

# Vim/Neovim

## Lyntale

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# Hva er Vim?

- Tekst-editor med lang historie
  - ▶ Vi - 1976
  - ▶ Vim - 1991
  - ▶ Neovim - 2014
- “Modal” terminal-based editor



# Moduser - Slutt å bruk musa

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

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 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 ends	H screen top	J join lines	K help	L screen bottom	* ex cmd line	" reg. i spec	bol/ goto eol	
a append	s subst char	d delete	f find char	g extra <sup>5</sup>	h ←	j ↓	k ↑	l →	* repeat : t/T/E/F	* gets mk. bol	* not used!	
Z quit <sup>4</sup>	X back-space	C change to eol	V visual lines	B prev WORD	N (prev find)	M screen out	< un-indent	> indent	? find (rev.)	/ find		
Z extra <sup>5</sup>	X delete char	c change	v visual mode	b prev word	n (find)	m set mark	< reverse	> repeat cmd				

# h,j,k,l - 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 → Flytte vinduet
- i,l,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. } 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 <sup>4</sup> end	H screen top h ←	J join line j ↓	K help k ↑	L screen bottom l →	• ex cmd line • repeat : /T/t/F	" reg. <sup>1</sup> spec • goto mk. bol	bol/ goto col not used				
Z: quit <sup>1</sup> Z extra ends	X back-space to eol 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						

# “You don’t grok vi” - Vim som et språk med operatorer

## • Operatorer

- ▶ 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 ()

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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.
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A append at eol	S subit line	D delete to eol	F "back" find ch	G "soft" goto ln	H screen top	J join lines	K help	L screen bottom	. ex cmd line	" reg. spec	" reg. spec	hol/ goto eol
a append	s subit 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
- Must-have plugins



# 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

## “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

- Map Caps lock til Escape
- Vimtutor
- Bruk :h
- Open-source utvikling
- Pre-made konfigurasjoner

# Takk for meg!

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

:wq