Emacs support for the Erlang Programming Language

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	ates-minor-modes . L files they require. sequences. has sub-group: see s for the complete list.			
• Use <f12> <f3> electricity RET to access the customization group and select pairs. **Useful global minor-modes to activate features in Erlang yia pel-activates-global-minor-mode: show-paren-mode ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. ***PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang the .erlang .ell .erla</f3></f12>	sequences. s has sub-group: see			
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* erlang: when pel-use-erlang is on, use <f11> SPC e <f3> 1</f3></f11>	·).			
* Isp-erlang: when pel-use-erlang-Is is on, use <f11> SPC e L <f3> 1</f3></f11>	·).			
* Isp-mode: when pel-use-erlang-ls is on, use <f11> SPC e L <f3> 2 The pel-pkg-for-erlang group has several user-options to control Erlang editing. Only some of them are described here. Use Emace * pel-erlang-shell-prevent-echo: set to t to prevent the Erlang shell from echoing every command. * pel-erlang-activates-minor-modes: Schedules activation of local minor modes in erlang-mode buffers oetivate automatically in erlang-mode buffers of pel-erlang-environment group: **Pel-erlang-environment group: **Pel-erlang-man-parent-rootdir: Identifies the parent directory of Erlang man directory. The man directory should hold the man man which contain Erlang man files. If this is set PEL sets (override) the **erlang.ellerlang-root-dir user-option value with it what appropriate Erlang man files. Without PEL or if pel-erlang-man-parent-rootdir is nil, you must set the erlang-root-dir user-option * pel-erlang-exec-path: Identifies the directory where Erlang binaries are stored. **Pel-erlang-exec-path: Identifies the directory where Erlang binaries are stored. **Pel-erlang-exec-path: Identifies a mechanism to detect Erlang/OTP version. By default it uses an Erlang scription of the pel-erlang-detection-method: identifies a mechanism to detect Erlang/OTP version. By default it uses an Erlang scription of the pel-erlang-skel-use-secondary-separators: whether line separators are used in Erlang code template to pel-erlang-skel-use-secondary-separators: whether ine separators in the line stamps are inserted by some Erlang code template to pel-erlang-skel-insert-file-timestamp: whether automatically updated time stamps are inserted by some Erlang code template to pel-erlang-space-after-comma-in-blocks: when turned on, a space is automatically inserted after a comma typed inside a Open the **§1- Erlang** [Pel-help-pdf-arg** [Pel-</f3></f11>	·).			
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Open this PDF file. See also: <u>Neeplonfo</u> • <f11> SPC e <f1> • <f11> SPC e w <f1> • <f11> SPC e w <f1> • <f11> SPC e L <f1> • <f11> SPC e L <f1> • <f12> w <f12< td=""><td colspan="4">pel-erlang-skel-insert-file-timestamp: whether automatically updated time stamps are inserted in Erlang source code file header blocks.</td></f12<></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f12></f1></f11></f1></f11></f1></f11></f1></f11></f1></f11>	pel-erlang-skel-insert-file-timestamp: whether automatically updated time stamps are inserted in Erlang source code file header blocks.			
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	-			
∑ Customize PEL Erlang	ng support packages			
support & Soptional OTHER- If OTHER-WINDOW is non-nil (use C-u), display in another window.	ig support packages.			
∑ Customize Emacs <f11> SPC e <f3> Customize-library Customize Emacs Erlang support: erlang, erldoc, erlstack, edts, ivy-erlang lsp, auto-highlight-symbol, electricity, smart-dash, smartparens.</f3></f11>	g-complete, Isp-erlang,			
<f12> <f3> WINDOW) • If OTHER-WINDOW is non-nil (use C-u), display in another window.</f3></f12>				
∑ Customize PEL LSP				
for Erlang support Soptional OTHER-WINDOW is non-nil (use C−u), display in another window. WINDOW) If OTHER-WINDOW is non-nil (use C−u), display in another window. If other-window is available when pel-use-erlang-is is turned on.				
This is available when per-use-enang-is is turned on.	Inn Inc Sec. 1			
∑ Customize Emacs LSP Erlang support: Isp-erlang, Isp-mode, Isp-ui, helm origami, Isp-treemacs.	-lsp, lsp-ıvy, lsp-			
<f12> L <f3> WINDOW) • If OTHER-WINDOW is non-nil (use C-u), display in another window.</f3></f12>				
This is available when pel-use-erlang-is is turned on.				
∑ Customize PEL LSP Window for Erlang Window for Erlang				
Window for Erlang support * If OTHER-WINDOW is non-nil (use C-u), display in another window. WINDOW) * If OTHER-WINDOW is non-nil (use C-u), display in another window. WINDOW) * If OTHER-WINDOW is non-nil (use C-u), display in another window.	cs is turned on.			
∑ Customize Emacs				
LSP Window for Erlang &optional OTHER- • If OTHER-WINDOW is non-nil (use C-u), display in another window.				
support <f12> w <f3> WINDOW)</f3></f12>				
Environment Help Use the following command to verify your Erlang environment.	cs is turned on.			
Erlang Mode version <f11> SPC e ? (pel-show-erlang- Display information about Erlang and Emacs Erlang supporting tools in the</f11>	cs is turned on.			
version) includes the version of Erlang, erlang_ls, ivy-erlang-complete, the Erlang in detection method, directory for Man files, lsp-keymap-prefix, etc				
	e echo area. This			
<f12> ?</f12> Displays current version of available Erlang system, of <u>erlang.el</u> , of <u>erlang Is</u> (if available), values of erlang-man-parent-rootdir.	e echo area. This root path and its			
the erlang-man-parent-rootdir. For more information see set PEL Erlang environment.	e echo area. This root path and its			
Syntax Highlighting The erlang.el external package provides several levels of Erlang code syntax highlighting:	e echo area. This root path and its			
Off, Level 1: comments only, Level 2, Level 3, Level 4: maximum variety. There is not key binding for this. You must use the Syntax Highlighting section of the Erlang menu:	e echo area. This root path and its			
• In terminal mode Type <f10> to access the menu, then select Erlang, Syntax Highlighting and the level you want.</f10>	e echo area. This root path and its			

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>		
Electric Keys for			behaviour of some keys in erlang-mode buffers:		
Erlang	2. the smartparens exter	nal package, which controls the behaviour of the RET, ,, ; and > keys as controlled by erlang-electric-commands variable. Atternal package, which modifies the behaviour of the DEL and <deletechar> behaviour when smartparens-mode is active.</deletechar>			
∑ Customize	PEL provides customization ar	1> ((to toggle smartparens-mode on and off. stomization and dynamic control of erlang.el electric key behaviour and provides electric behaviour of some extra keys.			
• selectric keys	The pel-erlang-space-at	fter-comma-in-block user-	of the RET, ,, ; and > keys have electric behaviour. By default they are all activated. option activates automatic insertion of space after comma inside a block. Disabled by default.		
Togglo olootrioity		iffer, use the <m-f12> M- (pel-erlang-comma</m-f12>	refix key followed by one of these keys to toggle the electric behaviour of the key.		
Toggle , electricity	<m-f12> M-` ,</m-f12>	&optional GLOBALLY)	Toggle electric behaviour of the comma key. Show message describing its new state. • To modify the behaviour in all Erlang buffers type: M <m-f12> M-`,</m-f12>		
Toggle automatic insertion of space after	<m-f12> M-` M-,</m-f12>	(pel-erlang-toggle- space-after-comma	Toggle automatic insertion of space after comma inside blocks. Show its new state. • To modify the behaviour in all Erlang buffers type: M <m-f12> M- M-,</m-f12>		
comma in block		&optional GLOBALLY)			
Toggle > electricity	<m-f12> M-` ></m-f12>	(pel-erlang-gt & Toggle electric behaviour of the greater-than key. Show message describing its respectively. To modify the behaviour in all Erlang buffers type: M < M-f12> M-` >			
Toggle RET electricity	<m-f12> M-` RET</m-f12>	(pel-erlang-newline &optional GLOBALLY)	Toggle electric behaviour of the newline key. Show message describing its new state. • To modify the behaviour in all Erlang buffers type: M <m-f12> M-` RET</m-f12>		
Toggle ; electricity	<m-f12> M-`;</m-f12>	(pel-erlang-semicolon &optional GLOBALLY)	Toggle electric behaviour of the semicolon key. Show message describing its new state. • To modify the behaviour in all Erlang buffers type: M <m-f12> M-`;</m-f12>		
Toggle . electricity	<m-f12> M-`.</m-f12>	(pel-erlang-period &optional GLOBALLY)	Toggle Erlang electric behaviour of the semicolon key. Show message describing its new state. • To modify the behaviour in all Erlang buffers type: $M < M-f12> M-$.		
Toggle - electricity	<m-f12> M-` -</m-f12>	(smart-dash-mode &optional ARG)	Toggle the smart-dash-mode on/off. More info in $\ \ \ \ \ \ \ \ \ \ \ \ \ $		
Matching Pairs			pairs made of (), [], { }, " " and ' '. PEL adds the << >> pair. haracter(s) automatically inserts the closing character(s)		
	This requires smartpa	rens external package.	activated by pel-use-smartparens.		
		•	minor-modes to activate smartparens-mode automatically for erlang-mode buffers. lectric-pair-local-mode: add electric-pair-local-mode to pel-activates-minor-modes list.		
Matching pairs	(When the smartparens ex	ternal package is used and the smartparens-mode is active, the characters on the left are taken to		
• ∑x Smartparens	[When typing the first ch.	s are: (), [], { }, " ", ' ', and << >> (added by PEL). aracter of a pair, the rest of the pair is inserted and point is left inside.		
	{	The smartparens-mode	xt inside one of those pairs, mark the text area then type the first character of the pair. can be activated automatically for Erlang by adding erlang-mode to the pel-erlang-activates-		
	и		ey sequence to toggle the smartparens-mode on and off.		
	, <<		arens-strict-mode that imposes balanced pairs but that does not help much in Erlang. > including navigation across balanced pairs, something the default erlang.el does not do, by		
Insert Parentheses		replacing forward-sexp	and backward-sexp by specialized functions. For Erlang: insert a parenthesis pair '()', leaving point after open-paren.		
msert Farentieses	M-(&optional ARG)	Use this when smartparens is not used.		
	No argument is equivalent to	es the following ARG sexps in parenthesis if they are balanced. A negative ARG encloses the preceding ARG sex llent to zero: just insert '()' and leave point between. If region is active, insert enclosing characters at region bound.			
			it to nil in Erlang mode buffers, allowing the use of this command to insert the argument space between the function name and the opening parenthesis.		
New Line	RET	(erlang-electric-newline	Break line at point. If electric behaviour is activated: indent, continuing comment if within one.		
		&optional ARG)			
		&optional ARG)	 Should the current line begin with a comment, and the variable 'comment-multi-line' be non-nil, a new comment start is inserted. Should the previous command be another electric command we assume that the user pressed 		
Electric behaviour:		The electric behaviour of the	 Should the current line begin with a comment, and the variable 'comment-multi-line' be non-nil, a new comment start is inserted. Should the previous command be another electric command we assume that the user pressed newline out of old habit, hence we will do nothing. nis key is controlled by 2 variables: 		
Electric behaviour: • indent next line		The electric behaviour of the electric behaviour of the erlang-electric-commander erlang-electric-newline	 Should the current line begin with a comment, and the variable 'comment-multi-line' be non-nil, a new comment start is inserted. Should the previous command be another electric command we assume that the user pressed newline out of old habit, hence we will do nothing. 		
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Electric <	M-1 > / M-1 , * * <kp-subtract> * <deletechar> * When killing, the killed text if * <deletechar> * If the delimiter does not form</deletechar></deletechar></kp-subtract>	The electric behaviour of the electric behaviour of the electric-comma erlang-electric-newline (t): makes it behave electric-lit & electric electri	 Should the current line begin with a comment, and the variable 'comment-multi-line' be non-nil, a new comment start is inserted. Should the previous command be another electric command we assume that the user pressed newline out of old habit, hence we will do nothing. isk ey is controlled by 2 variables: unds must include the erlang-electric-newline symbol to activate the key electric behaviour. e-criteria identifies how to check whether newline should behave electric. By default, the value is ctric as soon as the erlang-electric-commands list includes erlang-electric-newline. Insert a less-than sign, and optionally mark it as an open paren. When smartparens-mode is active << automatically inserts the closing pair. Insert a greater-than sign, and optionally insert a new line and indent. **Electric behaviour** → Force new line and indent. **Electric behaviour** → Force new line and indent. **Electric behaviour** for this character: Just insert > by typing → See below. **Disable electric behaviour for this character: Just insert > by typing M → 1 Insert → when typing → only if the following conditions are met (otherwise inserts → .): **period is included in the pel-erlang-electric-keys user-option value **point is inside code and dash does not follow \$, as in \$ → Insert a comma character and possibly: ** a new indented line when the comma is at the end of an Erlang expression. ** a space if inside a block and pel-erlang-space-after-comma-in-block user-option is on. **Disable electric behaviour for this character: Just insert , by typing M → 1 Insert a semicolon character and possibly a function clause head prototype on the next line. ** Behaves like the normal semicolon when supplied with a numerical arg, point is inside string or comment, or when there are non-whitespace characters following the point on t		

