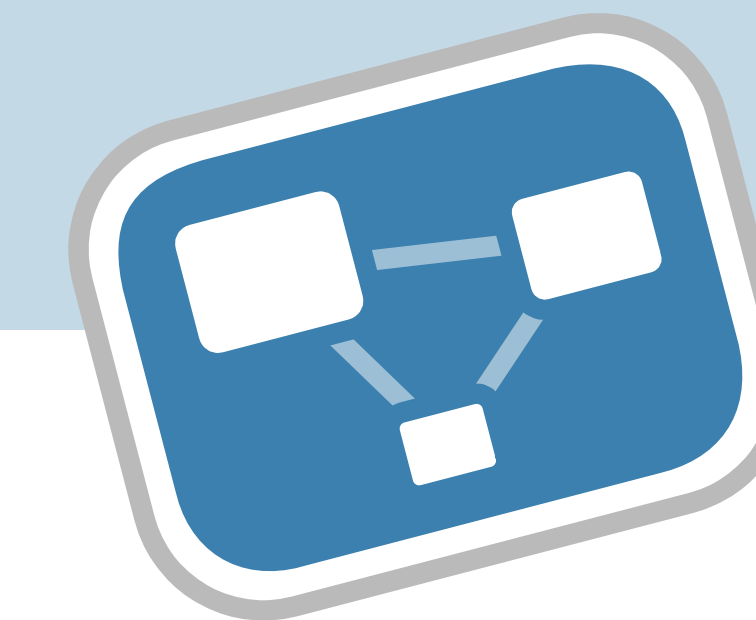
## New applications

- Dia
- Gtk+/Pango
- Mozilla
- Scribus
- Swfdec
- Squeak
- Xpdf
- etc.

