

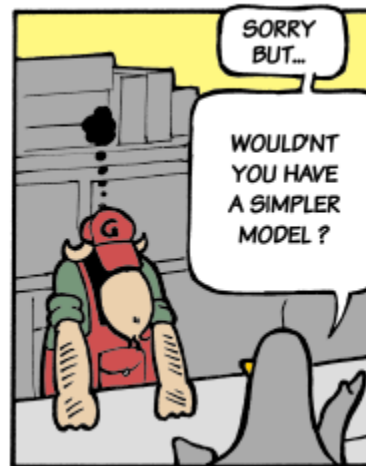
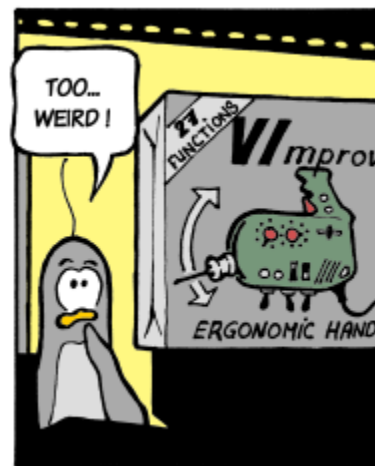
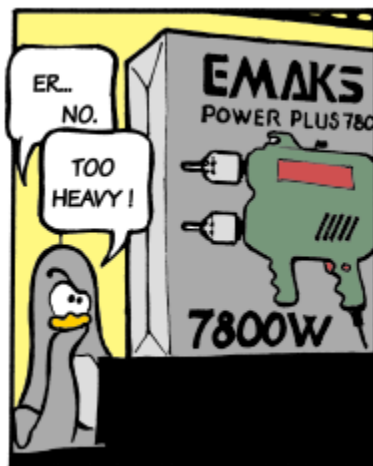
VIM FOR PHP DEVELOPERS

Why on earth would any sane person use Vim for PHP development ? Is it still relevant in the days of full blown IDE's ?



THE GOAL OF THIS PRESENTATION

- Touch some basics
- Show some PHP specific things
- Inspire you to research more about Vim



WHAT IS VIM ?

“Vim is a highly configurable text editor built to enable efficient text editing. It is an improved version of the vi editor distributed with most UNIX systems.”

“Vim is often called a "programmer's editor," and so useful for programming that many consider it an entire IDE. It's not just for programmers, though. Vim is perfect for all kinds of text editing, from composing email to editing configuration files.”

WHAT IS VIM NOT ?

“Vim isn't an editor designed to hold its users' hands. It is a tool, the use of which must be learned.”

“Vim isn't a word processor. Although it can display text with various forms of highlighting and formatting, it isn't there to provide WYSIWYG editing of typeset documents. (It is great for editing TeX, though.)”

WHY VIM FOR PHP DEVELOPMENT

- Vim has everything (or almost) a PHP developer needs
- We just need to unlock or find the “right” feature
- Once you know it, it allows you to write while thinking

FIRST

The editor, what is it about

MODAL EDITOR

Hu ? Modal editor?

A modal editor has different modes of operation.

- Normal mode
- Insert mode
- Visual mode

NORMAL MODE

In this mode everything you “type” is interpreted as a command you give.

INSERT MODE

This is what you are used to, start typing and you are adding text

- “i” => insert mode at current position
- “I” => insert mode at beginning of line
- “a” => insert mode at next position (appending)
- “A” => insert mode at end of line (appending)
- “o” => insert mode open new line after current line
- “O” => insert mode open new line before current line
- “r” => insert mode replace current character
- “R” => insert mode start replace from current character

VISUAL MODE

This mode could be compared to selecting some text

- “v” => highlight continuous text from current position
- “V” => highlight complete lines
- “ctrl + v” => highlight block mode (columns)

