Preparation

```
git clone https://github.com/aswen/vim-workshop.git
or
github.com/aswen/vim-workshop/archive/master.zip
(bit.ly/16s4tMQ)

vim-workshop/
   |-files/ (excercises)
   |-presentation/ (this presentation and handouts.pdf)
   |-vim-config/
   |-startvim <= Script to startup Vim</pre>
```

Not yet installed Vim? => www.vim.org => download No Internet, ask me for usb stick.



Based on workshop created together with Joël Stemmer for Nedap

Example header
=========

This is header 2

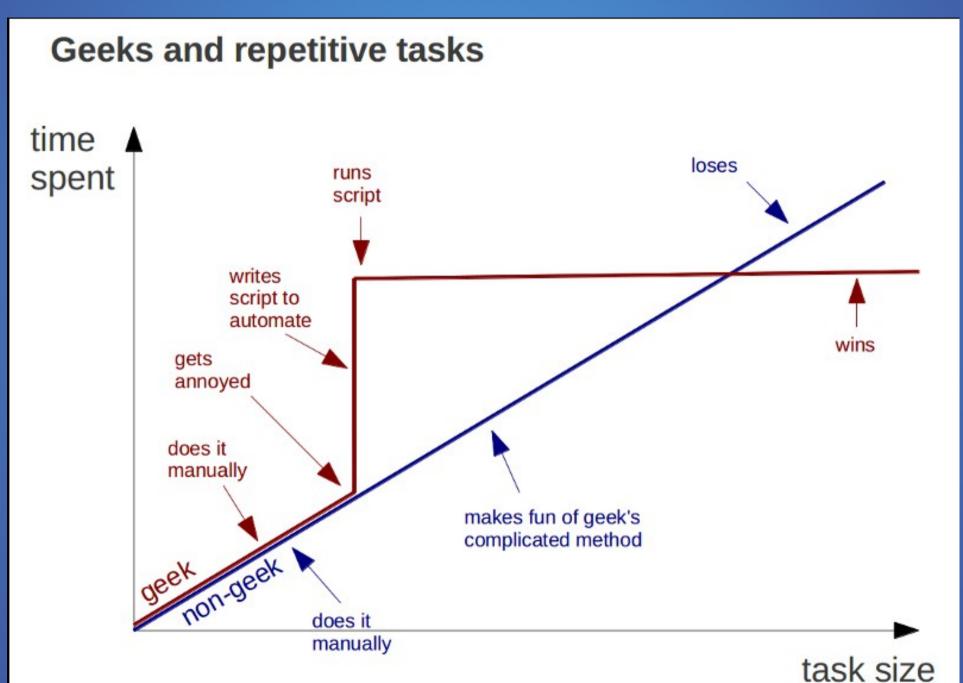


```
This is header 2 ========
```

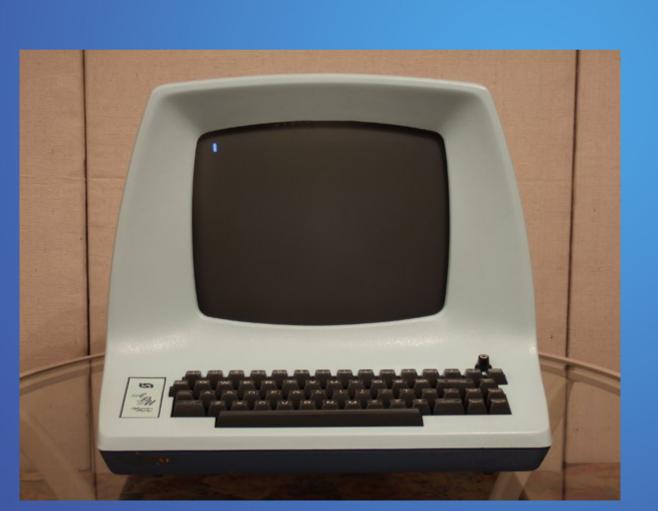
This is a somewhat longer header...



Notepad Pico Classical learning curves for some common editors 11-17-04 **Visual Studio** vi emacs



