Voorbereiding

```
git clone github.com/nedap/vim-workshop.git
of
github.com/nedap/vim-workshop/archive/master.zip
(bit.ly/115jxMA)

   vim-workshop/
   |-files/ (oefenbestanden)
   |-presentation/ (deze presentatie en handouts.pdf)
   |-vim-config/
   |-startvim <= hiermee starten we vim vandaag
```

Nog geen vim geïnstalleerd => www.vim.org => download
Geen inet? Vraag de usb stick.


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technology that matters

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Naïade

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STEPPING STONE


Thank You
Thank You!
Questions?
BC


INDIAN CURRIES
SUSHI
DRINKS

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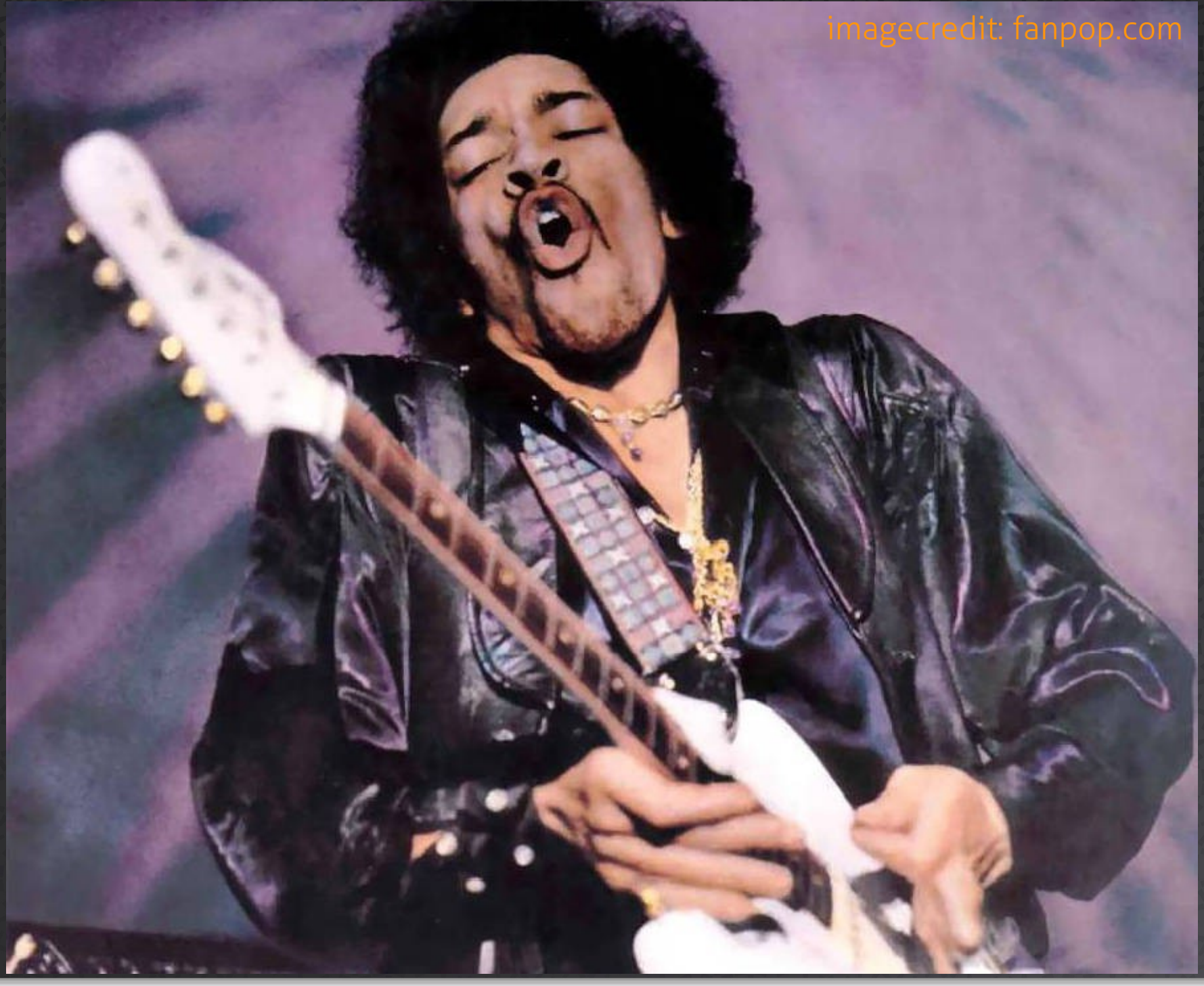
Welcome to You!
September 6,
dap
logy that matters