To define a visual highlight you can use all movement keys

MOVING AROUND WITHOUT MOUSE AND WITHOUT ARROW KEYS

In the end you should move around without mouse or arrow
keys

BASIC MOVEMENT



FASTER MOVEMENT

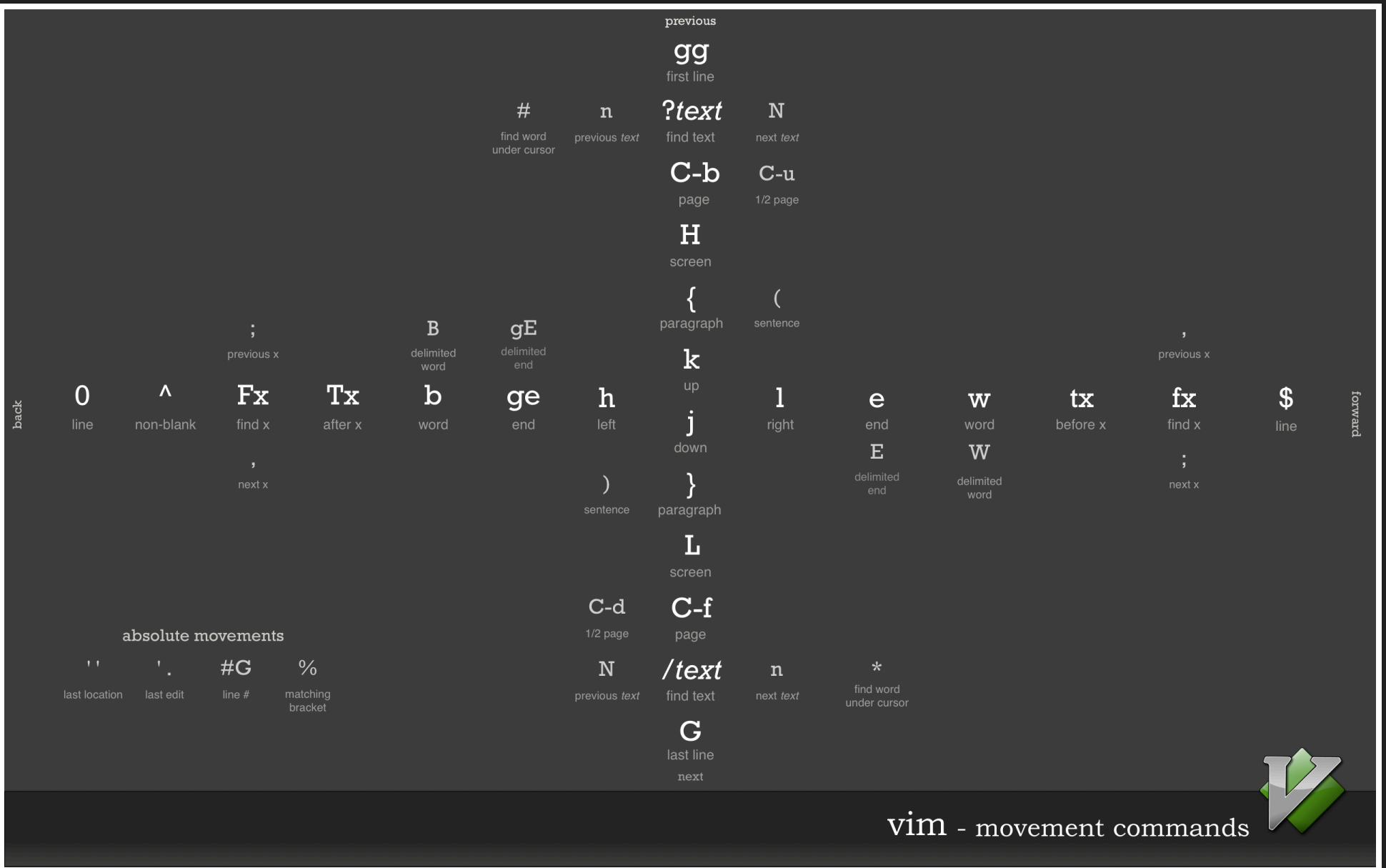
- by word
 - “w,e” => forward beginning or end of word
 - “W,E” => forward beginning or end of word (context)
 - “b,ge” => backward beginning or end of word
- line
 - “0” => beginning of line
 - “^” => beginning of line (non whitespace char)
 - “\$” => end of line

FASTER MOVEMENT

- “gg” => beginning of document
- “G” => end of document
- “{N}G” => goto linenumber {N}
- “ctrl + f” => 'scroll' page forward
- “ctrl + b” => 'scroll' page backward

SEARCH MOVEMENT

- “/{search}” => search forward for {search}
- “?{search}” => search backward for {search}
- “f{char}” => goto first occurrence of {char} on this line
- “F{char}” => backward of “f”
- “t{char}” => goto char before first occurrence of {char} on line
- “T{char}” => reverse of “t”



<https://bitbucket.org/tednaleid/vim-shortcut-wallpaper>

COMMANDS

Why? Commands! This is just a text editor, why don't you just let me write some text.

