

JOOMLA DEVELOPMENT WITH VISUAL STUDIO CODE

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PROGRAM

- 1. Introduction
- 2. About me
- 3. Local development setup options
- 4. Visual Studio Code and how I set it up
- 5. Debugging PHP code
- 6. Creating snippets
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Slides are online, VS Code extensions I use and settings too.



INTRODUCTION

- Many Joomla developers use PhpStorm as IDE.
- To me PhpStorm is a bit intimidating.
- There are many other good code editors:
 - Sublime Text
 - Atom
 - Notepad++
 - Visual Studio Code
- I use Visual Studio Code since 2017.





WHO AM I?

- René Kreijveld
- I work fulltime as a Joomla webdeveloper for Destiny B.V. a communication service provider.
- Discovered Mambo in 2003, moved to Joomla in 2005.
- Member of organisation team of JUG Eindhoven.
- Regular speaker Dutch Joomla Days, Joomla User Groups and JandBeyond.





LOCAL DEVELOPMENT SETUP

- To run Joomla locally you need an Apache/MySQL/PHP stack.
- Install a database management tool.
- Install Xdebug.
- Use a code editor or an IDE.





AMP STACKS WINDOWS

- Wampserver <u>https://www.wampserver.com/en/</u>
- Apache Friends <u>https://www.apachefriends.org</u>
- MAMP <u>https://www.mamp.info/en/windows/</u>
- Docker based solutions:
 - Devilbox <u>http://devilbox.org/</u>
 - Lando <u>https://lando.dev/</u>
- Other suggestions?





AMP STACKS MACOS

- MAMP <u>https://www.mamp.info/en/mac</u>
- Apache Friends <u>https://www.apachefriends.org</u>
- Homebrew <u>https://github.com/renekreijveld/macOS-</u> Local-Development-Setup
- Docker based solutions:
 - Devilbox <u>http://devilbox.org/</u>
 - Lando <u>https://lando.dev</u>
- Other suggestions?





AMP STACKS LINUX

- Apache Friends <u>https://www.apachefriends.org</u>
- Docker based solutions:
 - Devilbox <u>http://devilbox.org/</u>
 - Lando <u>https://lando.dev</u>
- Manual installation of apache/mysql/php
- Other suggestions?





DB MANAGEMENT TOOLS

- Browser based:
 - phpMyAdmin <u>https://www.phpmyadmin.net/</u>
 - Adminer <u>https://www.adminer.org/</u>
- Applications:
 - MySQL Workbench (Win/Mac/Linux) https://www.mysql.com/products/workbench/
 - HeidiSQL (Windows) <u>https://www.heidisql.com/</u>
 - Sequel Pro (Mac) <u>https://www.sequelpro.com/</u>
 - DBeaver (Win/Mac/Linux) <u>https://dbeaver.io/</u>
 - Navicat (Windows/Mac/Linux/iOS) <u>https://www.navicat.com/en/products/navicat-for-mysql</u>





XDEBUG

- Debugger and profiler tool for PHP
- Get it at https://xdebug.org
- Two major versions:
 - 2.x
 - 3.x
- 2.x runs default on port 9000
- 3.x runs default on port 9003 !
- Specify the port number in php.ini





XDEBUG 2.X CONFIG

[xdebug]

zend_extension="xdebug.so"
xdebug.remote_enable = 1
xdebug.remote_host = localhost
xdebug.remote_handler = dbgp
xdebug.remote_port = 9000

Make sure to set the proper path to the xdebug extension!





XDEBUG 3.X CONFIG

[xdebug]

zend_extension="xdebug.so"
xdebug.mode = debug
xdebug.start_with_request = yes
xdebug.client_port = 9000

Set the client port to 9000, default for Xdebug 3.0 is 9003. Make sure to set the proper path to the xdebug extension!





VISUAL STUDIO CODE

- Code editor built by Microsoft.
- Public release 2016.
- Multi-platform: Windows, macOS, Linux.
- Multiple languages support: C++, C#, CSS, Go, HTML, Java, JSON, JavaScript, Python, PHP and many more.
- Git commands built-in.
- Highly extendable through extensions.

https://code.visualstudio.com





VISUAL STUDIO CODE

Online resources:

- <u>https://docs.joomla.org/Visual_Studio_Code</u>
- https://www.youtube.com
- https://www.udemy.com/topic/visual-studio-code/
- Many more ...





VISUAL STUDIO CODE

Cheat sheets:

<u>https://code.visualstudio.com/docs/getstarted/keybindin</u> gs#_keyboard-shortcuts-reference

Available for Windows, macOS and Linux.