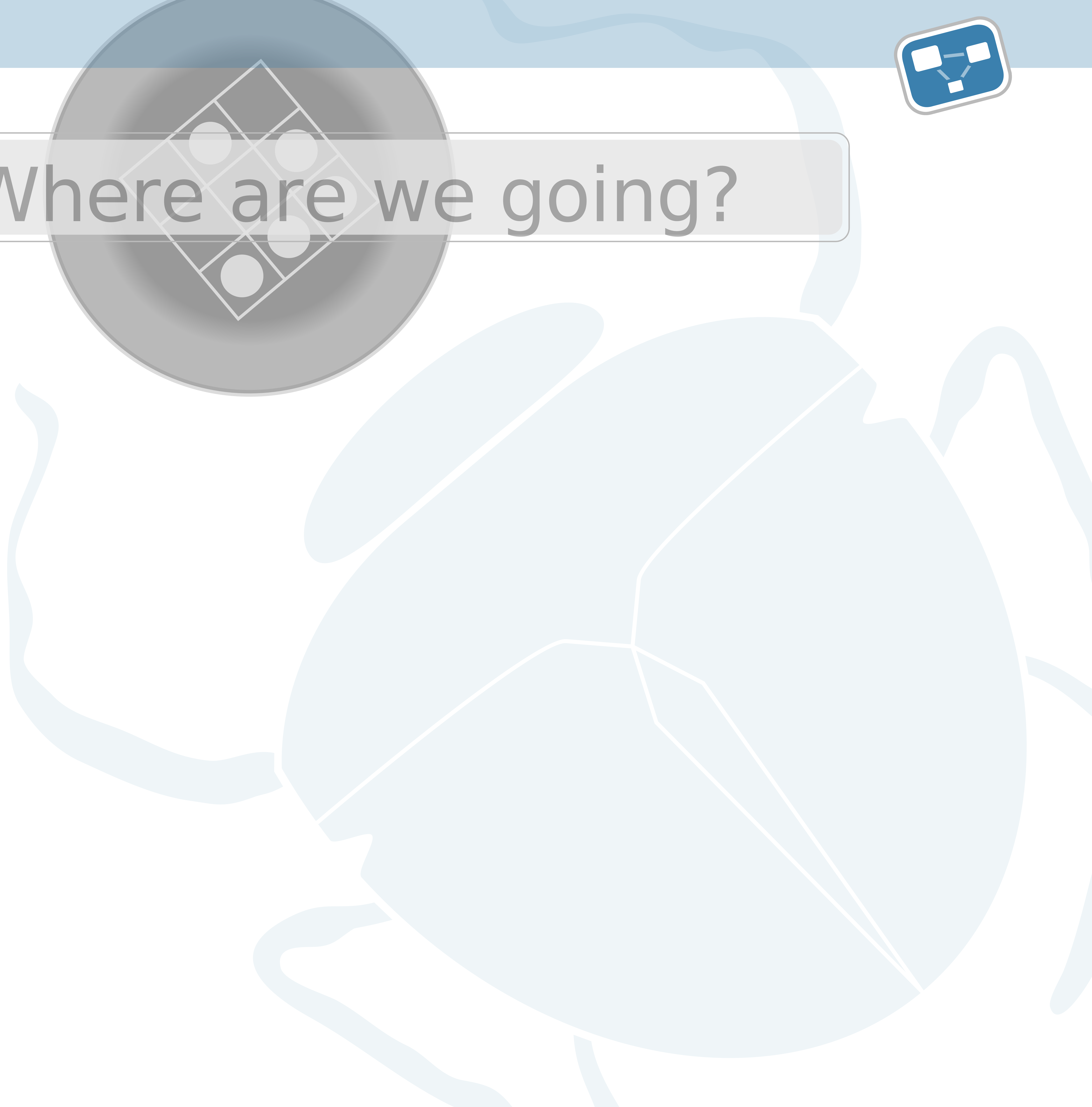


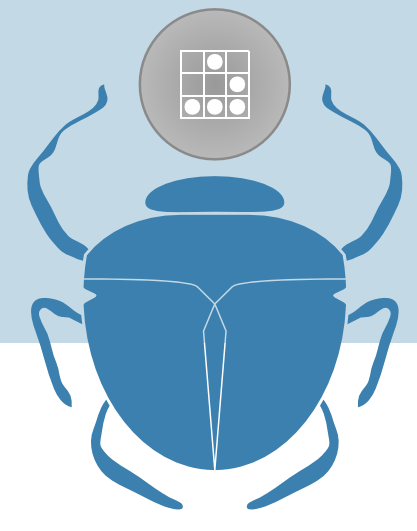


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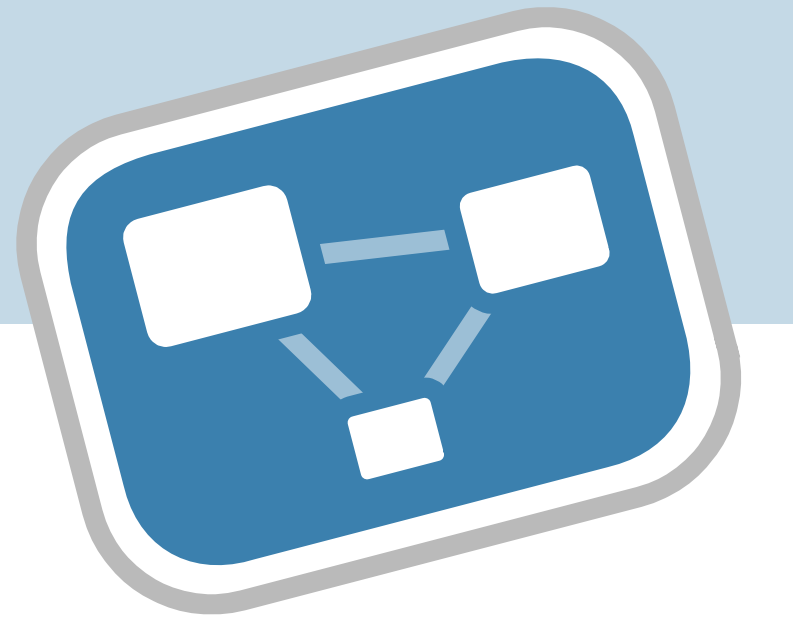


Where are we going?



