

José Dapena Paz

jdapena AT igalia DOT com

Sergio Villar Senín

svillar AT igalia DOT com



Brief history

- Started in 2006
- 2007 Targeted for Maemo Chinook
- December 2007 first beta release
- 2008 Maemo Diablo
- 2009 Development becomes public.
 Repository moved to git



How big is it?

Modest

```
Total Physical Source Lines of Code (SLOC) = 104,675
```

Tinymail

```
Total Physical Source Lines of Code (SLOC) = 179,363
```



Goals

Easy to use





Embedded devices

- Small resources
- Small screen
- Small storage

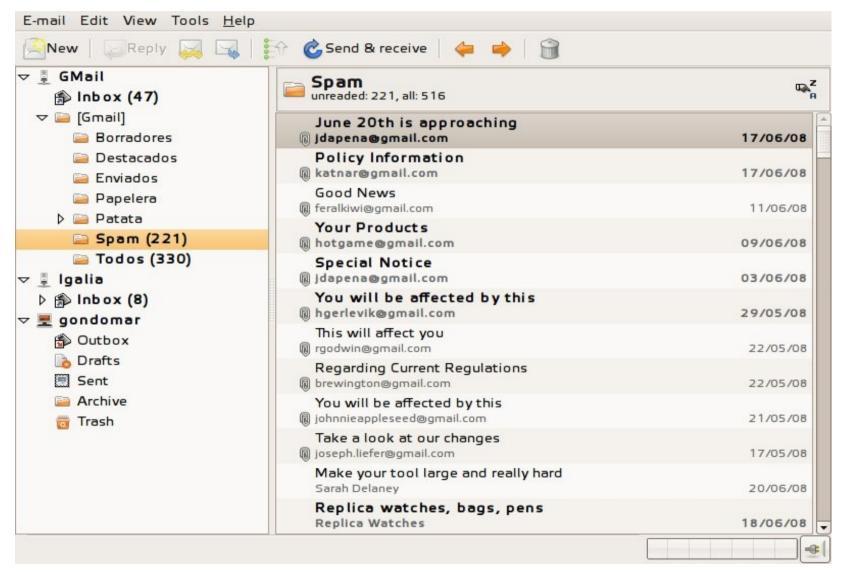




Multiple UI. Common logic

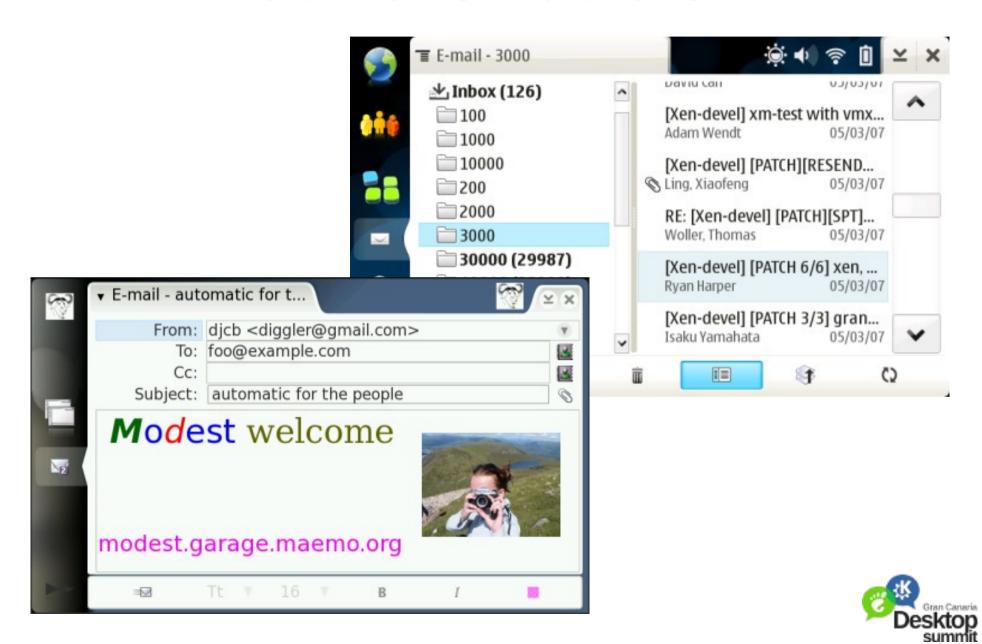


Gnome Ul





Maemo 4/Diablo Ul



Maemo 5/Fremantle UI

Coming soon...



