Emacs support for Erlang

Comment Comment			•	
## Contractions	<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
PEL Estrag Source Code Sibits pelectangs code-order. Peter and the state of the control of the count of the	Erlang Programming Language	PEL activates Erlang support via the customize user option variable pel-use-erlang. It must be set to t to activate support for Erlang. Further customization is available via several user options. PEL customization for Erlang: use the command below: pel-cfg-pkg-erlang. pel-erlang-rootdir: pel-erlang-exec-path: pel-erlang-shell-prevent-echo: set to t to prevent the Erlang shell from echoing every command. PEL Erlang Source Code Style: pel-erlang-code-style: pel-erlang-fill-column: column where line-wrapping occurs: maximum line length (defaults to 100). You can change the value or set it nil. When pel-erlang-fill-column user option is nil, erlang-mode buffers use the Emacs fill-column value like other major modes. pel-erlang-skel-use-separators: whether line separators are used in Erlang code templates (see the Insert Erlang Code Template section be pel-erlang-skel-use-secondary-separators: whether secondary separator lines are inserted by some Erlang code templates, pel-erlang-skel-insert-file-timestamp: whether automatically updated time stamps are inserted in Erlang source code file header blocks. PEL provides the following set of mode-specific key prefixes: <f11> SPC e, <f12> and <m-f12> The first one is always available. The other two prefixes are only available in erlang-mode buffers. The <m-f12> prefix helps the typing flow when next key is a Meta key. For simplification, the <f11> SPC e prefix is normally omitted in the table.</f11></m-f12></m-f12></f12></f11>		
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Certage wersion Certage wersion Cisplay the current version of <u>estange</u> in the mini buffer.	∑ Customize Emacs Erlang support	<f11> SPC e <f3></f3></f11>	(pel-customize-library &optional OTHER-	
France code syntax highlighting Enting code syntax highlighting has a levels and can be turned off via Entang code	Frlang Mode version		,	Display the current version of erlang el in the mini-huffer
The following commands help edit Enting code Create additional			· · · · · · · · · · · · · · · · · · ·	
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Code clause Parses the source life for the name of the current Erlang function. Orast the header containing the name, a pair of perentheses, and an present speaker speaker in the function man and the first parenthese is preserved. The point is placed between the function man and the first parenthese is preserved. The point is placed between the function man and the first parenthese is preserved. The point is placed between the parenthese support in the proceeding Erlang clause. This command is useful when defining an even clause with almost the same argument at the precoding.		-		Create additional Erland clause header
Copy the function arguments of the proceding Entang clause. This command is useful when defining a new clause with affended a previous control and insert the same argument as the proceding. The mark is set at the beginning of the inserted text, the point at the end. Align arrows inside region Copy the proceding of the inserted text, the point of the current function.	clause	C-e C-j	,	Parses the source file for the name of the current Erlang function. Create the header containing the name, a pair of parentheses, and an arrow. The space between the function
START END With a prefix agrument, aligns all arrows in the region (or from beginning of buffer up to point not just those in function clauses. Example: sun(1,) = sun(1, 0); sun(1,	Clone clause arguments	С-с С-у	(erlang-clone-arguments)	Copy the function arguments of the preceding Erlang clause. This command is useful when defining a new clause with almost the same argument as the preceding.
