Command line editors

working with text files in the terminal

Editors

- **Line Editors**
  - ed
  - ex
- **Terminal Editors**
  - pico
    - nano
  - vi
  - emacs
- **GUI Editors**
  - KDE
    - kate
    - kwrite
  - Gnome
    - gedit
  - sublime
  - atom
  - brackets
- **IDE**
  - eclipse
  - Bluefish
  - NetBeans
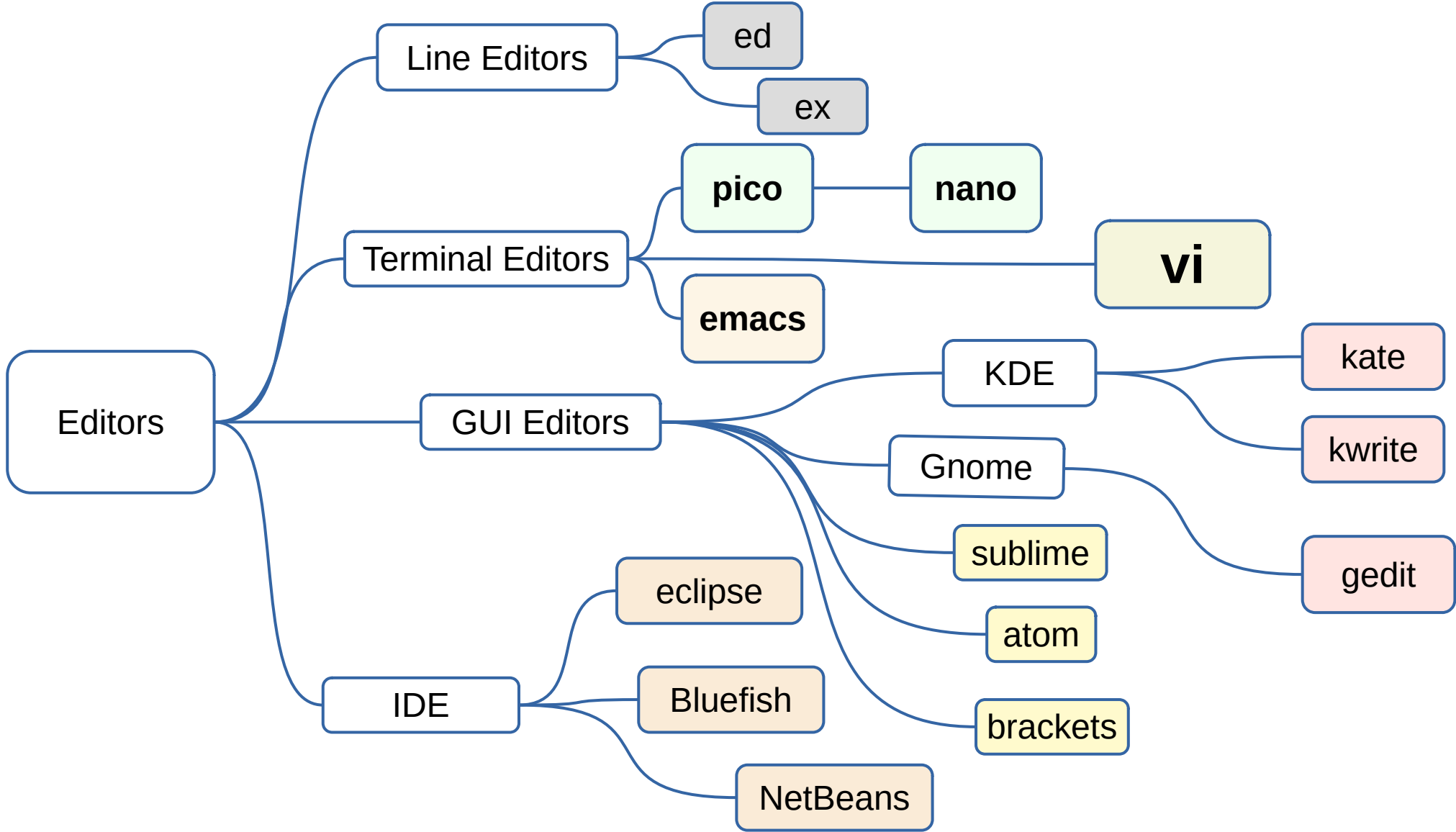
Features