COMMON COMMANDS

- Quit: “:q”
- Quit and I don't care about the changes: “:q!”
- Quit everything: “:qa”
- Write: “:w”
- Write and quit: “:wq”

“:help editing.txt”

COPY / PASTE

- Copy: “y” (called yank)
- Cut: “d” (delete)
- Cut Characters: “x” (cut after); “X” (cut before)
- Paste: “p”

“:help change.txt”

TEXT MANIPULATION

- Replace current selection: “r”
- Replace from current position: “R”
- Substitute (search and replace):
“:s/{pattern}/{substitution}/{flags}”
- Flip the case of character: “~”
- Increment number: “ctrl + a”
- Decrement number: “ctrl + x”

“:help change.txt”

UNDO / REDO

- Undo: “u”
- Undo last change on this line: “U”
- Redo: “ctrl + r”

“:help undo.txt”

QUANTIFIERS

Quantifiers can be used to 'extend' the reach of a command

- Move to the 5th word: “5w”
- Yank the next 3 lines: “3yy”
- Delete up til the end of the 3rd word form here: “d3e”

RANGES

Most commands support ranges, ranges are defined like
“:{start},{end} {command}”

- Visual selection: “:’<,’>”
- All lines in file: “:%”
- From line 4 to 10; “:4,10”

“:help range”

FORMATTING TEXT

- Center align: “:ce {width}”
- Right align: “:ri {width}”
- Left align: “:le {indent}”
- Format paragraph: “gqip”
- Format current selection: “gq”

“:help formatting” “:help text-objects”

EXTENDABILITY

Vim has its own programming language VimL.

MOST PLUGINS ARE WRITTEN IN VIML

But not limited to it, you can use python, ruby, perl and lua too.

CONFIGURE VIM

The configuration will be done in “~/.vimrc” and additional plugins to make our lives easier go into “~/.vim”

CHOOSE MODE

Vim has a vi compatible mode or you can choose to use the no compatible mode to be able to use all Vim specific features

BACKUP RULES

Vim creates a backup of every file you edit, it also keeps a “swap” file by default. Vim also keeps views around but I personally never saw one saved to disk.

Vim can also persist undo information.

By default all these files are stored next to the file you are editing, this can pollute your source tree.

FILETYPE, SYNTAX HIGHLIGHTING

We have to enable syntax highlighting and filetype detection, most distributions already enable this by default.

TABSTOP

Tabstop is going to define how the syntax indentation and tab key will behave.

LINENUMBERS

When we are programming knowing what line we are on

COLORSCHEME

And ofcourse we 'never' use the default colorscheme since
we all think thatone is not good enough for us

MANY MORE CONFIGURATION POSSIBILITIES

The ones mentioned before are “most” important to start
doing our job

DEMO CONFIGURATION

```
1 " nocompatible must be first ( use the real vimpower )
2 set nocompatible

4 " backup rules
5 set backup " enable backup files (.txt~)
6 set undofile " enable persistent undo
7
8 silent execute '!mkdir -p $HOME/.vim/tmp/backup'
9 set backupdir=$HOME/.vim/tmp/backup " where to store backup
10 silent execute '!mkdir -p $HOME/.vim/tmp/swap'
11 set directory=$HOME/.vim/tmp/swap " where to store swap
12 silent execute '!mkdir -p $HOME/.vim/tmp/views'
13 set viewdir=$HOME/.vim/tmp/views " where to store view
14 silent execute '!mkdir -p $HOME/.vim/tmp/undo'
15 set undodir=$HOME/.vim/tmp/undo " where to store undo

17 " syntax
18 syntax on " enable syntax highlighting
19 " filetype
20 filetype on " enable filetype detection
21 filetype plugin on " enable filetype plugins
22 filetype indent on " enable filetype indentation
```

DEMO CONFIGURATION

```
24 " tabstop settings
25 set tabstop=4 " a tab will be represented with 4 columns
26 set softtabstop=4 " <tab> is pressed in insert mode 4 columns
27 set shiftwidth=4 " indentation is 4 columns
28 set noexpandtab " tabs are tabs, do not replace with spaces

30 " show linenumbers
31 set number

33 " colorscheme
34 set background=dark " indicate we'll use dark background
35 colorscheme elflord " example colorscheme, is default available, many more
```

vim configuration in steps

STILL NO WORD ABOUT PHP ?!?



