Introduction
Hildon widgets library

- Set of widgets built on top of GTK+

- Created for Nokia devices based on the Maemo platform:
  - Nokia 770
  - Nokia N800
  - Nokia N810
  - **Nokia N900**

- Released under the GNU LGPL

- Used also in other projects (e.g Ubuntu Mobile)
Maemo 5 - Fremantle

• Maemo release for the Nokia N900

• Modern, usable and finger-friendly UI

• Completely revamped user interface, very different from all previous versions

• Hildon 2.2.0 released on 24 September 2009
Hildon 2.0: Modest

http://www.flickr.com/photos/yerga/ / CC BY-NC 2.0
Hildon 2.0: Modest

http://www.flickr.com/photos/yerga/ / CC BY-NC 2.0
Hildon 2.2: Modest

Re: [Mono-dev] mono-xsp problem: page(s) does not participate...
Marek Habersack 10:30 am

[Mono-dev] mono-xsp problem: page(s) does not participate...
manfred.braun 10:21 am

Re: [Mono-dev] System.Configuration patches
Chris Toshok 11:50 am

Re: domain related mail
David L. Potter 7:40 am

Re: Where to find Zmailer-FAQ?
Andrzej Stella-Sawicki 7:40 am
Hildon 2.2: Modest

From: Claudio Saavedra <csaavedra@igalia.com>
To: agarcia@igalia.com
Subject: The talk

Here goes the presentation. Have a look at it!
Hildon source lines of code

- Hildon 1.0 (16 Apr 2007): 23,026
- Hildon 2.0 (10 Oct 2007): 23,690
- Hildon 2.2.0 (24 Sep 2009): 36,291
Hildon 2.2: the Fremantle release

- Applications as window stacked views
- Buttons as central UI part
- Scrollable widgets are touchable-friendly
- Kinetic scrolling (HildonPannableArea)
Other goals

- New and old-style applications can coexist
- Maintain backward compatibility
  - No API breakage
  - UI style preserved (where possible)
MathJinni in Fremantle
New UI concepts
Window stacks

- Hierarchical organization of windows
- Applications have a main view from which different subviews can be opened
- Views: implemented with HildonStackableWindow
- Stacks: implemented with HildonWindowStack
Demo
HildonButton: title/value button

(all buttons have finger height)

Full width
Value

Half width 1
Value

Half width 2 with long title
Value

Half width 3

Half width 4 with very long title
Value (title is truncated)

Auto width 1
Value

Auto width 2 with longer text
HildonPannableArea

- Pannable scrollable window
- Configurable kinetic scrolling
- Gesture detection support
- Easy to port from GtkScrolledWindow
- Based on the OpenMoko finger-scroll widget
Demo
HildonTouchSelector and HildonPickerDialog

- Finger-friendly, pannable, multicolumn selector
- Allows single or multiple selections
- Uses GtkTreeView internally
- Exposes GtkTreeModel and GtkCellLayout for ease of use
- HildonTouchSelectorEntry: enter non predefined items
HildonPickerButton

- Standard picker button based on HildonTouchSelector
- Inspired by GtkFontButton, GtkFileChooserButton, …
- Finger-friendly replacement for GtkComboBox and GtkComboBoxEntry
HildonDateButton and HildonTimeButton

- Buttons for time and date selection
- Derived from HildonPickerButton
- Specialized HildonTouchSelector (HildonDateSelector and HildonTimeSelector)
Demo
HildonAppMenu

• Simple and finger-friendly menu for applications
• Replacement for the unsuitable Diablo menu
• Standard UI for data filtering/organization through "filters"
Demo
Other important improvements

- HildonBanner and HildonNote theming improved
- New progress indicator as window manager decoration
- Text entries with hints
- Action area in GtkTreeView
Development
Massive clean up and deprecation

- There were many (highly) specialized widgets from Chinook and before

- Decided to deprecate them

- Examples:
  - Code dialog
  - Password dialogs
  - Login dialog
  - HildonVolumebar deprecated in favor of GtkScale
Problems using standard GTK+ widgets

• Theming limitations (e.g. HildonCheckButton)

• Hard to make changes work with legacy applications:
  – Maemo 4 and earlier: designed for stylus
  – Fremantle: designed for fingers, that is, bigger widgets
  – If we supersize all old widgets we can break legacy applications layout

• New API and helper functions to provide Fremantle style widgets
Maemo GTK+

• Maemo GTK+ is a branch with changes specific to the platform

• We try to keep Maemo GTK+ maintainable and close to upstream, having only stuff that
  - It's on its way to be accepted upstream
  - It can only be achieved by modifying GTK+ widgets internally

• Other widget changes are implemented by subclassing GTK+ widgets in Hildon
Developing for Fremantle

- Fremantle apps: *quite* different from traditional GNOME apps

- Compiling a GNOME app for Fremantle and getting a Fremantle style is just impossible

- Extra effort and knowledge is necessary to achieve the Fremantle style (but it's worth it)
Things to do

• Make the toolkit more independent from hildon-desktop/maemo
• Analyze which features could be moved/adapted to GTK+
• Provide frequent releases for the community
• Work in new and interesting widgets together with the maemo developers community (hint: BOF later today!)
• Color picker? Font picker? Circular touch selector? (hint: BOF later today!)
Contributing

Mailing list:
  https://garage.maemo.org/mailman/listinfo/hildon-devel

Code:
  Very soon in http://maemo.gitorious.org!

Bugzilla:
  http://bugs.maemo.org
Questions?
Thank You