- Scrolling, view modes, current position in file
- Navigation (char, word, line, pattern)
- Insert, Replace, Delete
- Cut-Copy-Paste
- Search-Replace
- Language-aware syntax highlighting
- Key-maps, init scripts, macros
- Plugins

ed

Show the Prompt	P
Command Format	`[addr[,addr]]cmd[params]`
commands for location	`2 . $ % + - , ; /RE/`
commands for editing	`f p a c d i j s m u`
execute a shell *command*	`!command`
edit a file	`e filename`
read file contents into buffer	`r filename`
read *command* output into buffer	`r !command`
write buffer to filename	`w filename`
quit	`q`

ed / ex commands

f	show name of file being edited
p	print the current line
a	append at the current line
c	change the line
d	delete the current line
i	insert line at the current position
j	join lines
s	search for regex pattern
m	move current line to position
u	undo latest change

nano

File handling
Ctrl+S   Save current file
Ctrl+O   Offer to write file ("Save as")
Ctrl+R   Insert a file into current one
Ctrl+X   Close buffer, exit from nano

Editing
Ctrl+K   Cut current line into cutbuffer
Alt+6   Copy current line into cutbuffer
Ctrl+U   Paste contents of cutbuffer
Alt+T   Cut until end of buffer
Ctrl+]   Complete current word
Alt+3   Comment/uncomment line/region
Alt+U   Undo last action
Alt+E   Redo last undone action

Search and replace
Ctrl+Q   Start backward search
Ctrl+W   Start forward search
Alt+Q   Find next occurrence backward
Alt+W   Find next occurrence forward
Alt+R   Start a replacing session

Deletion
Ctrl+H   Delete character before cursor
Ctrl+D   Delete character under cursor
Alt+Bsp   Delete word to the left
Ctrl+Del   Delete word to the right
Alt+Del   Delete current line

Information
Ctrl+C   Report cursor position
Alt+D   Report line/word/character count
Ctrl+G   Display help text

https://www.nano-editor.org/dist/latest/cheatsheet.html

nano

Moving around

Ctrl+B	One character backward
Ctrl+F	One character forward
Ctrl+←	One word backward
Ctrl+→	One word forward
Ctrl+A	To start of line
Ctrl+E	To end of line
Ctrl+P	One line up
Ctrl+N	One line down
Ctrl+↑	To previous block
Ctrl+↓	To next block
Ctrl+Y	One page up
Ctrl+V	One page down
Alt+\	To top of buffer
Alt+/	To end of buffer

Special movement

Alt+G	Go to specified line
Alt+]	Go to complementary bracket
Alt+↑	Scroll viewport up
Alt+↓	Scroll viewport down
Alt+<	Switch to preceding buffer
Alt+>	Switch to succeeding buffer

Various

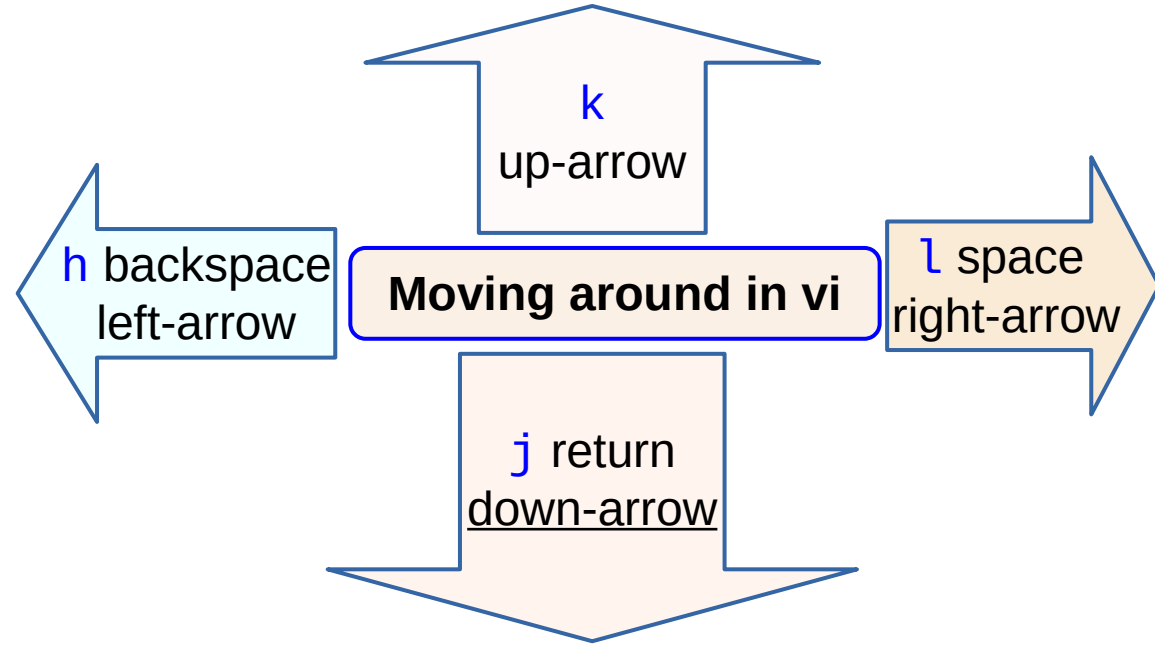|	
Alt+A	Turn the mark on/off
Tab	Indent marked region
Shift+Tab	Unindent marked region
Alt+V	Enter next keystroke verbatim
Alt+N	Turn line numbers on/off
Alt+P	Turn visible whitespace on/off
Alt+X	Hide or unhide the help lines
Ctrl+L	Refresh the screen