Description	<u>Keystroke</u>	Function	<u>Note</u>		
Standard delete backward character	• DEL • 🛭	(backward-delete-char- untabify ARG &optional KILLP)	Delete characters backward, changing tabs into spaces. Delete ARG chars, and kill (save in kill ring) if KILLP is non-nil. Interactively, ARG is the prefix arg (default 1) and KILLP is t if a prefix arg was specified. The exact behavior depends on 'backward-delete-char-untabify-method'.		
Delete backward, jump over block pair until block is empty then delete block	• DEL	(sp-backward-delete- char &optional ARG)	Same as above with the <u>additional behaviour</u> : • If on a closing delimiter, move backward into balanced expression. • If on an opening delimiter, refuse to delete unless the balanced expression is empty, in which case delete the entire expression.		
<u>SX Smartparens</u> with smartparens- mode active	 If the delimiter does not form a balanced expression, it will be deleted normally. With a numeric prefix argument N = 0, simply delete a character backward, without regard for delimiter balancing. If ARG is raw prefix argument C-u, delete characters backward until an opening delimiter whose deletion would break the proper pairing is hit. 				
Erlang Comments • Erlang Programming Rules & Conventions See also: Comments	Erlang uses the % character to identify line comments. It uses the following conventions: • % - Single percent characters for comments located toward the end of a line of code • %% - Two percent characters are used for comments starting at indentation level. • %%% - Three percent characters are used to describe modules and are always placed in the first column The location of the comment inside a code line is controlled by the comment-column variable. Set it with comment-set-column, bound to C-x;				
Comment/un-comment • PEL extension of comment-dwim specialized for Erlang.	м-;	Comment line or region with % or %% style comments depending on the location in the buffer. Does the same but adds ability to insert %%% comments. It does that on the very first line in the buffer and lines that follow a line that starts with %%%.			
Automatically uses the %%% comment when appropriate. ** Note: • M-; works much better than C-c C-c	With marked un-commenter With marked commented re To force insert %%% comm	On first em On line wit d region: Comment region gion: Un-comments the ent style: type M-3 M-; 1	e region. The M-3 prefix identifies 3 % characters to insert. You can use another number.		
and C-c C-u • PEL maps M-; to pel-erlang-comment- dwim which works	C-c C-c	(comment-region BEG END &optional ARG)	However PEL uses M-1 for something else. Comment or uncomment each line in the region. With just C-u prefix arg, uncomment each line in region BEG END. Numeric prefix ARG means use ARG comment characters.		
even better. See also: Comments	By default, the 'comment-s	start' markers are inserted a	If ARG is negative, delete that many comment characters instead. d 'comment-padding'; the comment end by 'comment-end' and 'comment-padding'. to the current indentation of the region, and comments are terminated on each line (even for		
Un-comment region	C-c C-u	(uncomment-region BEG END &optional ARG)	und blank lines do not get comments). This can be changed with 'comment-style'. Uncomment each line in the BEG END region. The numeric prefix ARG can specify a number of chars to remove from the comment delimiters.		
Toggle display of comments in buffer or active region	<f11> ; ;</f11>	(hide/show-comments- toggle &optional START END)	Toggle hiding/showing of comments in the active region or whole buffer. • If the region is active, then toggle comments in the region. Otherwise, in the whole buffer. • Requires the hide-comnt.el package PEL activates it with pel-use-hide-comnt		
Filling Text See also: Filling/Justification	Filling Erlang code does The pel-erlang-fill-column pel-show-fill-column < 1	not work as it treats code as sets the fill-column variable	buffer: code and comment. The auto-fill command will automatically wraps code and comments. In some normal text. But filling comment paragraphs is useful. It is to control where text wraps in Erlang buffers. In the set-fill-column (C-x f) to set it.		
Fill current paragraph	• M-q • <f11> t f p</f11>	(fill-paragraph &optional JUSTIFY REGION)	Fill multi-line comment at or after point. • To justify as well: C-u M-q • In auto fill mode the text filling is done at the end of the line.		
Hard Tabs Rendering See also: ∑ Indentation Hard Tab Display Rendering	Emacs supports all variation use hard-tabs for indentatio Emacs provides commands The tab-width user-option PEL provides an Erlang s	ns of styles: spaces only and in and extra spaces for align to convert code to remove controls the visual rendering specific user option for hard-	is and spaces as horizontal whitespace in the Erlang source code. If mix of hard-tabs and spaces. Using only hard-tabs in Erlang is possible but rare. Some people ment. Emacs supports all of these styles. If hard-tabs (untabify) and replace as many spaces as possible with hard tabs (tabify). If of hard tabs not the indentation level. Itab: pel-erlang-tab-width user-option. Itab: pel-erlang-tab-width rendering in the current buffer.		
Set visual rendering of hard tabs for the current buffer See <u>National Indentation</u>	<f11> M-t</f11>	(pel-set-tab-width N)	Change the tab width of the current buffer, only affecting the display rendering of hard tabs inserted in the buffer text. Prompts for a new value in the [2, 8] range. • This modifies a buffer local value of the the tab-width user-option. • The change is temporary and affects the current buffer only. • To change the tab width used for all Erlang source code files, change the 'pel-erlang-tab-width' user-option variable instead.		
Hard Tab Insertion	The pel-erlang-use-tabs user This sets the Emacs indent		ard tab characters are inserted in Erlang source code when Emacs inserts indentation whitespace. ers.		
Indentation indentation			the erlang-mode logic and several user-options in the erlang group. See the erlang group seed at the end of this list. They are also listed in the Indentation table.		
Indent current line or region	<tab></tab>	(indent-for-tab- command &optional ARG)	Indent active region, current line, or block starting on this line: performs syntactic indentation. • The indentation level is controlled by the erlang-indent-level user-option. Its default is 4. • Access its custom group buffer using <f12> <f3> 1</f3></f12>		
See also: Indentation Erlang Guidelines: Ericsson AB: try to limit most code to 2 levels of indentation. Inaka: indentation level = 2 space chars.	 Access its custom group buffer using <f12> <f3> 1</f3></f12> In Transient Mark mode, when the region is active, reindent the region. Otherwise, with a prefix argument, rigidly reindent the expression starting on the current line. Otherwise reindent just the current line. You can type <tab> anywhere in the line to indent the current line or everything in the marked area if a block is marked.</tab> Note that the erlang.el logic doubles the indentation label inside funs. See this S.O. discussion on that. To indent rigidly you can use: (pel-indent-rigidly &optional N) (bound to C-x <tab> and to <f11> <tab> <tab> <tab>) to indent the line or region rigidly.</tab></tab></tab></f11></tab> (tab-to-tab-stop), bound to M-i to insert spaces to the next tab stop column. 				
Indent complete buffer	<f12> <tab></tab></f12>	(erlang-indent-current- buffer)	Indent current buffer as Erlang code. • Works on the entire buffer, even if it is narrowed.		
Indent Erlang function	C-c C-q <f12> f <tab></tab></f12>	(erlang-indent-function)	Indent current Erlang function. Point can be located anywhere inside the function.		
Indent function clause	<f12> c <tab></tab></f12>	(erlang-indent-clause)	Indent current Erlang clause. Point can be located anywhere in the Erlang clause.		
Indent lines of list after point	С-М-Ф	(prog-indent-sexp &optional DEFUN)	Indent the expression after point. See also: <u>∑ Indentation</u> When interactively called with prefix, indent the enclosing function instead.		
Indent a region	1. If 'fill-prefix' is non-nil,	insert 'fill-prefix' at the begi	these methods and indents all the lines with it: nning of each line in the region that does not already begin with it.		
	 If 'indent-region-function' is non-nil, call that function to indent the region. Indent each line via 'indent-according-to-mode'. 				

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>		
Outline Erlang			the Erlang buffer into an outline of function definitions.		
Code See <u>▶ Outline</u> for all key bindings	Once the minor mode is active you can collapse and expand code as outlines and navigate using the outline commands. See the key bindings in Outline This is very useful to quickly see an outline of the code in a large file. Using the outline-hide-other is particularly effective. PEL binds the outline commands under the <f2> key prefix when the outline-minor-mode is active. Two useful key bindings are shown below.</f2>				
Toggle outline minor	<f11> M-1</f11>	(outline-minor-mode	Toggle Outline minor mode.		
mode		&optional ARG)	Enable with a prefix positive argument ARG, disable with negative argument. Utility and this argument argument and the place of the profit argument and the place of t		
Hide other Show all	• <f2> o</f2>	(outline-hide-other) (outline-show-all)	Hide everything except current body and parent and top-level headings. This also unhides the top heading-less body, if any. Show all of the text in the buffer.		
Navigation in	-	,	Erlang source code. PEL complements these. And EDTS also.		
Erlang code See also: • <u>Navigation</u> • Moving by Defuns	Several commands are specia Notice the 3 sets of commands 1. <f12> <up> and <: 2. The standard navigating 3. The <f12> <u-curve <f12="" all="" below="" describe="" list="" note="" sp="" that="" the="" we=""> prefixe</u-curve></f12></up></f12>	lization of the normal navigands: f12> <down> move to the commands, (mapped to sor> commands (also acceptailized commands only. So shown below are available.</down>	ition commands which are described in the table Navigation , but several are specific to Erlang: Ne beginning of Erlang functions skipping all compiler directives. From the beginning of Erlang functions skipping all compiler directives. From the beginning of Erlang functions but stop at compiler directives. Seesible via M-f12 M-cursor , move across Erlang clauses (as opposed to functions). See the others inside Navigation , like the navigation by blocks. In erlang-mode. Their global equivalent is f11 SPC e . It is not always shown for brevity. It position. The start position is shown as with following positions as to to to the start position is shown as with following positions as the second commands are second commands.		
By <u>Function</u>	Move to next/previous funct	ion beginning/end at/skippi	ng compiler directives. Skips clauses.		
to start of function	Move to beginning of fun	ction			
Go backward to beginning of	• <f12> <up> • <f12> f p</f12></up></f12>	(pel-previous-erl- function &optional N)	Move backward to the beginning of the previous function skipping all compiler directives. Moves point to the first character of the function name.		
previous function	• <f11> SPC e <up> • <f11> SPC e f p</f11></up></f11>		 With prefix argument N repeat N times. Pushes mark; move back to previous position with M-\[^\]. Shift marking is available for the key sequence using a cursor key. 		
	C-c C-d C-b	(ferl-goto-previous- function)	Move backward to the beginning of the previous function. • Skips all compiler directives. • Requires EDTS 2 PEL activates it with pel-use-edts (set to t or start-automatically).		
Go forward to beginning of next function	• <f12> <down> • <f12> f n</f12></down></f12>	(pel-next-erl-function &optional N)	Move forward to the beginning of the next function skipping all compiler directives. Moves point to the first character of the function name. With prefix argument N repeat N times.		
	• <f11> SPC e <down> • <f11> SPC e f n</f11></down></f11>		Pushes mark; move back to previous position with M−`. Shift marking is available for the key sequence using a cursor key.		
	C-c C-d C-f	(ferl-goto-next-function)	Move forward to the beginning of the next function. • Skips all compiler directives. • Requires EDTS 2 PEL activates it with pel-use-edts (set to t or start-automatically).		
 to start of function/ directive 	Move to beginning of fun-	ction or compiler directive			
 Go backward to beginning of 	<f12> f P</f12>	(beginning-of-defun &optional ARG)	Move backward to the beginning of an Erlang function or compiler directive. • With ARG, do it that many times. Negative ARG means move forward to the ARGth following		
previous: function compiler directive	• C-M-a • C-M- <home> • <f6> p • <f6> <up> • <f11> SPC e f P</f11></up></f6></f6></home>	(erlang-beginning-	beginning of defun. of-function &optional ARG) beginning of defun. ►Shift marking is available in graphics mode, not in terming of the second of the sec		
Go forward to	<f12> f N</f12>	N (pel-beginning-of-next- Move forward to the beginning of the next function definition or compiler dir	Move forward to the beginning of the next function definition or compiler directive.		
beginning of next:	• <f6> n • <f6> <down> • <f11> SPC e f N</f11></down></f6></f6>	defun &optional SILENT DONT-PUSH_MARK)	 Beeps if does not find beginning of next function unless SILENT is non-nil. If the beginning of next function is found, push the start location to the mark ring unless DONT-PUSH_MARK is non-nil. Move back to previous position with M-\[^\circ\]. Shift marking is available for the <f6> bindings.</f6> 		
to end of function	Move to end of function of	or compiler directive			
Backward to end of previous: function compiler directive	<f6> <left></left></f6>	(pel-end-of-previous- defun &optional SILENT DONT-PUSH_MARK)	Move backwards to line after end of the previous function definition. • Beeps if does not find end of previous function unless SILENT is non-nil. • If the end of previous function is found, push the start location to the mark ring unless DONT-PUSH_MARK is non-nil. • Move back to previous position with M-^. —Shift marking is available for the <f6> bindings.</f6>		
Forward to end of next: function compiler	• C-M-e • C-M- <end> • <f6> <right></right></f6></end>	(end-of-defun &optional ARG) (erlang-end-of- function &optional	Move forward to line after end of Erlang function. With argument, do it that many times. Negative argument -N means move back to Nth preceding end of defun. ➡ Shift marking is available in graphics mode, not in terminal mode (for C−M−e and C−M−		
directive By Expression	Note that in Frland every single	ARG)	<end>). However <f6> <right> handle Shift-marking fine in terminal mode. sequence ends with a period. Expressions in expression sequences are separated by commas.</right></f6></end>		
functions, etc	The following commands move • They do not move across ex	e to the beginning/end of sir pressions in a sequence of	ngle expression or expression sequence.		
Go to beginning of	м-а	(backward-sentence	Go backward to the beginning of an Erlang statement.		
statement	<f12> s a</f12>	&optional ARG)	With a numerical argument repeat that many times.		
Go to end of statement	M-e <f12> s e</f12>	(forward-sentence &optional ARG)	Go forward to the end of an Erlang statement. • With a numerical argument repeat that many times.		
By <u>Function Clause</u>	Move by clauses of a function.	A function definition (state	ment) may have multiple clauses, each separated by a semicolon.		
Go backward to beginning of clause	• C-c M-a • <f12> c a • <m-f12> <m-up></m-up></m-f12></f12>	(erlang-beginning-of- clause &optional ARG)	Move backward to previous start of clause. • With argument, do this that many times. **Erlang.el man page indicates an invalid mapping for this. Reported as ERL-1314.		
Go forward to beginning of next clause	• <f12> c n • <m-f12> <m-down></m-down></m-f12></f12>	(pel-beginning-of-next-clause)	Move forward to the beginning of next clause. • Pushes mark; move back to previous position with M−ˆ. ⇒Shift marking is available.		
Go backward to end of previous clause	• <f12> c p • <m-f12> <m-left></m-left></m-f12></f12>	(pel-end-of-previous- clause)	Move backward to the end of the previous clause. • Pushes mark; move back to previous position with M−ˆ. ⇒Shift marking is available.		
Go forward to end of current clause	• C-c M-e • <f12> c e • <m-f12> <m-right></m-right></m-f12></f12>	(erlang-end-of-clause &optional ARG)	Move to the end of the current clause. • With argument, do this that many times. **Erlang.el man page indicates an invalid mapping for this. Reported as ERL-1314.		

Description	<u>Keystroke</u>	Function	<u>Note</u>		
Block Navigation	 () for function p { } for tuples, re [] for lists " " for strings << >> for binaries a 	es and bitstrings			
See also: •	• Use the <f11> (key so Standard Erlang support provi</f11>	equence to toggle the smar de some commands to navi	for Erlang by adding erlang-mode to the pel-erlang-activates-minor-modes user-option. tparens-mode on and off. igate across and into these balanced blocks. Their name is shown in black in the following rows. en smartparens-mode minor-mode is active. Some are PEL specializations of smartparens code.		
To Block start/end	The following commands mov	e to the beginning or end of	a block, skipping over Erlang terms inside these blocks.		
Go backward to beginning of previous block					
Skips terms.			 A negative argument N means forward-list N. This command assumes point is not in a string or comment. -spec ejabberd_started 6() -> ok. ejabberd_started 5() -> gen_server:call 4(?MODULE, ejabberd_started, ?CALL_TIMEOUT). -spec config_reloaded 3() -> ok. config_reloaded 2() -> gen_server:call 1(?MODULE, config_reloaded, ?CALL_TIMEOUT). 		
Go backward to end of previous block Skips terms. ∑x Smartparens with smartparensmode active	<m-f7> p</m-f7>	(pel-sp-previous-sexp &optional ARG)	Move backward to end of previous block. • With ARG, do it that many times. If there is no next expression at current level, jump one level up (effectively doing 'sp-up-sexp'). • A negative argument N means move to the end of N-th following balanced expression. -spec ejabberd_started() 6 -> ok. ejabberd_started() 5 -> gen_server:call(?MODULE, ejabberd_started, ?CALL_TIMEOUT) 4. -spec config_reloaded() 3 -> ok. config_reloaded() 2 -> gen_server:call(?MODULE, config_reloaded, ?CALL_TIMEOUT) 1.0		
Go forward to end of next block Skips terms.	• C-M-n	(forward-list &optional ARG)	Move forward to end of next block. • Supports blocks of (), [] and {}. • With ARG, do it that many times. • A negative argument N means forward-list N. • This command assumes point is not in a string or comment. O-spec ejabberd_started() 1 -> ok. ejabberd_started() 2 -> gen_server:call(?MODULE, ejabberd_started, ?CALL_TIMEOUT) 3. -spec config_reloaded() 4 -> ok. config_reloaded() 5 -> gen_server:call(?MODULE, config_reloaded, ?CALL_TIMEOUT) 6.		
Go forward to beginning of next block Skips terms. ∑X Smartparens with smartparensmode active	<m-f7> n</m-f7>	(pel-sp-next-sexp &optional ARG)	Move forward to beginning of next block (and term if 'sp-navigate-consider-symbols' is set). • With ARG, do it that many times. • If there is no next expression at current level, jump one level up (effectively doing 'sp-backward-up-sexp'). O-spec ejabberd_started 1() -> ok. ejabberd_started 2() -> gen_server:call 3(?MODULE, ejabberd_started, ?CALL_TIMEOUT). -spec config_reloaded 4() -> ok. config_reloaded 5() -> gen_server:call 6(?MODULE, config_reloaded, ?CALL_TIMEOUT).		
By Blocks and Terms See also: X Smartparens	With PEL: to use Esc C- Several Linux distros map change Linux key binding in S	blocks made of pairs of {}, [] and (). Also stops at terms. to use Esc C- <left> and Esc C-<right> bindings below, set pel-windmove-on-esc-cursor user-option is set to nil. nux distros map C-M-<left> and C-M-<right> to desktop workspace operation. In that case you can either use another key binding or key binding in Systems->settings->keyboard->shortcuts to prevent it from using that key sequence. ces behaviour of these keys by providing the ability to move across Erlang's << >> bit syntax statement blocks.</right></left></right></left>			
Go backward to beginning of previous term/block	• C-M- <left> • C-[C-b • Esc C-b • Esc C-<left> • C-M-b</left></left>	(pel-erlang-backward- sexp &optional ARG)			
with smartparens with smartparens-mode active:	• C-M-b • <m-f7> b</m-f7>	(sp-backward-sexp &optional ARG)	Same as above with the additional behaviour: • With 'sp-navigate-consider-symbols' symbols and strings are also considered balanced expressions. It is set by default. • When it is nil, point only stops at 1, 4, 6 and 9: it jumps over terms. -spec ejabberd_started() -> ok. ejabberd_started() -> gen_server:call 9(?MODULE, ejabberd_started, ?CALL_TIMEOUT). -8 spec 7config_reloaded 6() -> 5 ok. 5 config_reloaded 4() -> 3 gen_server: 2 call 1(?MODULE, config_reloaded, ?CALL_TIMEOUT).0 Inside a block:		
			gen_server:call(?3MODULE, 2ejabberd_started, ?1CALL_TIMEOUT0).		