Insert a comma character and possibly a new indented line. The variable 'erlang-electric-comma-criteria' states a criterion, when fulfilled a newline is inserted and the next line is indented. Behaves just like the normal comma when supplied with a numerical arg, point is inside string or comment, or when there are non-whitespace characters following the point on the current line. Insert a semicolon character and possibly a prototype for the next line is inserted. Normally the prototype consists of '->'. Should the semicolon-criteria' states a criterion, when fulfilled a newline is inserted. Normally the prototype consists of '->'. Should the semicolon end a prototype for the next line is indented. The variable 'erlang-electric-semicolon-criteria' states a criterion, when fulfilled a newline is inserted. Normally the prototype consists of '->'. Should the semicolon end an environment line. The variable 'erlang-electric-semicolon-criteria' states a criterion, when fulfilled a newline is inserted. Normally the prototype consists of '->'. Should the semicolon end the clause a new clause header is generated. The variable 'erlang-electric-semicolon-insert-blank-lines' controls the number of blank lines inserted. Normally the prototype consists of '->'. Should the semicolon end the current line. Berlang Gomments	Align arrows inside region	C-c C-a		 With a prefix argument, aligns all arrows in the region (or from beginning of buffer up to point), not just those in function clauses. Example: sum(L) -> sum(L, 0). sum([H T], Sum) -> sum(T, Sum + H); sum([], Sum) -> Sum. becomes: sum(L) -> sum(L, 0). sum([H T], Sum) -> sum(T, Sum + H);
Soptional ARG The variable 'entang-electric-comman-trainer's tates a criterion, when fulfilled a newline is inserted and the next line is indented. Behaves just like the normal comma when supplied with a numerical arg, point is inside string or comment, or when there are non-whitespace characters following the point on the current line.	Electric Keys	The following keys have "elect	ric" behaviour and perform sp	pecial editing tasks to help edit Erlang source code.
Semicolon & optional ARG The variable in erlang-electric-semicolon-criterial states a criterion, when fulfilled a newline is serted. The next line is indented and a prototype for the next line is inserted. Normally the prototype consists of ".>". Should the semicolon end the clause a new clause header is generated. The variable interest in and new function header. The variable interest in an interest in an interest function header. The variable interest in an interest in an interest function header. The variable interest in an interest in an interest function header. The variable interest interest in an interest in a	Electric comma	,		 The variable 'erlang-electric-comma-criteria' states a criterion, when fulfilled a newline is inserted and the next line is indented. Behaves just like the normal comma when supplied with a numerical arg, point is inside string or comment, or when there are non-whitespace characters following the point on the current
Erlang Uses the % character to identify line comments. It uses the following conventions: * Single percent characters are used for comments located toward the end of a line of code * %% - Two percent characters are used for comments and are always placed in the first column Comment/un-comment Note: * * W-; works much better han C-c C-c and C-c C-u * When no marked region and no comment: On empty line: insert %% comment starter at the proper indentation level. On line with code: insert % comment starter after the code for an end-of-line comment * With marked un-commented region: Comment region (each line is commented) * With marked commented region: removes the comment. * To insert %% comment style: type M-3 M-; * Call the comment command you want (Do What I Mean). * If the region is active and 'transient-mark-mode' is on, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-insert-comment each line in the region. * With just C-u prefix ARG comment characters.	Electric semicolon	;		 The variable 'erlang-electric-semicolon-criteria' states a criterion, when fulfilled a newline is inserted, the next line is indented and a prototype for the next line is inserted. Normally the prototype consists of "->". Should the semicolon end the clause a new clause header is generated. The variable 'erlang-electric-semicolon-insert-blank-lines' controls the number of blank lines inserted between the current line and new function header. Behaves just 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 the
* 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 **Manage of the percent characters are used to describe modules and are always placed in the first column **Manage of the percent characters are used to describe modules and are always placed in the first column **Manage of the percent characters are used to describe modules and are always placed in the first column **Manage of the percent characters are used to describe modules and are always placed in the first column **Manage of the percent characters are used for comment in the buffer. **Manage of the percent characters are used for comment in the buffer. **Manage of the percent characters are used for comment. However PEL uses Manage of the percent in the buffer. **Manage of the percent characters are used to describe modules and are always placed in the first column **Manage of the percent characters are used to describe modules and are always placed in the first column **Comment line or region with % or %% style comment. However PEL uses Manage of the percent in the buffer. **Manage of the percent line or region with % or %% style comment. However PEL uses Manage of the percent in the buffer. **Manage of the percent line or ment. However PEL uses Manage of the percent line or ment in the buffer. **Manage of the percent line or ment. However PEL uses Manage of the percent line or ment. **On line with code: insert % comment starter at the proper indentation level. **On line with code: insert % comment starter at the proper indentation level. **On line with code: insert % comment starter at the proper indentation level. **On line with code: insert % comment starter at the proper indentation level. **On line with code: insert % comment starter after the code for an end-of-line comment. **On line with code: insert % comment st	Electric > (for the end of arrow)	>	, -	Insert a greater-than sign, and optionally insert a new line and indent.