https://www.nano-editor.org/dist/latest/cheatsheet.html

Modes in vi

vi

command mode — Esc

insert mode — i, o, a, I, O, A

ex mode — :
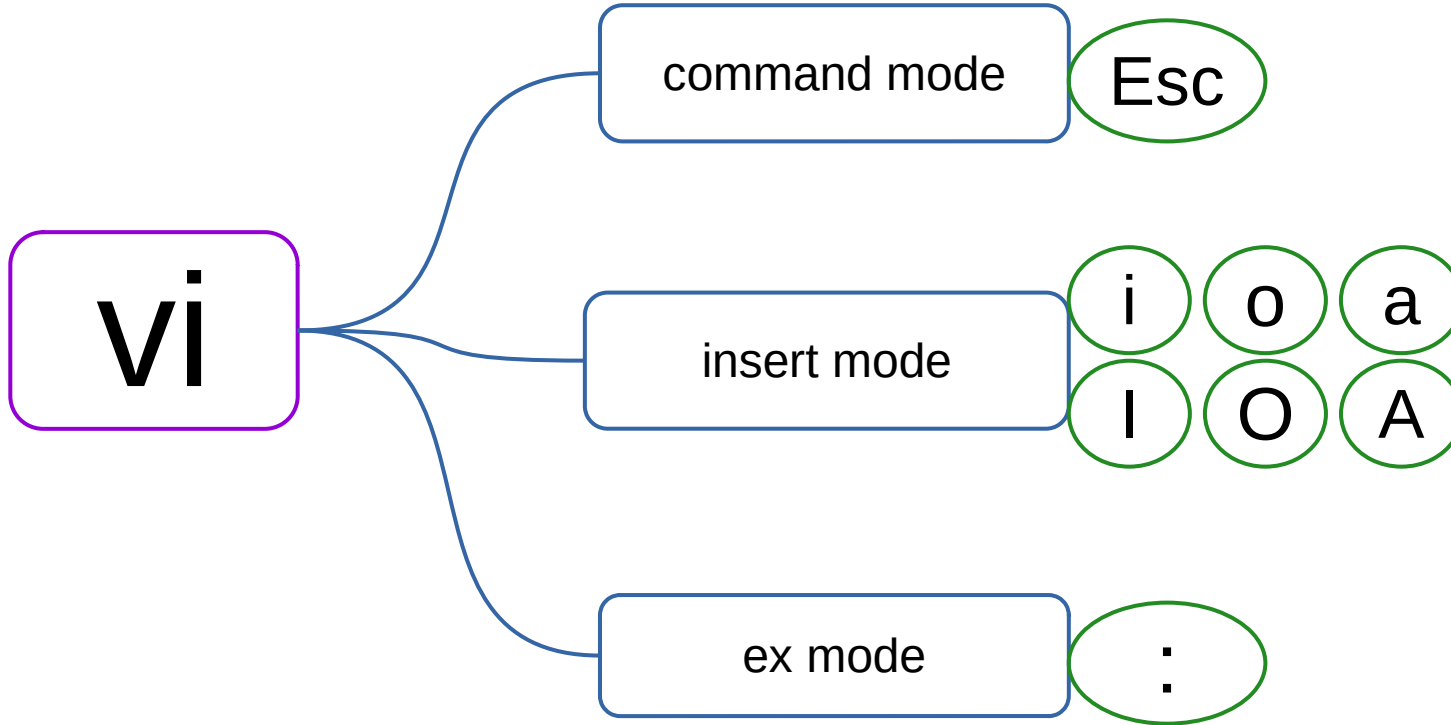
vi help

Exiting vi

`:w`   write out
`:x`   write out and quit
`:wq`   write out and quit
`:q`   quit (if write out is over)
`:q!`   ignore changes and quit

k
up-arrow

h backspace
left-arrow

Moving around in vi

l space
right-arrow

j return
down-arrow

https://vimhelp.org/

vi command mode

cntrl+f	Scroll forward one screen
cntrl+b	Scroll backward one screen
cntrl+d	Scroll down half screen
cntrl+u	Scroll up half screen
cntrl+l	Redraw screen
cntrl+r	Redraw screen removing deleted stuff

