



notmuch aneb jak zvládnout záplavu emailů

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Jak organizovat emaily?

1990 Složky

2000 Tagy

2010 Vyhledávání

—*Jani Nikula*

Notmuch podporuje vše!



Osnova

Co je to notmuch?

Příkazová řádka

Emacs client

Ostatní



Co je to notmuch?

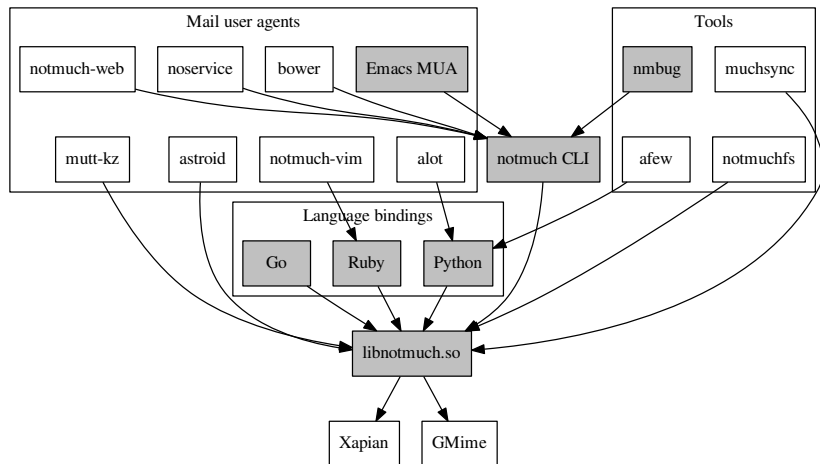
<https://notmuchmail.org/>



- ▶ „not much of an email program“
- ▶ Indexer emailů (Maildir)
- ▶ Neumí žádné protokoly! (SMTP, IMAP, ...)
- ▶ Postaven na databázovém enginu Xapian (NoSQL databáze)



Ekosystém okolo notmuch





Příjem a odesílání emailů

Příjem:

- ▶ offlineimap (pomalé?)
- ▶ isync/**mbsync**
- ▶ fetchmail
- ▶ notmuch na serveru

Odesílání:

- ▶ **Lokální MTA**
- ▶ sSMTP
- ▶ ...



Vývoj

- ▶ Carl Worth začal vyvíjet notmuch v roce 2009
- ▶ Maintainer David Bremner
- ▶ Core team – cca 5 lidí
- ▶ Desítky dalších přispěvatelů
- ▶ Distribuovaný bug tracker
 - ▶ Sdílení určitých tagů pomocí gitu (nástroj `nmbug`)
- ▶ 715 testů



Začínáme

- ▶ První spuštění `notmuch` → interaktivní konfigurace
 - ▶ Jméno, email
 - ▶ Adresář s maily
 - ▶ Tagy pro nové maily
- ▶ `notmuch new` → indexování nových (všech) emailů

```
▶ tree ~/mail
+-- .notmuch
|   +-- hooks
|   +-- xapian
+-- inbox
    +-- cur
    +-- new
    +-- tmp
```




Hledáme

- ▶ `notmuch count`
- ▶ `notmuch search moon`
 - ▶ `notmuch show thread:0000000000002221`
 - ▶ `notmuch show --format=json thread:0000000000002221 | jq`
- ▶ `notmuch search to:sojkam1@fel.cvut.cz and tag:unread`
- ▶ `notmuch search tag:unread and date:yesterday..`
- ▶ `notmuch search --output=messages ...`
 - ▶ `notmuch show id:20110908151557.GM5688@mit.edu`
- ▶ `notmuch search --output=files tag:spam | xargs rm`



Data mining :-)

```
for y in $(seq 2004 2015); do
  for m in $(seq -w 12); do
    echo $y-$m $(notmuch count to:sojkam1 date:$y-$m..!)
  done
done | gnuplot -p -e 'set xdata time; set timefmt "%Y-%m";
                    plot "-" using 1:2 with l'
```



Tagujeme

- ▶ `notmuch tag +funny id:...`
- ▶ `notmuch tag +important to:notmuch (bug or problem) completion`
- ▶ `notmuch tag -inbox +work id:...`

- ▶ Synchronizace Maildir příznaků a tagů (unread, replied, flagged, ...)
- ▶ Počáteční tagování
 - ▶ `~/mail/.notmuch/hooks/post-new`
 - ▶ Zatím chybí vestavěná možnost hledání a tagování List-id hlaviček
 - ▶ Nástroj `afew`