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Go forward to end of next term/block	• C-M- <right> • C-[C-f • Esc C-f • Esc C-<right> • C-M-f</right></right>	(pel-erlang-forward- sexp &optional ARG)	Move forward to end of term or block. • With ARG, do it that many times. • A negative argument N means move backward to beginning of previous term or block. • At end of block, jump out of the current one. • C-M-n : ► Shift marking is available in graphics mode, not in terminal mode. • C-M-f : ► Shift marking is available in graphics mode, not in terminal mode. • C-M- <right> : ► Shift marking works with this command. • C-M-<right> does not work on Windows, but H-<right> does.</right></right></right>
 X Smartparens with smartparens- mode active: C-M-f and <m- f7=""> f use sp- forward-sexp,</m-> others are using forward-sexp 	• C-M-f • <m-f7> f</m-f7>	(sp-forward-sexp &optional ARG)	Same as above with the additional behaviour: • With 'sp-navigate-consider-symbols' symbols and strings are also considered balanced expressions. It is set by default. • When it is nil, point only stops at 3, 6 and 9 it jumps over terms. O-spec1 ejabberd_started2()3 -> ok4. ejabberd_started5()6 -> gen_server7:call3(?MODULE, ejabberd_started, ?CALL_TIMEOUT)9. -spec10 config_reloaded() -> ok. config_reloaded() -> gen_server:call(0?MODULE1, config_reloaded2, ?CALL_TIMEOUT3).
Into block	Navigate inside nested blocks	of elements with the follow	
Into block forward	C-M-d	(down-list &optional	Move forward to the beginning of inner element of a block.
into block forward	C-M-u	ARG)	With ARG, do this that many times.
• <u>Sx Smartparens</u> with smartparens- mode active	• C-M-d • <m-f7> d</m-f7>	(sp-down-sexp &optional ARG)	 A negative argument N means move backward but still go down a level. If ARG is raw prefix argument C-u, descend forward as much as possible. If ARG is raw prefix argument C-u C-u, jump to the beginning of current list. If the point is inside block and there is no down expression to descend to, jump to the beginning of current one. If moving backwards, jump to end of current one. music_info() -> [1{2error, {3noreply, State}},
Into block backward • <u>Sx Smartparens</u> with smartparens- mode active	• <m-f7> z • C-M-z</m-f7>	(sp-backward-down- sexp &optional ARG)	Move backward down one level to end of block element. With ARG, do this that many times. A negative argument N means move forward but still go down a level. If ARG is raw prefix argument C-u, descend backward as much as possible. If ARG is raw prefix argument C-u C-u, jump to the end of current list. If the point is inside sexp and there is no down expression to descend to, jump to the end of current one. If moving forward, jump to beginning of current one. music_info(1) -> O{{error, {noreply, State}},
to edge of block			
To beginning of block • <u>SX Smartparens</u> with smartparens- mode active	• <m-f7> a</m-f7>	(sp-beginning-of-sexp &optional ARG)	Jump to beginning of the block the point is in. The beginning is the point after the opening delimiter. With no argument, this is the same as C-u C-u 'sp-down-sexp' With ARG positive N > 1, move forward out of the current expression, move N-2 expressions forward and move down one level into next expression. With ARG negative N < 1, move backward out of the current expression, move N-1 expressions backward and move down one level into next expression. With ARG raw prefix argument C-u move out of the current expressions and then to the beginning of enclosing expression. music_info() -> {{error, {noreply, State}}, {good, {{ vear, 19074}, example {group, "lcontract0ion"}, example {song, "Sam M'Madown"}, {song, "A la claire fontaine"}, {song, "L'alarme à l'oeil"}, {song, "La bourse ou la vie"}0] example {rating, excellent}}}
To end of current block • forward • ∑X Smartparens with smartparens- mode active	<m-f7> e</m-f7>	(sp-end-of-sexp &optional ARG)	Jump to end of the current block. • With no argument, this is the same as calling C-u C-u 'sp-backward-down-sexp'. • With ARG positive N > 1, move forward out of the current expression, move N-1 expressions forward and move down backward one level into previous expression. • With ARG negative N < 1, move backward out of the current expression, move N-2 expressions backward and move down backward one level into previous expression. • With ARG raw prefix argument C-u move out of the current expressions and then to the end of enclosing expression. music_info() -> {

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Out of block			
Out block forward forward	C-M-] • C-M-] • <m-f7>]</m-f7>	(up-list &optional ARG ESCAPE-STRINGS NO- SYNTAX-CROSSING) (sp-up-sexp &optional ARG INTERACTIVE)	Move forward out of one level of block parens. With ARG, do this that many times. A negative argument means move backward but still to a less deep spot. If called interactively and 'sp-navigate-reindent-after-up' is enabled for current major-mode, remove the whitespace between end of the expression and the last "thing" inside the expression.
X Smartparens with smartparens- mode active			This behaviour can be suppressed for syntactic string blocks by setting 'sp-navigate-reindent-after-up-in-string' to nil. If 'sp-navigate-close-if-unbalanced' is non-nil, close the unbalanced expressions automatically. music_info() ->
			{{erOror, {noreply, State}}1, example {goOod, {{year, 1974}, example {group, "Contraction"}, [{song, "Sam M'Madown"}, {song, "A la claire fontaine"}, {song, "L'alarme à l'oeil"}, {song, "La bourse ou la vie"}] {rating, excellent}}}1}.
Out block backward • backward	• <m-f7> u • C-M-u</m-f7>	(sp-backward-up-sexp &optional ARG INTERACTIVE)	Move backward out of one level of block parens. With ARG, do this that many times. A negative argument means move forward but still to a less deep spot. If called interactively and 'sp-navigate-reindent-after-up' is enabled for current major-mode, remove the whitespace between beginning of the expression and the first "thing" inside the
<u>X Smartparens</u> with smartparens- mode active			expression. music_info() ->
Move over space	Current implementation of	sp-forward-symbol and sp- tegrated PEL implement wo	Rage and required smartparens-mode minor-mode to be active. **Deackward-symbol stop inside comments. I consider this a bug so I reported and submitted a price or stop inside comments: pel-sp-forward-symbol and pel-sp-gruntil the fix is integrated.
To beginning of next symbol/block	<m-f7> SPC n</m-f7>	(sp-skip-forward-to- symbol &optional STOP- AT-STRING STOP-	Skip whitespace and comments moving forward. • If STOP-AT-STRING is non-nil, stop before entering a string (if not already in a string). • If STOP-AFTER-STRING is non-nil, stop after exiting a string.
<u>X Smartparens</u> with smartparens- mode active		AFTER-STRING STOP-INSIDE-STRING)	<pre>• If STOP-INSIDE-STRING is non-nil, stop before exiting a string. start_app(App) -> 0</pre>
To end of next symbol or block • <u>∑X Smartparens</u> with smartparensmode active	<m-f7> SPC m</m-f7>	(pel-sp-forward-symbol &optional ARG)	Move point to the next position that is the end of a symbol. With ARG being positive number N, repeat that many times. With ARG being negative number -N, repeat that many times in backward direction. A symbol is any sequence of characters that are in either the word constituent or symbol constituent syntax class. Current symbol only extend to the possible opening or closing delimiter as defined by 'sp-add-pair' even if part of this delimiter would match "symbol" syntax classes.
See **** inote above.			<pre>start_app(App) -> % first clause start_app(App0, temporary1). start_app(App0, Type1) -> % second clause StartFlag2 = not3 is_loaded4(),</pre>
			start_app 5 (App 6, Type 7, StartFlag 8).
To beginning of previous •	<m-f7> SPC p</m-f7>	(pel-sp-backward- symbol &optional ARG)	Move point to the next position that is the beginning of a symbol. With ARG being positive number N, repeat that many times. With ARG being negative number -N, repeat that many times in forward direction. A symbol is any sequence of characters that are in either the word constituent or symbol constituent syntax class. Current symbol only extend to the possible opening or closing delimiter as defined by 'sp-add-pair' even if part of this delimiter would match "symbol" syntax classes.
See inote above.			<pre>8start_app(7App) -> % first clause 6start_app(5App, 4temporary). 3start_app(2App, 1Type) -> % second clause 0startFlag = not is_loaded(), ctart_app(App, Type StartFlag)</pre> <pre></pre>
Skip forward past whitespace	<m-f7> SPC .</m-f7>	(sp-forward-whitespace &optional ARG)	start_app(App, Type, StartFlag). Skip forward past the whitespace characters. • With non-nil ARG return number of characters skipped.
X Smartparens with smartparens- mode active			<pre>start_app(App) -> 0</pre>
Skip backward past	<m-f7> SPC ,</m-f7>	(sp-backward-	<pre>StartFlag = not is_loaded(), start_app(App, Type, StartFlag).</pre> Skip backward past the whitespace characters.
whitespace • \(\sum x \) Smartparens with smartparens-		whitespace &optional ARG)	 With non-nil ARG return number of characters skipped. start_app(App) -> 1 start_app(App, temporary).
mode active			<pre>start_app(App, Type) -> % second clause1 OStartFlag = not is_loaded(), start_app(App, Type, StartFlag).</pre>
			7

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Completion	Completion is available from various sources. • Without help from EDTS or LSP, the ivy-erlang-complete external package parses the Erlang libraries to identify the supported functions. • ivy-erlang-complete external package activated by pel-use-ivy-erlang-complete user-option. • Requires a version of Erlang installed that supports Erlang escript. • ivy-erlang-complete replies on GNU sed, which is not accessible on macOS by default. • Install gnu-sed with Homebrew. I provided a patch which solves the problem by detecting macOS and using gsed instead of sed.			
Hippie Expand Abbreviation See also: Hide/Show	M-/	(hippie-expand ARG)	 Try to expand text before point, using multiple methods. Not an Erlang completion command but it can be useful to pick up names present in the files. The expansion functions in 'hippie-expand-try-functions-list' are tried in order, until a possible expansion is found. Repeated application of 'hippie-expand' inserts successively possible expansions. With a positive numeric argument, jumps directly to the ARG next function in this list. With a negative argument or just C-u, undoes the expansion. 	
Completion of Erlang code at point.	<f12> . C-:</f12>	(ivy-erlang-complete)	PEL activates this when the pel-use-hippie-expand user option is set to t. Erlang completion at point. Aware of Erlang modules and functions for the currently used Erlang version identified by the ivy-erlang-complete-erlang-root user-option which is adjusted to the erlang-root-dir ivy-erlang-complete replies on GNU sed, which is not accessible on macOS by default.	
			To solve the problem you must install gnu-sed with Homebrew since ivy-erlang-complete shell scripts use gsed instead of sed.	
Open web-based Erlang standard library documentation for function at point	• <f12> M-h • C-c C-h</f12>	(ivy-erlang-complete- show-doc-at-point)	Show web-based Erlang standard library documentation for function at point.	
Set a different root for Erlang project	• <f12> M-e • C-c C-e</f12>	(ivy-erlang-complete- set-project-root)	Set root for current project for ivy-erlang-complete. To see the current value of the ivy-erlang-complete-project-root, type <f12> ?</f12>	
Cross Reference navigation See <u>▼ Xref</u>	Erlang cross reference navigation, that uses the M key to move to the definition of the thing at point, is supported by several tools: • The xref-based cross reference tools with the following backends: • etags (with etags or CTags generated tags file), use etags-erl shell script to create a TAGS file in the directory root to use with etags. • Global/gtags with ggtags. Source the envfor-gtags shell script to set up your shell before starting Emacs to use gtags. • You must install GNU Global for this. See PEL manual installation instructions for GNU Global. • With PEL set pel-use-ggtags user-option to t to install the Emacs-side support ggtags package and activate the gtags commands. • With PEL set pel-use-ggtags user-option to t to install the Emacs-side support ggtags package and activate the gtags commands. • For the above use the <f11> X <f2> key sequence to access PEL customization buffer for cross reference control. • Other specialized tools for Erlang: • Wiv-erlang-complete external package activated by pel-use-ivy-erlang-complete user-option. • Requires a version of Erlang installed that supports Erlang escript. • Install gnu-sed with Homebrew. I provided a patch which solves the problem by detecting macOS and using gsed instead of sed.</f2></f11>			
Find definition of	м	(xref-find-definitions	Grab symbol at point and move cursor to its definition.	
identifier at point ★★★		IDENTIFIER)	 If there are more than one match, prompt in the *xref* buffer. To search for a symbol entered manually, type C-u M See ∑ Xref for commands to select the backends 	
Go back to where M was last issued	м-,	(xref-pop-marker-stack)	 Pop back to where M was last invoked. Marker depth is controlled by the xref-marker-ring-length user option. 	
Find definition of identifier at point See also: Xref	• <f12> M • M</f12>	(ivy-erlang-complete-find-definition)	Find erlang definition.	
	• <f12> M-? M-?</f12>	(ivy-erlang-complete- find-references)	Find erlang references. • Use M-, to go back to original location.	
	• <f12> M-f • C-c C-f</f12>	(ivy-erlang-complete- find-spec)	Find spec at point, with ivy completion listing all found, then opening source file. • It also find callback definition.	
	• <f12> M-o • C-c C-o</f12>	(ivy-erlang-complete-find-file)	Open file at point. Find file in current project.	
Marking See also: <u>∑ Marking</u>	The first 2 command listed if For those 2 commands the	pelow are Erlang-mode spen ne Erlang.el man page in	ind described in the Marking table. cific marking functions. dicates an invalid mapping for this. Reported as <u>ERL-1314</u> . cement to erlang syntax table supporting the < > pair therefore it is also mentioned here.	
Mark Erlang function	• C-M-h	(mark-defun &optional ARG)	Put mark at end of this function, point at beginning. The function marked is the one that contains point or follows point. With positive ARG, mark this and that many next functions; with negative ARG, change the	
	• <f12> f m</f12>	(erlang-mark-function &optional ARG)	direction of marking. If the mark is active, it marks the next or previous function(s) after the one(s) already marked.	
Mark Erlang Clause	• C-c M-h • <f12> c m</f12>	(erlang-mark-clause)	Put mark at end of clause, point at beginning.	
Mark region by semantic unit, increase marked region on each invocation.	• M-= • <f11> . =</f11>	(er/expand-region ARG)	Increase selected region by semantic units. Requires the <u>expand-region</u> package, activated by <i>pel-use-expand-region</i> user option.	
★ ★ Powerful command	If prefix argument is 0 it reserved.	e calls 'er/contract-region'. ets point and mark to their s	tate before calling 'er/expand-region' for the first time.	
Works best with superword-mode on. • See <u>▼ Text Modes</u>	 If prefix argument is negative calls 'er/contract-region'. If prefix argument is 0 it resets point and mark to their state before calling 'er/expand-region' for the first time. This command is very powerful: the first time it's typed it selects a word, if you type it again it will expand the selection, and again, and again. The expansions follow the semantics of the current major mode: it uses syntactic information from the major mode. ► Once M-= is typed, you can quickly type the following single keys in sequence: = to expand the region, - to contract the region, 0 to reset the operation. If you wait too long, then you have to use M-= again to continue the expansion, otherwise the region is de-activated. Note that you can also use the following key chords to control the contraction of the selected text without having to worry about time: M - M = to contract the region M - 0 M = to reset the operation. You can also use the cursor keys to expand or contract the region and C - x C - x to exchange mark and point to expand the other side of the region with cursors. 			