Note: M-; works much better M-; works much better Idean C-c C-c and C-c C-u • When no marked region and no comment: On empty line: insert %% comment starter at the proper indentation level. On line with code: insert % comment starter after the code for an end-of-line comment • With marked un-commented region: Comment region (each line is commented) • With marked comment style: type M-3 M-; • Call the comment command you want (Do What I Mean). • If the region is active and 'transient-mark-mode' is on, call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region'). Else, if the current line is empty, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-region BEG END &optional ARG) C-c C-c Comment-region BEG END &optional ARG) Comment or uncomment each line in the region. • With just C-u prefix ARG means use ARG comment characters.	Erlang Comments	 % - 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. 		
works much better than C-c C-c and C-c C-u • When no marked region and no comment: On empty line: insert %% comment starter at the proper indentation level. On line with code: insert % comments starter after the code for an end-of-line comment • With marked un-commented region: Comment region (each line is commented) • With marked comment style: type M-3 M-; • Call the comment command you want (Do What I Mean). • If the region is active and 'transient-mark-mode' is on, call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region'). Else, if the current line is empty, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-indent'. C-c C-c (comment-region BEG END & optional ARG) 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.	Comment/un-comment	м-;	(comment-dwim ARG)	Comment line or region with % or %% style comments depending on the location in the buffer.
On line with code: insert % comment starter after the code for an end-of-line comment With marked un-commented region: Comment region (each line is commented) With marked commented region: removes the comment. To insert %% comment style: type M-3 M-; Call the comment command you want (Do What I Mean). If the region is active and 'transient-mark-mode' is on, call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region'). Else, if the current line is empty, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-indent'. C-c C-c (comment-region BEG END & prefix ARG means use ARG comment characters.	Note: M-; works much better than C-c C-c and C-c			something else. The M-; binding to comment-dim works just as indent-for-comment if nothing
With marked un-commented region: Comment region (each line is commented) With marked commented region: removes the comment. To insert %% comment style: type M-3 M-; Call the comment command you want (Do What I Mean). If the region is active and 'transient-mark-mode' is on, call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region'). Else, if the current line is empty, call 'comment-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-indent'. C-c C-c (comment-region BEG END & optional ARG) With marked un-commented region: commented) Comment-region' (unless it only consists of comments, in which case it calls 'uncomment-region' if it is defined, otherwise insert a comment and indent it. Else if a prefix ARG is specified, call 'comment-kill'. Else, call 'comment-indent'. C-c C-c (comment-region BEG END & optional ARG) Numeric prefix ARG means use ARG comment characters.	C-u			
C-c C-c (comment-region BEG END &optional ARG) (comment-region BEG END &optional ARG) 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.	See also: <u>∑ Comments</u>	With marked commented re To insert %%% comment sty Call the comment command If the region is active and region'). Else, if the currer	d region: Comment region (e gion: removes the communities type M-3 M-; I you want (Do What I Mean). 'transient-mark-mode' is on, nt line is empty, call 'commen	call 'comment-region' (unless it only consists of comments, in which case it calls 'uncomment-t-insert-comment-function' if it is defined, otherwise insert a comment and indent it. Else if a
			(comment-region BEG	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.

<u>Description</u>	<u>Keystroke</u>	Function	Note
	 The strings used as comment starts are built from 'comment-start' and 'comment-padding'; the strings used as comment ends are built from 'comment-end' and 'comment-padding'. By default, the 'comment-start' markers are inserted at the current indentation of the region, and comments are terminated on each line (even for syntaxes in which newline does not end the comment and blank lines do not get comments). This can be changed with 'comment-style'. 		
