

TYPO3-PHP Mode

An Emacs major mode for TYPO3-PHP files

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This manual introduces a TYPO3-PHP major mode for Emacs, which is specialized on editing PHP code in the TYPO3 world.

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Table of Contents

List of figures	1
1 Introduction	2
2 Installation	2
3 Using T3PHP mode	2
3.1 Customization	2
3.2 Syntax highlighting	5
3.3 Line indentation	5
3.4 Inserting code templates	5
3.4.1 Inserting methods	5
3.4.2 Inserting classes	6
3.5 Buffer outline	7
Key Index	9
Variable Index	9
Function Index	9

List of figures

Figure 3.1: Splitting a window vertically.....	4
Figure 3.2: Splitting a window horizontally.....	4

1 Introduction

This manual describes T3PHP mode, which extends Emacs with functionality for editing TYPO3-PHP files. Of course, it is also useful for PHP coding in general.

GNU Emacs is an extensible, customizable text editor and can be obtained for free from <http://ftp.gnu.org/pub/gnu/emacs/>. See Section “Preface” in *GNU Emacs manual*. The code is written and tested on GNU Emacs version 23.1.1.

2 Installation

To install T3PHP Mode just drop file ‘t3php-mode.el’ into a directory on your load-path. If you are the administrator of the system you are working on, a possible directory could be ‘/usr/share/emacs/site-lisp/skampi-mode’, for example. You might byte-compile it for better performance. See Section “Byte Compilation” in *Emacs Lisp*.

To set up Emacs to automatically edit files ending in ‘.php’ using T3PHP Mode, add the following lines to your ‘~/.emacs’ file (GNU Emacs) or ‘~/.xemacs/init.el’ file (XEmacs):

```
(setq auto-mode-alist (cons '("\\.php$" . t3php-mode) auto-mode-alist))
(autoload 't3php-mode "t3php-mode" "TYPO3-PHP input file editing mode." t)
```

If you just want to test T3PHP Mode or are not eager to modify your ‘~/.emacs’ file, type *M-x load-file*, load the ‘t3php-mode.el’ file and finally apply the mode to the current buffer by typing *M-x t3php-mode*.

3 Using T3PHP mode

TYPO3 Mode supports different display and editing features, which will be described in the following sections.

3.1 Customization

T3PHP Mode defines a customization group in Emacs, which is a member of the Emacs standard customization group *Languages*, whose parent Emacs group is *Programming*. Use *M-x customize* to browse through the full list of customization groups or *M-x customize-group* with parameter ‘t3php’ to enter the T3PHP Mode customization group directly

The following user-customizable variables are provided.

string t3php-developer [Variable]

The current developer or author of the PHP code. The value of this variable is used in the php-doc comments.

Default: ‘Lisa Fremont <lisa@fremont.de>’

string t3php-typo3-extension-directory [Variable]

The path to the TYPO3 extensions’ directory relative to the TYPO3 root directory.

Default: ‘ext/’

string t3php-path-to-typo3-extension-directory [Variable]

The path to the TYPO3 extensions directory relative to the TYPO3 root directory.

Default: ‘typo3conf/’

string t3php-date-format [Variable]

The date format which is used for php-doc comments.

Default: ‘%Y-%m-%d’

string t3php-year-format [Variable]

The year format which is used in php-doc comments.

Default: ‘%Y’

integer t3php-block-indentation [Variable]

The indentation relative to a predecesing line which begins a new code block.

Default: ‘4’

choice t3php-newline-function [Variable]

This variable decides which function to call upon pressing RET. Depending on the chosen option, line indentation will be processed automatically. The following options are available for *choice*:

newline This command just inserts newlines into the current buffer before point.

newline-and-indent

This function inserts a newline¹, then indents the new line (the one following the newline just inserted) according to T3PHP Mode’s internal indentation strategies.

reindent-then-newline-and-indent

This command reindents the current line, inserts a newline at point, and then indents the new line (the one following the newline just inserted).

Default: ‘newline’.

boolean t3php-php-doc-align [Variable]

Determines whether the PHPDoc parameters are aligned after a method or class is inserted with `t3php-insert-method` or `t3php-insert-class` respectively. See [Section 3.4.1 \[Inserting methods\]](#), page 5 and [Section 3.4.2 \[Inserting classes\]](#), page 6, for more information.