Vim

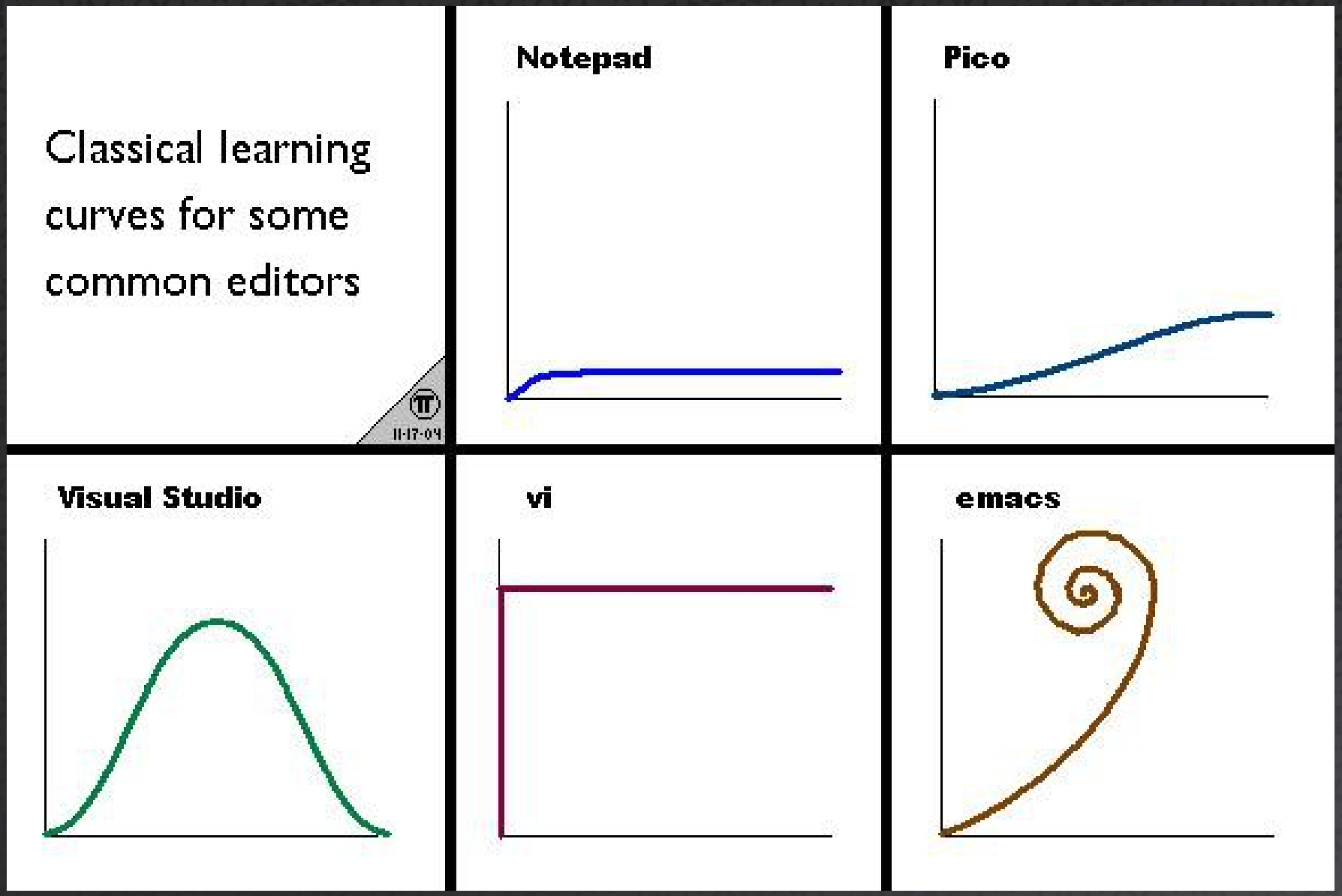
```
Example header
==============

This is header 2
```

