

Vim/Neovim

Lyntale

Jakob Hansen

UiO

April 6, 2022

Hva er Vim?

- Tekst-editor med lang historie
 - ▶ Vi - 1976
 - ▶ Vim - 1991
 - ▶ Neovim - 2014
- Terminal-basert editor



Moduser - Slutt å bruk musa

- Insert mode
- Normal mode
- Visual mode
- Command mode
- Replace mode

version 1.1
April 1st, 06

vi / vim graphical cheat sheet																						
Esc normal mode																						
~ toggle case	! external filter	@> play macro	# prev ident	\$ eol	% goto match	^ "soft" bol	& repeat is	* next ident	(begin sentence) end sentence	"soft" bol down	+ next line										
^ goto mark	1	2	3	4	5	6	7	8	9	0 "hard" bol	- prev line	= auto format										
Q ex mode	W next WORD	E end WORD	R replace mode	T back till	Y yank line	U undo line	I insert at bol	O open above	P paste before	{ begin parag.	}	end parag.										
q record macro	w next word	e end word	r replace char	t till	y yank	u undo	i insert mode	o open below	p paste after	* misc	*	misc										
A append at eol	S subst line	D delete to eol	F "back" find ch	G eof/ goto ln	H screen top	J join lines	K help	L screen bottom	• ex cmd line	" reg. spec	! bol/ goto eol											
a append	s subst char	d delete	f find char	g extra ends	h ←	j ↓	k ↑	l →	• repeat 1/T/E/F	' goto mk. bol	\ not used!											
Z quit	X back-space	C change to eol	V visual lines	B prev word	N prev (find)	M screen out	< un-indent	> indent	? find (rev.)													
Z extra ends	X delete char	c change	V visual mode	b prev word	n next (find)	m set mark	< repeat 1/T/E/F	> repeat cmd	/ find													

hjkl - Enkel navigasjon (normal) og redigering (insert)

- h,j,k,l → Flytt som piltastene
- w, b, e → Flytt ordvis
- 0,\$ → Start og slutt av linje
- <C-d>, <C-u>, zz → Scrolling
- i,I,A → Insert mode
- <Esc> → Normal mode

version 1.1
April 1st, 06

vi / vim graphical cheat sheet															
Esc normal mode															
~ toggle case ` goto mark	! external filter 1	@ play macro 2	# prev ident 3	\$ eol 4	% goto match 5	^ "soft" bol 6	& repeat :s 7	* next ident 8	(begin sentence 9) end sentence 0	"soft" bol - prev line + next line	+ next line = auto format			
Q ex mode q record macro	W next word w next word	E end WORD e end word	R replace line r replace char	T back till t till	Y yank line y yank	U undo line u undo	I insert at bol i insert mode	O open above o open below	P paste before p paste after	{ begin parag. * misc	} end parag. * misc				
A append at eol a append	S subst line s subst char	D delete to eol d delete	F "back" find char f find char	G col/ goto lin g extra ⁴ end	H screen top h ←	J join line j ↓	K help k ↑	L screen bottom l →	• ex cmd line • repeat : /T/t/F	" reg. ¹ spec • goto mk. bol	bol/ goto col not used				
Z: quit ¹ Z extra ends	X back-space X delete char	C change to eol c change	V visual lines v visual mode	B prev WORD b prev word	N prev (find) n next (find)	M screen midT m set mark	< un-indent reverse : /T/t/F	> indent end	? find (rev.) / find						

Vim som et språk med operatører

• Operatører

- ▶ Change (c + motion)
- ▶ Delete (d + motion)
- ▶ Yank (y + motion, copy)

• Motions

- ▶ Alle måter å bevege seg på
- ▶ iw → inside word
- ▶ i) → inside ()
- ▶ f{char} → Til char

Derfor: ci) → change inside ()

version 1.1
April 1st, 06

Esc
normal
mode

vi / vim graphical cheat sheet

~ toggle case	! external filter	@ play macro	# prev ident	\$ eol	% goto match	^ "soft" bol	& repeat in	% next ident	(begin sentence) end sentence	"soft" bol down	+ next line
_, goto mark	1	2	3	4	5	6	7	8	9	0 "hard" bol	= auto format	
Q ex mode	W next word	E end word	R replace mode	T back till	Y yank line	U undo line	I insert at bol	O open above	P paste before	{ begin parag.	}	end parag.
q record macro	w next word	e end word	r replace char	t till	y yank	u undo	i insert mode	o open below	p paste after	* misc	}	misc
A append at eol	S subst line	D delete to eol	F "back" find ch	G "fwd" goto ln	H screen top	J join lines	K help	L screen bottom	. ex cmd line	" reg. spec	" reg. spec	hol/ goto col
a append	s subst char	d delete	f find char	g extra emds	h	j	k	l	* repeat 1/T/U/F	' goto mk. bol	\ not used!	
Z quit	X back-space	C change to eol	V visual lines	B prev word	N prev (find)	M screen midT	< un-indent	> indent	? find (rev.)			
Z extra emds	x delete char	c change	v visual mode	b prev word	n next (find)	m set mark	reverse 1/T/U/F	repeat cmd	/ find			

Litt mer avansert redigering

- Marks - Husk en posisjon i filen
- Registers - Lagre i clipboard
- Makroer - Lagre en sekvens av kommandoer

Kult konsept, men jeg liker ikke terminalen...

- Omtrent alle store editorer har en Vim plugin/extension
 - ▶ VSCode
 - ▶ IntelliJ
 - ▶ Emacs
 - ▶ Atom
 - ▶ Chrome/Firefox
 - ▶ Zathura (PDF)
 - ▶ Mange flere

Konfigurer Neovim til å bli en IDE

- Vimscript/Lua konfigurasjon
- LSP
- Treesitter
- Must-have plugins
- Neovim only

Lua konfigurasjon

- Lua \approx Python
- Nytt innebygd språk i Neovim
- Konfigurere Neovim \rightarrow init.lua
- Vimscript finnes, legacy

LSP

- Kjør en “Language-server” i bakgrunnen
- Tilbyr:
 - ▶ Auto-completion
 - ▶ Go-to-definition
 - ▶ Rename variable
 - ▶ Diverse Code-actions
 - ▶ Utrolig mye mer

Treesitter

- Parser generator som genererer raske incremental parsere
- Syntax-highlighting, refaktorering, søking
- Stort potensiale for plugins

“Must-have” plugins

- nvim-cmp (Auto-completion)
- Telescope (Fuzzy-finder)
- vim-fugitive (Git)
- Which-key (Mappings)
- Neorg (Notater)
- Flere: <https://github.com/rockerB00/awesome-neovim>

Min workflow

- Finne mapper/filer/kode - Telescope
- Bevegelse
 - ▶ Scrolling - <C-u>/<C-d>
 - ▶ Vertikal bevegelse - {count}j/k med mappings
 - ▶ Horisontal bevegelse - f/t{char}
 - ▶ Større bevegelser - Søk med /
- Alle andre convenient mappings - Which-key

Siste tips

- Prøv Vim i hvertfall 2-4 uker
- Map Caps lock til Escape
- Vimtutor / Vim-adventures
- Pre-made konfigurasjoner (LunarVim)

Takk for meg!

- <https://www.vim.org/>
- <https://neovim.io/>
- <https://github.com/LunarVim/LunarVim>
- <https://github.com/jakobkhansen/dotfiles/>
- <https://github.com/jakobkhansen/VimTalk>

:wq

