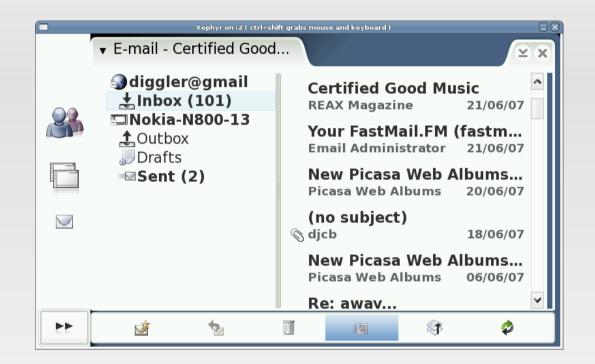
modest



a modest e-mail client

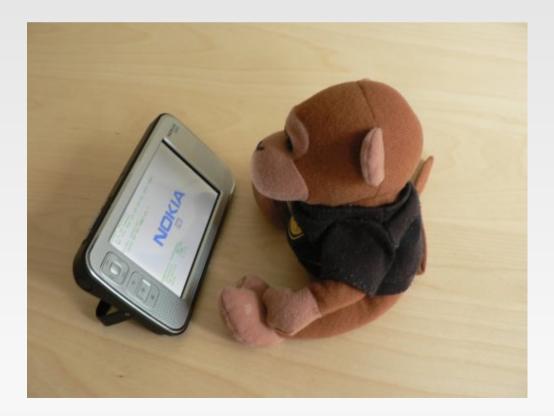
<dirk-jan.binnema@nokia.com>



2007.07.17 GUADEC 2007 Birmingham UK

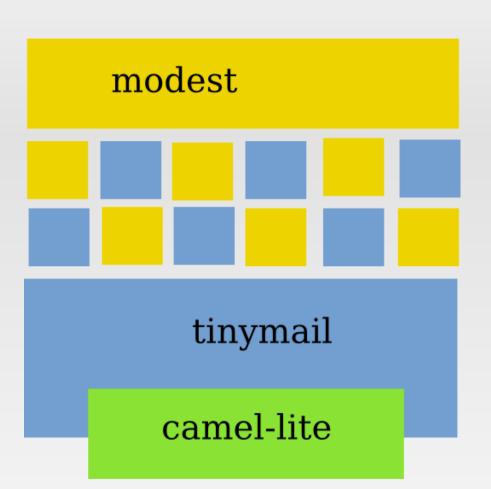
overview

- modest, the free mobile mail client
- optimized for humans
- technical background
- UI innovations



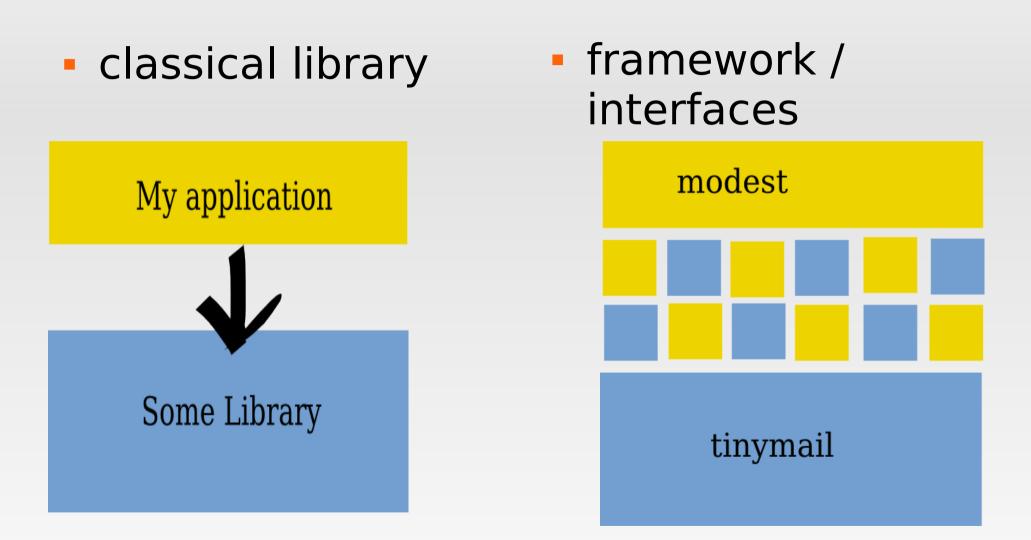
high level design

- Hildon¹/GTK+
- tinymail
- libcamel, camel-lite



1: "Hildon" is a GTK+ extension library for Internet Tablets. Cfg. gnome-ui

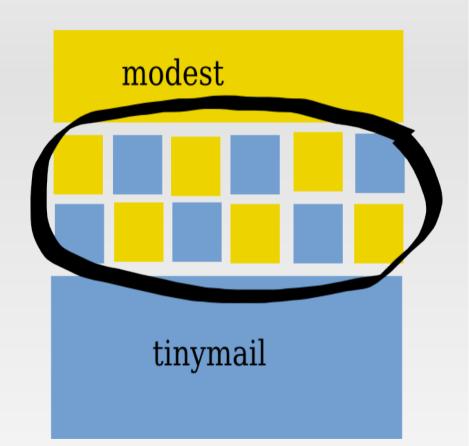
tinymail: not a library



http://www.tinymail.org

tinymail is a framework

- tinymail specifies interfaces
- your app implements these interfaces
- you call tinymail, tinymail calls back