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

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

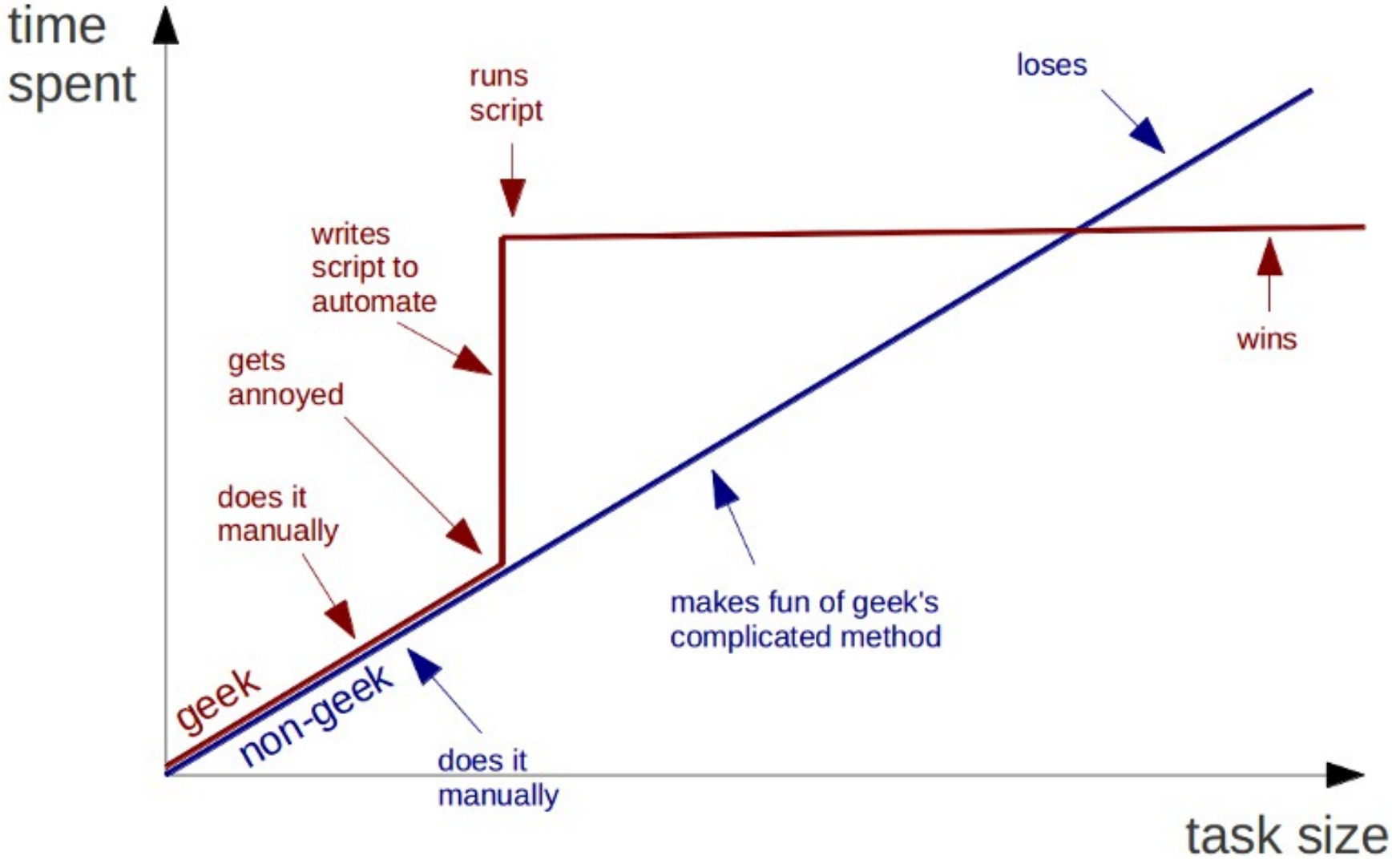
```
Example header
==============

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

This is a somewhat longer header
```


