hack your inbox
building alot for notmuch

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LFCS Lab Lunch

October 22, 2013
Sup is a console-based email client for people with a lot of email.

It presents an interface of a list of threads, which are each hierarchical collections email messages. Threads can have multiple tags applied to them. It supports a very fast full-text search, automatic contact-list management, custom code insertion via a Ruby hook system, and more. If you’re the type of person who treats email as an extension of your long-term memory, Sup is for you.
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What is notmuch?

A library/command-line tool for

- indexing,
- tagging, and
- searching

a local email store, one message per file.
A typical mail setup

1. download emails fetchmail, offlineimap etc.
2. index new mail notmuch new
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6. send sendmail, other MTA
notmuch count [options...] <search-term>
notmuch search [options...] <search-term>
notmuch show [options...] <search-term>
notmuch tag  +<tag>|<-<tag> [...] [--]  <search-term>

- fast
- scriptable JSON formatted output
- well documented man pages galore
**Query Syntax**

*see man(7) notmuch-search-terms*

<table>
<thead>
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<th>Boolean combinations of free-text phrases and</th>
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</tr>
<tr>
<td><strong>subject:</strong> &lt;word-or-quoted-phrase&gt;</td>
</tr>
<tr>
<td><strong>attachment:</strong> &lt;suffix&gt;</td>
</tr>
<tr>
<td><strong>tag:</strong> &lt;tag&gt;</td>
</tr>
<tr>
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#### Example

```
tag:inbox AND NOT tag:killed
```
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DEMO...
Emacs Based MUA

- Talks to the CLI via sexp output
- Thread based UI
- Uses message mode to send mail
- Support for MIME and OpenPGP
The notmuch system

- Emacs mode
- vim plugin

- CLI
- Bindings (go, ruby, haskell, python)

- libnotmuch
- Xapian
- gmime
The notmuch system

- Emacs mode
- alot
- Mutt-kz
- vim plugin
- notmuch web

CLI

Bindings

- go
- ruby
- haskell
- python

libnotmuch

Xapian

gmime
Alot

a notmuch-based MUA for the terminal

- intended as “sup done right”
- highly configurable
- well documented

DEMO... 

http://hyperboleandahalf.blogspot.co.uk/
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ALOT MORE DANGEROUS

...baby less dangerous

ALOT OF FIRE

http://hyperboleandahalf.blogspot.co.uk/
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I LIKE THIS ALOT MORE
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- written in python
- uses notmuch’s python bindings and the urwid-toolkit
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notmuch-mutt

- "exports" notmuch searches to symlink farms
- comes with configuration snippet to integrate with mutt
Web client

- Written in Haskell
- Communicates with the CLI via JSON output
Python

db = notmuch.Database()
q = db.create_query(query_string)
for msg in q.search_messages():
    thread_id = msg.get_thread_id()

Ruby

do_read do |db|
    q = db.query(query_string)
    msgs = q.search_messages
    msgs.each do |msg|
        thread_id = msg.thread_id
    end
end
source/wiki  http://notmuchmail.org
mailing list  notmuch@notmuchmail.org
        irc  irc://chat.freenode.net/#notmuch
           alot  https://github.com/pazz/alot
       manual  http://alot.rtfd.org