

# Mutt + PGP

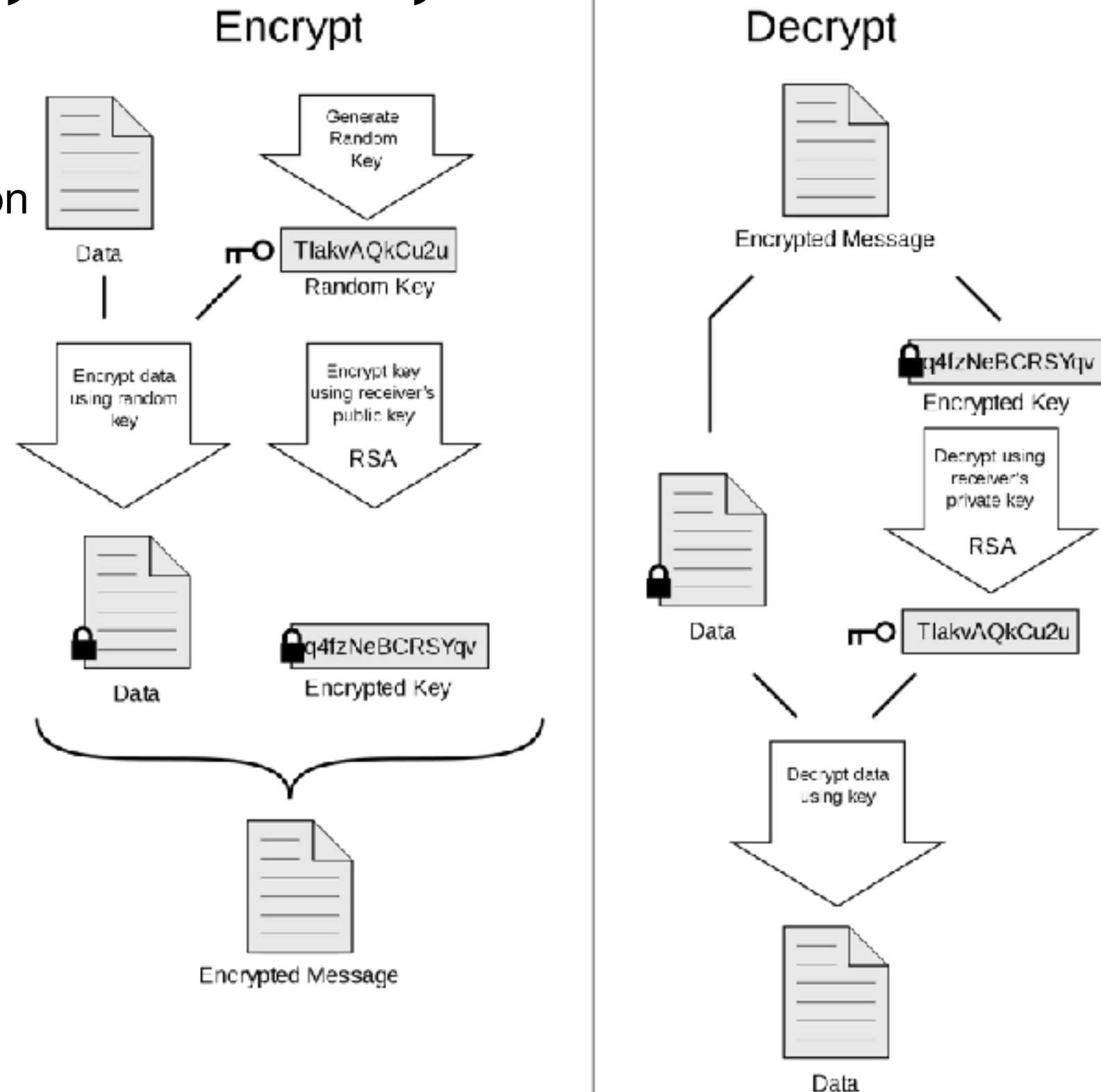
Secure e-mail

# MUTT

- CLI e-mail client with:
  - **color** support
  - message threading
  - POP3/IMAP support
  - **highly** customizable, including keybindings and macros
  - change configuration automatically based on recipients, current folder, etc.
  - **postpone** message composition indefinitely for later recall
  - easily include **attachments** when composing