imagecredit: fanpop.com

imagecredit: mlkshk.com



Geeks and repetitive tasks



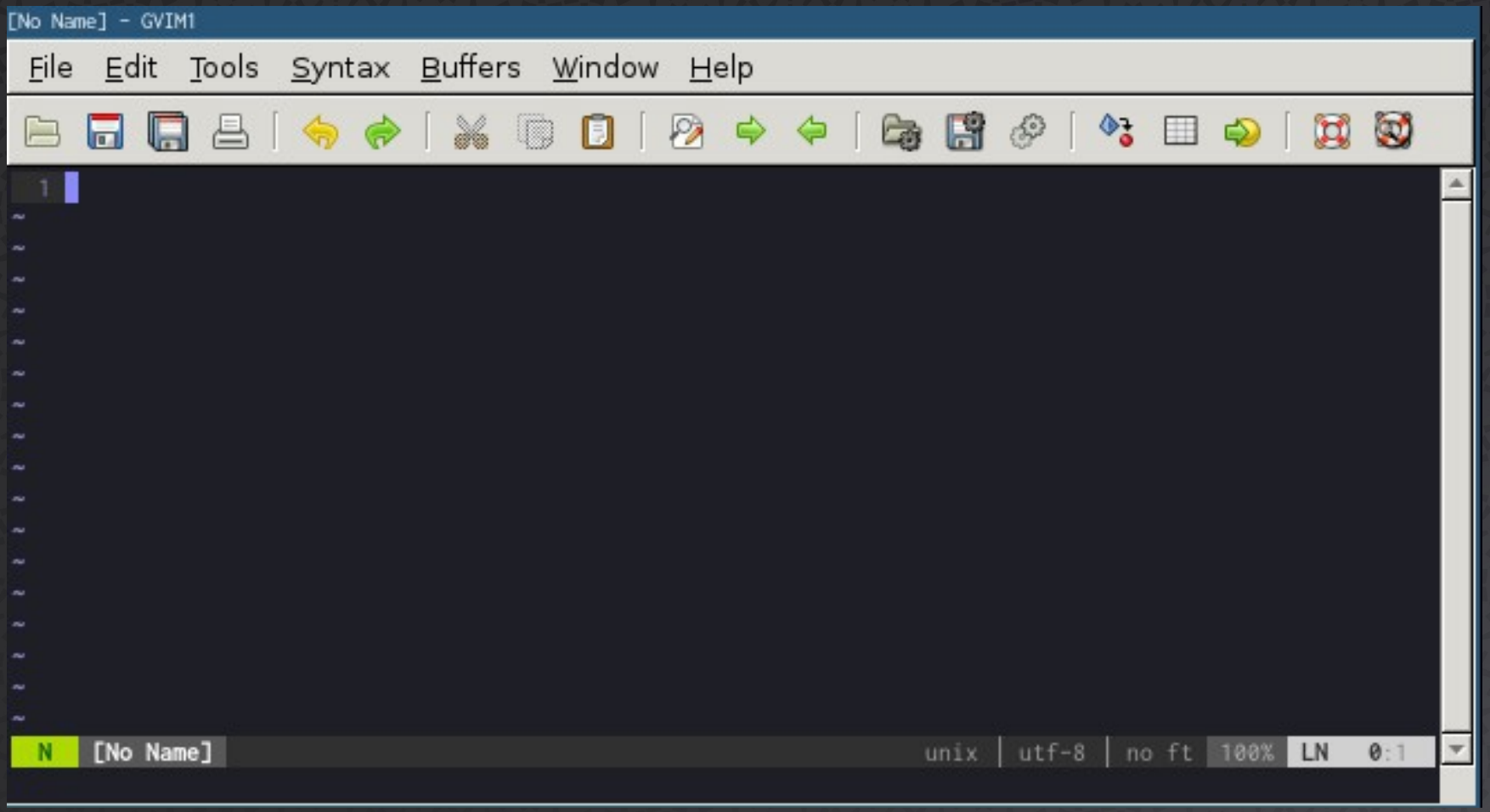
Vim History

Image credit: http://www.catonmat.net/blog/why-vim-uses-hjkl-as-arrow-keys/

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> reload file)
`:h`	vim help

Vim display


[No Name] - GVIM1
File Edit Tools Syntax Buffers Window Help
1
N [No Name] unix | utf-8 | no ft 100% LN 0:1

Vim Modes

Vim modes

* Normal mode (esc)
  - move cursor/view
  - Text manipulation
  - Ex mode commands (:<cmd>)
  - search (/{string})
* Insert mode (i)
  - Input of text
* Visual mode (v)
  - Text selection

Vim modes

* NORMAL mode <esc>
* INSERT mode
  - i **i**nsert
  - I **I**nsert bol begin of line (*bol*)
  - a **a**ppend
  - A **A**ppend end of line (*eol*)
  - o **o**pen line
  - O **O**pen line above
* VISUAL mode v, V or <ctrl>+v

Undo / Redo

`u` **u**ndo

`<ctrl>+r` **r**edo

Repeat actions

repeat action n times

4<action> executes the action 4 times
(example: 4l moves 4 characters to the right)

Motions

Motions

h j k l

← ↓ ↑ →

Exercise

Startup vim (`./startvim`)

- `i f f b r <esc>`
- `a a <esc>`
- `a e <esc>`
- `3 h`
- `i e <esc> .` *(an actual dot)*
- `i<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

Motions

<home>	^	begin of line (*bol*)
<end>	$	end of line (*eol*)
<ctrl>+<pgup>	gg	begin of file (*bof*)
<ctrl>+<pgdn>	G	end of file (*eof*)

Motions

<pgup>	<ctrl>+f	Page forward
<pgdown>	<ctrl>+b	Page backward
	{ }	Paragraph up/down
	zz	Center on cursor

