

Mutt

(pour les copains)

Raphaël Fournier-S'niehotta

CNAM Paris, fournier@cnam.fr

JHub
Communication
21-22

le **cnam**

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Intro

Mutt ?

"All mail clients suck. This one just sucks less."
-me^a, circa 1995



```

624 May 02 T Martinez ( 27) Loans with ting points are here now
625 0 Jul 02 R Jackson ( 122) Loans with ting rates are here now
626 May 05 Benjamin F. Mag ( 50) Long time no hear
627 May 02 Spirit Raven ( 4) Long time no hear
628 0 Jun 02 Joseph House ( 25) Looking for a hot date tonight, tomorrow, or next week?
629 Jul 03 Brigitte L. Hag ( 83) Looking for a nice H.O.m.e?
630 May 11 Jon Stern ( 6) Looking for you
631 Jun 01 Saw in a poor ( 145) Low Rate Consolidation Mortgage Loan
632 Jul 02 igal@vivaldi ( 2) Lookat Jeff@viva Q&A
-----
Date: Mon, 17 May 2004 01:40:39 +0100
From: Mike Brown <Chaitin@freemove@btinternet.com>
Subject: long time no see....

I'm returning using /usr/bin/links -force.html -dump "/tmp/mutt.html" --)
My name is Jon and I'm new to this mailing thing. I've checked out your profile
you put we and it's interesting. :) I don't want to get to know you a little
better if you don't mind, can check my profile out at:

www.livejournal.com/chat.html

I also get a webcam so we can make it interesting, maybe hope you get back to
me.

bye :)

gnuk@gnuk.org by: jprasad; john
patterson; iedoh@jpm
raul@jagab.com; gow@france
saps@ebay.com; j@psidip
dick@bruce.com; g@psidip
hag@ffulokipshofakt
dip@liff@psidip@psidip

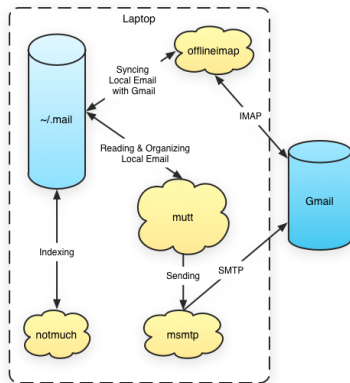
-----
Mutt: Mike Brown <Chaitin@freemove@btinternet.com>
Key is not bound. Press '?' for help.

```

^ame: Michael R. Elkins, créateur de mutt

Mail setup

- une autre vision du mail
- pas un outil unique, plusieurs :
 - offlineimap
 - mutt
 - msmtplib / postfix
 - notmuch
 - lldb
 - vim / emacs / nano
- cron
- abook ?
- muttils ?
- imapfilter
- divers plugins (vim, scripts)



(il existe un mode direct de mutt pour faire de l'imap)

Unix philosophy

Style

A number of maxims have gained currency among the builders and users of the UNIX system to explain and promote its characteristic style:

- (i) Make each program do one thing well. To do a new job, build afresh rather than complicate old programs by adding new “features.”
- (ii) Expect the output of every program to become the input to another, as yet unknown, program. Don't clutter output with extraneous information. Avoid stringently columnar or binary input formats. Don't insist on interactive input.
- (iii) Design and build software, even operating systems, to be tried early, ideally within weeks. Don't hesitate to throw away the clumsy parts and rebuild them.
- (iv) Use tools in preference to unskilled help to lighten a programming task, even if you have to detour to build the tools and expect to throw some of them out after you've finished using them.

Avantages, inconvénients

- ✓ efficacité
- ✓ fiabilité
- ✓ configurabilité

- ✗ plusieurs outils, à apprendre, à maintenir
- ✗ acceptation sociale

Installer

Installation

- <http://www.mutt.org>
- <http://www.neomutt.org>
- Wizards (Luke Smith)
- <https://ports.macports.org/port/neomutt>

Linux :

```
# i use arch, btw
sudo pacman -Sy mutt
sudo pacman -Sy neomutt

sudo apt-get install mutt
```

MacOS :

```
brew install neomutt

sudo port install neomutt
```

Recevoir

Offlineimap

- IMAP (Internet Message Access Protocol)
- Synchronisation de dossiers IMAP, entre un serveur et la machine locale
- format maildir : new, cur, tmp, chaque mail est un fichier indépendant
- synchro de l'état (nouveau, supprimé, drapeau)
- Alternatives : *isync*, *getmail*

- Appel en ligne de commande ou binding mutt
offlineimap -a CNAM
- Appel par crontab toutes les 2 (?) minutes :

```
* /5 * * * * /usr/bin/offlineimap -q -u quiet
```