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Copy and Clone • ∑x Smartparens			cloning operations. They are provided by Smartparens lay the copied string when pel-show-copy-cut-text is t. Toggle this display with <f11> M-=</f11>
Copy current & forward block(s)	<m-f7> =</m-f7>	(sp-copy-sexp &optional ARG)	Copy the following ARG expressions to the kill-ring. This is exactly like calling 'sp-kill-sexp' with second argument t. All the special prefix arguments work the same way.
Copy previous block(s)	<m-f7> M-=</m-f7>	(sp-backward-copy- sexp &optional ARG)	Copy the previous ARG expressions to the kill-ring. This is exactly like calling 'sp-backward-kill-sexp' with second argument t. All the special prefix arguments work the same way.
clone current block	<m-f7> c</m-f7>	(sp-clone-sexp)	Clone sexp after or around point. If the form immediately after point is a sexp, clone it below the current one and put the point in front of it. Otherwise get the enclosing sexp and clone it below the current enclosing sexp.
Transform code	The following commands can	be used to help transform c	ode. Some need external packages.
iEdit mode \$2 See also: ∑ Highlight	iEdit Mode - Edit multiple ins Programme Requires the iedit external		s simultaneously.
Toggle iedit mode See also: • <u>∑ Cursor</u> • <u>∑ Search/Replace</u>	• C-; • <f11> e • <f11> h i • <f11> m i</f11></f11></f11>	(iedit-mode &optional ARG)	Toggle iEdit mode: edit all symbols in scope or region simultaneously. ⚠ Both iEdit and Flyspell use the C-; key as their default binding. • PEL detects and reports that situation: modify the binding of one of them if you see it. ➤ See ∑ Search/Replace where all the iedit-mode commands are described.
Align arrows inside region	C-c C-a	(erlang-align-arrows START END)	Align arrows ("->") in function clauses inside marked region or in the current function. • With a prefix argument, aligns all arrows in the region (or from beginning of buffer up to point), not just those in function clauses.
		sum([H T], Sum) -> sum([], Sum) -> Sum. To align something else	After C-c C-a: sum(L, 0). sum(L) -> sum(L, 0). sum(T, Sum + H); sum([H T], Sum) -> sum(T, Sum + H);
Transpose block elements	<m-f7> t</m-f7>	(sp-transpose-sexp &optional ARG)	Transpose the expressions around point. • The operation will move the point after the transposed block, so the next transpose will "drag" it forward.
Smartparens with smartparens- mode active			 With arg positive N, apply that many times, dragging the expression forward. With arg negative -N, apply N times backward, pushing the word before cursor backward. This will therefore not transpose the expressions before and after point, but push the expression before point over the one before it. Before (for all following examples): Alist = [1, 2, 3, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]]. After <-f7> t: AList = [1, 2, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]]. After M-2 <-f7> t: AList = [1, 2, [10,11,12,[22,33,44]], 5, 3, 6, 7, 8,[]]. Before (for all following examples): AList = [{first,[1, 2, 3]}, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]]. After <-f7> t: AList = [[10,11,12,[22,33,44]], 5, {first,[1, 2, 3]}, 6, 7, 8,[]]. Before (for all following examples): AList = [{first,[1, 2, 3]}, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]]. Before (for all following examples): AList = [{first,[1, 2, 3]}, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]]. After M <m-f7> t: AList = [{first,[1, 3], 2]}, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]].</m-f7>
Push current block after next • §£ Smartparens with smartparens-	<m-f7> s</m-f7>	(sp-push-hybrid-sexp)	Push the hybrid sexp after point over the following one. Before: Alist = [1, 2, 3, Alist = [1, 2,
mode active			5, 6, 7, 8,[]]. [10,11,12,[22,33,44]]].
Transform - barf Eject next element(s) out of current block • <u>Sx Smartparens</u> with smartparens- mode active	Eject next element(s) out of current block • ∑ Smartparens with smartparens- with smartparens- Smartparens		Remove the last sexp in the current list by moving the closing delimiter. If ARG is positive number N, barf that many expressions. If ARG is negative number -N, contract the opening pair instead. If ARG is raw prefix C-u, barf all expressions from the one after point to the end of current list and place the point before the closing delimiter of the list. If the current list is empty, do nothing.
<u>ae</u>		smartparens by itself fails to process these examples properly. PEL fixes the issues with post processing.	Before: AList = [[1, 2, 3, 4]]. Before: AList = [[1, 2, 3, 4]]. After M-2 < M-f7> /: AList = [[1, 2, 3, 4]]. After M-2 < M-f7> /: AList = [[1, 2], 3, 4]. After M < M-f7> /: AList = [[1, 2, 3, 4]]. After M < M-f7> /: AList = [[1, 2, 3, 4]].
Eject previous element(s) out of current block	<m-f7> M-/</m-f7>	(sp-backward-barf-sexp &optional ARG)	This is exactly like calling 'sp-forward-barf-sexp' with minus ARG. In other words, instead of contracting the closing pair, the opening pair is contracted. For more information, see the documentation of 'sp-forward-barf-sexp'.
S Smartparens with smartparens- mode active		This command works fine in Erlang for the following code examples:	AList = [[1, 2, 3, 4]]. AList = [1, [2, 3, 4]].
20			Before: After M-3 < M-f7> /: AList = [[1, 2, 3, 4]]. AList = [1, 2, 3, [4]].

<u>Description</u>	<u>Keystroke</u>	Function	No	<u>ote</u>
Transform - slurp	The following commands perfe	orm slurping operations, ho	wever support for Erlang could be improved as the	e commands do not always work properly.
Enclose next outside element into current block •	ırrent	(sp-forward-slurp-sexp &optional ARG)	Add sexp following the current list in it by movin If the current list is the last in a parent list, extremed an extend a list or end of file). If ARG is N, apply this function that many time If ARG is negative -N, extend the opening pair If ARG is raw prefix C-u, extend all the way to If both the current expression and the express together. This command does not always work well for use the next command for Erlang in those	end that list (and possibly apply recursively until es. r instead (that is, backward). the end of the parent list. sion to be slurped are strings, they are joined r Erlang as shown in the first example.
		smartparens by itself fails to process these examples properly. PEL fixes the behaviour by using ability to post-process code to ensure correct syntax.	<pre>Before: Names = []Joe. Before: AList = [[1, 2, 3], 4, 5]. Before: AList = [1, 2, 3,</pre>	After <m-f7> >: Names = [Joe]. After <m-f7> >: AList = [[1, 2, 3, 4], 5]. After M <m-f7> >: AList = [1, 2, [3, 10,11,12,[22,33,44]], 5, 6, 7, 8,[]].</m-f7></m-f7></m-f7>
Enclose previous outside element(s) into next block • <u>X Smartparens</u> with smartparensmode active	<m-f7> <</m-f7>	(sp-backward-slurp- sexp &optional ARG)	Add the sexp preceding the current list in it by m If the current list is the first in a parent list, ext we can extend a list or beginning of file). If arg is N, apply this function that many times If arg is negative -N, extend the closing pair in If ARG is raw prefix C-u, extend all the way to If both the current expression and the express together.	end that list (and possibly apply recursively until
		The position of point inside the list does not matter. The point does not move. Before: Alist = [-2, -1, 0,	Before: AList = [0, 1, [2, 3], 4], 5]. Before: AList = [0, 1, [2, 3], 4], 5]. After C-u <m- 1,="" 3,="" 4],="" 5].="" [2,="" alist="[[-2,</th"><th>After <m-f7> <: AList = [0, [1, 2, 3, 4], 5]. After M-2 <m-f7> <: AList = [[0, 1, 2, 3], 4], 5]. ef7> <: -1, 0, 1, 2, 3, 4], 5].</m-f7></m-f7></th></m->	After <m-f7> <: AList = [0, [1, 2, 3, 4], 5]. After M-2 <m-f7> <: AList = [[0, 1, 2, 3], 4], 5]. ef7> <: -1, 0, 1, 2, 3, 4], 5].</m-f7></m-f7>
Enclose next element(s) into previous block •	<m-f7> }</m-f7>	(pel-sp-add-to- previous-sexp &optional ARG)	Add the expression around point to the first list p With ARG positive N add that many expressio If ARG is raw prefix argument C-u add all expression If ARG is raw prefix argument C-u C-u add the	preceding point. In some to the preceding list. It is ressions until the end of enclosing list to the ecurrent list into the previous
60 34		smartparens by itself fails to process these examples properly. PEL fixes the issues with post processing and wrapping function.	Before: AList = [0, 1, [2, 3], 4, 5]. Before: AList = [0, 1, [2, 3], 4, 5].	After <m-f7> }: AList = [0, 1, [2, 3, 4], 5]. After M-2 <m-f7> }: AList = [0, 1, [2, 3, 4, 5]].</m-f7></m-f7>
Enclose previous outside element(s) into next block •	<m-f7> {</m-f7>	(sp-add-to-next-sexp &optional ARG)	Add the expressions around point to the first list With ARG positive N add that many expressio If ARG is raw prefix argument C-u add all expression the following list. If ARG is raw prefix argument C-u C-u add the	ns to the following list. ressions until the beginning of enclosing list to
mode active		This command works fine in Erlang for the following code examples:	Before: AList = [1, 2, [3, 4]]. Before: AList = [1, 2, [3, 4]].	After <m-f7> {: AList = [1, [2, 3, 4]]. After C-u <m-f7> {: AList = [[1, 2, 3, 4]].</m-f7></m-f7>
			Before: AList = [[1, 2], [3, 4]].	After C-u C-u <m-f7> {: AList = [[[1, 2], 3, 4]].</m-f7>
Re-wrap block	Use the following commands	to change the wrapping cha	racter pair surrounding a block	
Re-wrap current block • <u>\sum \mathcal{X} \mathcal{S} \mathcal{S}</u>	<m-f7> r</m-f7>	(sp-rewrap-sexp PAIR &optional KEEP-OLD)	Re-wrap current block using another block chara • With C-u , keep old delimiter and wrap with P.	
with smartparens- mode active		This command works fine in Erlang for the following code examples:	AList = [[1, 2, 3, 4]]. Before:	After <m-f7> r {: AList = [{1, 2, 3, 4}] After C-u <m-f7> r {:</m-f7></m-f7>
Swap current block and	<m-f7> w</m-f7>	(sp-swap-enclosing-	AList = [[1, 2, 3, 4]]. Swap the enclosing delimiters of this and the pa	AList = [{[1, 2, 3, 4]}] rent expression.
parent block wrapping characters		sexp &optional ARG) This command works fine	With N > 0 numeric argument, ascend that ma Refore:	any levels before swapping. After <m-£7> w:</m-£7>
<u>∑x Smartparens</u> with smartparens- mode active			AList = $(\{[1, 2, 3, 4]\}).$	AList = ([{1, 2, 3, 4}]).
mode active			Before: AList = ({[1, 2, 3, 4]}).	After <m-f7> w: AList = [{(1, 2, 3, 4)}].</m-f7>
Un-wrap block				
Extract all elements from current/next block	<m-f7> U</m-f7>	(sp-unwrap-sexp &optional ARG)	Un-wrap current or next block. • With ARG N, unwrap Nth expression as return • If ARG is negative -N, unwrap Nth expression	, ,
<u>XX Smartparens</u> with smartparens- mode active		This command works fine in Erlang for the following code examples:	Before: AList = ({[1, 2, 3, 4]}).	After <m-f7> U: AList = [{1, 2, 3, 4}].</m-f7>
26		·	<pre>Before: AList = ({[1, 2, 3, 4]}).</pre>	After <m-f7> U: AList = ({1, 2, 3, 4}).</m-f7>
			After <m-f7> 4], 5, [6, 7], 8]. AList = [1,</m-f7>	2, 3, 4, 5, [6, 7], 8].
		Before: AList = [1, 2, 3,	After M-2 <m 4],="" 5,="" 7],="" 8].="" [6,="" alist="[1,</th"><th>I-f7> U: 2, [3, 4], 5, 6, 7, 8].</th></m>	I-f7> U: 2, [3, 4], 5, 6, 7, 8].