# PGP, GPG, ...

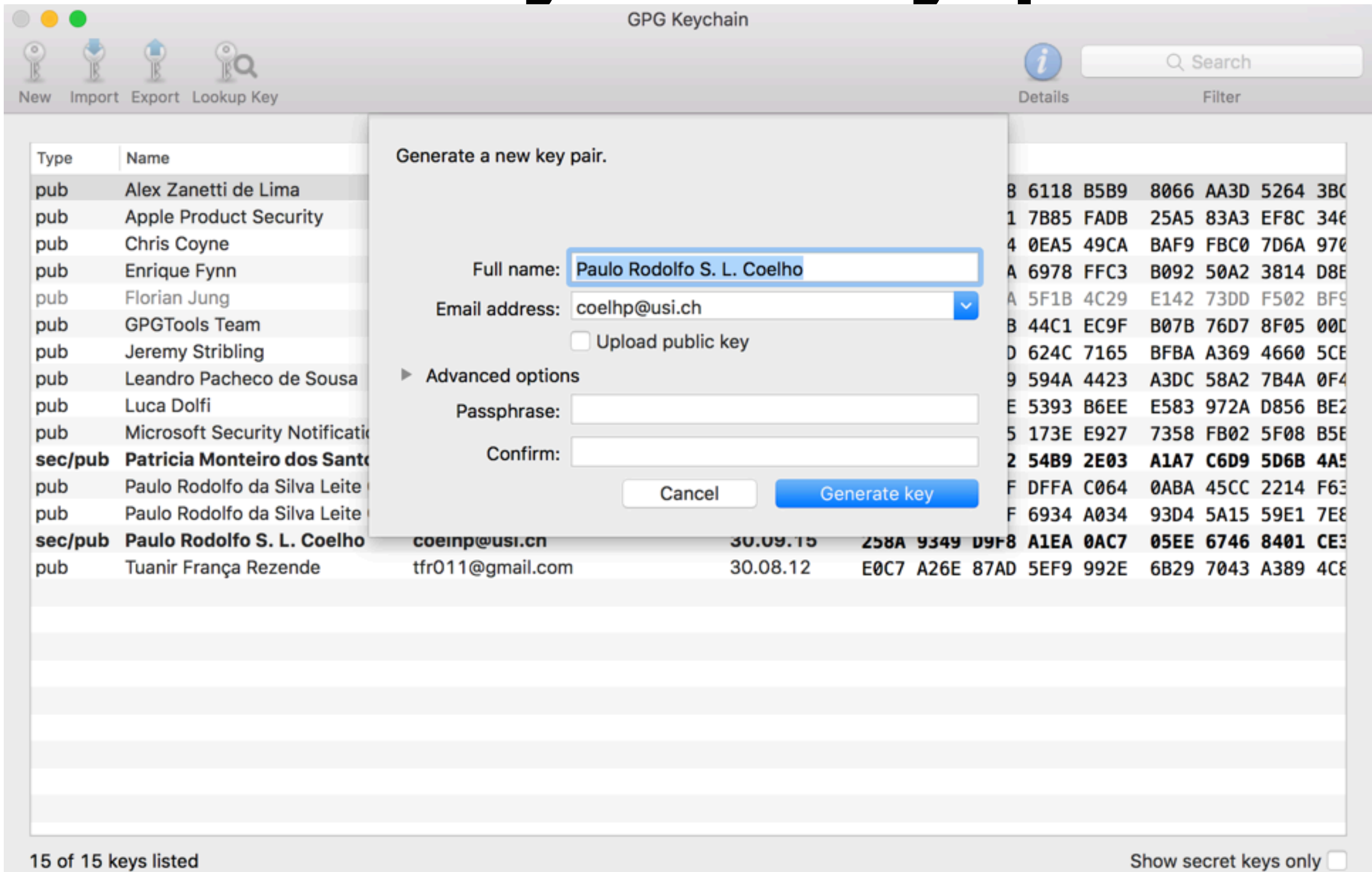
- **PGP**: data encryption/decryption and authentication defined by RFC4480 (OpenPGP)
- “Web of trust”
- **GnuPG**: implementation of OpenPGP
- **GPGTools**: macOS version with GUI and CLI programs