Offlineimap

[general]

```
accounts = CNAM,RFS,Rfnet,CNAMnet
ui = ttyui
pythonfile = ~/.offlineimap/externalconfig.py
```

[Account CNAM]

```
localrepository = LocalCNAM
remoterepository = RemoteCNAM
presynchook = /usr/bin/imapfilter
postsynchook = ~/.offlineimap/postsync
```

[Repository LocalCNAM]

```
type = Maildir
localfolders = ~/Mail/CNAM
folderfilter = lambda folder: folder not in ['ProjetsEtudiants']
```

[Repository RemoteCNAM]

```
type = IMAP
ssl=yes
sslcacertfile = /etc/ssl/certs/ca-certificates.crt
remotehost = imap.cnam.fr
remoteuser = fournisseur
remotepassfile = ~/.offlineimap/Password.IMAP.cnam
folderfilter = lambda folder:
    not re.search('(Brouillons|Drafts|Corbeille|INBOX/INBOX)', folder)
```

Nametrans

```
mapping = { 'INBOX': 'INBOX'
            , '[Gmail]/Tous les messages': 'Archives'
            , '[Gmail]/Brouillons': 'Drafts'
            , '[Gmail]/Important': 'Important'
            , '[Gmail]/Spam': 'Spam'
            , '[Gmail]/Suivis': 'Suivis'
            , '[Gmail]/Corbeille': 'Trash'
            }

r_mapping = { val: key for key, val in mapping.items() }

def gmail_remote(folder):
    try:
        return mapping[folder.decode('imap4-utf-7').encode('utf-8')]
    except:
        return folder

def gmail_local(folder):
    try:
        return r_mapping[folder.decode('utf-8').encode('imap4-utf-7')]
    except:
        return folder
```

Imapfilter

- On peut automatiser le pré-tri du mail, sur le serveur, par exemple avec imapfilter
- Exemple : filtrer le spam académique dans un dossier, pour qu'il ne passe pas par l'INBOX
- requiert un cron sur un serveur (bof)

```
filtreNewSujet = function(pattern)
  return cnam["INBOX"]:is_unseen() * cnam["INBOX"]:contain_subject(pattern)
end
[...]
```

```
results = filtreNewSujet("bulle-i3") +
  filtreNewTo("ssfam@framalistes.org")
[...]
```

```
results:move_messages(cnam["News"])
```

Liare, traiter

Mutt

- Commande : `mutt`
- configuration : `~/.muttrc` (éventuellement : plusieurs)
- Mode interactif, mode ligne de commande (pour script)
- Interface en texte (mais on ne va pas faire que ça)
- Navigation au clavier
- Quelques modes : `index`, `pager`, `compose`, `attachment`
- pré-requis : un bon terminal (ex. `alacritty`, `kitty`, `urxvt`), avec unicode
- un bon éditeur de texte (ex. `vim`, `emacs`, etc.)

Interface

Démo :

- l'index :
 - les mails, leur présentation
 - la top bar
 - la status bar
- keybindings
 - monter, descendre, lire un mail
 - supprimer, récupérer
 - répondre [à tous]
 - déplacer / copier un mail
 - voir les PJ

Changer de dossier

- Voir les boîtes avec des nouveaux mails
- Ouvrir une autre boîte mail
- Keybindings pour automatiser l'accès aux boîtes fréquentes

```
macro pager,index,generic ,g      "<change-folder>+RFS/INBOX<enter>"
macro pager,index,generic ,h      "<change-folder>+RFS/Archives<enter>"

macro pager,index,generic ,j      "<change-folder>+CNAM/INBOX<enter>"
macro pager,index,generic ,k      "<change-folder>+CNAM/Archives<enter>"

macro pager,index,generic ,J      "<change-folder>+CNAMnet/INBOX<enter>"
macro pager,index,generic ,K      "<change-folder>+CNAMnet/Archives<enter>"
```

Filtrer

■ "/", "l" et les patterns

```
~A          all messages
~b EXPR     messages which contain EXPR in the message body
~C EXPR     message is either to: or cc: EXPR
~d [MIN]-[MAX] messages with ``date-sent'' in a Date range
~f USER     messages originating from USER
~L EXPR     message is either originated or received by EXPR
~l          message is addressed to a known mailing list
~N          new messages
~p          message is addressed to you (consults $alternates)
~P          message is from you (consults $alternates)
~Q          messages which have been replied to
~R          read messages
~r [MIN]-[MAX] messages with ``date-received'' in a Date range
~s SUBJECT  messages having SUBJECT in the ``Subject'' field.
~T          tagged messages
~t USER     messages addressed to USER
~==^I^^Iduplicated messages
```