<u>Description</u>	<u>Keystroke</u>	Function		<u>No</u>	<u>ote</u>
Extract all elements from previous block	<m-f7> W</m-f7>	(sp-backward-unwrap- sexp &optional ARG)	Unwrap the previous block.	un.	
<u>* * * Smartparens</u> with smartparens- mode active		SEAP AUDITIONAL AND	Unwrap the previous expression. With ARG N, unwrap Nth expression as returned by 'sp-backward-sexp'. If ARG is negative -N, unwrap Nth expression forward as returned by 'sp-forward-sexp'.		
69			Before: AList = ({[1, 2, 3, 4]	}).	After <m-f7> W: AList = ({1, 2, 3, 4}).</m-f7>
		code examples:			Again After <m-f7> W: AList = (1, 2, 3, 4).</m-f7>
					Again After <m-f7> W: AList = 1, 2, 3, 4.</m-f7>
			<pre>Before: AList = [0, 1, [2, 3,</pre>	4], 5].	After <m-f7> W: List = [0, 1, 2, 3, 4, 5].</m-f7>
		Before: AList = [1, 2, [3, 4		After <m-f7> AList = [1,</m-f7>	W: 2, [3, 4], 5, 6, 7, 8].
		Before: AList = [1, 2, [3, 4		After M-2 <m AList = [1,</m 	(-f7> W: 2, 3, 4, 5, [6, 7], 8].
Split & Join					
Split block • ∑X Smartparens with smartparens-	<m-f7> </m-f7>	(sp-split-sexp ARG)	Split the list or string the point If ARG is a raw prefix C-u sp with delimiters of the current	olit all the sexps in	n current expression in separate lists enclosed
mode active	smartparens by itself fails to process the first of these examples properly.	<pre>Before: AList = [1, 2, [3, 4]</pre>		After <m-f7> AList = [1, 2</m-f7>	: 2, [3, 4], [5, 6, 7], 8].
	PEL fixes the issues with post processing.	<pre>Before: Name = "Joe Armstro</pre>	ong".		" "Armstrong".
		<pre>Before: AList = [1, 2, [3, 4]</pre>		After C-u <m AList = [1, 2</m 	- f7> : 2, [3], [4], <mark> </mark> [5], [6], [7], 8].
Join blocks • <u>§ </u>	<m-f7> J</m-f7>	(sp-join-sexp &optional ARG) Join the blocks before and after point if they are of the same type. If ARG is positive N, join N expressions after the point with the one before the point. If ARG is negative -N, join N expressions before the point with the one after the point. If ARG is a raw prefix C-u join all the terms up until the end of current expression. The joining stops at the first expression of different type.			
		Before: AList = [0, 1, [2, 3	3, 4] <mark>, [5, 6], 7].</mark>	After <m-f7> AList = [0,</m-f7>	J: 1, [2, 3, 4], 5, 6], 7].
		Before: AList = [[0, 1], [2	2, 3, 4], [5, 6], 7].	After M-2 <m AList = [[0,</m 	I-f7> J: , 1 , 2, 3, 4, 5, 6], 7].
Search Support		d mode can be useful since snake case is often used. Using superword-mode helps searching. d mode by default in Erlang mode. To change this use the <f11> t <f2> to access the customize buffer.</f2></f11>			
Toggle superword- mode	<f12> M-p</f12>	(superword-mode &optional ARG)	Toggle superword-mode: a mir In Erlang, '_' are then treated		
• <u>∑ Text Modes</u> • <u>∑ Search/Replace</u>	• <f11> t m p • <f11> SPC e M-p</f11></f11>	aoptional And)			mode if ARG is positive, disable it otherwise.
Highlighting blocks	show-paren-mode, which h	ighlights the parens that ma	e useful modes to highlight block tches the one before or after points are highlighted with the same	int.	
Toggle show-paren mode on/off	• <f12> M-9 • <m-f12> M-9</m-f12></f12>	(show-paren-mode &optional ARG)	Toggle visualization of matching parens (Show Paren mode). With a prefix argument ARG, enable Show Paren mode if ARG is positive, and disa otherwise. Show Paren mode is a global minor mode. When enabled, any matching parenthe highlighted in 'show-paren-style' after 'show-paren-delay' seconds of Emacs idle		
See also: <u>Neighlight</u>	• <f11> h (• <f11> SPC e M-9</f11></f11>				
Toggle colouring of nested blocks See also: <u>Neighlight</u>	• <f12> M-r • <m-f12> M-r</m-f12></f12>	(rainbow-delimiters- mode &optional ARG)	Customize the depth and co	lours with M-x cu	ces with colours according to their depth. Istomize-group rainbow-delimiters by pel-use-rainbow-delimiters.
	• <f11> h R</f11>				7
Edit Erlang Code	The following commands help		0 1 1		
Create additional clause	C-c C-j	(erlang-generate-new- clause)	containing the name, a pair of	name of the current of parentheses, ar	ent Erlang function. Create the header nd an arrow. The space between the function The point is placed between the parentheses.
Clone clause arguments	С-с С-у	(erlang-clone- arguments)	Insert, at the point, the argume • Copy the function arguments defining a new clause with a • The mark is set at the beginn	s of the preceding Imost the same ar	Erlang clause. This command is useful when rgument as the preceding.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>	
Insert Erlang Code	The erlang.el external packag	e defines a set of text skele	tons, available on the Erlang/Skeletons menu (via <f10>)</f10>	
with Specialized Tempo Skeletons	· ·	ert the templates, all mappe	ed under the pel:erlang-skel key prefix: <f12></f12> <f12></f12> .	
Erlang Style	Several aspects of the	e PEL Erlang Source Code S	h a +. These are also added to the menu. Style is controlled by the user options inside the pel-erlang-code-style group. The controlled	
Control -	templates affected are marked with a C. The relevant user options are part of the pel-erlang-code-style group accessible with <f12> <f2> terlang mode buffer and include the following options:</f2></f12>			
	pel-erlang-skel-inserpel-erlang-skel-prom	pt-for-purpose	: set whether an automatically updated timestamp is inserted in the file header block. : set whether file and function skeletons blocks prompt for purpose and insert it.	
See also: •		pt-for-function-arguments	: set whether function skeletons prompt for function name and then inserts that name. s : set whether function skeletons prompt for function arguments and then insert them.	
more info and information about	pel-erlang-use-separpel-erlang-use-secor	dary-separators	: set whether blocks use horizontal separator lines (these are the first of potentially 2 separators). : set whether blocks use a second block horizontal separator line.	
tempo skeleton and the completely	pel-erlang-skel-with-pel-erlang-skel-with-		: set whether generated code comments use EDoc markup. : set whether file header blocks use open source software license text controlled by dice.	
different <u>yasnippet</u> template-based text	Emacs user options by	default take effect globally.	But by using file and directory variables (see File/Directory Variables) they can also be used	
insertion).	If you want to change the the PEL tempo templates This allows you to control	behaviour for only one file, we for all files inside a directory the user options affecting the control of the	ory tree. So by default, the user options that control the PEL tempo template take effect globally. write the user option control block at the end of that file. If you want to control the behaviour of v tree create a .dir-locals file and store the values of the relevant options variables inside that file. The format of the tempo templates precisely and does not affect what you actually type. In the pel-tempo-mode) you can move to the next or previous point of interest (so called tempo-	
+ : additional templates C : templates with	marks) with the standard	tempo-mode keys C-c M-	-f and C-c M-b or some other keys like C-c . and C-c ,.	
customization control			an also type the template name and then hit C-c C-M-i or <f12> <f12> <f12>. This orary buffer. This is mainly useful for templates which short names such as "if", "case", etc</f12></f12></f12>	
	Some of the template nam		so links to the relevant Erlang language construct reference page.	
∑ Customize PEL Erlang Skeletons layout	<f12> <f12> <f2></f2></f12></f12>	(pel-customize-pel &optional OTHER- WINDOW)	 Customize PEL Erlang skeleton layout. If OTHER-WINDOW is non-nil (use C-u), display in another window. 	
if	<f12> <f12> i</f12></f12>	(pel-erl-if)	Insert an if statement.	
case	<f12> <f12> c</f12></f12>	(pel-erl-case)	Insert a case expression.	
export +	<f12> <f12> x</f12></f12>	(pel-erl-export	Insert an export module attribute expression.	
import +	<f12> <f12> I</f12></f12>	(pel-erl-import)	Insert an import module attribute expression.	
<u>try</u> +	<f12> <f12> t</f12></f12>	(pel-erl-try)	Insert a try expression.	
try-of +	<f12> <f12> T</f12></f12>	(pel-erl-try-of)	Insert a try expression with of clauses.	
receive	<f12> <f12> r</f12></f12>	(pel-erl-receive)	Insert a receive expression.	
after	<f12> <f12> a</f12></f12>	(pel-erl-after)	Insert a receive expression with an after (timeout) clause.	
loop	<f12> <f12> 1 (pel-erl-loop)</f12></f12>		Insert a simple receive loop.	
<u>module</u>	<f12> <f12> m (pel-erl-module) Insert the module attribute.</f12></f12>			
<u>function</u> C			Insert a function definition. This may prompt for function name, argument and purpose according to the user options described above. All prompts maintain independent histories.	
author	<f12> <f12> ` (pel-erl-author)</f12></f12>		Insert the author attribute. Uses the user-mail-address user option to insert your mail address	
spec	<f12> <f12> s</f12></f12>	<f12> s (pel-erl-spec) Insert a -spec for the function following point.</f12>		
small-header C	<f12> <f12> M-h</f12></f12>	(pel-erl-small-header)	Insert a small file header without any comment.	
normal-header C	<f12> <f12> M-H</f12></f12>	(pel-erl-normal-header)	Insert a normal file header: includes author name, copyright notice, doc section, file created date	
large-header C	<f12> <f12> h</f12></f12>	(pel-erl-large-header) Insert a large header block that includes all normal header fields plus separators • User-options control the format. Distinguish Erlang .erl module files from the .l		
small-server C	<f12> <f12> M-s</f12></f12>	(pel-erl-small-server)	Insert a large file header and template logic for a small server.	
application C supervisor C	<f12> <f12> M-a</f12></f12>	(pel-erl-application)	Insert a large file header and template logic for an <u>application behaviour</u> .	
supervisor C supervisor-bridge C	<f12> <f12> M-u <f12> <f12> M-b</f12></f12></f12></f12>	(pel-erl-supervisor)	Insert a large file header and template logic for a <u>supervisor behaviour</u> . Insert a large file header and template logic for a <u>supervisor bridge behaviour</u> .	
supervisor-bridge	(112) (112) M-D	bridge)	insert a large me neader and template logic for a <u>supervisor bridge benaviour</u> .	
generic-server C	<f12> <f12> M-g</f12></f12>	(pel-erl-generic-server)	Insert a large file header and template logic for a gen-server behaviour.	
gen-event C	<f12> <f12> M-e</f12></f12>	(pel-erl-gen-event)	Insert a large file header and template logic for a gen-event behaviour .	
gen-statem-StateName	<f12> <f12> M-f <f12> <f12> M-S</f12></f12></f12></f12>	(pel-erl-gen-statem-	Insert a large file header and template logic for a gen-fsm behaviour . Insert a large file header and template logic for a gen-statem behaviour .	
C gen-statem-handle-	<f12> <f12> M-E</f12></f12>	StateName) (pel-erl-gen-statem-	Insert a large file header and template logic for a gen-statem.	
event C wx-object C	<f12> <f12> M-w</f12></f12>	handle-event) (pel-erl-wx-object)	Insert a large file header and template logic for a wx-object generic server.	
gen-lib C	<f12> <f12> M-W</f12></f12>	(pel-erl-gen-lib)	Insert a large file header and template logic for a library module.	
gen-corba-cb C	<f12> <f12> M-c</f12></f12>	(pel-erl-gen-corba-cb)	Insert a large file header and template logic for a CORBA callback module.	
ct-test-suite-s	<f12> <f12> M-1</f12></f12>	(pel-erl-ct-test-suite-s)	Insert a large file header and template logic for a test suite	
ct-test-suite-l	<f12> <f12> M-2</f12></f12>	(pel-erl-ct-test-suite-l)	Insert a large file header and template logic for a test suite	
ts-test-suite	<f12> <f12> M-3</f12></f12>	(pel-erl-ts-test-suite)	Insert a large file header and template logic for a test suite	
Tempo Template Tag Insertion	• C-c C-M-i • <f12> <f12> <f12></f12></f12></f12>	(tempo-complete-tag &optional SILENT)	Look for a tag and expand it. Instead of using the <f12> <f12> key bindings above, type the template name and then hit C-c C-M-i. (or <f12> <f12> <f12>).</f12></f12></f12></f12></f12>	
Toggle pel-tempo-mode		(pel-tempo-mode &optional ARG)	Toggle PEL tempo mode on/off. PEL tempo mode activates C-c . and C-c , as well as C-c C and C-c C-, key bindings to navigate across tempo mark hot-spots. When pel-	
See also: •	• <f11> SPC e <f12> SPC</f12></f11>	·	tempo-mode is active the pel-tempo-mode lighter (‡) is shown on the status bar. The second set are only available when Emacs runs in graphics mode.	
	• <f6> SPC</f6>		When a skeleton is inserted via the execution of one of the pel-erl commands above, the pel-tempo-mode is automatically activated.	
			10	

Description	<u>Keystroke</u>	Function	<u>Note</u>
Jump to next tempo	• C-c M-f	(tempo-forward-mark)	Jump to the next mark in 'tempo-back-mark-list': the location where code must be updated
mark	• C-c . • C-c C		 inside the inserted skeleton. These key key bindings are only available when pel-tempo-mode is active.
Jump to previous tempo mark	• C-c M-b • C-c , • C-c C-,	(tempo-backward- mark)	Jump to the previous mark in 'tempo-back-mark-list': the location where code must be updated inside the inserted skeleton. • These key binding are only available when pel-tempo-mode is active.
Specialized Kill See also: • <u>∑ Cut & Paste</u> • <u>∑ x Smartparens</u>	Activate smartparens mode This table uses the ☒ and ⟨☒ := "forward delete" := ⟨☒ := "backward delete":	manually with <f11> ((Substitute Substitute Substitu</f11>	
kill block elements	The following commands kill th	ne element(s) of a block.	
Kill content of next block	• <m-f7> ☒> • <m-f7> - n</m-f7></m-f7>	(sp-change-inner)	Change the content of current or next block. Point can be anywhere in block or element before block.
• <u>∑</u> x Smartparens			Sefore: After:
Delete content of current block • <u>X</u> Smartparens	<m-f7></m-f7>	(sp-change-enclosing)	Delete content of the enclosing block. Point can be anywhere inside the current block. Before: {'EXIT', Reason} -> {error, { asn1, Reason}}; {error, { }};
Kill block elements forward	<m-f7> -]</m-f7>	(sp-kill-sexp &optional ARG DONT-KILL)	<pre>Kill block elements after point. Before: case Tlv9 of [] -> true;> exit({error, {asn1, {unexpected, Tlv9}}})</pre>
∑X Smartparens			After: case Tlv9 of [] -> true;> exit({error, })
Kill block elements backward • ∑X Smartparens	<m-f7> - [</m-f7>	(sp-backward-kill-sexp &optional ARG DONT- KILL)	<pre>Kill block elements before point. Before: case Tlv9 of [] -> true;> exit({error, {asn1, {unexpected, Tlv9}}})</pre>
			After: <pre>case Tlv9 of [[] -> true;> exit({ {asn1, {unexpected, Tlv9}}})</pre>
Kill element after current	<m-f7> - }</m-f7>	(sp-kill-hybrid-sexp ARG) • With ARG being raw pre	Kill a line as if with 'kill-line', but respecting delimiters.
• <u>∑X Smartparens</u>		With ARG numeric prefix	x 0 (zero) just call 'kill-line'. Dehaviour of this command by toggling 'sp-hybrid-kill-excessive-whitespace'.
Kill whole line	<m-f7> - 1</m-f7>	(sp-kill-whole-line)	⚠ Currently this deletes the whole line. Requires Erlang specific implementation.
Kill/splice			
Un-wrap current block, splicing its elements in enclosing block • <u>Sx Smartparens</u>	<m-f7> 1 1</m-f7>	(sp-splice-sexp &optional ARG)	Un-wrap current block, splicing its content in enclosing block (if any). Before: { EncBytes,EncLen} = 'enc'(Cdx, []), EncBytes,EncLen = 'enc'(Cdx, []), Before: -asn1_info([{vsn,'2.0.1'}, {module,'ELDAPy3'}, {options,{{i,"src"},{ outdir,"src"},noobj,{{i,"."},{i,"asn1"}}}]). After: -asn1_info(
			[{vsn,'2.0.1'}, {module,' <u>ELDAPv</u> 3'}, {options,[{i,"src"}, outdir,"src",noobj,{i,"."},{i," <u>asn</u> 1"}]}]).
Kill block element(s) before point and splice remaining into outer block	<m-f7> 1 [</m-f7>	(sp-splice-sexp-killing- backward &optional ARG)	Kill elements before point in block and splice remaining elements into outer block. Before: case Tlv9 of [] -> true; -> exit({error, {asn1, {unexpected, Tlv9}}}) After:
• <u>∑</u> X Smartparens			<pre>case Tlv9 of [] -> true; -> exit({error,{asn1, Tlv9}})</pre>
Kill block element(s) forward and splice remaining into outer block • ∑x Smartparens	<m-f7> 1]</m-f7>	(sp-splice-sexp-killing- forward &optional ARG)	Kill elements after point in block and splice remaining elements into outer block. Before: case Tlv9 of [] -> true; -> exit({error, {asn1, {unexpected, Tlv9}}}) After: case Tlv9 of
			[] -> true; -> exit({error,{asn1, unexpected }})
Kill around element	<m-f7> 1 o</m-f7>	(sp-splice-sexp-killing- around &optional ARG)	Kill content around current element/block. Before:
• <u>∑</u> x Smartparens			-asn1_info([{vsn,'2.0.1'},
Delete char	The standard keys to delete pr	otect deletion of balanced	{options, {outdir, "src"},}]). pairs but also allow deletion of marked areas regardless of the block pairs.
Delete char	o otandara keys to delete pr	case deletion of balanced p	sales sale allow allow a solution of markou arous regardless of the blook palls.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
character - forward	⊗	(pel-sp-delete-char &optional <u>ARG</u>)	Delete following N characters (previous if N is negative). N defaults to 1. Does not delete only one side of a balanced pair block: instead move into the block and delete its content until it is empty. When the block is empty the command deletes both block characters. If an area is marked, deletes the area, regardless of the presence of blocks, even if the resulting text would lead to unbalanced pairs. It also ignores the prefix argument and always deletes the marked area. It also ignores the state of delete-selection-mode. Execute 'sp-delete-char' if no area marked, otherwise delete marked area.
Delete character - backward	• DEL	(pel-sp-backward- delete-char &optional ARG)	Deletes character before cursor (deletes backward), replaces hard tab with spaces as required. Does not delete only one side of a balanced pair block: instead move into the block and delete its content until it is empty. When the block is empty the command deletes both block characters. If an area is marked, deletes the area, regardless of the presence of blocks, even if the resulting text would lead to unbalanced pairs. It also ignores the prefix argument. With arguments: positive numeric argument: kill that many characters backward negative numeric argument: kill that many characters forward Execute 'sp-delete-char' if no area marked, otherwise delete marked area.
Delete char But do not delete marked areas that contain balanced pairs.	The forward and backward Note that these will not This can be quite annotation.	delete keys do the same wh accept to delete or kill a reg yying if you want to delete la	is that delete forward and backward without breaking blocks. It is that delete forward and backward without breaking blocks. It is that contains balanced pairs even if the region contains the two sides! It is a reas of code. It is a reas of code and backwards keys commands that use smart-parens delete as long as the area is not marked.
Delete char forward	<m-f7> DEL n</m-f7>	(sp-delete-char &optional ARG)	Delete a character forward or move forward over a delimiter. If on an opening delimiter, move forward into balanced expression. If on a closing delimiter, refuse to delete unless the balanced expression is empty, in which case delete the entire expression. If the delimiter does not form a balanced expression, it will be deleted normally. With a numeric prefix argument N > 0, delete N characters forward. With a numeric prefix argument N = 0, simply delete a character forward, without regard for delimiter balancing. If ARG is raw prefix argument C-u, delete characters forward until a closing delimiter whose deletion would break the proper pairing is hit. (quu x "zot") -> (quu "zot") (quux "zot") -> (quux " zot") -> (quux " ot") (foo () bar) -> (foo bar) (foo bar) -> (foo bar)
Delete char backward	<m-f7> DEL p</m-f7>	(sp-backward-delete- char &optional ARG)	Delete a character backward or move backward over a delimiter. • It has the same description as the above command but goes backward instead of forward. ("zot" quux) -> ("zot" uux) ("zot" quux) -> ("zot " quux) -> ("zo " quux) (foo () bar) -> (foo bar) (foo bar -> (foo bar)
Delete/Kill region	These may be useful inside Note that these will not a This can be quite annotation.	keyboard macros when dele accept to delete or kill a reg bying if you want to delete la	is the deletion would not create unbalanced blocks. eting text in area where several balanced and nested blocks are present. ion that contains balanced pairs even if the region contains the two sides! areas of code. I and backwards keys commands that use smart-parens delete as long as the area is not marked.
Delete region	<m-f7> DEL -</m-f7>	(sp-delete-region BEG END)	Delete the text between point and mark, like 'delete-region'. • BEG and END are the bounds of region to be deleted. • If that text is unbalanced, signal an error instead. • With a prefix argument, skip the balance check.
Kill region	<m-f7></m-f7>	(sp-kill-region BEG END)	Kill the text between point and mark, like 'kill-region'. • BEG and END are the bounds of region to be killed. • If that text is unbalanced, signal an error instead. • With a prefix argument, skip the balance check.
 Delete/Kill word 	These commands complemen	ts the standard word kill co	mmands normally available with shorter key bindings. See <u>Example 2018 Cut & Paste</u>
Delete word backward	<m-f7> DEL v</m-f7>	(sp-backward-delete- word &optional ARG)	(sp-backward-delete-word &optional ARG) • Delete a word backward, skipping over intervening delimiters. • Deleted word does not go to the clipboard or kill ring. • With ARG being positive number N, repeat that many times. • With ARG being Negative number -N, repeat that many times in backward direction.
Delete word forward	<m-f7> DEL w</m-f7>	(sp-delete-word &optional ARG)	Delete a word forward, skipping over intervening delimiters. Deleted word does not go to the clipboard or kill ring. With ARG being positive number N, repeat that many times. With ARG being Negative number -N, repeat that many times in backward direction.
Kill word backward	<m-f7> - v</m-f7>	(sp-backward-kill-word &optional ARG)	 Kill a word backward, skipping over intervening delimiters. With ARG being positive number N, repeat that many times. With ARG being Negative number -N, repeat that many times in backward direction.
Kill word forward	<m-f7> - w</m-f7>	(sp-kill-word &optional ARG)	Kill a word forward, skipping over intervening delimiters. With ARG being positive number N, repeat that many times. With ARG being Negative number -N, repeat that many times in backward direction.
 Delete/Kill symbol 			or what constitutes a symbol for the backward and forward commands respectively. ete commands normally available with shorter key bindings. See <u>Cut & Paste</u>
Delete symbol backward	<m-f7> DEL a</m-f7>	(sp-backward-delete- symbol &optional ARG WORD)	Delete a symbol backward, skipping over any intervening delimiters. • Deleted symbol does not go to the clipboard or kill ring. • With ARG being positive number N, repeat that many times. • With ARG being Negative number -N, repeat that many times in forward direction.
Delete symbol forward	<m-f7> DEL s</m-f7>	(sp-delete-symbol &optional ARG WORD)	Delete a symbol forward, skipping over any intervening delimiters. Deleted symbol does not go to the clipboard or kill ring. With ARG being positive number N, repeat that many times. With ARG being Negative number -N, repeat that many times in backward direction.
Kill symbol backward	<m-f7> - a</m-f7>	(sp-backward-kill- symbol &optional ARG WORD)	Kill a symbol backward, skipping over any intervening delimiters. With ARG being positive number N, repeat that many times. With ARG being Negative number -N, repeat that many times in forward direction.
Kill symbol forward	<m-f7> - s</m-f7>	(sp-kill-symbol &optional ARG WORD)	Kill a symbol forward, skipping over any intervening delimiters. • With ARG being positive number N, repeat that many times. • With ARG being Negative number -N, repeat that many times in backward direction.