Un-comment region	C-c C-u	(uncomment-region BEG END &optional ARG)	Uncomment each line in the BEG END region. The numeric prefix ARG can specify a number of chars to remove from the comment delimiters.
Fill current paragraph See also: Filling/Justification	• 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 refill mode this is done automatically. In auto fill mode the filling is done at the end of the line.
Toggle display of comments in buffer or active region See also: <u>∑ Comments</u>	<f11> ; ;</f11>	(hide/show-comments- toggle &optional START END)	 See the <u>Filling/Justification</u> for all filling and justification commands. Toggle hiding/showing of comments in the active region or whole buffer. If the region is active then toggle in the region. Otherwise, in the whole buffer. This requires the <u>hide-comnt.el</u> package (see <u>Fomments</u>). PEL activates it when the pel-use-hide-comnt user option is t.
Indentation	-		C-Mode logic and provided commands listed below. at the end of this list. They are also listed in the <u>∑ Indentation</u> table.
Indent current line or region See also: <u>∑ Indentation</u>	<tab></tab>	(c-indent-line-or-region &optional ARG REGION)	 Indent active region, current line, or block starting on this line. Behaviour depends on syntactic-indentation mode (enabled by default but can be toggled on/ off with the <f12> M-i key):</f12> With syntactic-indentation on (the default): 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.
			 This might seem strange for new Emacs users, but it ends up being very useful. You can type <tab> anywhere in the line to adjust the indentation of the current line or everything in the marked area if a block is marked.</tab> With syntactic-indentation off: tab> always indent current line by one level C-u - <tab> or M- <tab> always un-indent current line by one level</tab></tab> Indenting marked region is done without syntax knowledge and at the same level as previous line. If you want to indent rigidly you can use: (pel-indent-rigidly &optional N) (bound to C-x <tab> and to <f11> <tab><tab></tab></tab></f11></tab>
Indent Erlang function	C-c C-q	(erlang-indent-function)	to indent the line or region rigidly. • (tab-to-tab-stop), bound to M-i to insert spaces to the next tab stop column. Indent current Erlang function.
Indent lines of list after point See also: Indentation	С-м-q	(prog-indent-sexp &optional DEFUN)	This also works with a simple tab (see above). Indent the expression after point. When interactively called with prefix, indent the enclosing defun instead.
Indent a region	C-M-\	(indent-region START END &optional COLUMN)	Indent each nonblank line in the region. • A numeric prefix argument specifies a column: indent each line to that column. • With no prefix argument, the command chooses one of these methods and indents all the lines with it: 1. If 'fill-prefix' is non-nil, insert 'fill-prefix' at the beginning of each line in the region that does not already begin with it. 2. If 'indent-region-function' is non-nil, call that function to indent the region. 3. Indent each line via 'indent-according-to-mode'. When a region is marked you can also use the simple <tab> to do the same when syntactic-indentation is active.</tab>
Navigation in Erlang code See also: <u>Navigation</u>	Several commands are special Notice the 3 sets of commands are special (**12 > *up > and < 10	ization of the normal navigationds: ### ### ### ### ### ### ### #### ###	rlang source code. PEL complements these. And EDTS also on commands which are described in the table <u>Navigation</u> , but several are specific to Erlang: beginning of Erlang functions skipping all compiler directives. f6> prefix) move to beginning/end of Erlang functions but stop at compiler directives. ssible via <m-f12> <m-cursor>, move across Erlang clauses (as opposed to functions). ee the others inside <u>Navigation</u>, like the navigation by blocks. In erlang-mode. Their global equivalent is <f11> SPC e. It is not always shown for brevity.</f11></m-cursor></m-f12>
Go to beginning of statement	м-а	(backward-sentence &optional ARG)	Go backward to the beginning of an Erlang clause. • With a numerical argument repeat that many times.
Go to the end of statement	м-е	(forward-sentence &optional ARG)	Go forward to the end of an Erlang clause. • With a numerical argument repeat that many times.