Brief history of Vim

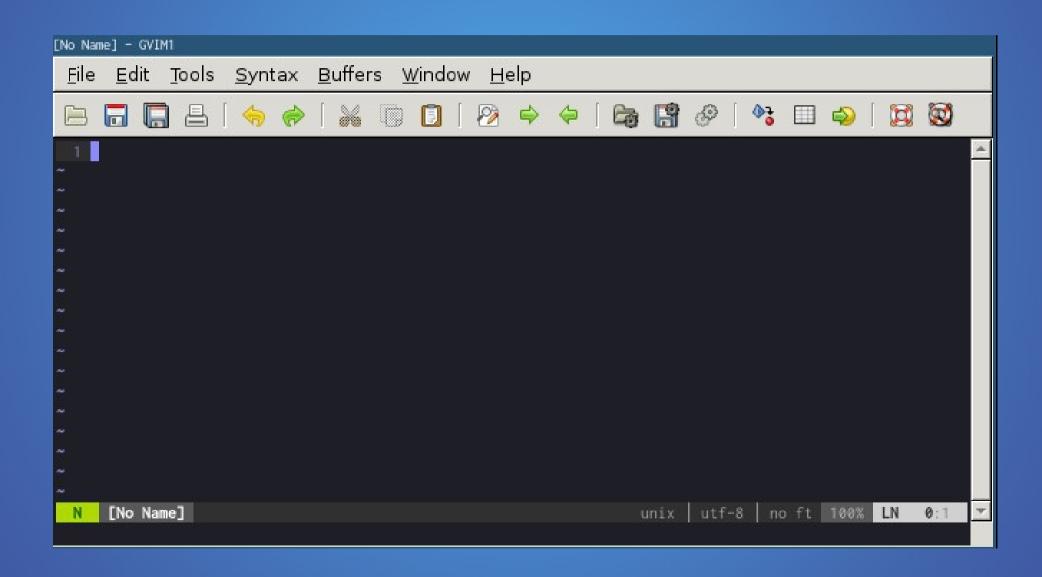


Brief history of Vim





Vim Gui



Don't Panic

<esc> Back to normal mode

:q! Quit discarding changes

:wq Write changes & quit (or ZZ, or :x)

:e [file] Edit [file] (:e! <enter> reloads file)

:h Help!

Modes

Vim Modes

```
Normal mode (<esc>) - Move cursor/view
- Text manipulation
- Ex mode commands (:<cmd>)
- Search (/{string})

Insert mode (i) - Input text

Visual mode (v) - Select text
```

Vim Modes

```
NORMAL mode
                    <esc>
INSERT mode
                            insert
                            Insert @begin of 1st word.
                    a
                           append
                           Append @eol (End Of Line)
                            open line
                            Open line above
VISUAL mode
                    v, V or \langle ctrl \rangle + v
```

Undo/ Redo

u **u**ndo

<ctrl>+r redo

Repeat actions

Repeat actions *n* times

```
#<action> executes the action # times
Example:
4l moves cursor 4 places to the right
```

```
4i{some tekst }<esc> creates:
some tekst some tekst some tekst
```

Motions

Motions

Motions

Exercise

Startup vim (./startvim)

```
- i f f b r <esc>
- a a <esc>
- a e <esc>
- 3 h
- i e <esc> . (an actual dot)
- l a <space><esc>
- A k <esc>
- I c o <esc>
- /a <enter>
- xp
```

reference

i insert

a append

hjkl left,dn,up,right

A Append eol

Repeat cmd

I Insert bol

/a Search "a"

xp Delete/paste

Coffee break

More motions

<home></home>	0	begin of line (bol)
	٨	Begin of 1st word
<end></end>	\$	end of line (eol)
<ctrl>+<pgup></pgup></ctrl>	gg	begin of file (bof)
<ctrl>+<pgdn></pgdn></ctrl>	G	end of file (eof)

More motions

<pgup></pgup>	<ctrl>+f</ctrl>	Page f orward

<pgdown> <ctrl>+b Page backward

{ } Paragraph up/down

zz Center file on cursor

More motions

w next word

e **e**nd of word

b **b**eginning of word

:22 goto line 22

Operators

Operators

- c change (has to be followed by motion)
- Change line from cursor to eol
- cc change entire line
- d delete (has to be followed by a motion)
- Delete from cursor to eol
- dd **d**elete entire line

Operator + Motion

Operator + Motion

```
c w change to end of word
```

d b **d**elete to **b**egin of word (bow)

c ^ change to bol

d G delete to eof

reference

Exercise: [file] Open [file]

Startup vim (./startvim)	{ }	Prev. / next paragraph
 open files/1-lorem.txt 	c4w	Change 4
 go to 3rd paragraph 		words
- change 3rd word to "bla"	C	change
 change the following 4 words to 		change
"blabla"	C^	Change to
 delete the 6th (empty) line 		bol
go to the end of the 7th word of4 paragraphs down and change	dd	Delete line
from there to the beginning of	4}	Move down 4
	. ,	paragraphs
that line to "this is fun".		
	d G	Delete from
		cursor to eof.