example: the account store

- an account store is an object that holds email accounts
- modest implements its own 'account store'
- tinymail is happy with that, as long as modest implements:
 - tny_account_store_get_accounts
 - tny_account_store_alert

• • • •

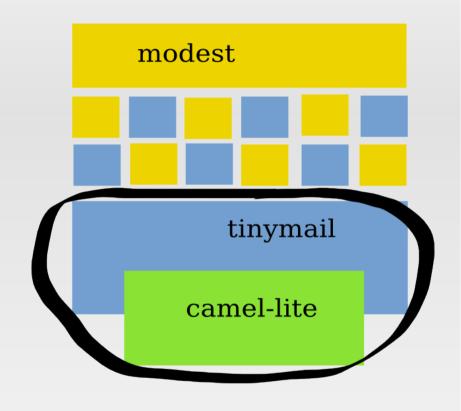
interfaces: hmmm...

- powerful and flexible
- require more learning time
- with gtk+ and threads, it's not easy...

(gdb) thread apply backtrace

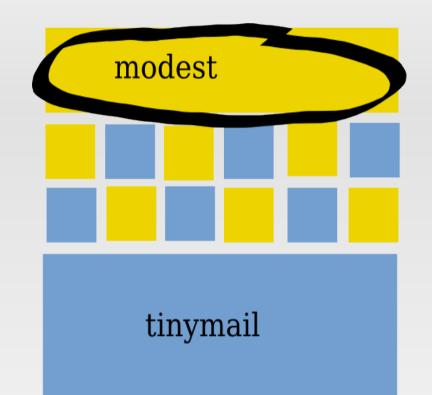
tinymail as protocol library

- camel-lite
- uses much less memory
- headers-only
- imap-idle
- attachment purging



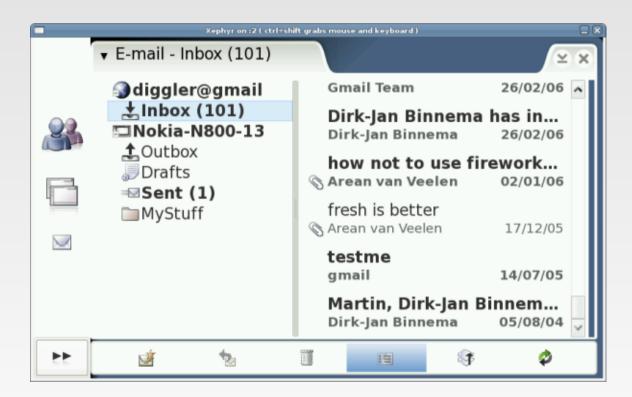
modest itself

- mobile email is hard
- screens are small
- data entry is hard
- bytes are expensive



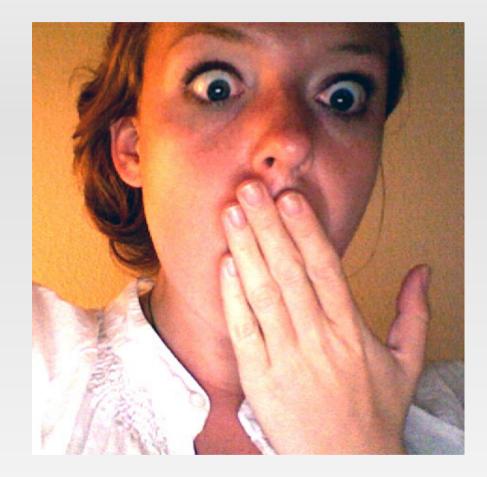
thumbs up

- don't require stylus
- make it big



account setup is hard

- Example: gmail
- server name (hmm... pop.gmail.com?)
- ssl? tls?
- port number? 995?
- #*\$^&?!
- now repeat for smtp
- smtp?!
- i give up!

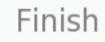


account setup for $\frac{1}{4}$ people with better things to do (1/4)

	Account	t setup : '	Welcome
--	---------	-------------	---------



Account setup wizard allows you to define e-mail accounts for use on your device. Tap 'Next' to continue.