Go to beginning of current function or top-level function	С-М-а	(c-beginning-of-defun &optional ARG)	Move backward to the beginning of an Erlang function. Every top level declaration that contains a brace paren block is considered to be a defun. With a positive argument, move backward that many defuns. A negative argument -N means move forward to the Nth following beginning.
Goto end of current function or top-level function	С-М-е	(c-end-of-defun &optional ARG)	Move forward to the end of an Erlang function. • With argument, do it that many times. Negative argument -N means move back to Nth preceding end.
Move backward to beginning of previous function	• <f12> <up> • <f12> f p • <f11> SPC e <up></up></f11></f12></up></f12>	(pel-previous-erl-function &optional N)	Move backward to the beginning of the previous function skipping all compiler directives. • With prefix argument N repeat N times. • Pushes mark; move back to previous position with M−ˆ. ➡Shift marking is available for the key sequence using a cursor key.
Move forward to beginning of next function	<pre>• <f11> SPC e f p • <f12> <down> • <f12> f n • <f11> SPC e <down> • <f11> SPC e <n> • <f11> SPC e f n</f11></n></f11></down></f11></f12></down></f12></f11></pre>	(pel-next-erl-function &optional N)	Move forward to the beginning of the next function skipping all compiler directives. • With prefix argument N repeat N times. • Pushes mark; move back to previous position with M−ˆ.
Backward to beginning of function or compiler directive	<f12> f P • C-M-a • C-M-<home> • <f6> p • <f6> <up> • <f11> SPC e f P</f11></up></f6></f6></home></f12>	(beginning-of-defun &optional ARG) (erlang-beginning-of- function &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 beginning of defun. ➡ Shift marking is available in graphics mode, not in terminal mode (for C−M−a and C−M− <home>). However <f6> p and <f6> <up> handle Shift-marking fine in terminal mode. ➡ Erlang.el man page indicates an invalid mapping for this.</up></f6></f6></home>

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
Forward to beginning of	<f12> f N</f12>	(pel-beginning-of-next-	Move forward to the beginning of the next function definition or compiler directive.
next function or compiler directive	• <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⁻. Shift marking is available for the <f6> bindings. This command complements what end-of-defun does. It moves forward but not to the end of the function definition (like end-of-defun) but to the beginning of the function definition, which is often what users of other editors expect. It handles nested functions or class methods in languages like Python and others.</f6>
Backward to end of previous function or compiler directive	<f6> <left></left></f6>	(pel-end-of-previous- defun &optional SILENT DONT-PUSH_MARK)	Move backwards to the 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. This command complements this set of 4 commands.</f6>
Forward to end of function or compiler directive	• C-M-e • C-M- <end> • <f6> <right></right></f6></end>	(end-of-defun &optional ARG) (erlang-end-of- function &optional ARG)	Move forward to 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- <nd>end>). However <f6> <right> handle Shift-marking fine in terminal mode.</right></f6></nd>
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.
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.
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.
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.
EDTS/Navigation	support shift marking. There	are other commands and key	ve point across Erlang functions. These do not support repetition prefix argument nor they bindings to move across Erlang functions, and PEL support functions that perform the same and sted in the navigation section above.
Move backward to beginning of previous function	C-c C-d C-b	(ferl-goto-previous- function)	Move backward to the beginning of the previous function skipping all compiler directives. PEL provides a more complete command to move across functions (with or without skipping directives) that push mark and support shift marking. See in the navigation section above.
Move forward to beginning of next function	C-c C-d C-f	(ferl-goto-next-function)	Move forward to the beginning of the next function skipping all compiler directives. Set PEL provides a more complete command to move across functions (with or without skipping directives) that push mark and support shift marking. See in the navigation section above.
Search Support			hake case is often used. Using superword-mode helps searching. de. 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 minor mode that treats <u>snake case</u> as one word. In Erlang, '_' are treated as part of words.
