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.

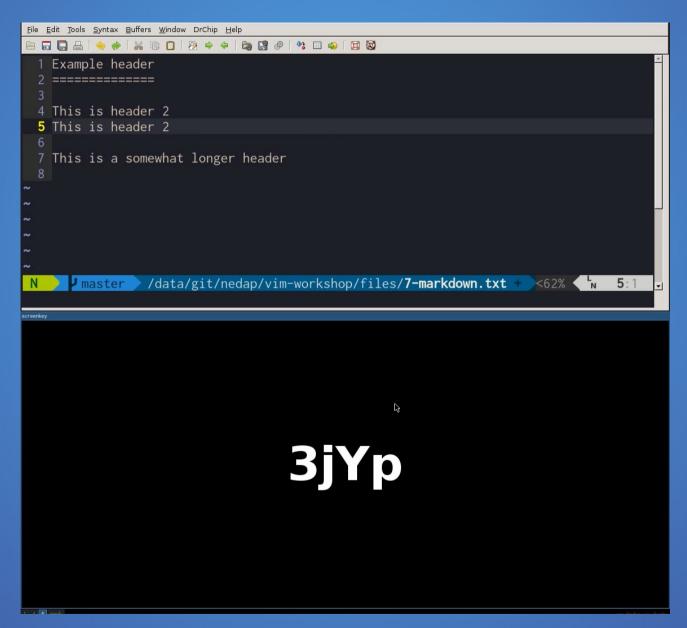


Based on workshop created together with Joël Stemmer for Nedap

This is header 2

```
Example header
========

This is header 2
```

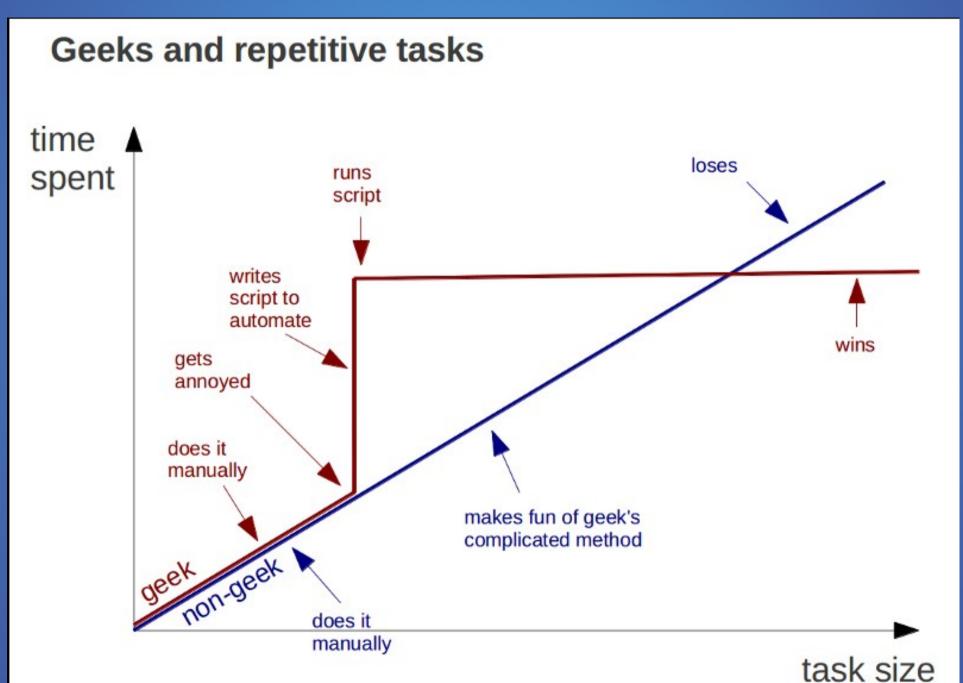


```
This is header 2 ========
```

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

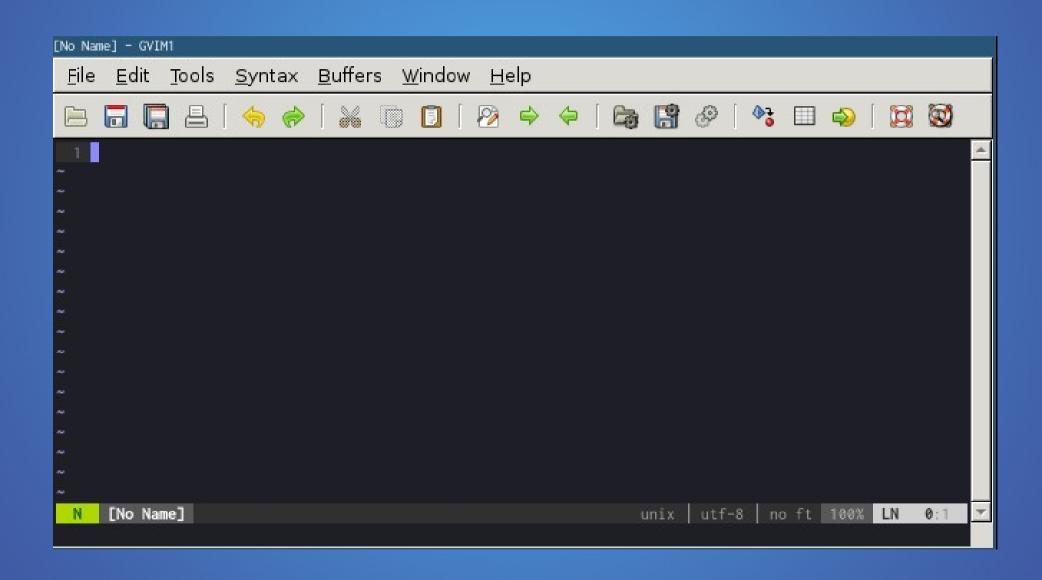


Brief history of Vim





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! Reloads file

:h Help!

```
N [No Name] : unix : utf-8 : no ft : 100% : 0:1
```

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 @BOW (begin of 1st non-
                  whitespace character)
                  append
              a
                 Append @EOL (End Of Line)
             Α
                  open line
                  Open line above
VISUAL mode
             v, V or CTRL+v
```

Undo/ Redo

U

CTRL+r

undo

redo

Repeat actions

Repeat actions N times

```
#<action> repeat <action> # times
Example:
41 moves cursor 4 places to the right
```

```
4i{some text }ESC creates:
some text some text some text
```

Motions

Motions

Motions

h j k 1 \leftarrow \uparrow \rightarrow

Exercise

Startup vim (./startvim)

```
i f f b r ESC
a a ESC
a e ESC
3 h
i e ESC . (a 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 bow

/a Search "a"

xp Delete/paste

Coffee break

HOME	0	begin of line (bol)	
	٨	1st non-whitespace	
END	\$	end of line (eol)	
	gg	begin of file (bof)	
	G	end of file (<i>eof</i>)	

PAGEUP	CTRL+f	Page f orward
PAGEDOWN	CTRL+b	Page b ackward
	{ }	"Paragraph" up/down*
	ZZ	Center view on current {object}

*= Paragraph actually means "first empty Iine before/after this paragraph.

w next word

e **e**nd of word

b **b**eginning of word

:22 goto line 22