Keyboard shortcuts for macOS

General

û ℋΡ, F1	Show Command Palette
ЖР	Quick Open, Go to File
û₩N	New window/instance
жw	Close window/instance
Ж,	User Settings
жк жs	Keyboard Shortcuts

Basic editing

жx	Cut line (empty selection)
жс	Copy line (empty selection)
~=↓ / ~=↑	Move line down/up
ᡣ᠋᠃ᡎ	Copy line down/up
û ಱK	Delete line
ℋEnter / 압ℋEnter	Insert line below/above
ث ፝	Jump to matching bracket
ዤ] / ዤ[Indent/outdent line
Home / End	Go to beginning/end of line
ዤ↑/ ዤ↓	Go to beginning/end of file
^PgUp / ^PgDn	Scroll line up/down
噐PgUp /噐PgDn	Scroll page up/down
~光[/ ~光]	Fold/unfold region
҄҄҄҄Ж Ж[/ ЖК Ж]	Fold/unfold all subregions

Search and replace

₩F	Find
∼╬F	Replace
₩G/û₩G	Find next/previous
~=Enter	Select all occurrences of Find match
₩D	Add selection to next Find match
ЖК ЖD	Move last selection to next Find match

Rich languages editing

^Space	Trigger suggestion
î策Space	Trigger parameter hints
û∼=Е	Format document
ЖK ЖF	Format selection
F12	Go to Definition
~=F12	Peek Definition
光K F12	Open Definition to the side
¥.	Quick Fix
압F12	Show References
F2	Rename Symbol
жк жх	Trim trailing whitespace
҄҄҄ЖКМ	Change file language

Navigation

Жт	Show all Symbols
^G	Go to Line
ЖР	Go to File
0 光 ①	Go to Symbol
û ₩ ₩	Show Problems panel





MY VISUAL STUDIO CODE SETUP

- 1. Basic setup
- 2. Extensions
- 3. How to debug Joomla with VS Code
- 4. Using snippets in VS Code





BASIC SETUP

- Installed Visual Studio Code.
- Installed FiraCode as font for VS Code.
 - Free monospaced font with programming ligatures
 - <u>https://github.com/tonsky/FiraCode</u>
- Installed <u>Cobalt2 Theme Official</u> color theme.





- VS Code is highly extendable.
- <u>https://marketplace.visualstudio.com/VSCode</u>
- In VSCode: Shift-Cmd-X, Ctrl-Shift-X
- Quick search with install code.





Bracket Pair Colorizer 2

- Allows matching brackets to be identified with colors
- Install code: coenraads.bracket-pair-colorizer-2





Joomla Snippets

- VS Code Joomla snippets and code examples for Joomla 3 & 4 Alpha
- Install code: anibalsanchez.vs-code-joomla-snippets





Markdown Preview Enhanced

- Preview Markdown content
- Install code: shd101wyy.markdown-preview-enhanced





PHP Debug

- Debug adapter between VS Code and Xdebug by Derick Rethans
- Install code: felixfbecker.php-debug





PHP Intelephense

- PHP code intelligence for VS Code, more advanced than the Intellisense
- See: <u>https://intelephense.com/</u>
- Install code: bmewburn.vscode-intelephense-client





<u>phpfmt – PHP code formatter</u>

- Formats PHP code, so it comes close to Joomla Coding Standard.
- Install code: kokororin.vscode-phpfmt





<u>Prettier – Code formatter</u>

- Formats HTML/CSS/SCSS/Javascript/
- Install code: esbenp.prettier-vscode





XML Tools

- XML Formatting, XML treeview etcetera.
- Install code: DotJoshJohnson.xml





HOW TO DEBUG PHP CODE

- 1. Open Joomla code in VS Code
- 2. Open debug page: Shift-Cmd-D, Ctrl-Shift-D
- 3. Click create a launch.json file
- 4. Choose PHP
- 5. Add breakpoints
- 6. Start listening for debug with F5
- 7. Run your code





USING SNIPPETS IN VS CODE

- 1. Go to command pallette Cmd-Shift-P, Ctrl-Shift-P
- 2. Type snippet
- 3. Choose Preferences: configure user snippets
- 4. Choose:
 - Existing snippets file
 - New Global Snippets File
 - New snippets file for ' ... '
- 5. Create a new snippet





CREATING A CODE SNIPPET

- 1. Copy a code block that you want to use as snippet
- 2. Beware of lines starting with \$, escape them with $\$
- 3. Go to <u>https://snippet-generator.app/</u>
- 4. Paste copied code block in the Your snippet... field
- 5. Enter Description
- 6. Enter Tab trigger
- 7. Copy the snippet code and paste it in snippets file in VS Code





ADDITIONAL TOOLS I USE

Prepros

- Compiles files, transpiles JavaScript, optimises images, reloads browsers.
- Free unlimited trial!
- Available for Windows, macOS and Linux
- <u>https://prepros.io/</u>





ADDITIONAL TOOLS I USE

Dash / Zeal

- API Documentation browser
- <u>https://kapeli.com/dash</u>
- Windows variant: Zeal
- Zeal uses docsets provided by Dash.
- <u>https://zealdocs.org/</u>
- Both Dash and Zeal integrate nicely with VS Code. Select a codeword and press Ctrl + h.



MY VSCODE SETTINGS & SLIDES renekreijveld.nl/vscode renekreijveld.nl/slides/juglondon/vscode.pdf





QUESTIONS?