Support for most common email protocols

- IMAP
- POP
- SMTP



Push email

IMAP IDLE



Extensibility

New plugin architecture



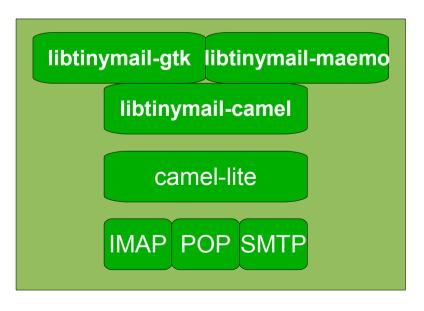
Architecture

Architecture

Modest

Tinymail





Modest Modest plugin Xproto Plugin Yproto Camel Xproto **Camel Yproto** Xproto daemon



Camel-lite



mmap-ed summaries

- Very reduced memory usage
- Very compact representation on disk
- Efficient use of memory (thx kernel)



IMAP IDLE support



Camel features out-of-the-box

- Great support for MIME
- Stream based API
- Modular extensible



Tinymail

- Multiple platforms
- Simplifies Camel API's
- Integrated Glib mainloop
- Gtk+ widgets
- Asynchronous API. Responsive UI
- Modular design



Modest

- Message view based on gtkhtml
- Rich message editor based on wpeditor
- Offline read of messages and folders
- Integration with network status libraries



Migration to Hildon 2.2

Hildon 2.2/Fremantle philosophy

- Proper experience with finger in small screens. No stylus.
- No focus in views.
- Actions are not repeated through UI.
- No hierarchy in menus.
- No scrollbars -> Pannables.
- No tabs.
- Stackable windows



What to change in modest?

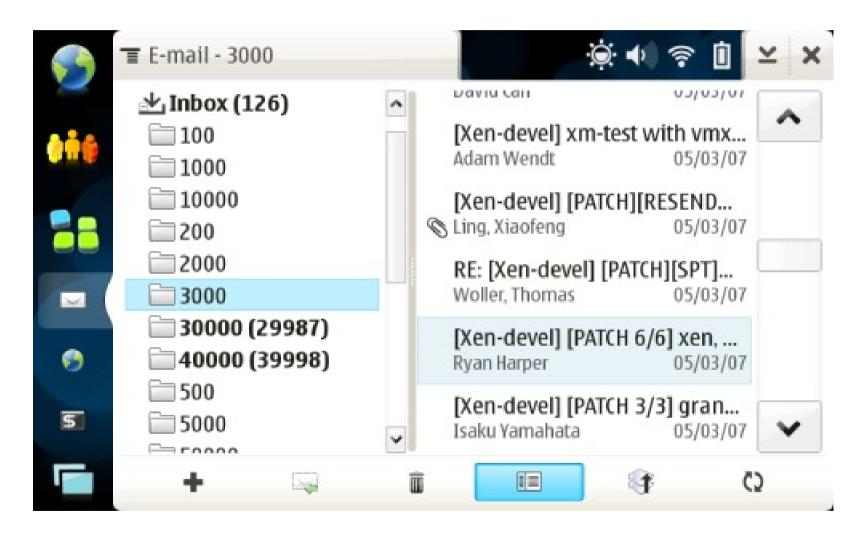
Goal

Mail simple for everyone!

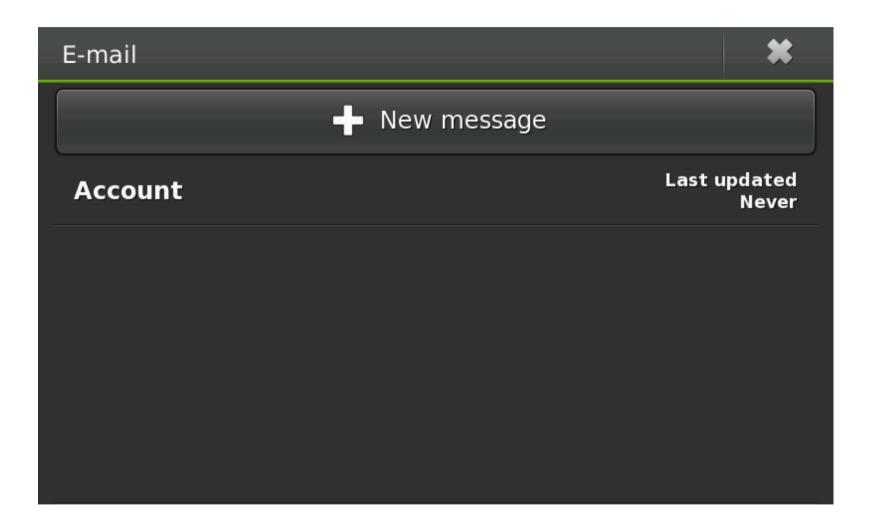


- Main window. Very complex.
- Required stylus. Fingers usage is broken.
- Move from old main window to "one window per object handled". Stackables. New window management