Aligned parameters:

```
1 /**
2  * Define foobar
3  *
4  * @param   $foo
5  * @param   $bar
6  * @return
7  * @author   Lisa Fremont <lisa@fremont.de>
8  * @since    2009-12-02
9  */
10 public function foobar($foo, $bar) {
11
12 }
```

Unaligned parameters:

```
1 /**
2  * Define foobar
3  *
4  * @param $foo
5  * @param $bar
6  * @return
7  * @author Lisa Fremont <lisa@fremont.de>
8  * @since 2009-12-02
9  */
10 public function foobar($foo, $bar) {
11
12 }
```

Default: ‘t’

¹ Note the different meanings of *newline* and *new line*, that goes with their different spellings. *newline* refers to the code representation of a new line, while *new line* means its interpretation as a visible new line in the editor after pressing RET.

string t3php-php-manual-url [Variable]

URL at which to find PHP manual. You can replace ‘en’ with your ISO language code.

Default: ‘http://www.php.net/manual/en/’

string t3php-php-search-url [Variable]

URL at which to search for documentation on a word, e.g. a PHP function.

Default: ‘http://www.php.net/manual/en/’

boolean t3php-outline-keep-other-windows [Variable]

When the outline is viewed, the boolean value of this variable decides if the currently selected T3PHP Mode buffer will be deleted. If the variable is set to true (‘t’) the current window is split and the outline is displayed in the newly created window. When `nil`, all other windows except the selected one will be deleted, so that the outline window fills an adjustable (see [\[t3php-outline-split-windows-fraction\]](#), page 4) amount of the frame.

Default: ‘t’.

boolean t3php-outline-split-windows-horizontally [Variable]

This variable determines the splitting mode, if the outline is displayed. If true, split the current window horizontally. Otherwise split the window vertically.

Default: ‘nil’.

I must admit, that sometimes I get confused. So if it is not for your orientation, at least it is for mine. :-)

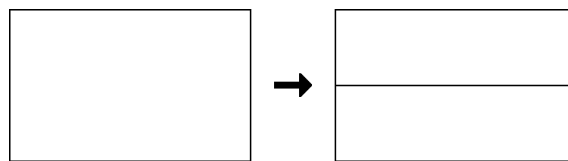


Figure 3.1: Splitting a window *vertically*.

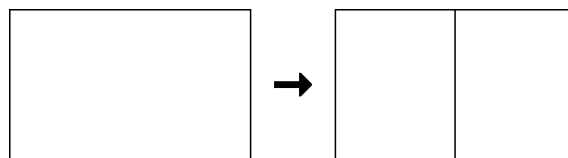


Figure 3.2: Splitting a window *horizontally*.

number t3php-outline-split-windows-fraction [Variable]

This variable describes the fraction of the width or height of the window, which is used for the outline.

Default: ‘.3’.

boolean t3php-outline-follow-mode [Variable]

If true, point in outline buffer will make T3PHP window to follow. It will show the corresponding part of the document. This flag can be toggled from within the outline buffer with the `f` key.

Default: ‘nil’.

color t3php-outline-hl-line-color [Variable]

The color used to highlight the background of the horizontal line which marks the current line of the outline buffer and the corresponding line in the T3PHP buffer when follow mode is active.

Default: ‘DarkSlateBlue’.

color t3php-outline-method-name-color [Variable]
 The color used to highlight the lines in the outline, which refer to the corresponding method.
 Default: ‘sea green’.

3.2 Syntax highlighting

Syntax highlighting is a convenient feature of an editor to improve the appearance hence the readability of code. TYPO3 Mode supports the highlighting of single line and multiline comments, keywords and several syntactic structures.

In XEmacs syntax highlighting should be enabled automatically. In GNU Emacs you may have to add these lines to your ‘~/.emacs’ file:

```
(global-font-lock-mode t)
(setq font-lock-maximum-decoration t)
```

3.3 Line indentation

A PHP code line is indented automatically when the TAB key is pressed while point is on the according line. The indentation takes place with respect to the indentation of previous lines. See [Section 3.1 \[Customization\], page 2](#), for details. The default width is 4.