Emacs client

```

Saved searches: [edit]
    120 IMPORTANT          11 MISC          556 NOTMUCH      18 SystemSafety
    11 HERCULES           15 AUTOSAR      42 FEED

Tags in your inbox (except saved searches and ignored): [hide]
277 lists/announcements      21 lists/debian-multimedia      773 lists/kicad-developers
948 lists/auctex              248 lists/devel                 705 lists/linux-can
17 lists/wesone               5 lists/ecrts-info              1 245 lists/linux-rt-users
14 lists/boost-statechart-viewer 12 430 lists/enacs-devel        5 110 lists/linux-wireless
514 lists/brnlab             5 907 lists/enacs-orgnode       6 813 lists/linuxppc-dev
24 lists/canfestival-devel    10 lists/eurosys-members       3 lists/lpc21isp
5 lists/conference-pronation  5 lists/ezag                    6 lists/newsletter-en
117 lists/cstex              6 lists/genode-announce        334 lists/obman-support-obman
18 lists/cz-parl             279 lists/gitolite              1 lists/reading-group
3 887 lists/debian-devel     3 099 lists/help-gnu-enacs      228 lists/systemsafety
51 lists/debian-devel-announce 120 lists/hipec-publicity       908 lists/u-boot
72 lists/debian-enacsen     164 lists/i3-discuss            7 lists/vcs-pkg-discuss
54 lists/debian-embedded    161 lists/isync-devel
3 531 lists/debian-mentors   79 lists/jailhouse-dev

Tags in your inbox: [show]
rtmc server inbox: [show]
compile server inbox: [show]
orion server inbox: [show]
Search:
Recent searches: [clear]
    icinga
    if16
    installfest
    [save] [del]
    [save] [del]
    [save] [del]

All tags: [show]

Type a search query and hit RET to view matching threads.
Hit RET to re-submit a previous search. Edit it first if you like.
Save recent searches with the 'save' button.
Edit saved searches with the 'edit' button.
Hit RET or click on a saved search or tag name to view matching threads.
'=' to refresh this screen, 's' to search messages, 'q' to quit.
Customize this page.

U:0*- *notmuch-hello* All of 3.0K L1 (notmuch-hello FlyC- Projectile[slides] Help yas
-XFB6PowerOff> is undefined