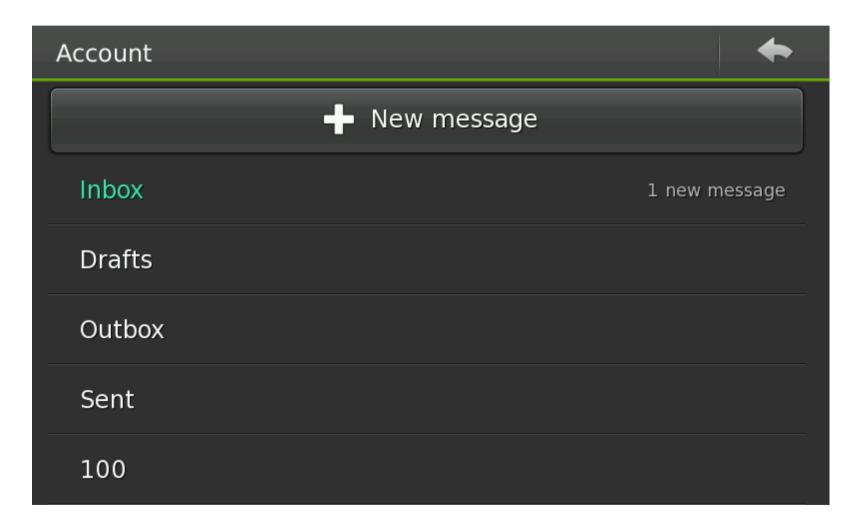




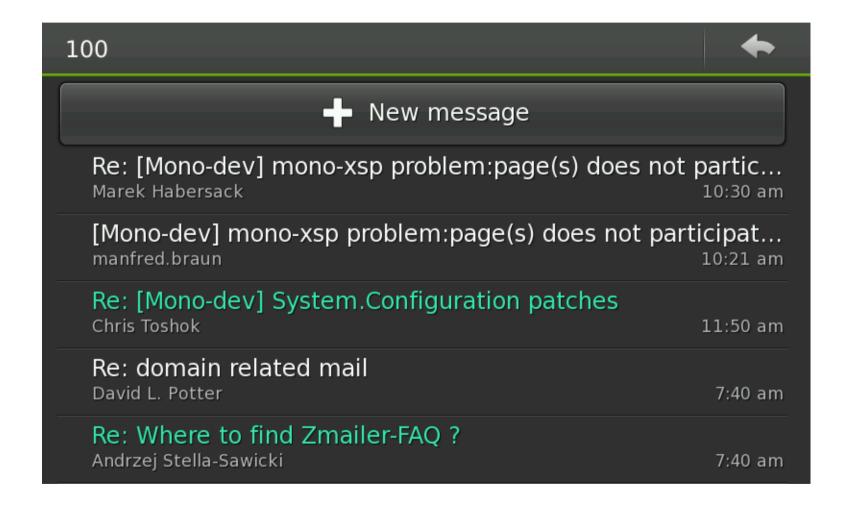














Show relevant information

Small space for important information.



Show relevant information





Show relevant information

Re: [lemonade]About "Avoiding Duplicates"



From: Randall Gellens

Wednesday 🔁 4:07 am 30. August 2006

At 5:56 PM -0700 8/29/06, Mark Crispin wrote:

> On Tue, 29 Aug 2006, Randall Gellens wrote:

>>

Probably most clients today are designed to be used off-line. So

>> the client maintains a cache of messages in mailboxes.

>

> I agree that this is the case today.

I hope that it is not always the case.