Depending on the current value of the customizable variable *t3php-newline-function*, line indentation might be executed automatically after pressing RET. See [Section 3.1 \[Customization\], page 2](#), for details.

3.4 Inserting code templates

The following sections describe functions and their respective key bindings to insert templates for methods and classes.

3.4.1 Inserting methods

t3php-insert-method [Interactive Command]
 Insert the rudimentary method framework code with respect to TYPO3 coding standards. The function asks interactively for the method name, an auto-completed modifier (**public**, **protected**, **private**) and method arguments until an empty string is provided. The inserted code consists of

- a class header comment in PHPdoc style which contains
 - empty lines for method descriptions
 - **@param** and variable name
 - **@return**
 - **@author** (default: ‘t3php-developer’)
 - **@since** (default: ‘t3php-date-format’)
- the method signature

Key binding: *C-c C-if*.

The following example was inserted with parameters

- Method name: **foobar**
- Modifier: **public**
- Parameter: **foo**
- Parameter: **bar**


```

1  /**
2   *
3   *
4   * @param $foo
5   * @param $bar
6   * @return
7   * @author Lisa Fremont <lisa@fremont.de>
8   * @since 2009-12-02
9   */
10 public function foobar($foo, $bar) {
11
12 }

```

3.4.2 Inserting classes

t3php-insert-class

[Interactive Command]

Insert the rudimentary class framework code with respect to TYPO3 coding standards. The inserted code consists of

- PHP tags
- a copyright notice where date and author are inserted automatically with respect to customizable variables ‘t3php-year-format’ and ‘t3php-developer’. See [\[t3php-year-format\]](#), page 3 and [\[x-t3php-developer\]](#), page 2, for more information.
- a marker comment for the class and function index which can be inserted by TYPO3 extension *extdeval*. The following empty lines might be filled with required files.
- a class header comment in PHPdoc style which contains
 - @author (default: ‘t3php-developer’)
 - @package (default: ‘TYPO3’)
 - @subpackage (default: empty)
 - @since (default: ‘t3php-date-format’)
- the class definition
- a TYPO3 XCLASS inclusion code snippet for class extension and/or overriding. The associative array `TYPO3_CONF_VARS` has a key which refers to the current class path and file name, which is inserted dynamically. The information is extracted from the customizable variables ‘t3php-path-to-typo3-extension-directory’ and the buffer file name. See [\[t3php-typo3-extension-directory\]](#), page 2, for more information.

Key binding: *C-c C-ic*.

The following code example was inserted in an empty file named ‘class.bar.php’:

```

1  <?php
2  /*****
3   * Copyright notice
4   *
5   * (c) 2009 Lisa Fremont <lisa@fremont.de>
6   * All rights reserved
7   *
8   * This script is part of the TYPO3 project. The TYPO3 project is
9   * free software; you can redistribute it and/or modify
10  * it under the terms of the GNU General Public License as published by
11  * the Free Software Foundation; either version 2 of the License, or
12  * (at your option) any later version.
13  *
14  * The GNU General Public License can be found at
15  * http://www.gnu.org/copyleft/gpl.html.
16  *
17  * This script is distributed in the hope that it will be useful,
18  * but WITHOUT ANY WARRANTY; without even the implied warranty of

```

```

19 * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
20 * GNU General Public License for more details.
21 *
22 * This copyright notice MUST APPEAR in all copies of the script!
23 *****/
24 /**
25 * [CLASS/FUNCTION INDEX of SCRIPT]
26 *
27 * Hint: use extdeveval to insert/update function index above.
28 */
29
30
31
32
33
34 /**
35 *
36 *
37 * @author      Lisa Fremont <lisa@fremont.de>
38 * @package     TYPO3
39 * @subpackage
40 * @since       2009-12-02
41 */
42 class tslib_content {
43
44 }
45
46
47 /*****
48 * TYPO3 XCLASS INCLUSION (for class extension/overriding)
49 *****/
50 if (defined('TYPO3_MODE') && $TYPO3_CONF_VARS[TYPO3_MODE]['XCLASS']['ext/foo/class.bar.php']) {
51     include_once($TYPO3_CONF_VARS[TYPO3_MODE]['XCLASS']['ext/foo/class.bar.php']);
52 }
53 ?>

```

3.5 Buffer outline

The outline buffer summarizes the methods of the PHP buffer and provides comfortable navigation through the PHP buffer. The first three lines are intangible and show the file name of the current PHP input file and the shortcuts of the most important commands.

