Project Ridley and GTK+ 2.10

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Agenda

- Project Ridley
- GTK+ 2.10 goals and schedule
- Overview of new features
 - GLib/Pango
 - Widgets
 - Other improvements
- Summary



Project Ridley

- Effort to consolidate the platform
- Moving useful bits of libgnomeui, libgnomeprint*, libgnomecanvas, libegg, libeel and libglade into GTK+
- Make platform smaller and easier to understand and maintain



GTK+ 2.10 goals

- Major themes for GTK+ 2.10 are:
 - Platform consolidation (Ridley)
 - Printing support
 - Touchscreen mode



Schedule

- Glib and GTK+ version numbers out of sync due to performance work
- Glib 2.10.0 supposed to be released really soon now
- Pango 1.12.0 will follow shortly after
- Target date for GTK+ 2.10 is May this year



Glib 2.10

- Focus on performance
 - GSlice; deprecated GMemChunk
 - Optimized UTF8 routines
- UTF8 support updated to Unicode 4.1



Pango 1.12

- Unicode 4.1 updates
- Mac OSX ATSUI support
- A lot of optimizations



Overview of GTK+ 2.10

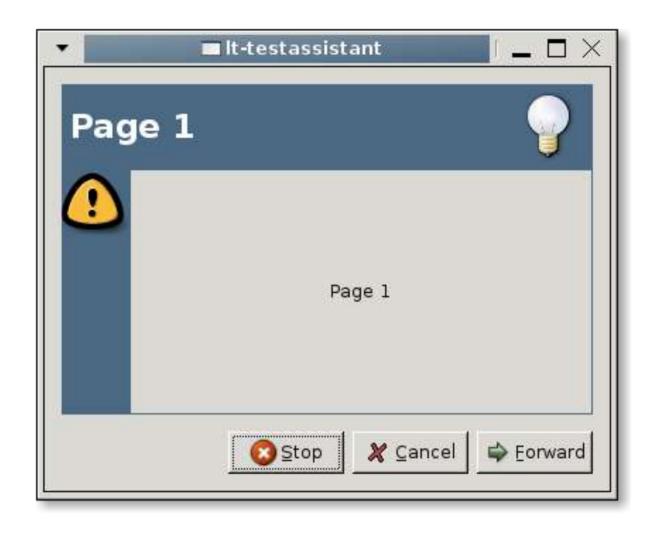
- New widgets
- Already in CVS



GtkAssistant

- New API for creating wizards
- Will replace GnomeDruid
- Single class; no separate class for pages







GtkLinkButton

- Replaces GnomeHRef
- Global hook function for URI handler

<u>Link Button</u>



GtkCellRendererAccel

- A cell renderer for displaying and editing accelerators
- Famous from the GNOME keybindings capplet
- Previously known as EggCellRendererKeys and GtkCellRendererKeys



GtkStatusIcon

- Cross platform tray icon API
- Also support for win32 tray icons
- Port of EggStatusIcon/EggTrayIcon



Overview of GTK+2.10 - 2

Other improvements



GtkFileChooser

- Lots of optimizations in this area
- Bug fixes, improvements
- Work has been done on making the file chooser fully asynchronous



Platform support

- Mac OSX backend has been added to HEAD a few months ago
 - GTK+ apps can now run natively on OSX
 - Drawing done via Quartz/CoreGraphics
- DirectFB backend made its way to HEAD
 - Updated, now has Cairo support
- And lots of win32 backend updates



Maemo GTK+

- Contribution of Maemo GTK+ patches from Nokia
- Features and bug fixes
 - Closing and migrating to other displays
 - Several theming improvements
 - Configurable button timeouts
 - Rich Text copy/paste for GtkTextBuffer
 - Many more



Long outstanding bugs...

- ... deserve special attention:
 - Notebook DnD
 - Scroll menu patch (big empty area in popup menus)



Overview of GTK+ 2.10 - 3

Projects in progress



Recent files

- Universal interface for
 - Recently opened files
 - Bookmarks
- GtkRecentManager keeps track of the recently used resources
- Widgets to display recently used items



libglade

- Widely used
- Integrate functionality inside GTK+
 - Drops another dependency from the list
 - Encourage people to take advantage of glade



Printing

- Cairo based
- High level cross platform API
- Use native print dialogs
- Support printing without opening UI



A new canvas

- Cairo based
- Replace GnomeCanvas
- Multiple canvases around, no clear candidate yet
- Not sure if one will be ready in time



Tooltips

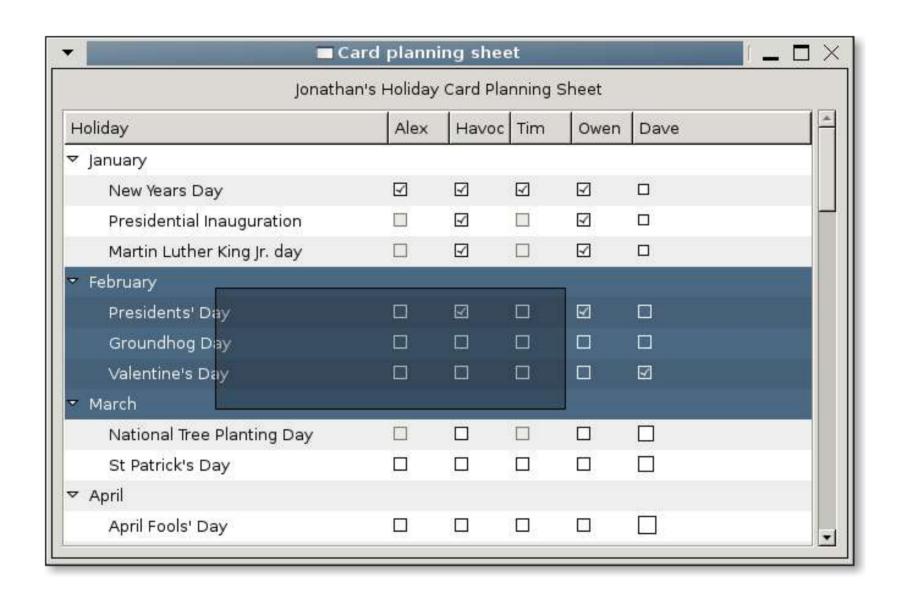
- Tooltips on GtkTreeView frequently requested
- Rework of the tooltips API needed
- No separate tooltips object, multiple/dynamic tooltips per widget



GtkTreeView improvements

- Rubberbanding
- Tooltips on rows/cells
- Much improved filter and sort models
- More flexible search entry
- Multiple row DnD? ...







Overview of GTK+ 2.10 - 4

- Numerous additions and bug fixes all over GTK+
- Way too much to mention here
- Be sure to read the release notes once GTK+ 2.10 is released



Summary

- Optimization work in Glib/Pango
- Project Ridley: Consolidate the platform
- GTK+ 2.10: Exciting new release
 - New, useful widgets
 - OSX and DirectFB backends
 - Printing
 - Canvas



More information

- GTK+ Team meeting
 - Usually on Tuesdays 20:00 UTC
 - Logs on http://www.gtk.org/plan/meetings/
- gtk-devel-list
- http://live.gnome.org/ProjectRidley
- Infrequent blog entries (Planet GNOME)



Questions?