```



Hledání – vlákna

```

February 05 [3/3] Antoine Beaupré, David Edmondson BUG: trouble with forwarding with accents (inbox lists notmuch unread)
February 06 [1/1] Gauri Hope Announcing Astroird v0.5 (inbox lists notmuch unread)
February 06 [1/4] Gammel Holte, Evgeniy Berdnikov Syncing and mutt "Mailbox is unchanged" issue (inbox lists isync-level unread)
February 06 [3/3] David Edmondson, Tomi Ollila, ... [PATCH v1] emacs: Fix compiler warnings. (inbox lists notmuch unread)
February 06 [6/6] David Edmondson, Tomi Ollila, ... [PATCH v1] notmuch-show "id:doesnotexist" should not throw an error. (inbox list→
February 06 [13/13] David Edmondson, Tomi Ollila, ... nbug in the Debian packages! (inbox lists notmuch signed unread)
February 06 [2/2] David Edmondson [PATCH v1] Allow forwarding of all open messages in the current view. (inbox lists→
February 06 [5/5] David Edmondson, Mark Walters [PATCH v2 0/2] Allow forwarding of all open messages in the current view. (inbox l→
February 06 [1/33] David Edmondson, Mark Walters [PATCH v3 0/9] emacs: Improve the cited message included in replies (inbox lists n→
February 06 [1/1] Tomi Ollila [Antoine Beaupré] Re: BUG: trouble with forwarding with accents (inbox lists notmu→
February 07 [3/7] David Edmondson, Jani Nikula, ... [PATCH] emacs: hello: display jump key next to saved search when available (inbox →
February 07 [3/3] Gauri Hope, David Brenner api-doc: return status for notmuch_query_search_threads_st ... (inbox lists notmuch)
February 08 [4/4] David Edmondson, Mark Walters [PATCH v3 0/2] Allow forwarding of all open messages in the current view. (inbox list→
February 08 [1/2] David Edmondson, David Brenner [Vagrant Cascadian] Bug#759302: notmuch-encas: citation should use datestr from →
February 08 [1/6] David Edmondson, David Brenner, ... Bug#755544: notmuch-encas: doesn't check gpg/pgp signatures by default (inbox list→
February 08 [1/10] David Edmondson, David Brenner, ... [Vagrant Cascadian] Bug#759646: notmuch-encas: switching nodes to invalid value se→
February 09 [4/4] David Edmondson [PATCH v1 0/3] Always insert crypto buttons. (inbox lists notmuch unread)
February 09 [7/13] David Edmondson, Mark Walters, ... [PATCH v5 3/3] emacs: Bind filter in search to 'l' (inbox lists notmuch needs-revi→
February 10 [6/6] David Edmondson, Mark Walters [PATCH v2] (notmuch-show "id:doesnotexist") should not throw an error. (inbox list→
February 10 [2/2] Daniel Kahn Gillmor, Justus Winter [PATCH] notmuch.Database.remove_message should raise exception on failure (inbox list→
February 11 [5/5] David Edmondson, Tomi Ollila, ... [PATCH v3] (notmuch-show "id:doesnotexist") should not throw an error. (inbox list→
February 12 [3/3] Tomi Ollila, W. Trevor King, ... [PATCH] test/README: have matching test script file names (inbox lists notmuch sig→
February 13 [3/3] David Brenner [PATCH 1/2] STYLE: document some rules about variable declarations (inbox lists no→
February 13 [6/6] David Brenner, W. Trevor King problems with nbug and empty prefix (inbox lists notmuch signed unread)
February 14 [1/1] David Brenner [Ollly Betts/xapian-discuss] GSoC 2016 (inbox lists notmuch unread)
February 14 [2/2] Eric J Tcl bindings for notmuch (inbox lists notmuch unread)
February 14 [11/11] Mark Walters, Tomi Ollila, ... [PATCH v5 0/7] emacs: Improve the cited message included in replies (inbox lists n→
February 15 [4/4] W. Trevor King, David Brenner [PATCH] nbug: Allow Unicode tags and IDs in Python 2 (inbox lists notmuch signed →
February 16 [4/4] David Brenner, Daniel Kahn Gillmor, ... encoding of message-ids (inbox lists notmuch signed unread)
February 16 [1/1] David Brenner feature request: nbug should use lastmod; (inbox lists notmuch unread)
February 17 [7/7] Eric J, David Brenner, Tomi Ollila Lost updates to Notmuch database (inbox lists notmuch unread)
February 19 [2/2] Stanislav Ochotnický, David Brenner Boonergang-like additions! (inbox lists notmuch unread)
February 20 [3/3] Neeum Zawan, Tomi Ollila, Suvayu Ali Loading a notmuch email buffer in Emacs from the command line (attachment inbox li→
February 20 [8/8] Mark Walters, David Brenner [PATCH v6 0/6] emacs: Improve the cited message included in replies (inbox lists n→
February 23 [2/2] Mark Walters, David Brenner [PATCH] NEWS: updates for reply changes (inbox lists notmuch unread)
February 24 [6/6] Gauri Hope, David Brenner how do the different frontends deal with displaying large queries? (inbox lists no→
February 24 [6/6] Gauri Hope, Franz Fellner, David Brenner need to call notmuch_threads_get (...) to actually move iterator (inbox lists notmu→
February 28 [2/6] Ingo Lohmar, Mike Kupfer, ... bug! m-display-external does delete-other-windows (inbox lists emacs-devel unread)
Tue. 14:09 [3/3] Matthew Lear, David Edmondson (emacs) Parsing problems replying to encrypted html (inbox lists notmuch unread)
Tue. 20:30 [2/2] Tomi Ollila, David Brenner [PATCH v2] lib: NOTMUCH_DEPRECATED macro also for older compilers (inbox lists not)
Thu. 17:07 [3/3] Johnny Utah, David Brenner, Carl Worth Stolen email list! (inbox lists notmuch signed unread)
Yest. 10:54 [5/5] Sam Halliday, Mark Walters use font-face instead of explicit colouring (inbox lists notmuch signed unread)
End of search results.