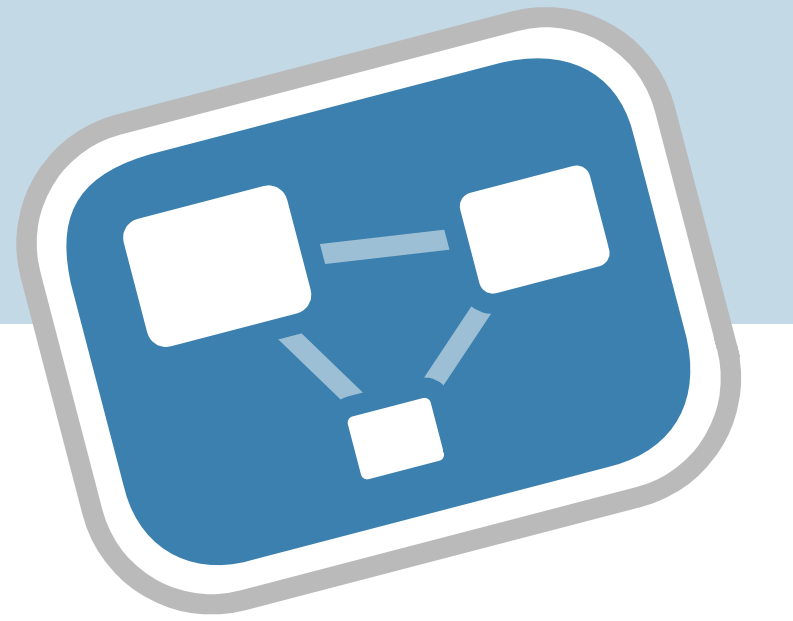
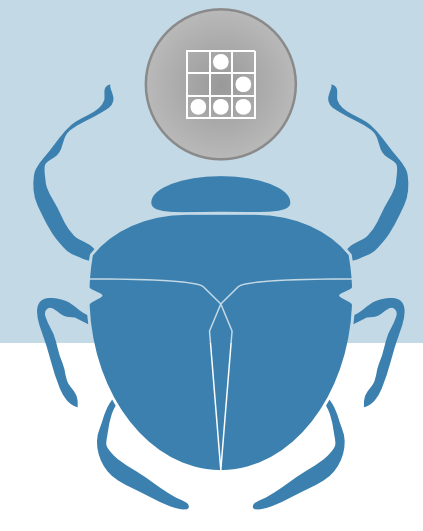


# cairo



Where are we going?

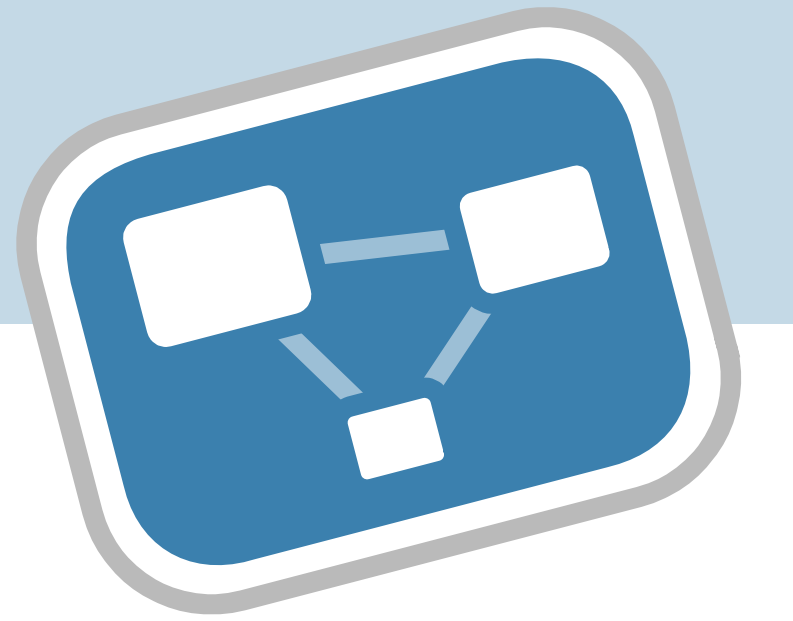
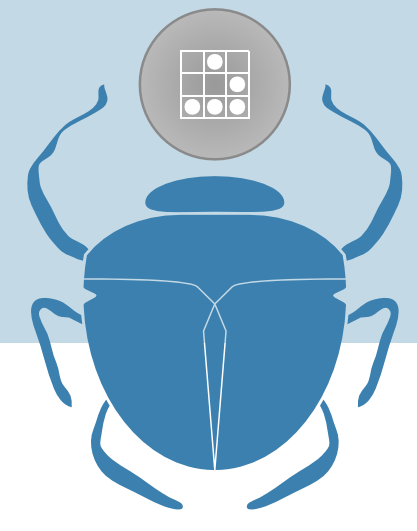
- cairo 1.0
  - Before Gtk+ 2.6 (August 2005)
  - Hopefully May or June 2005



## How to get there

- API stabilization
- Testing
  - Test suite infrastructure in place
  - Needs to test more backends
  - Need more tests
- Performance
  - Profiling with real applications





## API Issues

- Rendering equation (clipping)
- Mask support
- Destroy notifiers?
- Transparent datatypes
  - `cairo_matrix_t`
  - `cairo_path_t`
- Group rendering



(all slides rendered with cairo)