NO PHP YET !

STUFF FOR CODERS, WHAT DO WE WANT?

- completion
- search in files
- file/folder navigation
- (syntax) errors
- project based configuration
- vcs integration
- debugging

**MANY OF THE THINGS WE NEED ARE
AVAILABLE OUT OF THE BOX**

COMPLETION

- “ctrl-x ctrl-f” file names
- “ctrl-x ctrl-l” whole lines
- “ctrl-x ctrl-i” current and included files
- “ctrl-x ctrl-k” words from a dictionary
- “ctrl-x ctrl-t” words from a thesaurus
- “ctrl-x ctrl-]” tags
- “ctrl-x ctrl-v” Vim command line

SUPERTAB

Supertab is a plugin that makes completion 'super' easy.

```

tion> adding
      at
tion> appending
n2><a href="#">arrow
p>As you adm
img src= after
tion> align
      about
tion> available
n2><a href="#">action
p>NERDTr apt
img src= abuse
tion> add
      allow
tion> additional
n2><a href="#">able
p>Sauce around
tion> also
      all
tion> already
n2><a href="#">are
p>VIM bu and
img src= automatically
tion> adds
      ack
tion> an
n2><a href="#">assets
p>Supert alt
img src="alt"

```

(C)TAGS

(C)tags is not really a plugin, it is a built in feature of Vim. This built in feature can already start making our lives much easier.

There are plugins to generate your tagfiles on save, or on quit. I personally generate them whenever I see fit.

- Jump to tag under cursor: “ctrl+]”
- Go back to originating file: “ctrl+t”

“:help tagsrch.txt”

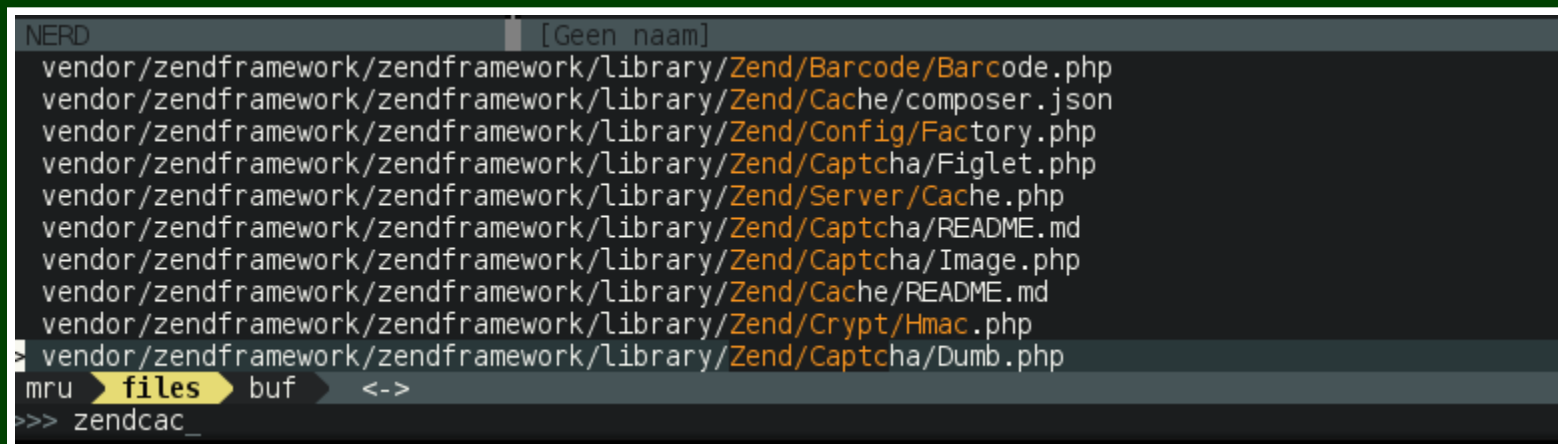
SEARCH (IN) FILES

- “:grep {search} {infiles}”
- “:lgrep {search} {infiles}”
- “:vimgrep {search} {infiles}”
- “:lvimgrep {search} {infiles}”
- “:cnext” goto the next result
- “:cprevious” goto the previous result