# Requirements

- Homebrew or equivalent:
  - brew cask install gpgtools  
(or download from [gpgtools.org](http://gpgtools.org))
  - brew install mutt w3m
  - tmux (optional)
  - vim ( mandatory!!! ;) )

# Create your key-pair



# Mutt config: basics (gmail)

- Create a .mutt folder
- Create an application password on google
- Save your password to .mutt/password:  

```
set smtp_pass = "mypassword"  
set imap_pass = "mypassword"
```
- Encrypt with gpg:  

```
gpg -r CE341D36 -e .mutt/password
```

(you should have a .mutt/password.gpg)

```
rm ~/.mutt/password
```

# Mutt config: basic gmail ~/.muttrc

```

1 #encrypted password file
2 source "pgp -d ~/.mutt/passwords.gpg |"  YOUR ENCRYPTED PASSWORD
3
4 # Google remote folders
5 set imap_user = "paulo.coelho@gmail.com"
6 set spoolfile = "imaps://imap.gmail.com:993/INBOX"
7 set folder = "imaps://imap.gmail.com:993"
8 set trash = "[Gmail]/Trash"
9 set postponed = "[Gmail]/Drafts"
10 set header_cache = "~/.mutt/cache/headers"
11 set message_cachedir = "~/.mutt/cache/bodies"
12 set certificate_file = "~/.mutt/certificates"
13
14 set from = "paulo.coelho@gmail.com"
15 set realname = "Paulo Coelho"
16 set smtp_url = "smtps://paulo.coelho@smtp.gmail.com"
17 set record = ""
18 set smtp_authenticators = 'gssapi:login'
19 set copy = no
20 mailboxes = 'INBOX' = '[Gmail]/All Mail' = '[Gmail]/Drafts' = '[Gmail]/Sent Mail' = '[Gmail]/Spam' = '[Gmail]/Trash'
21
22 # Gmail macros
23 macro index, pager P <purge-message> "Purge message"
24 macro index, pager U <set-flag>0 "Mark as read"
25 macro index, pager I <clear-flag>0 "Mark as unread"
26 macro index, pager ga "<change-folder>=[Gmail]/All Mail<enter>" "Go to all mail"
27 macro index, pager gs "<change-folder>=[Gmail]/Starred<enter>" "Go to 'Starred'"
28 macro index, pager gd "<change-folder>=[Gmail]/Drafts<enter>" "Go to 'Drafts'"
29 macro index, pager gl "<change-folder>=?>" "Go to 'Label'"
30 macro index, pager gi "<change-folder>=INBOX<enter>" "Go to inbox"
31 macro index, pager gt "<change-folder>=[Gmail]/Sent Mail<enter>" "Go to 'Sent Mail'"
32 macro index, pager + <save-message>=[Gmail]/Important<enter> "Mark as important"
33 macro index, pager ! <save-message>=[Gmail]/Spam<enter> "Report spam"
34 macro index, pager e "<save-message>=[Gmail]/All Mail<enter>" "Archive conversation"
35
36 set sig_on_top = enable
37 set signature = ~/.mutt/signature #put your e-mail signature here

