

# 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



# 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? ...



Jonathan's Holiday Card Planning Sheet					
Holiday	Alex	Havoc	Tim	Owen	Dave
▼ January					
New Years Day	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Presidential Inauguration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Martin Luther King Jr. day	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▼ February					
Presidents' Day	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Groundhog Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Valentine's Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
▼ March					
National Tree Planting Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
St Patrick's Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▼ April					
April Fools' Day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# 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](mailto:gtk-devel-list)
- <http://live.gnome.org/ProjectRidley>
- Infrequent blog entries (Planet GNOME)



Questions?