The default search functions in Vim are fairly hard to use

CTRLP.VIM

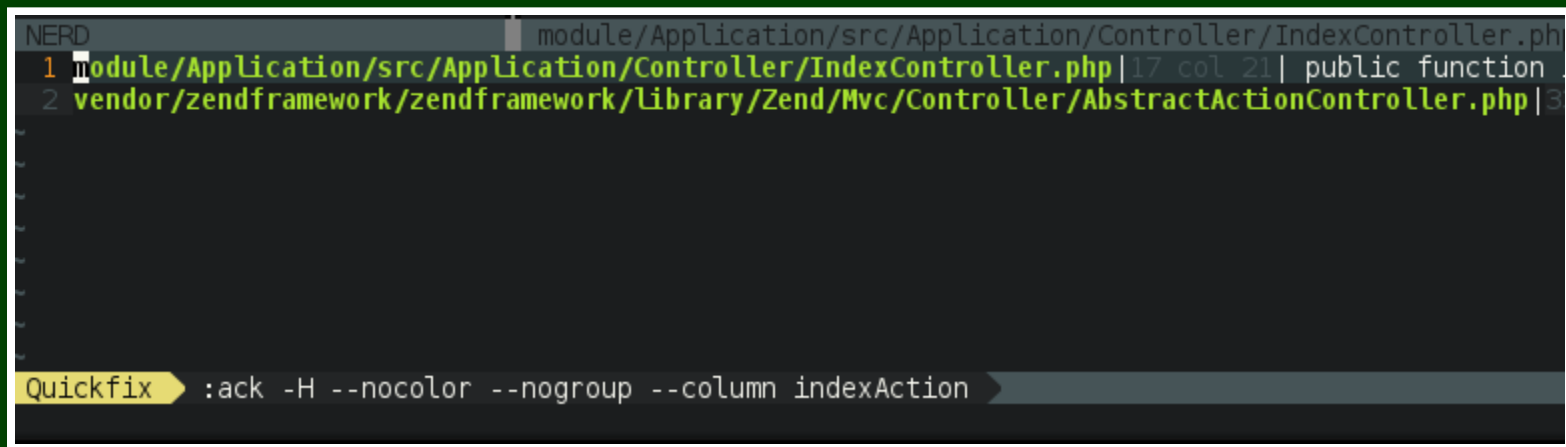
In short this is a fuzzy typed fast filefinder



```
NERD [Geen naam]
vendor/zendframework/zendframework/library/Zend/Barcode/Barcode.php
vendor/zendframework/zendframework/library/Zend/Cache/composer.json
vendor/zendframework/zendframework/library/Zend/Config/Factory.php
vendor/zendframework/zendframework/library/Zend/Captcha/Figlet.php
vendor/zendframework/zendframework/library/Zend/Server/Cache.php
vendor/zendframework/zendframework/library/Zend/Captcha/README.md
vendor/zendframework/zendframework/library/Zend/Captcha/Image.php
vendor/zendframework/zendframework/library/Zend/Cache/README.md
vendor/zendframework/zendframework/library/Zend/Crypt/Hmac.php
> vendor/zendframework/zendframework/library/Zend/Captcha/Dumb.php
mru files buf <->
>>> zendcac_
```

ACK.VIM

As you could guess the plugin uses the ack command to search in code files.



```
NERD | module/Application/src/Application/Controller/IndexController.php
1 | module/Application/src/Application/Controller/IndexController.php | 17 col 21 | public function
2 | vendor/zendframework/zendframework/library/Zend/Mvc/Controller/AbstractActionController.php | 3
...
...
Quickfix | :ack -H --nocolor --nogroup --column indexAction
```

FILE/FOLDER NAVIGATION

There is by default a file navigator built in in vim called netrw, if you have to use it, it does the job fine, but it is not really user friendly.

We can also easily navigate our files if we use tags.