See also: • <u>> Text Modes</u> • <u>> Search/Replace</u>	• <f11> t m p • <f11> SPC e M-p</f11></f11>	Coptonial At 10)	 With a prefix argument ARG, enable superword mode if ARG is positive, and disable it otherwise. PEL provides the <f12> M-p key for the programming language modes where snake case is popular (Emacs Lisp, C, C++, Erlang, Python, etc)</f12>
Marking	The following Erlang-mode specific marking functions are available. They complement what is already available and described in the <u>Narking</u> table. For those 2 commands the <u>Erlang.el man page</u> indicates an invalid mapping for this. Reported as <u>ERL-1314</u> .		
Mark Erlang function	• C-M-h • <f12> f m</f12>	(mark-defun &optional ARG) (erlang-mark-function &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 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.
Highlighting blocks	show-paren-mode, which hi	ghlights the parens that matc	useful modes to highlight blocks of (), {}, and []. thes the one before or after point. are highlighted with the same colour.
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 disable it otherwise.
See also: <u>N Highlight</u>	• <f11> h (• <f11> SPC e M-9</f11></f11>		Show Paren mode is a global minor mode. When enabled, any matching parenthesis is highlighted in 'show-paren-style' after 'show-paren-delay' seconds of Emacs idle time. The second s
Enable/Disable coloured highlight of nested blocks (),{},[]	• <f12> M-r • <m-f12> M-r</m-f12></f12>	(rainbow-delimiters- mode &optional ARG)	Highlight nested parentheses, brackets, and braces with different colours according to their depth. • Customize the depth and colours with M-x customize-group rainbow-delimiters
See also: <u>N Highlight</u>	• <f11> h R • <f11> SPC e M-r</f11></f11>		Requires: rainbow-delimiters.el PEL activates this when the pel-use-rainbow-delimiters user option is set to t.
Inserting code			
Insert Parentheses	M-((insert-parentheses &optional ARG)	For Erlang: insert a parenthesis pair '()', leaving point after open-paren. • A positive ARG encloses the following ARG sexps in parenthesis if they are balanced. • A negative ARG encloses the preceding ARG sexps instead. • No argument is equivalent to zero: just insert '()' and leave point between. • PEL makes 'parens-require-spaces' buffer local and set it to nil in Erlang mode buffers, allowing the use of this command to insert the argument parentheses following a function (and without placing a space between the function name and the opening parenthesis. • If region is active, insert enclosing characters at region boundaries. • This command assumes point is not in a string or comment.

Description	<u>Keystroke</u>	Function	<u>Note</u>
Insert Erlang Code			ins using the standard tempo skeleton package.
Templates	 The erlang package make these skeletons available on the Erlang/Skeletons menu (via <f10>).</f10> PEL provides the following additional functionality: 		
See also:			under the pel:erlang-skel key prefix: <f12> <f12>.</f12></f12>
 <u>Inserting Text</u> for more info and 	· ·		 a +. These are also added to the menu. yle is controlled by the user options inside the pel-erlang-code-style group. The controlled
information about	templates affected are ma		user options are part of the pel-erlang-code-style group accessible with <f12> <f2> from an</f2></f12>
tempo skeleton and yasnippet template-	 pel-erlang-skel-inser 	t-file-timestamp :	set whether an automatically updated timestamp is inserted in the file header block.
based text insertion).	pel-erlang-skel-prompel-erlang-skel-prom	pt-for-function-name :	set whether file and function skeletons blocks prompt for purpose and insert it. set whether function skeletons prompt for function name and then inserts that name.
	pel-erlang-skel-prompel-erlang-use-separ	•	set whether function skeletons prompt for function arguments and then insert them. set whether blocks use horizontal separator lines (these are the first of potentially 2 separators).
	pel-erlang-use-secor pel-erlang-skel-with-		set whether blocks use a second block horizontal separator line. set whether generated code comments use EDoc markup.
	• pel-erlang-skel-with-		set whether file header blocks use open source software license text controlled by [1] lice.