Motions

w	next **w**ord
e	**e**nd of word
b	**b**eginning of word
:22	goto line 22

Operators

c	**c**hange (has to be followed by motion)
C	**C**hange line from cursor to *eol*
cc	**c**hange entire line
d	**d**elete (has to be followed by motion)
D	**D**elete from cursor to *eol*
dd	**d**elete entire line

Operator + Motion

operator + motion

`c w`	**c**hange **w**ord
`d b`	**d**elete to **b**egin of word (*bow*)
`c ^`	**c**hange to *bol*
`d G`	**d**elete to *eof*

Exercise

Startup vim (`./startvim`)

- open `files/1-lorem.txt`
- go to 3rd paragraph
- move down 1 line
- change 3rd word to “bla”
- change the following 4 words to “blabla”
- delete the 6th line
- go to the end of the 7th word of 4 paragraphs down and change from there to the beginning of that line.

reference

`:e [file]`	Open [file]
`{ }`	Prev. / next paragraph
`c4w`	Change 4 words
`c`	change
`c^`	Change to *bol*
`dd`	Delete line
`4}`	Move down 4 paragraphs
`d G`	Delete from cursor to *eof*.

More motions

`f {char}` **f**ind character

`t {char}` **t**o/till character

operator + motion

`c f {char}`	**c**hange **f**ind character (incl that char)
`d t {char}`	**d**elete **t**o character
`v f {char}`	**v**isual select **f**ind character (incl that char)
`c 2 t {char}`	**c**hange **t**o 2nd character

exercise

Open files/4-boilerplate.html

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

– line 16: select navigation/extensions and swap them

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

– line 82: same as 18

reference

`c f {char}`	**c**hange **f**ind character (incl that char)
`d t {char}`	**d**elete **t**o character
`v f {char}`	Select **f**ind character (incl that char)

Searching

Searching

`/{string}`	Search string (may be regex)
`n`	next occurrence
`<shift>+n` `(N)`	previous occurrence (backwards)

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 again

(now use the search method to navigate faster)

– line 16: select navigation/extensions and swap them

– line 18: deck.hashes.css should be deck.hash.css

– line 82: same as 18

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

Cut/Copy/Paste & visual mode

Cut/Yank(copy)/Paste

y w	**y**ank **w**ord
y y	**y**ank line
d w	**d**elete **w**ord
p	**p**aste after
shift+p (P)	**P**aste before

Visual mode

`v`	**v**isual mode
`shift+v` (`V`)	**V**isual line mode
`ctrl+v`	**v**isual block mode

Visual mode + motions

`v w`	**v**isual select **w**ord
`shift+v 3j` `(V)`	**V**isual select 3 lines
`ctrl+v G`	**v**isual select a block to eof

Visual mode + operators

c	**c**hange selection
d	**d**elete selection
y	**y**ank (copy) selection
r	**r**eplace each character in selection
p	**p**aste over selection
:	Ex mode command (example: s/search/replace/)

Excercise

Open files/6-digits.txt

– Remove lines 1, 3 and last
– Make a csv file

	reference
v	**v**isual mode
<shift>+v	**V**isual line mode
<ctrl>+v	**v**isual block mode
c	**c**hange selection
d	**d**elete selection
y	**y**ank (copy) selection
r	**r**eplace selection
p	**p**aste 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

Excercise

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

Excercise

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?
```

operator + text object

Text objects

`i`	**i**n/inner
`a`	**a**ll/around

Text objects

“ ’ ` ([{ }])	Delimiters (ci“)
w	**w**ord
s	**s**entence
p	**p**aragraph
t	**t**ag (bla)

Operator + Text objects

`c i "`	**c**hange **i**nner string
`d i t`	**d**elete **i**nner **t**ag
`y a p`	**y**ank **a**ll **p**aragraph
`v a s`	**v**isual select **a**ll **s**entence
`c a w`	**c**hange **a**ll **w**ord

.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 & Windows

buffers: bufexplorer

`\ b`	open buffer explorer
`enter`	switch to selected buffer
`d`	delete buffer (close file)

Windows

`ctrl + w s`	**w**indow **s**plit
`ctrl + w v`	**w**indow **v**ertical split
`ctrl + w q`	**w**indow **q**uit
`ctrl + w h j k l`	**w**indow **f**ocus

plugins

Pathogen (github.com/tpope)

/bundle

Tool to make it easy to manage plugins

Git clone > bundle

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

Easier to use git submodules.
Easier updates.

www.vim.org
(vim website, vim scripts)

vimcasts.org

vimgolf.com
vim-adventures.com

Nedap events:
bubbleconf.com
nedapatlowlands.com

Nedap hires: werkenbijnedap.com