THE NERD TREE

The NERD Tree is a tree like file explorer for vim

```
.. (up a dir)
<devel/ZendSkeletonApplication/
├─ config/
├─ data/
├─ module/
│   └─ Application/
│       ├── config/
│       ├── language/
│       └─ src/
│           └─ Application/
│               └─ Controller/
│                   └─ IndexController.php
├─ view/
│   └─ Module.php
├─ public/
│   ├── css/
│   ├── fonts/
│   ├── img/
│   ├── js/
│   └─ index.php
├─ vendor/
│   ├── composer.json
│   ├── composer.phar*
│   ├── init_autoloader.php
│   ├── LICENSE.txt
│   └─ README.md
```

NERDTREE + ACK.VIM

NERDTree Ack is an extension for nerdtree which adds a few menu items to search with ack

```
NERDTree Menu. Use j/k/enter and the shortcuts indicated
=====
> (a)dd a childnode
  (m)ove the current node
  (d)eleate the current node
  (c)opy the current node
  search files, case s(e)nsitive
  (s)earch files, case insensitive
```

SYNTAX ERRORS

You could manually abuse the makeprg setting in vim and set it to “php -l %” but when using PHP, html, javascript, ... you might want syntax errors for all of those languages.

SYNTASTIC

Syntastic is a syntax checker plugin, it will run a syntax check on the open file.



The screenshot shows a code editor with a dark background. At the top, a file path is displayed: `module/Application/Module.php`. Below it, a line of code is highlighted in yellow: `1 module/Application/Module.php`. To the right of this line, a red error message is displayed: `|40 error| unexpected end of file, expecting function (T_FUNCTION)`. The error message is in a light blue font. At the bottom of the editor, a status bar shows the text `Location :SyntasticCheck php (php)` in a light blue font. Below the status bar, a small text string `391 1063C 00000000` is visible.

PROJECT BASED CONFIGURATION

We must explicitly add a configuration option to allow vim to load a .vimrc file from the directory you are starting vim from.

“:help exrc”

SAUCE FOR VIM

Sauce is a “project” like plugin, it creates an extra project specific vimrc file where you can keep the location of the project, maybe indenting options, ...

VCS INTEGRATION

These days we are so used to vcs integration we also depend on it inside our editor/ide

VIM-FUGITIVE

Fugitive is a git wrapper for vim, you can run practically every git command from fugitive.

```
ac69ac08 (Maks3w      2012-07-13 00:47:10 +0200) 3  * Zend Framework (http://framework.zend.com/)
ac69ac08 (Maks3w      2012-07-13 00:47:10 +0200) 4  *
ac69ac08 (Maks3w      2012-07-13 00:47:10 +0200) 5  * @link      http://github.com/zendframework/ZendSkeletonApplicati
66baf0d4 (Bryan Folliot    2013-12-29 15:47:53 +0100) 6  * @copyright Copyright (c) 2005-2014 Zend Technologies USA Inc. (h
ac69ac08 (Maks3w      2012-07-13 00:47:10 +0200) 7  * @license   http://framework.zend.com/license/new-bsd New BSD Lic
ac69ac08 (Maks3w      2012-07-13 00:47:10 +0200) 8  */
f8a26075 (Evan Coury      2011-09-29 20:18:37 -0700) 9
f8a26075 (Evan Coury      2011-09-29 20:18:37 -0700) 10 namespace Application;
f8a26075 (Evan Coury      2011-09-29 20:18:37 -0700) 11
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 12 use Zend\Mvc\ModuleRouteListener;
9616c475 (Pavel Galaton  2012-09-13 17:00:20 +0300) 13 use Zend\Mvc\MvcEvent;
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 14
19173779 (Matthew Weier O'Phinney 2012-05-16 11:45:29 -0500) 15 class Module
f8a26075 (Evan Coury      2011-09-29 20:18:37 -0700) 16 {
9616c475 (Pavel Galaton  2012-09-13 17:00:20 +0300) 17     public function onBootstrap(MvcEvent $e)
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 18     {
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 19         $eventManager      = $e->getApplication()->getEventManager();
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 20         $moduleRouteListener = new ModuleRouteListener();
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 21         $moduleRouteListener->attach($eventManager);
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 22     }
425c15d4 (Rob Allen       2012-07-02 13:27:39 +0100) 23
a4621753 (Evan Coury      2011-12-07 14:22:38 -0700) 24     public function getConfig()
f8a26075 (Evan Coury      2011-09-29 20:18:37 -0700) 25     {
fb614285 (Evan Coury      2011-11-21 18:23:47 -0700) 26         return include __DIR__ . '/config/module.config.php';
f8a26075 (Evan Coury      2011-09-29 20:18:37 -0700) 27     }
7ac195f6 (Evan Coury      2012-06-13 15:42:12 -0700) 28
7ac195f6 (Evan Coury      2012-06-13 15:42:12 -0700) 29     public function getAutoloaderConfig()
7ac195f6 (Evan Coury      2012-06-13 15:42:12 -0700) 30     {
7ac195f6 (Evan Coury      2012-06-13 15:42:12 -0700) 31         return array(
7ac195f6 (Evan Coury      2012-06-13 15:42:12 -0700) 32             'Zend\Loader\StandardAutoloader' => array(
7ac195f6 (Evan Coury      2012-06-13 15:42:12 -0700) 33                 'namespaces' => array(
```