Description	<u>Keystroke</u>	Function	<u>Note</u>	
Erlang syntax checking	 Syntax checking for the Erlang programming language can be done with Emacs built-in <u>flymake</u> as well as with the <u>pl-use-erlang-syntax-check</u> user option is set to either 'use-flycheck or 'use-flymake. By default, the syntax checker is not automatically launched. If you want to start your selected syntax checker as soon as any Erlang file is opened, add 'erlang-mode to the <u>pel-modes-activating-syntax-check</u> user-option. 			
Using either: • flycheck or • flymake	• flymake is built-in Emacs. The Emacs erlang package provides erlang-flymake to use with Erlang. • flymake is built-in Emacs. The Emacs erlang package provides erlang-flymake to use with Erlang. • Let PEL automatically installs and activates flycheck when pel-use-erlang-syntax-check user option is set to 'use-flycheck. Elymake has several customizable variables, which some listed here: The following customization variables determine the exact circumstances whereupon Flymake decides to initiate a check of the buffer:			
See also: • <u>SyntaxCheck</u>	flymake-start-on-flymake- flymake-no-changes-time flymake-start-syntax-check	-mode: t to start checking out: time to wait after last c ck-on-newline: t to check a	when flymake-mode is started. nil to prevent check. change to start checking. Default = 0.5 seconds. after insertion or removal of newline char from buffer. nil to prevent check.	
	The following variable control navigation to next or previous error: • flymake-wrap-around: If non-nil, moving to errors wraps around buffer boundaries. • flymake-diagnostic-types-alist: Alist ((KEY . PROPS)*) of properties of Flymake diagnostic types. See Emacs documentation for more info. The M-n and M-p keys are mapped to flymake commands only when flymake-mode is turned on.			
Activate/deactivate	<f12> !</f12>	(pel-erlang-toggle-	Toggle the selected Erlang syntax checker mode on/off.	
selected syntax checker	<f11> SPC e !</f11>	syntax-checker)	The syntax checker activated or deactivated is either flycheck or flymake, as selected by the user-option variable 'pel-use-erlang-syntax-check'. See the required settings above to activate this command and select the syntax checker.	
Go to next flymake diagnostic	M-n	(flymake-goto-next- error &optional N FILTER INTERACTIVE)	Move point to the next Flymake diagnostic. • With a prefix arg, skip any diagnostics with a severity less than ':warning'. • Display the error message in the echo line.	
Go to previous flymake diagnostic	М-р	(flymake-goto-prev- error &optional N FILTER INTERACTIVE)	Move point to the previous Flymake diagnostic. • With a prefix arg, skip any diagnostics with a severity less than ':warning'. • Display the error message in the echo line.	
Compiling Erlang Code		ned to compile the files. The	ce code files to .beam files located in the same directory as the source code. Detected errors are e buffer shows the location of error and the error description. The following commands are used	
Compile code	• C-c C-k • <f12> M-c • <m-f12> M-c</m-f12></f12>	(erlang-compile)	Compile Erlang module in current buffer. • If buffer visiting file was modified and not saved, prompts the user to save it first. • Opens and *erlang* shell, in which the Erlang compile is done with a eshell c() command. • The buffer lists the errors. Hitting RET on the error file/line move point to that line in the Erlang file buffer. The RET key is bound to (compile-goto-error &optional EVENT) • It's also possible to use the next-error and previous error.	
Display compilation output	C-c C-1	(erlang-compile-display)	Display compilation output. • Essentially opens the shell buffer where the last compilation occurred. If that shell was closed nothing can be displayed.	
Move to next compile error	• C-x • M-g n • M-g M-n	(next-error &optional ARG RESET)	A prefix ARG specifies how many error messages to move; • negative means move back to previous error messages. • Just C-u as a prefix means reparse the error message buffer and start at the first error. This only shows the result of compilations; it does not report Flycheck reported errors. To use it you must compile the file first.	
Move to previous compile error	• M-g p • M-g M-p	(previous-error &optional N)	Prefix arg N says how many error messages to move backwards (or forwards, if negative). This only shows the result of compilations; it does not report Flycheck reported errors. To use it you must compile the file first.	
Move to next compilation or Flycheck detected error	C-c C-n	(edts-code-next-issue &optional WRAPPED)	Moves point to the next error in current buffer and prints the error. When Flymake is active, this command can be used as soon as an error is reported, even if the file was not compiled.	
Move to previous compilation or Flycheck detected error	C-c C-p	(edts-code-previous- issue &optional WRAPPED)	Moves point to the next error in current buffer and prints the error. When Flymake is active, this command can be used as soon as an error is reported, even if the file was not compiled.	
Development Tool	The following commands are u	used when adding Emacs Li	sp support for Erlang.	
Show syntactic information	C-c C-s	(erlang-show-syntactic-information)	Show syntactic information for current line. • Display semantic Lisp data structure in the echo line. Not useful for writing Erlang.	
Erlang Shell	Commands to explicitly launch comint.el library running in erla		that runs under an Emacs inferior-erlang process controlled by the comint mode from the	
Open Erlang Shell	C-c C-z	(erlang-shell-display)	Display the existing Erlang shell, or start a new. Available from Erlang mode buffers only.	
Start new Erlang Shell	<f11> z r e</f11>	(erlang-shell)	Start a new Erlang shell. Can be used from any buffer. • The variable 'erlang-shell-function' decides which method to use, default is to start a new Erlang host. It is possible that, in the future, a new shell on an already running host will be started.	
	<f12> z</f12>		C−c C−z starts the Erlang Shell from the Erlang Mode. <f11> z r is available globally and will work as long as the erl executable is accessible. Under PEL this command is available only when the pel-use-erlang user option is set to t.</f11>	
Work around to issues in the Erlang Shell	When running the Erlang Shell inside Emacs, you may run into some issues. They are listed here along with work-arounds. • Redundant command echo: On some systems the Erlang shell annoyingly echoes each typed command. If this is the case for your system, PEL provides a fix: Set the pel-erlang-shell-prevent-echo user option to t. After doing that execute pel-init or restart Emacs. • Typing Ctrl-G does not open the Erlang JCL Command Menu: work-around: type the following instead: C-q C-g RET Unfortunately the above workaround does not work when the Erlang shell is launched inside an Emacs vterm shell (see ∑ Shells).			
Erlang Shell: Command History	The following commands can be used to retrieve previously issued Erlang shell commands at the shell prompt. Erlang shell command history file: The Erlang shell history controlled by Emacs is saved inside a file the is restored when opening a new shell: commands from previously opened Erlang shells are also available. Within an Emacs inferior-erlang the You can also use the Erlang shell commands to access the local shell history.			
Next shell command	M-n (comint-next-input ARG) Cycle forwards through Erlang shell input history.			
	M-n	(commence input / tra)	System and an arrangement and arrangement arrangement and arrangement arrangement and arrangement arra	