w next word

e **e**nd of word

b **b**eginning of word

These "bew" commands may not do what you expect:

Up-to-date

Use "BEW" instead

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:e [file] Open [file]

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

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)

reference
/{string} Search {string}

line 16: selectnavigation/extensions andswap them

n Next occurrance

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

- line 82: same as 1

Cut/Copy/Paste & visual mode

Cut/Yank(copy)/Paste

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

y y yank current line

d w delete word

paste after

(P)

SHIFT+p Paste before

Visual mode

v **v**isual mode

SHIFT+v Visual line mode

(V)

CTRL+v **v**isual block mode

Visual mode + motions

v w visual select word

SHIFT+v 3j Visual select 4 lines

(V)

CTRL+v G **v**isual 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: :wq and :e [file])
```

Exercise

Open files/6-digits.txt

Remove lines 1, 3 and last

Make a csv file

(you don't have to save the file)

٧

SHIFT+v

CTRL+v

C

d

У

r

p

•

reference visual mode

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<true<false<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

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 s

window split

CTRL + w v

window vertical split

CTRL + w q

window quit

CTRL + w h j k l 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 for GC

pentadactyl

Browser plugin for FF

Bash/ksh (set -o vi)

Vim cmd line!

Zsh (bindkey -v)

Vim cmd line!

Plugins for eclipse and netbeans (etc)

vifm

Vim file manager

That's all

Alexander Swen questions and feedback: vim@swen.nu Irc://irc.freenode.org/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