VIM-SIGNIFY

Signify is a plugin to indicate what lines are removed/added/changed. It supports multiple vcs systems.



DEBUGGING

Debugging for specific languages is not built into vim because there are many protocols and systems to support.

VDEBUG

Vdebug is a debug integration for Vim. Every debugger speaking DBGP protocol can be used. Xdebug uses DBGP ;)

```
1 w/app_dev.php > 2 w/app_dev.php
1 <?php
2 use Symfony\Component\HttpFoundation\Request;
3 use Symfony\Component\Debug\Debug;
4
5 // If you don't want to setup permissions the proper way, just uncomment the following PHP line
6 // read http://symfony.com/doc/current/book/installation.html#configuration-and-setup for more information
7 //umask(0000);
8
9 // This check prevents access to debug front controllers that are deployed by accident to production servers.
10 // Feel free to remove this, extend it, or make something more sophisticated.
11 if (isset($_SERVER['HTTP_CLIENT_IP'])
12     || isset($_SERVER['HTTP_X_FORWARDED_FOR'])
13     || !(in_array($_SERVER['REMOTE_ADDR'], array('127.0.0.1', 'fe80::1', '::1')) || php_sapi_name() === 'cli-server')
14 ) {
15     header('HTTP/1.0 403 Forbidden');
16     exit('You are not allowed to access this file. Check '.basename(__FILE__).' for more information.');
```

```
1 *Locals [ Superglobals ] [ User defined constants ]
2
3 - Locals at /home/devolder1/github/symfony-standard/web/app_dev.php:12
4
5 - $kernel = (uninitialized)
6
7 - $loader = (uninitialized)
8
9 - $request = (uninitialized)
10
11 - $response = (uninitialized)
12
13
14
15
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MAKING OUR LIVE EASIER

For php there are a number of usefull plugins to make our lives easier

NERDCOMMENTER

NERDcommenter helps you to quickly add comments to a line or multiple lines.

ULTISNIPS

With UltiSnips you can create any possible snippet of code
you want to reuse often

VIM-SNIPPETS

But why recreate default templates when there is a central repository for those

PHP_GETSET

php_getset creates getter and setter methods from the parameters selected in your class.