Description	<u>Keystroke</u>	Function	<u>Note</u>
Using Man inside Emacs and support Erlang Man pages	They are: The man command uses WoMan: Browse Unix M	re powerful than the usual not the system man utility	nan reader available on the shell allowing navigation across man pages and opening hyperlinks. Man" a complete implementation. It has some formatting limitations compared to man but it's
See also: <u>Nelp/Info</u>	To see Erlang man pages using the man command: On most systems the Man pages for Erlang are not available to the man utility and therefore not available for man inside Emacs. There are several ways this can be remedied: One is to set the MANPATH environment variable to include the directory where these files are located. Then man can be used outside and inside Emacs to access Erlang's man pages. For example the following lines can be stored inside a shell script to do this: MANPATH=/usr/local/Cellar/erlang/22.3.4/lib/erlang/man: `manpath` export MANPATH Another way is to customize the Emacs Man-switches user option variable to something that includes the same directory. This will add the capability of Emacs man to fin the Erlang's man pages without modifying the capabilities of the parent shell. For example, if we want to use the same directory as the above example we need to set the Man-switches which is normally set to nil to the following value: "-M`manpath`:/usr/local/Cellar/erlang/22.3.4/lib/erlang/man"		
	shells that have their own access to the man pages MANPATH and therefore	value of MANPATH. That m of different versions of Erlar providing the man pages from n's ability to view several pages	ctories for the man pages of other programming languages while leaving the ability to have several hight be very useful for someone that uses different versions of Erlang in a system and needs ago. It becomes possible to run different shells inside Emacs with each having its own value of m different locations. It is also possible to place all of these directories inside the Man-switches or ges for the same topic.
	When learning Erlang it might help to see only Erlang topics when using the man command completion. To do that, set MANPATH to the Erlang man directory only. You must also ensure that a whatis file is located in the Erlang man page root directory, otherwise Emacs man completion will not work See my description on how to create whatis file for local man directory.		
	EDTS (see below) suppor	ts the ability to download an cess sections inside the ma	f Erlang used by various projects: d access man pages of several Erlang versions, tied to your Erlang projects. EDTS provides it's ne pages, allowing EDTS driven man page access to co-exist with manual man command
About Erlang	PEL supports multiple versions of Erlang and access to their man pages Inside the pel-erlang-environment group, the pel-erlang-man-parent-rootdir user-option can be set to read the man parent directory name from an environment variable. To support the ability to open the man files related to a specific version of Erlang available to the parent OS shell, set the environment variable when you select the version of Erlang available to the OS shell and set the name of the environment variable in the pel-erlang-man-parent-rootdir user-option. See the following Installing Erlang pages of the About Erlang document that describes an setting such an editing environment: Install Erlang OTP Documentation and Man Files Creating whatis files for Erlang man pages Using the Erlang Man files within Emacs Using Specialized OS Shells for Erlang Using PEL with Specialized Shells for Erlang to Edit Erlang		
See also: <u>▼ Menus</u>	Use the following commands • You can also use the toolba		e inside Emacs. th <f10>) in the Erlang section.</f10>
Open a man page inside an Emacs buffer See also: •	• <f11> ? m • 光-M</f11>	(man MAN-ARGS)	Using man pages inside emacs is even better than using it from the shell because: • the links are active and can be followed. When the man page describes a directory or file, emacs will open the file or the directory (in direct mode) when pressing RET over the link. • You can navigate easily between sections (n/p will move to the next/previous section) • You can use any of the searches. • You can use any of the options to the man command at the prompt, like the -a option to access all man pages of the same name. Then use M-n and M-p to move from one to the other page, inside the same buffer. • See all keys available in mode, with <f1> m or <f11>? k m. • The man command prompts, using the word at point as the default. • PEL key sequence to customize man: <f11> <f2> E m</f2></f11></f11></f1>
Open a man page without external man process: woman •	<f11> ? w</f11>	(woman &optional TOPIC RE-CACHE)	Open a man page file in Emacs using the woman mode, completely implemented in Emacs Lisp (and therefore without using the external 'man' process). That can be very useful under environments where man is not available (such as basic Windows). PEL key sequence to customize man: <f11> <f2> E w text width, use word at point, etc</f2></f11>
Show Manual page for Erlang function at point	• C-c C-d • <m-f12> M-d</m-f12>	(erlang-man-function- no-prompt)	Find manual page for the function under the cursor. The man entry for 'function' is displayed. This function provides the same functionality as erlang-man-function except for that it does not ask the user to confirm the function name before opening the man page for the function.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>	
EDTS	EDTS - Erlang Developm	nent Tool Suite		
	The commands in the following rows require the EDTS external package. PEL activates it when the pel-use-edts user option is set to t.			
	I ▲		n an Erlang file, set pel-use-edts to start-automatically instead of t . eck the ~/.emacs.d/elpa/edts-XXX directory. It should contain a _build sub-directory created by	
	the Makefile. If that does not exists, open a shell that has access to Erlang, cd to ~/.emacs.d/elpa/edts-XXX and type make to build what is missing. • See EDTS issue 145 .			
Erlang Project settings				
	 EDTS is customizable through it edts customization group. With PEL, you can access it by typing <f12> <f3> from an Erlang buffer, or <f11> SPC e <f3> from any other buffer) and type character t</f3></f11></f3></f12> 			
	identified edts. • EDTS also uses an extern	nal .edts configuration file to	o store Erlang project specific settings. See EDTS: Configure your projects. This allows setting	
See also: Sessions	the following: project name, node-name, erlang-cookie, lib-dirs, start-command, top-path, dialyzer-plt, app-include-dirs, project-include-dirs, error-whitelist, xref-file-whitelist			
Jee also. <u>// Jessions</u>			ctive on session stored: unfortunately edts does not provide a desktop restore handler.	
	EL does, however provi	de a desktop restore handle	er for EDTS which detects edts-mode failures and protect the desktop restoration.	
	► If EDTS has not been activa	ated yet, the only EDTS spe	cific key available is <f12> M-E to activate it. Once it's activated the other keys are available.</f12>	
Toggle EDTS mode	<f12> M-E</f12>	(edts-mode &optional	Turn EDTS mode on or off.	
	<f11> SPC e M-E</f11>	ARG)	 EDTS is an easy to set up Development-environment for Erlang. EDTS also incorporates a couple of other minor-modes, currently auto-highlight-mode and auto-complete-mode. They are configured to work together with EDTS but see their respective documentation for information on how to configure their behaviour further. 	
EDTS/Navigation			cross Erlang functions: ferl-goto-previous-function and ferl-goto-next-function. They are listed	
	above in the navigation section commands and key bindings to See the commands listed in the	o move across Erlang funct	ctions do not support repetition prefix argument nor they support shift marking. There are other ions, and PEL support functions that perform the same and support repetition and shift marking.	
EDTS/Cross References			It supports navigating in Erlang source code running in the current and remote nodes. e in erlang-mode. Their global equivalent is <f11> SPC e</f11> . It is not always shown for brevity.	
Find definition of identifier at point	M	(edts-find-source- under-point)	Goto the source code that: defines the function being called at point or header file included at point. For remote calls, contacts an Erlang node to determine which file to look in, with the	
			following algorithm: • Find the directory of the module's beam file (loading it if necessary).	
			Look for the source file in:	
			Directory where source file was originally compiled. Todo: Same directory as the beam file. Todo: Aspin with (bink replaced with (org.).	
			Todo: Again with /ebin/ replaced with /src/ Todo: Again with /ebin/ replaced with /erl/	
Go back to where M	м-,	(edts-find-source-	Otherwise, report that the file can't be found. Unwind back from uses of 'edts-navigate'-commands.	
was last issued Lists caller of function		unwind)	Č	
at point	• C-c C-d w • <f12> w</f12>	(edts-xref-who-calls)	Pops-up a menu of all callers of the function at point.	
List the callers again	• C-c C-d W • <f12> W</f12>	(edts-xref-last-who- calls)	Redo previous call to edts-who-calls.	
Find a function in the current module	• C-c C-d f • <m-f12> M-f</m-f12>	(edts-find-local- function SET-MARK)	 Find a function in the current module. List local functions in the mini-buffer. Support completion. Move point to selected one. With C-u prefix, push mark before moving point. 	
Find a module in the current project	• C-c C-d F • <m-f12> M-g</m-f12>	(edts-find-global- function)	Find a module in the current project. • List project modules in the mini-buffer. Support completion. Open the file of selected one.	
EDTS/AHS Editing		atic symbol highlighting modules to 1.0 second.	S) and provides commands to modify the name of the highlighted name in the current function or de starts when the cursors stays on a symbol for a period longer than the value identified by the m the highlighted area.	
Edit all highlighted	• C-c C-d e	(edts-ahs-edit-current-	Once a symbol is highlighted, use this command to start editing all instances of this symbol in	
symbols in current function	• <f12> e</f12>	function)	the current function. • Activates ahs-edit-mode with edts-current-function range-plugin.	
Edit all highlighted symbols in buffer	• C-c C-d E • <f12> E</f12>	(edts-ahs-edit-buffer)	Once a symbol is highlighted, use this command to start editing all instances of this symbol in the current buffer.	
	1227 2		Activates ahs-edit-mode with ahs-range-whole-buffer range-plugin.	
Move to the next highlighted symbol	<f12> n</f12>	(ahs-forward)	Once a symbol is highlighted, move forward to the next highlighted symbol.	
Move to the previous highlighted symbol	<f12> p</f12>	(ahs-backward)	Once a symbol is highlighted, move forward to the previous highlighted symbol.	
Move to the originally highlighted symbol	<f12> .</f12>	(ahs-back-to-start)	Once a symbol is highlighted, move back to the symbol that was highlighted at the start of that highlight session.	
Refactor: replace region by call to function and add a new function	• C-c C-d r • <f12> r</f12>	(edts-refactor-extract- function NAME START END)	Refactor the expression(s) in the region as a function. The expressions are replaced with a call to the new function, and the function itself is placed on the kill ring for manual placement. The new function's argument list includes all variables that become free during refactoring - that is, the local variables needed from the original function. New bindings created by the refactored expressions are *not* exported back to the original function. Thus this is not a "pure" refactoring. This command requires Erlang syntax tools package to be available in the node, version 1.2	
			(or perhaps later.)	
EDTS/Man	pages per project, so it is poss	sible to have several Erlang	ction using the information extracted from Erlang Man pages. EDTS maintains a set of Erlang man projects each one with a different version of Erlang and their corresponding man pages. If man commands described above in this table.	
Download, install, select Erlang Man pages	<f12> `</f12>	(edts-man-setup)	Download and install OTP man-pages that will be used by the following 2 EDTS commands.	
Display help for function at point	• C-c C-d h • <f12> h</f12>	(edts-show-doc-under- point)	Find and display the man-page documentation for function under point in a tooltip.	
Find and show man- page info for an Erlang module:function	• C-c C-d H • <f12> H</f12>	(edts-find-doc)	Prompts for a module, then a function. Find and show the man-page documentation for the Erlang module:function.	
EDTS Code Analysis				
Compile current buffer	<f12> a c</f12>	(edts-code-compile-	Compiles current buffer on node related to that buffer's project.	
		and-display)		

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Run eunit tests	• C-c C-d t • <f12> a t</f12>	(edts-code-eunit &optional COMPILATION-RESULT)	Runs eunit tests for current buffer on node related to that buffer's project.
Run dialyzer	<f12> a a</f12>	(edts-dialyzer-analyze)	Runs dialyzer for all live buffers related to current buffer either by belonging to the same project or, if current buffer does not belong to any project, being in the same directory as the current buffer's file.
EDTS/Debug			
Toggle breakpoint	• C-c C-d b • <f12> d b</f12>	(edts-debug-toggle- breakpoint)	Toggle breakpoint on current line.
List breakpoints	C-c C-d M-b • <f12> d B</f12>	(edts-debug-list- breakpoints &optional SHOW)	Show a listing of all breakpoint on all nodes registered with EDTS. If optional argument SHOW is nil or omitted, don't display process list buffer. If it is pop call 'pop-to-buffer', if it is switch call 'switch-to-buffer'.
List Erlang processes	• C-c C-d M-p • <f12> d p</f12>	(edts-debug-list- processes &optional SHOW)	Show a listing of all processes on all nodes registered with EDTS. If optional argument SHOW is nil or omitted, don't display process list buffer. If it is pop call 'pop-to-buffer', if it is switch call 'switch-to-buffer'.
Toggle interpretation state of module	• C-c C-d i • <f12> d i</f12>	(edts-debug-toggle- interpreted)	Toggle the interpretation state for module in current buffer.
List interpreted modules	• C-c C-d M-i • <f12> d I</f12>	(edts-debug-list- interpreted &optional SHOW)	Show a listing of all interpreted modules on all nodes registered with EDTS. If optional argument SHOW is nil or omitted, don't display interpreted list buffer. If it is pop call 'pop-to-buffer', if it is switch call 'switch-to-buffer'.
EDTS/Erlang Node			
Display EDTS Erlang Node Name	<f12> N</f12>	(edts-buffer-node- name)	Print the node sname of the erlang node connected to current buffer. • The node is either: • The module's project node, if current buffer is an erlang module, or • The buffer's erlang node if buffer is an edts-shell buffer. • The project-node of the buffer that was current buffer before jumping to the current buffer if the file of the current buffer is located outside any project (eg. an "externally" loaded module such as an otp-module or a module loaded by ~/.erlang).
Start an EDTS controlled Erlang Shell	<f12> x</f12>	(edts-shell &optional PWD SWITCH-TO)	Start an interactive erlang shell.
Start EDTS server	<f12> X</f12>	(edts-api-start-server)	Starts an edts server-node in a comint-buffer (if not already running).

Description	<u>Keystroke</u>	Function	<u>Note</u>	
LSP support: • Isp-mode • erlang Is	• The erlang Is Erlang server • The erlang Is can be d It's important for m the new features and fixes. With PEL you can eas	isp external package PEI of r LSP. You must install the configured using a YAML file ost projects to set that up, conguls are under heavy developing upgrade lsp-mode by models.	L activates it when the pel-use-erlang-Is user-option is turned on (set to t). his manually. You will need Git, Erlang, rebar3 and make. The instructions are on the web-site. He erlang Is.config file that must be placed at the root of the Erlang project. Otherwise you may not be able to take advantage of several of the cross-reference features opment in the end of 2021. You may want to update these projects regularly to take advantage of eving the its package directory tree into the attic directory and restarting Emacs. If the new version	
erlang Is required environment	fails just restore the previous one. See the PEL Manual section on manual package update for more information. The following executable must be accessible from PATH: • erl, escript and other Erlang executables. See Installing Erlang if you need to learn how to install Erlang and its tools. • erlang_ls. To install erlang_ls follow the instruction on the erlang_ls GitHub page: git clone it, then run make and make install. • and the various Tools for Erlang.			
• <u>S Customize</u> Isp-mode	Several lsp-mode settings are customizable in the lsp-mode customization group. With PEL you can access it via <f12> L <f3>. The following settings are probably what you may want to customize: • Isp-log-io : control whether the LSP process is logging its I/O. Useful for debugging LSP support. • Isp-ui-sideline-enable : control whether LSP display information about the current code line. • Isp-ui-doc-enable : control whether LSP display documentation about the current code symbol. You can also use the PEL commands to modify them dynamically using the following commands.</f3></f12>			
Toggle code documentation display	<f11> SCP e L D <f12> L D</f12></f11>	(pel-toggle-lsp-ui-doc &optional LOCALLY)	Toggle the display of code documentation. • The initial state is set by the 'Isp-ui-doc-enable' user-option. • By default this command impact is global unless an argument prefix is specified, in which case it is applied to the current buffer only.	
① Toggle logging on the LSP client side	<f11> SCP e L I <f12> L I</f12></f11>	(pel-toggle-lsp-log-io &optional LOCALLY)	Toggle the logging of LSP I/O. The initial state is set by the 'Isp-log-io' user-option. By default this command impact is global unless an argument prefix is specified, in which case it is applied to the current buffer only. Once client-side logging is active you can then follow it with lsp-workspace-show-log	
Toggle display of information on current line	<f11> SCP e L L <f12> L L</f12></f11>	(pel-toggle-lsp-ui- sideline &optional LOCALLY)	Toggle the display of information of the current line. The initial state is set by the 'Isp-ui-sideline-enable' user-option. By default this command impact is global unless an argument prefix is specified, in which case it is applied to the current buffer only.	
• Erlang LS Features	Overview of the features provi Breadcrumbs Code completion Go to Definition Go to Implementation of OTP Behaviours Signature Suggestions Diagnostics on file open/save: Compiler Diagnostics Dialyzer Diagnostics Elvis Diagnostics	Edoc support Navigation to Included Files Find/Peek References Outline of Module	 LSP Lenses: Isp-avy-lens LSP sideline: enable with: (setq Isp-ui-sideline-enable t) Use M-x Isp-execute-copde-action to trigger quick-fix actions Erlang Project-Specific LS Configuration: Erlang LS is customizable by using a YAML syntax file called erlang Is.config that should be placed in the root directory of the project. 	
<u>Isp-mode features</u>	 Completion at point traditional popup with company-mode Code navigation, with Isp-find-definition Isp-find-references Symbol highlights Code action on mode line: set Isp-modeline-code-action-segments user-option. Breadcrumb on headerline: Use the Isp-headerline-breadcrumb-mode command to toggle their display. The Isp-headerline-breadcrumb-segments user-option. Code navigation, with Isp-find-references Code Lenses The Erlang LS configuration provides ct-run-test: display a run button next to a Common Test testcase. server-info: display some Erlang LS server info on top of each module. For debug only. show-behaviour-usages: show the number of modules implementing a behaviour. 			
Isp-mode integrations see also: • ∑ Completion/Input • ∑ Treemacs • ∑ Hide/Show	Isp-mode supports integration • Whelm by using helm-lsg • Why by using Isp-ivy • Wheremacs by using Isp-origami	o	s when pel-use-helm-lsp is turned on. s when pel-use-lsp-ivy is turned on. s when pel-use-lsp-treemacs is turned on. s when pel-use-lsp-origami is turned on.	
LSP key bindings: Isp-mode erlang Is See also: Input Method	Key bindings: The Isp-mode is a minor mode and provides customizable prefix key for its key bindings. The default key prefix is s-1. • Since the <u>super modifier key</u> is not always available, it can be modified through customization: change the <u>Isp-keymap-prefix</u> value. This can be done with M-x <u>customize-option</u> or with PEL via the <f11> <f2> o key sequence. • With PEL, the following keys are good replacement candidates: <f9> and C-1. If you use <f9> for Greek letters then consider using <m-f9>. • The key bindings shown below show the standard s-1 key prefix. • If you change <u>Isp-keymap-prefix</u> that would be replaced with your selected prefix key.</m-f9></f9></f9></f2></f11>			
LSP Session Control	The Language Server supports several programming languages via their back end. Erlang is supported by the erlang Is server. The following commands control the LSP session. To start a session use the lsp command. To stop a session and the server use lsp —workspace-shutdown. Use lsp to restart a new session. While a session is running you can restart a session with lsp —workspace-restart			
Activate LSP	s-1 w s	(Isp &optional ARG)	Entry point for the server startup. • Without argument: start server if not already running, otherwise display the name:port of the Language Server connected. • With C-u, prompt the user to select which language server to start.	
Disconnect LSP	s-1 w D	(Isp-disconnect)	Disconnect the buffer from the language server.	
Shut LSP workspace down	s-1 w q	(Isp-workspace- shutdown WORKSPACE)	Shut the workspace WORKSPACE and the language server associated with it. • It may report some errors. The LSP modelling will show disconnected.	
Restart the language	s-1 w r	(Isp-workspace-restart WORKSPACE)	Restart the workspace WORKSPACE and the language server associated with it	
LSP Diagnostics		to get information about the	currently running Language Server session.	
Describe LSP session	See <u>Erlang LS Troubleshoods</u> s-1 w d	oting_for more information. (Isp-describe-session)	Describes current 'Isp-session'. • Show available tools and the available capabilities • Shows the information inside a LspBrowser buffer.	
Validate LSP performance settings	s-1 d	(Isp-doctor)	Validate performance settings and write report in a *lsp-performance* buffer. • It reports as errors non-optimal settings. These are not really errors, it's just outlining conditions that are not optimum to get the best performance out of the Language Server.	