Even more motions

```
f {char} find character

t {char} to/till character
```

Even more motions

```
f {char} find character

t {char} to/till character

; repeat

, reverse
```

Operator + motion

Exercise

Open files/4-boilerplate.html

reference

(Only use the motions and operators we learned so far)

line 16: selectnavigation/extensions andswap them

line 18: change deck.hashes.css to deck.hash.css

- line 82: same as 18

c f {char} change find character (incl that char)

d t {char} delete to character

v f {char} Select find character (incl that char)

Searching

Searching

```
/{string} Search string (may be regex)
```

n next occurrence

<shift>+n previous occurrence (backwards)
(N)

Operator + search

```
c / {string} Change to string
d / {string} Delete to string
v / {string} Select till 1st char of string!
```

Exercise

Open files/4-boilerplate.html

(Only use the motions and operators we learned so far)

line 16: selectnavigation/extensions andswap them

line 18: change deck.hashes.css to deck.hash.css

- line 82: same as 1

reference
/{char} Search {char}
n Next occurrance

Cut/Copy/Paste & visual mode

Cut/Yank(copy)/Paste

y w **y**ank **w**ord

у у **y**ank current line

d w delete word

paste after

shift+p Paste before

(P)

Visual mode

v **v**isual mode

shift+v **V**isual line mode

(V)

ctrl+v **v**isual block mode

Visual mode + motions

V W	visual select word	
shift+v 3j (V)	Visual select 4 lines	
ctrl+v G	visual select a block to eof	

Visual mode + operators

- c change selection
- d delete selection
- y yank (copy) selection
- r replace <u>each</u> character in selection
- p paste over selection
- Ex mode command (example: s/search/replace/)

Exercise

<ctrl>+v

C

d

У

p

Open files/6-digits.txt

Remove lines 1, 3 and last

Make a csv file

reference

visual mode

<shift>+v Visual line mode

visual block mode

change selection

delete selection

yank (copy) selection

replace selection

paste over selection

Ex command mode

(e.g.

:s/search/replace/)

Search/replace

:s/before/after/

Replaces the first occurance of the word "before" with

"after" on this line.

:s/before/after/g

Replaces each occurance of the word "before" with after on this line or selection (global)

:%s?/usr/lib?/usr/lib64?g

Entire file, ? is allowed as well as a delimiter

:24,27:s<ctrl<shift<g

On lines 24-27, < is also a valid delimiter

&

Repeat last search/replace

Exercise

Open files/6-digits.txt

- Remove lines 1, 3 and last
- Make a csv file (using search/replace)

reference

:s/search/replace/

:%s?search?replace?g

Exercise

Open files/6-digits.txt

- Remove lines 1, 3 and last
- Make a csv file (using search/replace)

reference

:s/search/replace/

:%s?search?replace?g

:%s?\D\+\(\d\+\)\D\+\(\d\+\)\D\+?\1,\2?

Text objects

Text objects

- i in/inner
- a **all/around**

More text objects

```
" ' ` ( [ { } ] ) Delimiters (ci")

w word

s sentence

p paragraph

t tag (<b>bla</b>)
```

Operator + text objects

```
c i " change inner string
```

d i t delete inner tag

y a p yank all paragraph

v a s **v**isual select **a**ll **s**entence

c a w change all word

Fun for if we have time left...

Fun for if we have time left: vimrc buffers windows plugins

Vimrc

:so %

Reload vimrc while editing

:so \$MYVIMRC

General reload

repo:/files/(g)vimrc-alex

My vimrc... bit messy.

(g => gvimrc => if/else thing works only half afaik)

Tip: store your vimrc in a git repo

like so:

https://github.com/aswen/dotvim

buffers

```
\ b open buffer explorer
```

<enter> switch to selected buffer

d delete buffer (close file)

buffers

```
\ b open buffer explorer
```

<enter> switch to selected buffer

d delete buffer (close file)

windows

<ctrl> + w</ctrl>	S	window split
<ctrl> + w</ctrl>	V	window vertical split
<ctrl> + w</ctrl>	q	window quit
<ctrl> + w</ctrl>	hjkl	window focus

plugins

```
Pathogen (github.com/tpope)
/bundle
```

```
git submodule add ...
git submodule init
git submodule update
```

Tool to make it easy to manage plugins
Git clone > bundle

Easier to use git submodules. Easier updates.

Vim in other software

More/less/man

Motions and search

Vimium/vrome

Browser plugin voor GC

pentadactyl

Browser plugin voor FF

Bash (set -o vi)

Vim cmd line!

Plugins voor eclipse en netbeans (etc)

vifm

Vim file manager

That's all

Alexander Swen

questions and feedback: vim@swen.nu

irc:freenode:#vim: aswen

You can hire me to do this for your colleagues!

www.vim.org

Drew Neil: vimcasts.org (he wrote the book "Practical Vim")

vimcheatsheet.com

vimgolf.com
vim-adventures.com

Tim Pope: github.com/tpope

This workshop has been created with Joël Stemmer for our colleagues at Nedap