```
1 <?php
2
3 class Foo {
4     protected $bar;
5 }
```


PLUGIN MANAGER

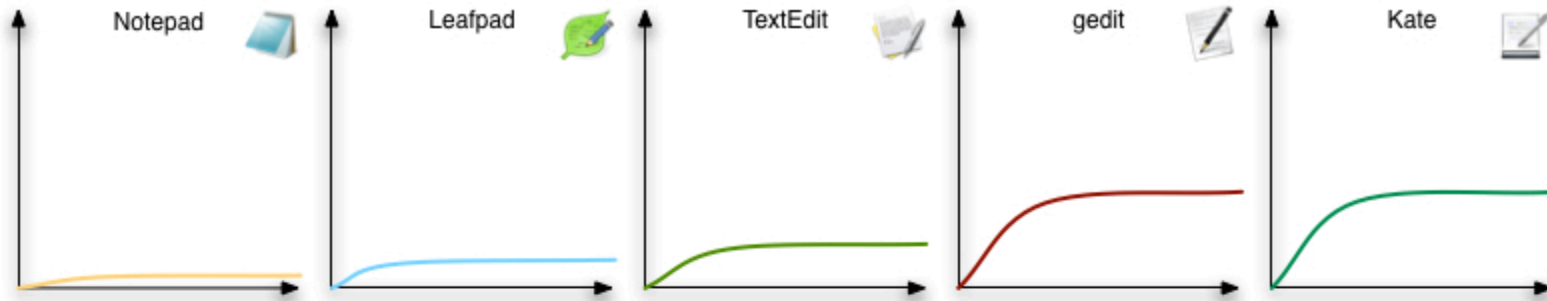
In the old days you usually installed plugins by extracting a zipfile in your “~/.vim” folder. Luckily, these days are over, now we have several plugins ;) that manage our plugins.

Some “plugin managers”:

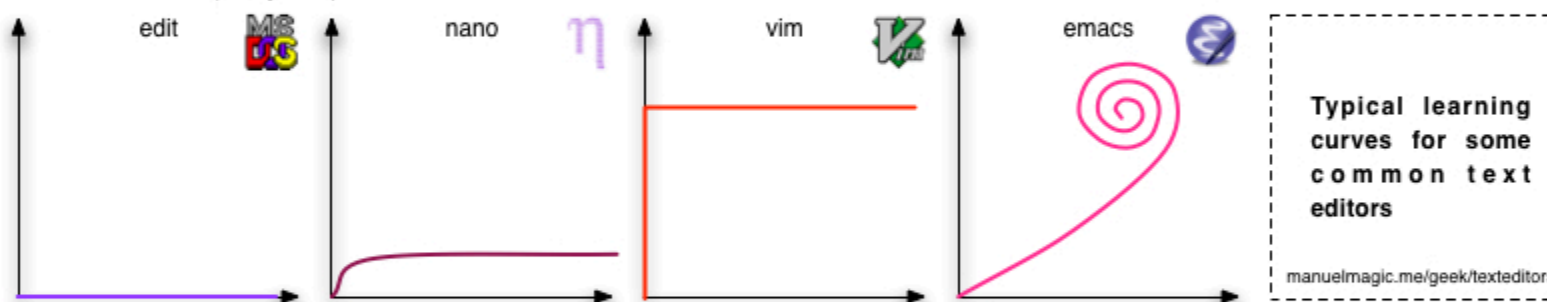
- [pathogen](#) is very simple by concept and use
- [Vundle](#) is using a config file and installs plugins automatically
- [NeoBundle](#) is based on Vundle, but adds more features

#@!! VIM IS HARD!

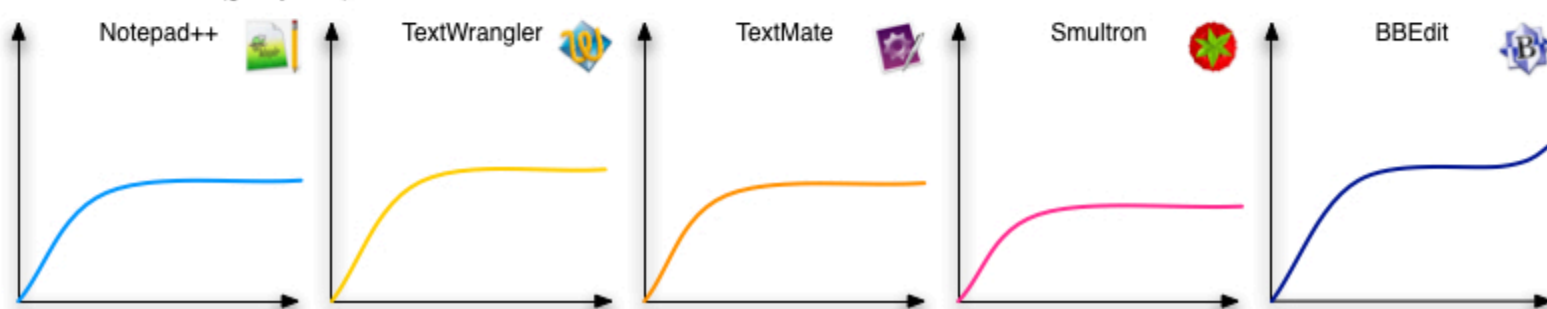
System default editors



Terminal editors (nerdy stuff)



Freeware editors (geeky stuff)



QUESTIONS ?

USEFULL RESOURCES

- <http://www.vim.org/>
- http://vim.wikia.com/wiki/Vim_Tips_Wiki
- <http://vimcasts.org/>
- my vimfiles: <https://github.com/BlackIkeEagle/vimfiles>

THANKS.

<https://joind.in/talk/view/14694>



IKE DEVOLDER

@BlackIkeEagle

Senior Webdeveloper - Studio Emma

PHP-WVL

Archlinux Trusted User