Description	<u>Keystroke</u>	Function	<u>Note</u>
Display LSP workspace log buffer	s-1 L	(Isp-workspace-show- log WORKSPACE)	Display the log buffer of WORKSPACE when IO logging is enabled. • With PEL toggle IO logging with <f12> L D. • This shows all LSP JSON transactions occurring. • To always see the tail of the buffer move point to the end of buffer first, then leave it there. Emacs will automatically scroll the buffer content to keep the point visible.</f12>
Project Setup	_	4	ALLEDO ITOT DOOT UIL II LI L
Add directory to the list of workspace folders	s-1 F a	(Isp-workspace-folders- add PROJECT-ROOT)	Add PROJECT-ROOT to the list of workspace folders. • Prompts for the directory.
Remove a directory from the workspace blacklist	s-1 F b	(Isp-workspace- blacklist-remove PROJECT-ROOT)	Remove PROJECT-ROOT from the workspace blacklist.
Remove directory from the list of workspace folders	s-1 F r	(Isp-workspace-folders- remove PROJECT- ROOT)	Remove PROJECT-ROOT from the list of workspace folders.
Toggling features			
Toggle diagnostic modeline	s-1 T D	(Isp-modeline- diagnostics-mode &optional ARG)	Toggle diagnostics modeline.
Toggle current-line status information	s-1 T S	(Isp-ui-sideline-mode &optional ARG)	Minor mode for showing status information for current line. • Displays code status such as definition errors, etc
Toggle code action on modelling	s-1 T a	(Isp-modeline-code- actions-mode &optional ARG)	Toggle code actions on modeline.
Toggle headline breadcrumbs	s-1 T b	(Isp-headerline- breadcrumb-mode &optional ARG)	Toggle breadcrumb on headerline. • When active the list of directories are listed on the header line. In graphics mode these are buttons you can use to change directory.
Toggle hover information	s-1 T d	(Isp-ui-doc-mode &optional ARG)	Minor mode for showing hover information in child frame. When active, information about symbol at point is shown in a pop-up overlay area. In graphics mode the information has links that can be used to open web-located information. For small window the information may cover too much code, use this command to toggle in and out of view. Also note that when the point is toward the bottom of a window the information window may not show completely and you may have to scroll your window.
Toggle symbol highlighting	s-1 T h	(Isp-toggle-symbol- highlight)	Toggle symbol highlighting.
Toggle code-lens	s-1 T 1	(Isp-lens-mode &optional ARG)	Toggle code-lens overlays. Code-lens show information like # times a specific function is referenced. This can be used to infer type specs when writing a function. For this to work Dialyzer must be setup. Code lens are overlays and appear above the corresponding line by default. There seems to be a bug in lsp-mode that prevents scrolling when the overlay hit the top of the window. A work-around is to customize lsp-lens-place-position to 'end-of-line instead.
Code Formatting			work-around is to customize isp-tens-place-position to end-or-line instead.
Reformat Erlang file	s-1 = =	(Isp-format-buffer)	Reformat the code in the current Erlang buffer.
Cross Reference			
Find Identifier definitions	s-1 G g	(Isp-ui-peek-find- definitions &optional EXTRA)	Find definitions to the IDENTIFIER at point.
Find symbol implementation locations	s-1 G i	(Isp-ui-peek-find- implementation &optional EXTRA)	Find implementation locations of the symbol at point.
Find references	s-1 G r	(Isp-ui-peek-find- references &optional INCLUDE-DECLARATION EXTRA)	Find references to the IDENTIFIER at point.
Find symbols	s-1 G s	(Isp-ui-peek-find- workspace-symbol PATTERN &optional EXTRA)	Find symbols in the worskpace. The symbols are found matching PATTERN.
Execute code action	s-1 a a	(Isp-execute-code- action INPUT0)	Execute code action ACTION. If ACTION is not set it will be selected from 'lsp-code-actions-at-point'. Request codeAction/resolve for more info if server supports.
Highlight all relevant references to symbol at point	s-1 a h	(Isp-document- highlight)	Highlight all relevant references to the symbol under point.
Click LSP lens via avy	s-1 a 1	(Isp-avy-lens)	Click lsp lens using 'avy' package. • The code lens must be active. Use s-1 T 1 to activate it if it's not active.
Apropos search for symbol/regexp	s-1 g a	(xref-find-apropos PATTERN)	Find all meaningful symbols that match PATTERN. Can be used to search symbol outside project. The argument has the same meaning as in 'apropos'. The result is shown in a *xref* buffer.
Find definitions of symbol at point	s-1 g g	(Isp-find-definition &key DISPLAY-ACTION)	Find definitions of the symbol under point.
Find implementations of symbol at point	s-1 g i	(Isp-find- implementation &key DISPLAY-ACTION)	Find implementations of the symbol under point.
Find references of symbol at point	s-1 g r	(Isp-find-references &optional INCLUDE- DECLARATION &key DISPLAY-ACTION	Find references of the symbol under point. • The result is shown in a *xref* buffer.
Trigger display hover information	s-1 h g	(Isp-ui-doc-glance)	Trigger display hover information popup and hide it on next typing.
Display documentation of symbol at point in *Isp-help*	s-1 h h	(Isp-describe-thing-at- point)	Display the type signature and documentation of the thing at point. • Display help about symbol at point inside a *lsp-help* buffer. • Useful in terminal mode as you can navigate inside the buffer and used other functions to open identified URL references.
Refactor source import	s-l r o	(Isp-organize-imports)	Perform the source.organizeImports code action, if available.

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Rename symbol at point See also: Search/Replace	s-1 r r	(Isp-rename NEWNAME)	Rename the symbol (and all references to it) under point to NEWNAME. For renaming the arguments of a function, the <u>iedit mode</u> is more appropriate. It supports restricting the scope to the current function. See <u>Search/Replace</u>
<u>Treemacs</u> support • <u>∑¾ Treemacs</u>	The <u>treemacs</u> and <u>lsp-treemacs</u> external packages respectively activated by PEL user-options <u>pel-use-treemacs</u> and <u>pel-use-lsp-treemacs</u> , provide extra features that help Erlang development. When these are activated PEL provides bindings for the <u>lsp-treemacs</u> features. Configure lsp-treemacs by accessing the lsp-treemacs customization group. With PEL use <f12> w <f3> from an Erlang buffer.</f3></f12>		
Open LSP Treemacs error list window.	<f12> w e</f12>	(Isp-treemacs-errors- list)	Display an error list window at the bottom of the frame. The buffer uses the treemacs-mode and supports its commands and key bindings. See **\sum treemacs** for the list of commands and key bindings. To close the window, kill its buffer with C-x k
Quick fix	х	(Isp-treemacs-quick-fix &rest ARGS)	If possible, proposes a quick code fix for the error at point.
Open LSP Treemacs <u>symbol window</u>	<f12> w s</f12>	(Isp-treemacs-symbols)	Show symbols view. • To close the window, kill its buffer with C-x k
Open LSP Treemacs references window	<f12> w x</f12>	(Isp-treemacs- references ARG)	Show the references for the symbol at point. Issue from an Erlang buffer. • With a prefix argument, select the new window and expand the tree of references automatically. • To close the window, kill its buffer with C-x k
Open LSP Treemacs implementations window	<f12> w i</f12>	(Isp-treemacs- implementations ARG)	Show the implementations for the symbol at point. Issue this command from an Erlang buffer. With a prefix argument, select the new window expand the tree of implementations automatically. To close the window, kill its buffer with C-x k
Open LSP Treemacs <u>call hierarchy</u> <u>window</u>	<f12> w c</f12>	(Isp-treemacs-call- hierarchy OUTGOING)	Show the incoming call hierarchy for the symbol at point. • With a prefix argument, show the outgoing call hierarchy. This does not seem to have been implemented for Erlang.
Open LSP Treemacs type hierarchy window	<f12> w t</f12>	(Isp-treemacs-type- hierarchy DIRECTION)	Show the type hierarchy for the symbol at point. • With prefix 0 show sub-types. • With prefix 1 show super-types. • With prefix 2 show both. ### This is not implemented for Erlang.
Rendering markup embedded in comments	The following commands are used to create images from specific markup code embedded inside Erlang source code comments. This can be useful when using these markup languages to describe UML diagrams or finite-state machines for example. You can also use Graphviz, see M Graphviz Dot		
Preview UML diagram	<f12> u</f12>	(pel-render-	Render the PlantUML markup embedded in current mode comment. • Use region if identified otherwise use PlantUML block at point. • Uses prefix (as PREFIX) to choose where to display it:
from plantUML source in current plantUML	<f11> SCP e u</f11>	commented-plantuml PREFIX &optional POS)	
region of commented source code See also: M PlantUML		, , , , , , , , , , , , , , , , , , , ,	 4 (when prefixing the command with C-u) -> new window 16 (when prefixing the command with C-u C-u) -> new frame. else -> new buffer
occuso. Milanome			 This can be used inside buffer using any major mode, when PlantUML markup is embedded inside source code comment.
	PlantUML block and issuing th	is command.	cture with PlantUML markup, then generate the UML rendering by moving point inside the stivated by pel-use-plantuml user option being non-nil.

Emacs & Erlang - References

Document	Notes
Erlang/OTP	Erlang/OTP home page. This is Erlang's official site.
Erlang versions	Erlang Versions - Version Scheme Erlang Support, Compatibility, Deprecations, and Removal
Erlang/OTP @ Github	Erlang source code
Erlang Community	Links to various topics including how to develop Erlang, learning Erlang, Community mailing lists and chats, contribution, Erlang Issue Tracker, events.
Erlang Mailing Lists	The mailing lists still exist but unfortunately seem to be used less and less.
Erlang/BEAM	Erlang was the first of one of several programming language that runs on the BEAM VM.
Good introduction presentations on Erlang	The soul of Erlang and Elixir Saša Jurić GOTO 2019 A very good presentation that captures the essence of why Erlang is so important. Fast pace. A must see. A great presentation to show people that may be reluctant to use the technology. The Do's and Don'ts of Error Handling Joe Armstrong GOTO 2018
Erlang References	
Erlang Reference Manual User's Guide	The official Erlang language reference. Lists the BIFs (Built-in functions), reserved words, and all language reference info.
A Concise Guide to Erlang	A very nice quick reference. From David Matuszek, University of Pennsylvania
Erlang Code Guidelines	
Erlang Programming Rules and Conventions	Official Ericsson AB Erlang guidelines.
Inaka's Erlang Coding Standards & Guidelines	Guideline used at Inaka, published on Github.
EDoc User's Guide	Describes how to document code. Comments should conform to the Edoc comment style and format.
2600Hz Erlang Documentation Guideline	An example of a corporate Erlang Documentation Guideline.

Document	Notes
Erlang Books	There are several printed and online Erlang books. Erlang's FAQ lists several of them. The following lists some extra ones.
Adopting Erlang	A great and recent (2019 and later) online books on Erlang Development that provides information not available in the Erlang introduction books. Describes how to install Erlang, and how to setup editing tools. A must read to setup Erlang development. This is still work in progress as of May 2020. Each page has a date time stamp.
Erlang Information Sites	
How to setup a local Erlang & Elixir dev environment on Mac from source	LambdaCat post on August 2015. Describes how to use Kerl to install Erlang. Also describes tools to install Elixir. However to get kerl on a macOS machine, using Homebrew is simpler.
about-erlang trying-erlang	These are 2 projects of mine, that I am currently building to centralize some information on Erlang. • about-erlang provides general information about Erlang, including: • Learning Erlang, a table with links to resources to learn Erlang. • Installing Erlang, describes various ways to install Erlang on macOS. • Tools for Erlang, describes tools you can use for Erlang development.
Emacs and Erlang Man files	
How to create a local whatis file	Show how to create a missing whatis file for a set of man pages.
The Erlang mode for Emacs (user guide) Erlang mode for Emacs (man page)	On the <u>erlang.org</u> site. Start here. Describes the 2 files (erlang.el and erlang-start.el) provided by the Erlang mode support, how to set them up for various operating systems. Note, however, that PEL provides the setting for you. It also provides an overview of the various features the package provides.
	 I found bugs in the <u>erlang man</u> page in the <u>Edit- Moving the marker</u> section. 1) it's the point that is moved, not the marker, 2) C-a is not an Emacs key prefix, so their key binding descriptions like C-a M-a and C-a M-e are invalid. Reported as <u>ERL-1314</u>. There's missing information in this. I will identify later as I find out how to get the system going. One aspect to learn more is related to the various erlang-electric functions and variables. The variable erlang-electric-commands was set to (erlang-electric-comma erlang-electric-semicolon erlang-electric-gt) at first, which does not include the erlang-electric-newline function. I tried adding erlang-electric-newline and activated it, but that made things worse: the newline was no longer automatic after a -> on a function definition line. Another issue: inside the OS-level erlang shell, we can tab-completion a module:function string, but that does not work inside the emacs erlang shell.
Emacs tools for Erlang	
EDTS	EDTS: stands for: The Erlang Development Tool Suite. See also: • EDTS Tool Suite - Making Your Life Easier - Thomas Järvstrand presentation @ Youtube • EDTS: • configure your project • One Primary EDTS node • 1 node per open project • To setup an Erlang project: a .edts file in the project: :name "my-project" :otp-path "path/to/otp" :node-name "project-node-name" :lib-dirs '("lib" "deps")
How to install EDTS	Describes some aspects of EDTS and links that may be useful. Lists the requirements. Application of EDTS and links that may be useful. Lists the requirements. - auto-complete (v1.5.1) - have to read doc and configure. And perhaps disable company mode?
Language Server Protocol	Language Server Protocol @ Wikipedia Language Server Protocol Specifications web site Language Server Protocol @ Github
LSP for Erlang	LSP support for Erlang is done using the following: • The lsp-mode Emacs Lisp package • The erlang is Erlang server
Erlang Tools accessible via the erlang_ls	Several Erlang tools are available through the erlang_ls LSP server for Erlang. Building erlang_ls from source is the best way to install it as it will also install the secondary tools it provides. • The following is not a complete list of all tools available.
Gradualizer: A Gradual Type System for Erlang	Gradualizer is a type checker for Erlang code based on the principles of Gradual Typing that uses the existing Erlang type specs and adds opt-in type checking. It is a work in progress. • Gradualizer @ Github • Youtube presentation: Dialyzer vs Gradualizer at ElixirConf EU 2019
company-mode ; Modular in-buffer completion framework for Emacs	
Using Tags with Erlang	
Etags with Erlang @ erlang.org	Describes how to use tags with Erlang source code and how to create the TAGS file.
Troubleshooting	This section describes how to solve some of the problems you may encounter with Erlang on Emacs.
How to prevent Erlang shell echo	On some systems the Erlang shell annoyingly echoes every command typed at the shell. The Emacs manual describes a method to prevent shells inside Emacs from echoing and it describes it as affecting Windows systems. None of the Emacs shells on my system that runs on macOS echo commands, but the Erlang shell does. And the described fix works. PEL activates the fix if the pel-erlang-shell-prevent-echo is set to t. To activate after setting it: execute pel-init or restart Emacs.