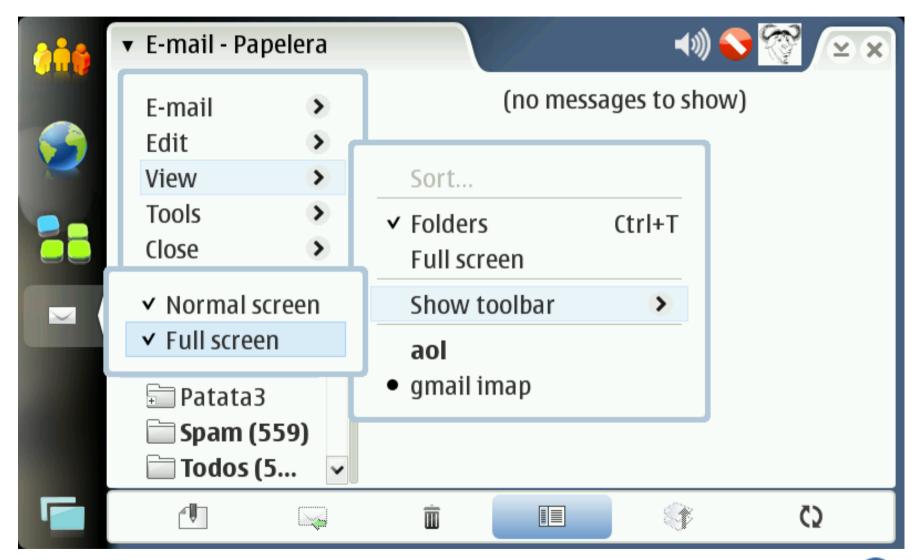






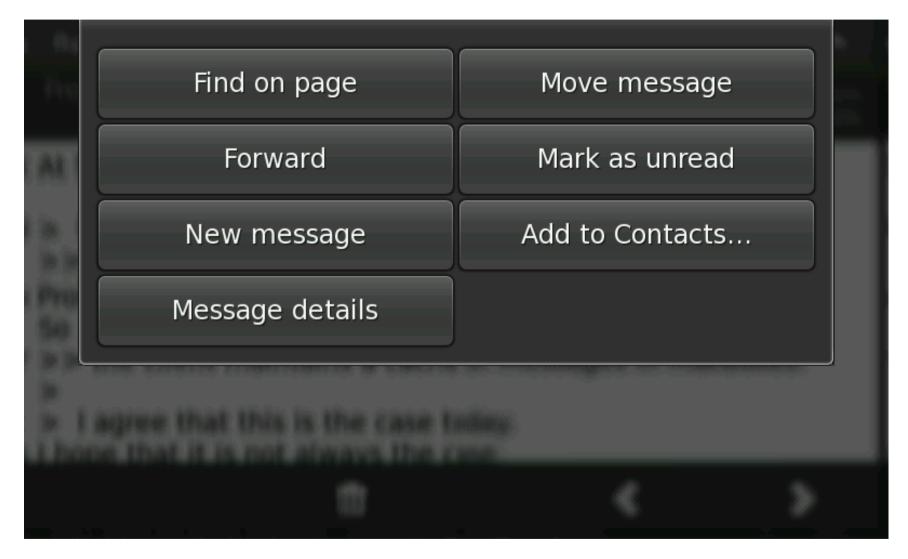


Very complex menus



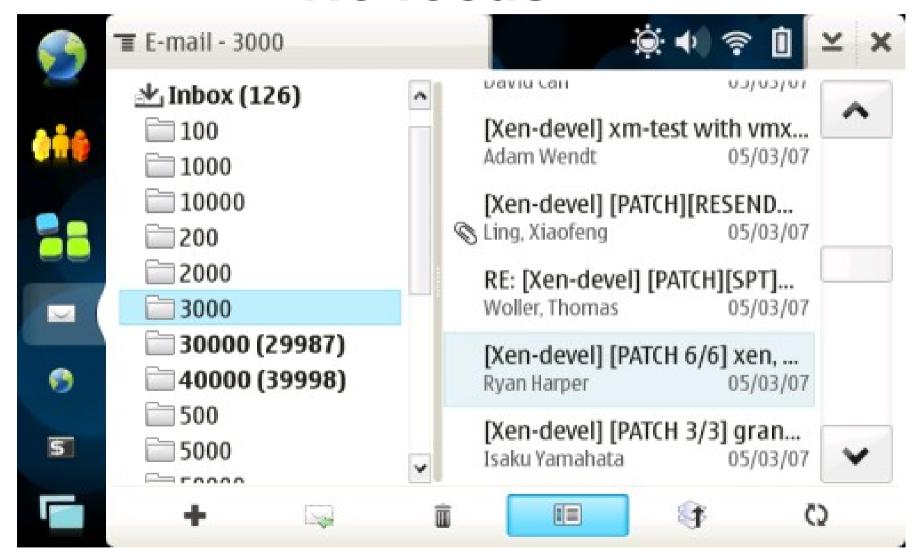


Very complex menus





No focus





No focus

100 New message Re: [Mono-dev] mono-xsp problem:page(s) does not partic... Marek Habersack 10:30 am [Mono-dev] mono-xsp problem:page(s) does not participat... 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