```



# Mutt config: sorting/grouping messages, editor

```
1 set imap_keepalive = 10 # idle time before scanning
2 set imap_idle = yes # minimum time between scans
3 set timeout = 10
4 set mail_check = 10 # minimum time between scans
5 spoolfile = "imaps://imap.gmail.com:993/INBOX"
6 set sort = threads # use vim as the default editor
7 set sort_aux = date
8 set editor = "vim" # use vim as the default editor
9 header_cache = "~/.mutt/headers"
10 set quit_cachedir = "~/.mutt/ask-yes/bodies" # confirm before quitting
11 set wait_key_file = "~/.mutt/no-certificates" # Don't ask me to press a key to continue after I did a shell escape and c
12 # set mbox_type = Maildir # mailbox type
13 set delete_undo.coelho@gmail.com" # don't ask, just do
14 unset confirmappend.coelho" # When saving a message, append the message to an existing mailbox without
15 # unset mark_old # read/new is good enough for me
16 set beep_new.icators = 'gssapi:login' # bell on new mails
17 set pipe_decode = no # strip headers and eval mimes when piping
18 set thorough_search.mail]/All Mail' = '[Gmail]/Drafts' = '[Gmail]/Sent Mail' # strip headers and eval mimes before searching
19
20 ignore *as # ignore all headers
21 unignore from: to: cc: date: subject: # show only these
22 unhdr_order * U <set-flag>0> "Mark as read" # some distros order things by default
23 hdr_order from: to: cc: date: subject: "Mark as unread" # and in this order
24 ro_index, pager ga "<change-folder>=[Gmail]/All Mail<enter>" "Go to all mail"
25 set date_format <change= "%d.%m.%y-%H:%M" "Go to 'Starred' # a simple date format
26 set index_format <change= "[%Z] >%D %s" "Go to 'Drafts' # format of the index view, show all flags, date, the sender and finally t
27 set sort pager gl <change= threads> "Go to 'Label' # like gmail
28 set sort_aux pager gl <change= reverse-last-date-received> "Go to inb # like gmail
29 set uncollapse_jump <change-folder>=[Gmail]/Sent Mail<enter>" "Go to 'Sent' # don't collapse on an unread message
30 set sort_reorder + <save-message>=[Gmail]/Important<enter> "Mark as impo # thread based
31 set reply_regexp <save= "<^(( [Rr][Ee]?(\[ [0-9]+\ )? : *)?(\[ [^]]+\ )?)*" # do not ask to, subject, etc when replying
32 set fast_reply <save-message>=[Gmail]/All Mail<enter>" "Archive con # always include message when replying
33 set include # when forwarding email, simply add a Fwd to the subject
34 set forward_format = "Fwd: %s" # dont wrap mid word
35 set smart_wrap # autoview html
36
37 auto_view text/html # save html for last
38 alternative_order text/plain text/enriched text/html
39
40 set status_chars = " *%A"
41 set status_format = "—[ Folder: %f ]—[%r%m messages%?n? (%n new)%?d? (%d to delete)%?t? (%t tagged)? ]—%>-%?p? ( %p postponed )?—"
```