Sélectionner plusieurs mails

- Tag : patterns
- Action multiple
- Exemple : vider la boîte cnam.fr trop petite

Pièces jointes

- "v", "Enter"
- "s"
- mailcap ("m")

```
text/calendar; vcal -all %s | grep -v ^$; copiousoutput; description=iCalendar text; priority:  
text/calendar; /usr/bin/less %s;
```

```
text/html; /usr/bin/firefox %s; print=/usr/bin/chromium %s  
*/pdf; /usr/bin/zathura %s; /usr/bin/zathura %s; test=test "$DISPLAY" != "";
```

```
video/*; mplayer %s  
audio/*; mplayer %s
```

```
image/gif; mpv --loop %s  
image/*; feh -FZ --auto-rotate %s
```

```
application/vnd.oasis.opendocument.text; soffice --norestore %s; test=test "$DISPLAY" != "";  
application/vnd.oasis.opendocument.spreadsheet; soffice --norestore %s; test=test "$DISPLAY"  
application/vnd.ms-powerpoint; soffice --norestore %s; test=test "$DISPLAY" != ""; description  
application/x-mspowerpoint; soffice --norestore %s; test=test "$DISPLAY" != ""; description=P  
application/ppt; soffice --norestore %s; test=test "$DISPLAY" != ""; description=PPT; nametemp
```

Couleurs

```
folder-hook CNAM/* color status black green
folder-hook CNAMnet/* color status black magenta

color normal      white default
color error       red default
color message     yellow default
color markers     color142 default
color signature   white black
color indicator   green black
color tree        color163 default

color index       black yellow ~N # new messages
color index       green default ~P # from me
color index       color246 default ~Q # replied messages
color index       red default ~F # flagged
color index       bold color246 black ~D # deleted
color index       black blue ~T # tagged

color index       cyan default ~l # messages from list
color index       black cyan ~N~l # new messages from list
color index       color132 default "(~f @twitter.com ~t raphael@fournier-sniehotta.fr)"
color index       default color132 "(~N ~f @twitter.com ~t raphael@fournier-sniehotta.fr)"

color body        red default "(finger|ftp|http|https|news|telnet)://[^ >]*"
color body        red default "[-a-z_0-9.%$]+@[ -a-z_0-9.]+\.[ -a-z][-a-z]+"
```

Chercher

Chercher : notmuch

- outil à part entière
 - moteur de recherche Xapian
 - outils externes pour naviguer (CLI, Astroid)
- utilisation simple :
 - les mails passent dans notmuch à l'entrée (offlineimap)
 - éventuellement taggés
 - on peut les chercher depuis mutt
 - `from:mimeau jhub`

Écrire

Rédiger

- "m"
- à qui ? aliases, lbdb, abook
- comment écrire ? \$EDITOR (vim !)
- quelle identité ?
 - set from
 - signature (hooks)
- le compose screen
 - les champs
 - ajouter une PJ, un mail

Avancé

- Templates / canned messages (demo)
- Oubli de PJ

```
# Ask if the user wishes to abort sending if $attach_keyword is found in the
# body, but no attachments have been added
# It can be set to:
#   "yes"      : always abort
#   "ask-yes"  : ask whether to abort
#   "no"       : send the mail
set abort_noattach = ask-yes

# Search for the following regular expression in the body of the email
# Français:
set attach_keyword = "\\<(attached|attachments?|attach|attaché|attachés|attache|attachons|enc:

# vim: syntax=muttrc
```

Envoyer

Msmtp

- un outil pour envoyer les mails à un serveur SMTP
- `set sendmail = "/usr/bin/msmtp -a cnam"`
- binding après rédaction

```
defaults
logfile ~/Mail/logs/msmtp.log

account google
host smtp.gmail.com
port 587
protocol smtp
auth on
user raphael@raphaelfournier.net
password ""
tls on
tls_nocertcheck

account cnam
host smtps.cnam.fr
from fournier@cnam.fr
port 587
protocol smtp
```

```
tls on
tls_starttls on
tls_nocertcheck
auth plain
user fournier@cnam.fr
password ---

account cnamnet
host smtp.office365.com
port 587
protocol smtp
tls on
tls_starttls on
tls_nocertcheck
auth login
user raphael.fourniersniehotta@lecnam.net
password ---
```

Queue

- msmtpq
 - travail hors ligne
 - programmation de mails

Ressources

Ressources

- <https://stevelosh.com/blog/2012/10/the-homely-mutt>

Annexes

Si on a le temps

- Mailings lists
- Hooks
- Bindings de filtrage (vue tous les mails/~P)
- Pipe message
- imprimer ses mails (hérésie ?)