Moving around

0	start of the current line
$	end of the current line
w	beginning of next word
b	beginning of preceding word
:0	first line in the file
1G	first line in the file
:n	nth line in the file
nG	nth line in the file
:$	last line in the file
G	last line in the file

vi command mode

r	replace single char under cursor
R	replace chars from cursor till Esc
cw	change word under cursor, from current char till Esc
cNw	change N words, from current char till Esc
C	change chars in current line till Esc
cc	change current line till Esc
Ncc	change next N lines, starting from current, till Esc

x	delete single char under cursor
Nx	delete N chars from cursor
dw	delete one word, from the char under cursor
dNw	delete N words, from the char under cursor
D	Delete rest of the line, from the char under cursor
dd	delete current line
Ndd	delete next N lines, starting from current

vi command mode

yy	copy current line to buffer
Nyy	copy next N lines, including current, into buffer
p	Paste buffer into text after current line
u	undo previous action

:se nu set line numbers
:se nonu unset line numbers

searching text

/string	search forward for string
?string	Search backward for string
n	move cursor to next occurance of string
N	move to previous occurance of string

emacs

Moving around

C-x means contrl+x
M-x means alt+x

C-p	Move up one line
C-b	Move left one char
C-f	Move right one char
C-n	Move down one line
C-a	Goto beginning of current line
C-e	Goto end of current line
C-v	Move forward one screen

M-<	Move to first line of the file
M-b	Move left to previous word
M-f	Move right to next word
M->	Move to last line of the file
M-a	Move to beginning of current sentence
M-e	Move to end of current sentence
M-v	Move back one screen

https://www.gnu.org/software/emacs/refcards/pdf/refcard.pdf

emacs commands

C-x C-s	Save buffer to file
C-z	Exit emacs but keep it running
C-x C-c	Exit emacs and stop it

searching text

C-s	Search forward
C-r	Search backward
M-x	Replace string

copy-paste

M-backspace	Cut the word before cursor
M-d	Cut the word after cursor
C-k	Cut from cursor to end of line
M-k	Cut from cursor to end of the sentence
C-y	Paste the content at the cursor

Tom Hanks
Catherine Zeta-Jones

The Terminal

Life is waiting.
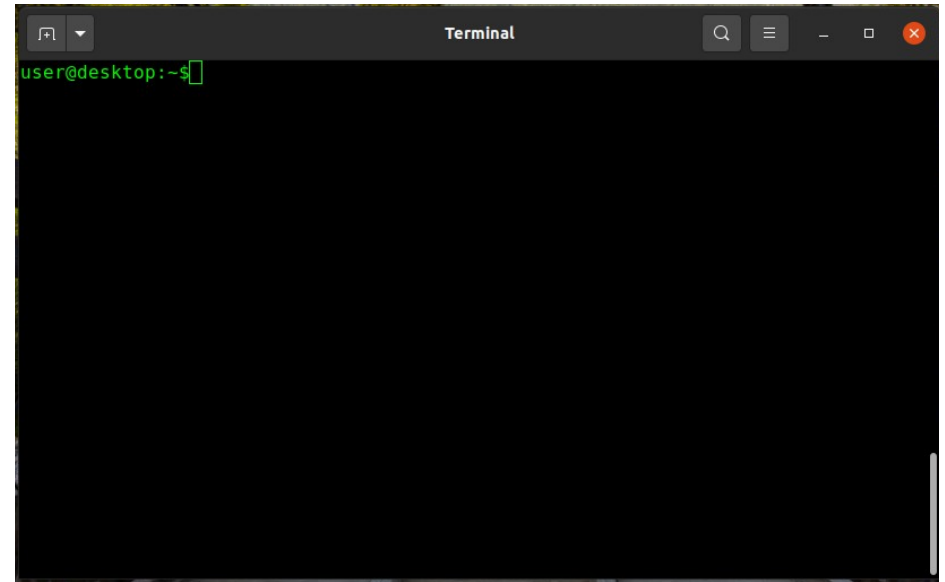
Ref: wikipedia, may be copyrighted

Life has started ...

Terminal

user@desktop:~$