```



Hledání – stromový pohled

```

Yest. 10:54 San Halliday      → use font-face instead of explicit colouring (inbox lists notmuch signed unread)
Yest. 11:03 San Halliday      → ... (inbox lists notmuch signed unread)
Yest. 12:00 Mark Walters      → ... (inbox lists notmuch unread)
Yest. 12:09 Sam Halliday      → ... (inbox lists notmuch unread)
Yest. 12:26 Mark Walters      → ... (inbox lists notmuch unread)
February 12 Toni Ollila        → [PATCH] test/README: have matching test script file names (inbox lists notmuch patch pushed test unread)
February 12 W. Trevor King    → ... (inbox lists notmuch signed unread)
Yest. 01:49 David Brenner     → ... (inbox lists notmuch unread)
February 13 David Brenner     → [PATCH 1/2] STYLE: document some rules about variable declarations (inbox lists notmuch doc patch pushed t →
February 13 David Brenner     → [PATCH 2/2] STYLE: suggest long names (inbox lists notmuch doc patch pushed trivial unread)
Yest. 01:49 David Brenner     → [PATCH 1/2] STYLE: document some rules about variable declarations (inbox lists notmuch unread)
February 23 Mark Walters      → [PATCH] NEWS: updates for reply changes (inbox lists notmuch patch pushed unread)
Yest. 01:48 David Brenner     → ... (inbox lists notmuch unread)
Tue. 20:30 Toni Ollila        → [PATCH v2] lib: NOTMUCH_DEPRECATED macro also for older compilers (inbox lists notmuch patch unread)
Yest. 01:44 David Brenner     → ... (inbox lists notmuch unread)
Thu. 17:07 Johnny Utahh     → Stolen email list? (inbox lists notmuch unread)
Thu. 18:51 David Brenner     → ... (inbox lists notmuch unread)
Thu. 21:28 Carl Worth        → ... (inbox lists notmuch signed unread)
February 14 Eric J           → Tcl bindings for notmuch (inbox lists notmuch unread)
Tue. 19:34 Eric J            → ... (inbox lists notmuch unread)
2015-08-11 Toni Ollila        → [PATCH] lib: have two definitions of NOTMUCH_DEPRECATED macro (inbox lists notmuch obsolete patch unread)
December 08 David Brenner    → ... (inbox lists notmuch unread)
December 08 Toni Ollila      → ... (inbox lists notmuch unread)
December 29 Jani Nikula      → ... (inbox lists notmuch unread)
Tue. 17:46 Justus Winter     → ... (inbox lists notmuch unread)
Tue. 14:09 Matthew Lear      → (emacs) Parsing problems replying to encrypted html (inbox lists notmuch unread)
Tue. 14:38 David Edmondson   → ... (inbox lists notmuch unread)
Tue. 14:59 Matthew Lear      → ... (inbox lists notmuch unread)
February 28 Ingo Lohmar      → -bug? ma-display-external does delete-other-windows (inbox lists emacs-devel unread)
Mon. 02:07 Mike Kupfer       → -bug? ma-display-external does delete-other-windows (inbox lists emacs-devel unread)
Mon. 04:23 Lars Ingebrigtsen → -bug? ma-display-external does delete-other-windows (inbox lists emacs-devel unread)
Tue. 19:58 Ingo Lohmar       → ... (inbox lists emacs-devel unread)
Wed. 17:41 Lars Ingebrigtsen → ... (inbox lists emacs-devel unread)
Yest. 12:15 Ingo Lohmar       → ... (inbox lists emacs-devel unread)
February 24 Gaute Hope       → need to call notmuch_threads_get (..) to actually move iterator (inbox lists notmuch unread)
February 28 Gaute Hope       → ... (inbox lists notmuch unread)
February 28 Gaute Hope       → ... (inbox lists notmuch unread)
February 28 Franz Fellner    → ... (inbox lists notmuch unread)
February 28 Franz Fellner    → ... (inbox lists notmuch unread)
February 28 David Brenner    → ... (inbox lists notmuch unread)
January 31 Daniel Kahn Gillmor → Allow indexing cleartext of encrypted messages (v3) (inbox lists notmuch unread)
January 31 Daniel Kahn Gillmor → [PATCH v3 01/16] add util/search-path.c, h} to test for executables in $PATH (inbox lists notmuch obsolete →
February 09 David Brenner    → ... (inbox lists notmuch unread)
February 09 Daniel Kahn Gillmor → [PATCH v4] add util/search-path.c, h} to test for executables in $PATH (inbox lists notmuch patch unre →
January 31 Daniel Kahn Gillmor → [PATCH v3 02/16] Move crypto.c into libutil (inbox lists notmuch patch unread)
U: @: *- *notmuch-tree-tag:inbox and notmuch* Top of BSK L7 (notmuch-tree FlyC Projectile[slides] Helm yas)

```



Psaní mailů, doplňování adres

```
From: Michal Sojka <sojkaml@fel.cvut.cz>
To: sh.cvut.cz
Sub: "Jurcik, Petr" <p.jurcik@sh.cvut.cz>
Fcc: Hody <p.hodac@sh.cvut.cz>
--t J.Zahradnik@sh.cvut.cz
    Martin Molnar <m.molnar@sh.cvut.cz>
    Michal Kothera <m.kothera@sh.cvut.cz>
    Zdenek Prokupek <Z.Prokupek@sh.cvut.cz>
    d.havlik@sh.cvut.cz
    m.tlapak@sh.cvut.cz
```

U:@**- *unsent mail* All of 126 L2 (Message[Notmuch] Fly OrgTbl FN notmuch-company FlyC- Projectile)



Ostatní

- ▶ Podpora PGP
- ▶ Integrace s org-mode
- ▶ „Stash“
 - ▶ URL právě otevřeného emailu ve veřejném archivu
 - ▶ Parametry pro „git send-email“
- ▶ „Pipování“ emailů (např. pro „git am“)
- ▶ Když je index větší než RAM, je lepší ho mít na SSD disku. Maily mohou být na rotačním.



Děkuji za pozornost!

Otázky?