Previous

Next

Cancel

account setup for dummies people with better things to do (2/4)

digg Linbe Accour	AIM AOL Gmail
Select your coun below Country:	Lycos Mail Hotmail Yahoo Mail Plus Other
Service provider:	Other
Account title*:	Account
Finish	Previous Next Cancel

account setup for dummies people with better things to do (3/4)

Acc	ount setup : User details
Password:	diggler@gmail.com ******
E-mail address*: Finish	diggler@gmail.com Previous Next Cancel

account setup for dummies people with better things to do (4/4)

Account setup : Complete
Account setup is complete. Tap 'Finish' to save or 'Cancel' to discard the settings. You can edit these settings via 'Tools > Accounts' from the menu.
Finish Previous Next Cancel

limit thy bytes

- headers-only
- Iimit number
- Iimit size



just what i want

	POP account settings for diggler@gmail													
	Account User info Incoming Outgoing													
	Select your country and service provider from the list below													
	Account title*: diggler@gmail													
	Retrieve*: Headers only													
	Retrieval limit*: Last 50 messages													
	Leave messages on server*: 🗸													
-	₽ <u>O</u> K × <u>C</u> ancel													

so far so good so what

- feature complete
- POP3, IMAP4, SMTP, SSL/TLS
- headers-only
- IMAP folders, IDLE, ...
- rich text editor
- UI for N800¹ and Sardine²

N800: most recent Nokia Internet Tablet, http://www.nokia.com/n800
Sardine: development version of the Internet Tablet SDK

development continues

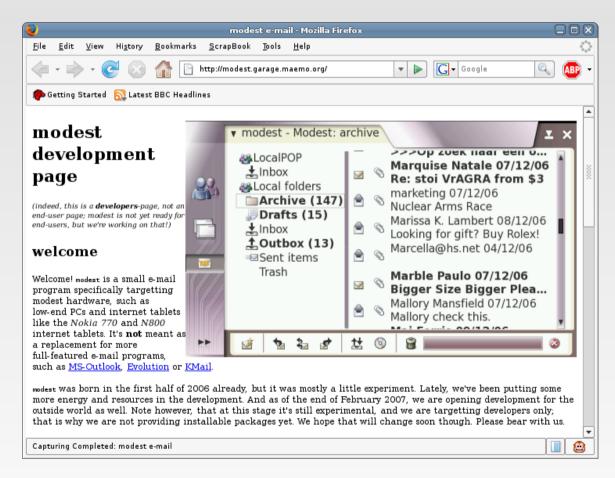
- alpha-ready
- work to do
- </bugs>

1							ľ	node	st-ma	in.c (C/I)							- 0	2
ile	Edit	Opti	ons	Buff	ers	Too	ls	СН	lelp										
	A		x				V		ß		<u> </u>	X	6						
	-					Ŋ	ap					00							
inci	Lude <	strin	g.n>																
nt																			
ain	(101	argc.	cnar	arg	V(1)														
		Usua																	
		beca be ci																	
		comma									-	EALC							
		(arg			with	out_	cop_	apper	Latio	_neti	100 =	FALSI	-;						
]=%s\r ui")		FUNCT	TION_	, ar	gv[1]);					
			11 (p_appl		ion_me	ethod	= TR	UE;					
	}																		
		destW			1;														
	ir	t ret	val	= 0;															
	if	(!g_																	ł
			g_th	read_	init	(NU	LL);												
		lk_thr																	
	gd	lk_thr	eads_	enter	• ();														
	if	(!gt																	
				inten al =		mode	st:	faile	d to i	initia	alize	gtk\I	1");						
				clea															
	}																		
	11	(!mo																	
				al =		node	st:	canno	t ini†		est\n	.);							
	}		goto	clea	inup;														
	,																		
	wi	n = m	odest	_mair	n_win	dow_	new	();											
														ation" l					
		This with						t via	D-Bus	act:	ivatio	on to	prov	ide a s	ervice	,			
	1	The I	UI wi	ll be	sho	wn l	ater						if no	otehr l)-Bus	method	was u	sed),	
	н н	when	we r	eceiv	re th	e "t	op_a	oplic	ation'	D - B	is met	thod.							
		(sho	v_ui_	with	out_t	op_a	opli	catio	n_meth	nod)									
			gtk_	widge	et_sh	ow_a	11 ()	GTK_W	IDGET	(win));								
	if	(!wi																	
				inten al =		mode	st:	taile	d to o	reat	e main	n win	10w/n	");					
				clea															
	}																		
	mc	dest_	windo	w_ngi	_reg	iste	r_wi	ndow			ntime_	get_	rindo	w_mgr()					
	a	objec	t unr	ef (v	(in);				win);										ŀ
()							(37	θ)	SVN-	2697	(C/l	. Visi	.ble-H	ines At	brev)	···· 🗵			
																			t

% find ~/src/modest/ -name '*.c' -exec grep -i FIXME \{\} \; | wc -l

show me the code

http://modest.garage.maemo.org



parting thoughts

- big thanks to all involved
- getting better every day
- free as in "Free Willy"
- works on Bora (N800), Sardine
- porting to other Hildon easy
- contains lots of interesting code







Tinymail

questions