Each method in the current PHP buffer is referred to by its name. The maximally displayed line width of a method name is limited to 40 characters. Thus, a longer name is chopped to a length of 40 characters and ellipse characters (...) are concatenated. When you move the mouse cursor over a method name the complete name is displayed nevertheless. On graphical displays, it is displayed as a *tooltip* or *balloon help* as it is called sometimes. On some systems, it is shown in the echo area. On text-only terminals, Emacs can't follow the mouse, and therefore is not able to show the complete name on mouse-over.

The character and color of the leftmost column indicates the type of method modifier:

```

private    [-] (color: 'firebrick')
protected
           [#] (color: 'goldenrod')
public     [+] (color: 'forest green')

```

The rightmost column presents the line numbers, which delimit the region of the respective measurement block.

```

TABLE OF CONTENTS of ~/public_html/typo3/t3lib/class.t3lib_extmgm.php
SPC=view TAB=goto RET=goto+kill [f]ollow [r]escan [k]ill [?]Help

```

[P] isLoaded	[131-136]
[P] extPath	[147-155]
[P] extRelPath	[165-172]
[P] siteRelPath	[182-185]
[P] getCN	[194-197]
[P] addTCAcolumns	[227-235]
[P] addToAllTCAtypes	[251-304]
[P] allowTableOnStandardPages	[315-320]
[P] addModule	[332-378]
[P] addModulePath	[390-395]
[P] insertModuleFunction	[412-421]
[P] addPageTSConfig	[431-435]
[P] addUserTSConfig	[445-449]
[P] addLLrefForTCAdescr	[460-472]

t3php-outline *rescan* [Interactive Command]

This command shows the outline of the current PHP buffer. If *rescan* is true, the PHP buffer will be rescanned before the outline buffer is displayed.

Key binding *C-ct*.

The outline buffer is a read-only buffer with few dedicated key bindings:

<i>n</i>	Move to the next selectable item.
RIGHT	Move to the next selectable item.
DOWN	Move to the next selectable item.
<i>p</i>	Move to the previous selectable item.
LEFT	Move to the previous selectable item.
UP	Move to the previous selectable item.
<i>C-HOME</i>	Move to the beginning of the outline buffer.
<i>C-END</i>	Move to the end of the outline buffer.
SPC	Show the corresponding location of the TYPO3 buffer.
TAB	Go to the corresponding location of the TYPO3 buffer and keep the outline window.
RET	Go to the corresponding location of the TYPO3 buffer and hide the outline window.
<i>f</i>	Toggle follow mode.
<i>r</i>	Re-parse the TYPO3 buffer.
<i>k</i>	Kill the outline buffer.
<i>?</i>	Show a help buffer.

Key Index

?		N	
..... 7		n..... 7	
C		P	
C-c C-t..... 7		p..... 7	
C-END..... 7			
C-HOME..... 7		R	
D		r..... 7	
DOWN..... 7		RET..... 7	
		RIGHT..... 7	
F		S	
f..... 7		SPC..... 7	
K		T	
k..... 7		TAB..... 7	
L		U	
LEFT..... 7		UP..... 7	

Variable Index

t3php-block-indentation..... 3	t3php-outline-split-windows-fraction..... 4
t3php-date-format..... 2	t3php-outline-split-windows-horizontally..... 4
t3php-developer..... 2	t3php-path-to-typo3-extension-directory..... 2
t3php-newline-function..... 3	t3php-php-doc-align..... 3
t3php-outline-follow-mode..... 4	t3php-php-manual-url..... 4
t3php-outline-h1-line-color..... 4	t3php-php-search-url..... 4
t3php-outline-keep-other-windows..... 4	t3php-typo3-extension-directory..... 2
t3php-outline-method-name-color..... 5	t3php-year-format..... 3

Function Index

t3php-insert-class..... 6	t3php-outline..... 8
t3php-insert-method..... 5	