No focus

Choose messages to move	Move	+
Re: [Mono-dev] mono-xsp problem:page(s) do Marek Habersack		p 30 am
[Mono-dev] mono-xsp problem:page(s) does		t i 1 am
Re: [Mono-dev] System.Configuration patche	:S 11:5	50 am 🗸
Re: [lemonade]About "Avoiding Duplicates" Randall Gellens	7:4	10 am
Re: SMTP policy doesn't work or mea@nic.funet.fi	7:4	10 am 🗸
Re: fqdnaliases mea@nic.funet.fi	7:4	10 am

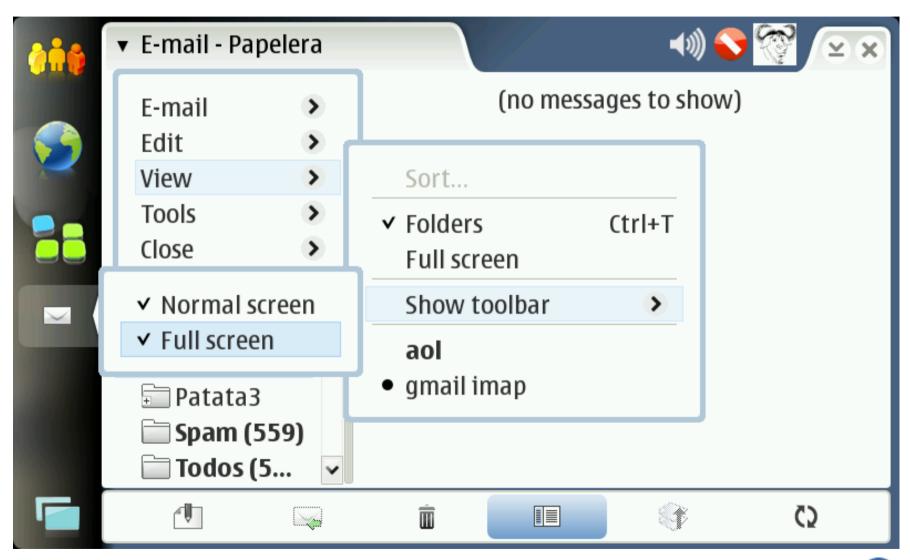


Migrate to finger widgets





Migrate to finger widgets





Migrate to finger widgets

New messag	e			+
From:	Tinymail	<tnytest@t< td=""><td>inymail.org></td><td>×</td></tnytest@t<>	inymail.org>	×
To:				
Subject:				
Tt ▼	12 🔻	В	I	



What we did? More things

- Reused widgets for Diablo, reorganised in new windows.
- Stacking views. One window at a time
- Pannables everywhere.



DEMO



Challenges

Challenges

- Massive email accounts (Gmail like)
- High volume of information in small screens.
- Performance requirements
- Slow network connection.
- Plugin API.



Challenge 1: massive email accounts

- Improved speed handling massive folders.
- Faster response loading folder window.
- Show fast last received messages.
 Those user wants.



Challenge 2: high volumes of information in small screens

- Lots of bugfixing.
- Stabilization with big folders. More reliable now.
- Camel-lite summary helps on disk storage.
- Also more reliable with slow or flaky networks.

Challenge 3: performance

- Priority to perceived speed.
- Show immediately information user needs.
- Better handling of big messages.



Challenge 4: better MIME support

- •Fixed support for reading Signed messages.
 - Reply adds References: field.
 - Multibody supported now (yes! maemo-developers digests!)
 - Reply to HTML-only messages properly quotes.



Challenge 5: plugin architecture

Support for adding other protocols as plugins.

- Storage and transport in a camel backend.
- Modest plugin for settings UI
- Other protocols? NNTP? RSS? Mobile messages? You're invited!



Conclusions

Work done in 2009

- Finger enabled UI
- More reliable
- Plugins support
- Easier for user
- Faster, better user experience
- Better support of mail standards



Future

- Pluggable storage support.
- Daemonize.
- Take more advantage of plugins architecture.
- Sorting? No please, live search



Get involved

- https://git.maemo.org/projects/modest
- http://modest.garage.maemo.org
- #modest @ Freenode
- modest-devel@garage.maemo.org
- modest-users@garage.maemo.org

Questions?



Thanks!