**MAIL CHECK INTERVAL AND EDITOR**

**SORTING**



# Mutt config: shortcuts and alias

```
51 # Custom keybindings
52 bind index,pager ! noop ho@gmail.com" # unbind report-spam
53 bind index,pager \# noop p.gmail.com:993/INBOX" # unbind delete-thread
54 bind index,pager % noop gmail.com:993" # unbind toggle-write
55 bind index,pager & noop # unbind link-threads
56 postponed = =[Gmail]/Drafts
57 bind index,pager b noop /cache/headers" # Unbind bounce
58 bind index,pager A create-alias he/bodies" # bind alias-creation
59 bind pager <up> previous-line certificates" # scroll inside the message rather than the index
60 bind pager <down> next-line # scroll inside the message rather than the index
61 bind index G imap-fetch-mail om" # Fetch mail shortcut
62 realname = "Paulo Coelho"
63 smtp_url = "smtp://paulo.coelho@smtp.gmail.com"
64 # Gmail-style keybindings
65 bind _editor <space> noop sapi:login'
66 bind index,pager c mail # d# compose sent messages
67 bind generic('x' tag-entry>>'=' [Gmail]/Drafts' =' [Gmail]/Sent Mail' # Select Conversation [Gmail]/Trash'
68 bind index x tag-thread>> # Select Conversation
69 bind pager x tag-message> # Select Conversation
70 bind index,pager <su flag-message> "Purge message" # Star a message
71 bind index,pager U <set-flag>0 "Mark as read"
72 bind index,pager a group-reply> "Mark as unread" # Reply all
73 #bind index,pager \# delete-thread>Gmail]/All Mail<enter>" "Go to all # Delete
74 bind index,pager <lh copy-message>[Gmail]/Starred<enter>" "Go to 'Sta # Label
75 bind index,pager m save-message>[Gmail]/Drafts<enter>" "Go to 'Dra # Move to
76 bind index,pager gl <change-folder>?> "Go to 'Label'"
77 bind index,pager gi <change-folder>=INBOX<enter>" "Go to inbox"
78 bind index,pager gt 'L ch noop folder>=[Gmail]/Sent Mail<enter>" "Go to 'Sent Mail'"
79 bind index,pager + <ltv limit>age>=[Gmail]/Important<enter> "Mark as important"
80 macro index er l <Ln v<limit>~N<enter>)/S "Limit display to new mail"
81 macro index er e 'Lu a<limit>~U<enter>)/ "Limit display to unread mail" conversation"
82 macro index Ld <limit>~D<enter> "Limit display to deleted mail"
83 macro index Lp <limit>~P<enter> "Limit display to personal mail"
84 macro index Ls = <limit>~F<enter> e "Limit display to starred/flagged mail"
85 macro index LL <limit>all<enter> "Reset display limit to all mail"
86 macro index LL <limit>all<enter> "Reset display limit to all mail"
87
88 macro index,pager \cb ": set pipe_decode\n|w3m\n: unset pipe_decode\n" "call w3m to extract URLs out of a message"
89 macro attach,pager \cu <pipe-entry>'cat > /tmp/mutt_mail.html; open /tmp/mutt_mail.html'<enter> 'open email in safari'
90
91 # Contact aliases, could also use 'goobook'.
92 set alias_file> = ~/.mutt/aliases
93 set sort_alias> = alias
```



ADDRESS BOOK



FILTERS

# Mutt config: colors (from GitHub)

- add line:  
`source ~/.mutt/.colors`  
to your `.muttrc`
- from <https://github.com/victorparmar/vic-config>

# Mutt config: pane

```

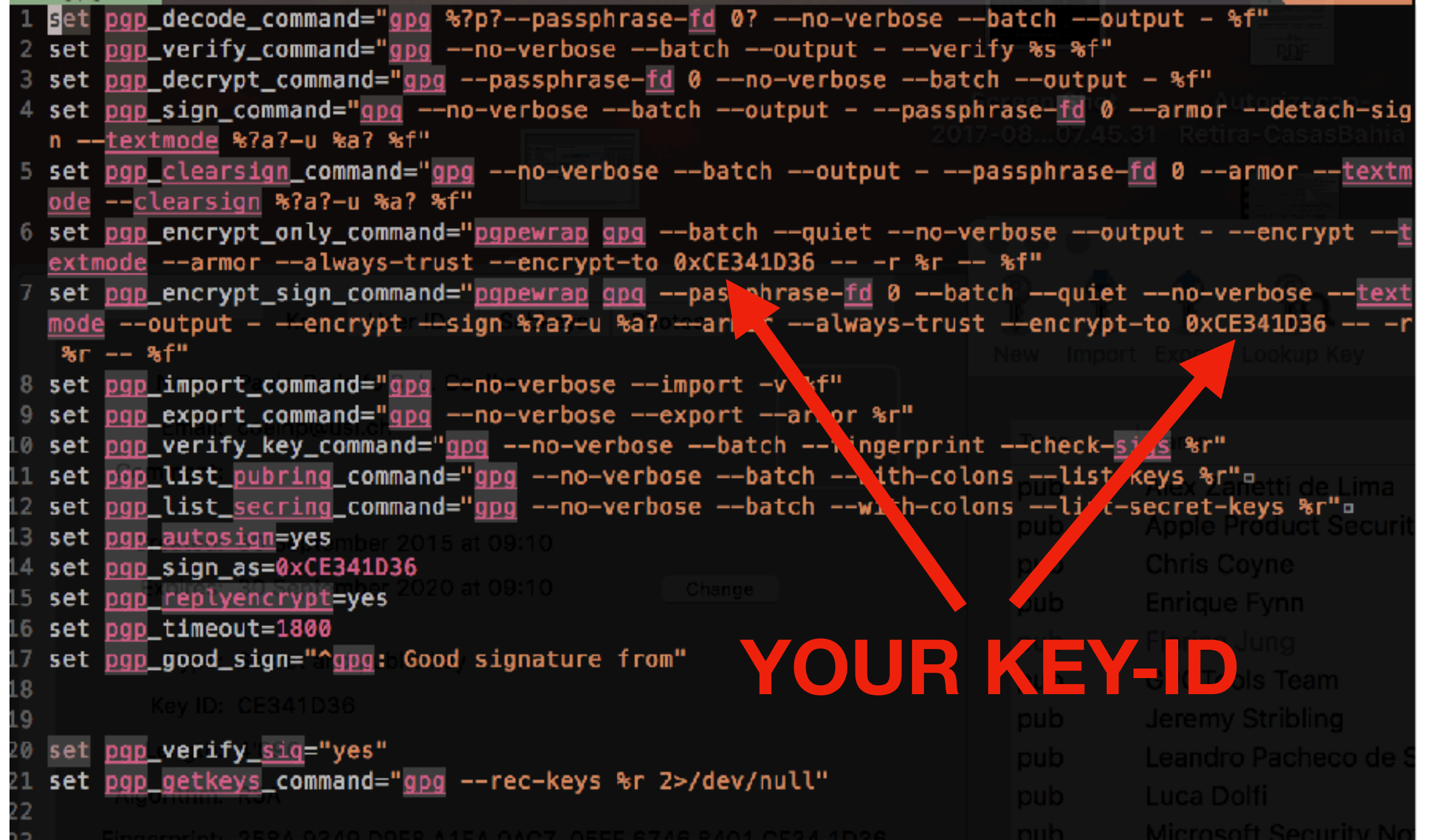
1 set sidebar_visible
2 #set sidebar_format = "%B%?F? [%F]?%* %?N?%?S"
3 set sidebar_format = "%B %?N?(%N)?%* %S"
4 set sidebar_short_pathmap.gmail.com:993 # Set ten mailbox names
5 set sidebar_delim_chars="/" # Delete everything up to the last / character
6 set mail_check_stats_sh
7 postponed = [Gmail]/Drafts
8 bind index,pager \CP sidebar-previous
9 # Ctrl-Shift-P - Previous Mailbox/bodies
10 bind index,pager \CN sidebar-next
11 # Ctrl-Shift-N - Next Mailbox
12 bind index,pager \CV sidebar-open
13 # Ctrl-Shift-V - Open Highlighted Mailbox
14 smtp_url = "smtps://paulo.coelho@smtp.gmail.com"
15 bind index,pager B sidebar-toggle-visible
16 # Use 'B' to switch the Sidebar on and off
17 copy = no # dont store sent mess
18 boxes = 'INBOX' = '[Gmail]/All Mail' = '[Gmail]/Drafts' = '[Gmail]/Sent Mail' = '[Gmail]/Spam'
19 set sidebar_width = 20
20 # Plenty of space
21 set sidebar_divider_char = ' | ' > "Purge message"
22 # Pretty line-drawing character > "Mark as read"
23 ro index,pager I <clear-flag>0 > "Mark as unread"
24 color sidebar_indicator default color17 [Gmail]/All Mail # Dark blue background for mail
25 color sidebar_highlight white color238 [Gmail]/Starred # Grey background for starred
26 color sidebar_spoolfile yellow default [Gmail]/Drafts # Yellow "Go to Drafts"
27 color sidebar_new <change green> default # Green "Go to New"
28 #color sidebar_ordinary default default <enter> # Default colors for ordinary mail
29 color sidebar_flagged and red old default [Gmail]/Sent Mail # Red "Go to Sent Mail"
30 color sidebar_divider color8 default [Gmail]/Important # Dark grey background for important
31 macro index,pager ! <save-message>=[Gmail]/Spam <enter> "Report spam"

```



# Mutt config: gpg

```
1 set pgp_decode_command="gpg %?p?--passphrase-fd 0? --no-verbose --batch --output - %f"
2 set pgp_verify_command="gpg --no-verbose --batch --output - --verify %s %f"
3 set pgp_decrypt_command="gpg --passphrase-fd 0 --no-verbose --batch --output - %f"
4 set pgp_sign_command="gpg --no-verbose --batch --output - --passphrase-fd 0 --armor --detach-sign
n --textmode %?a?-u %a? %f"
5 set pgp_clearsign_command="gpg --no-verbose --batch --output - --passphrase-fd 0 --armor --textm
ode --clearsign %?a?-u %a? %f"
6 set pgp_encrypt_only_command="pgpwrap gpg --batch --quiet --no-verbose --output - --encrypt --t
extmode --armor --always-trust --encrypt-to 0xCE341D36 -- -r %r -- %f"
7 set pgp_encrypt_sign_command="pgpwrap gpg --passphrase-fd 0 --batch --quiet --no-verbose --text
mode --output - --encrypt --sign %?a?-u %a? --armor --always-trust --encrypt-to 0xCE341D36 -- -r
%r -- %f"
8 set pgp_import_command="gpg --no-verbose --import -v %f"
9 set pgp_export_command="gpg --no-verbose --export --armor %r"
10 set pgp_verify_key_command="gpg --no-verbose --batch --fingerprint --check-sigs %r"
11 set pgp_list_pubring_command="gpg --no-verbose --batch --with-colons --list-keys %r"
12 set pgp_list_secring_command="gpg --no-verbose --batch --with-colons --list-secret-keys %r"
13 set pgp_autosign=yes
14 set pgp_sign_as=0xCE341D36
15 set pgp_replyencrypt=yes
16 set pgp_timeout=1800
17 set pgp_good_sign="^gpg: Good signature from"
18
19 Key ID: CE341D36
20 set pgp_verify_sig="yes"
21 set pgp_getkeys_command="gpg --rec-keys %r 2>/dev/null"
22
23 Fingerprint: 259A 0340 D95B A15A 0407 0555 6746 8401 0534 1D36
```



**YOUR KEY-ID**

# Opening attachments

- **~/.mailcap**: mime-type to application mapping
- **~/.mutt/view\_attachment.sh**: mime-type from file extension
- **contacts** (<https://github.com/tgray/contacts>): convert your contacts from Contacts.app to **~/.mutt/aliases** format

You can use also save from the messages with 'A'

# Mutt: let's use it

- Basic shortcuts
- Use '?' when you forget
- Give a week to memorize them before you just give up!
- Instructions and config files for gmail and USI-mail at:  
[https://github.com/paulo-coelho/my\\_mutt.git](https://github.com/paulo-coelho/my_mutt.git)