			But by using file and directory variables (see <u>File/Directory Variables</u>) they can also be used to
	you want to change the be	ehaviour for only one file, write	ee. So by default, the user options that control the PEL tempo template take effect globally. If a the user option control block at the end of that file. If you want to control the behaviour of the
	allows you to control the u	ser options affecting the form	create a .dir-locals file and store the values of the relevant options variables inside that file. This nat of the tempo templates precisely and does not affect what you actually type.
			g the pel-tempo-mode) you can move to the next or previous point of interest (so called tempo- and C-c M-b or some other keys like C-c . and C-c , .
			n also type the template name and then hit C-c C-M-i or <f12> <f12> <f12>. This rary buffer. This is mainly useful for templates which short names such as "if", "case", etc</f12></f12></f12>
			links to the relevant Erlang language construct reference page.
		s shown below are available	in erlang-mode. Their global equivalent is <f11> SPC e . It is not always shown for brevity.</f11>
<u>if</u>	<f12> <f12> i</f12></f12>	(pel-erl-if)	Insert an if statement.
<u>case</u>	<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.
try +	<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</f12></f12>	(pel-erl-loop)	Insert a simple receive loop.
<u>module</u>	<f12> <f12> m</f12></f12>	(pel-erl-module)	Insert the module attribute.
<u>function</u> C	<f12> <f12> f</f12></f12>	(pel-erl-function)	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> `</f12></f12>	(pel-erl-author)	Insert the author attribute. Uses the user-mail-address user option to insert your mail address.
spec	<f12> <f12> s</f12></f12>	(pel-erl-spec)	Insert a -spec for the function following point.
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
large-header C	<f12> <f12> h</f12></f12>	(pel-erl-large-header)	date. Insert a large header block that includes all normal header fields plus separators.
large-fielder	1122 1122 11	(per-en-large-neader)	The formatting, use of Edoc, use of separator lines, insertion of automatic timestamp and license of this header and the large header used inside all OTP behaviour skeletons below are
			controlled by the user options described above.
			 This command distinguish Erlang module files (files with the .erl extension,) from the Erlang header files (.hrl files) and inserts the appropriate file header block.
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	<f12> <f12> M-a</f12></f12>	(pel-erl-application)	Insert a large file header and template logic for an application behaviour.
supervisor C	<f12> <f12> M-u</f12></f12>	(pel-erl-supervisor)	Insert a large file header and template logic for a supervisor behaviour.
supervisor-bridge C	<f12> <f12> M-b</f12></f12>	(pel-erl-supervisor-	Insert a large file header and template logic for a supervisor bridge behaviour.
generic-server C	2512> 2512> W =	(pel-erl-generic-server)	Insert a large file header and template logic for a gen-server behaviour.
gen-event C	<f12> <f12> M-g <f12> <f12> M-e</f12></f12></f12></f12>	(pel-erl-gen-event)	Insert a large file header and template logic for a gen-event behaviour.
gen-fsm C	<f12> <f12> M-e</f12></f12>	(pel-erl-gen-fsm)	Insert a large file header and template logic for a gen-event behaviour.
gen-statem-StateName		(pel-erl-gen-statem-	Insert a large file header and template logic for a gen-statem behaviour.
C C	\112> \112> M-S	StateName)	insert a large me reader and template logic for a gen statem benaviour.
gen-statem-handle- event	<f12> <f12> M-E</f12></f12>	(pel-erl-gen-statem- handle-event)	Insert a large file header and template logic for a gen-statem.
wx-object C		(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	• C-c C-M-i	(tempo-complete-tag	Look for a tag and expand it.
Insertion	• <f12> <f12> <f12></f12></f12></f12>	&optional SILENT)	Instead of using the <f12> <f12> key bindings above, you can type the template name</f12></f12>
	• <f11> SPC e <f12> <f12></f12></f12></f11>		(shown in the title column like "if", "case", etc) completely or partially and then hit C-c C-M-i . (or <f12> <f12>) A completion buffer opens up if the template name is incomplete (or empty in which case the buffer lists all available template names). Select the template name and hit RET. Emacs expands the template.</f12></f12>
	All the tags in the tag lists in 'tempo-local-tags' (this includes 'tempo-tags') are searched for a match for the text before the point. The way the stri		
	match at all.		tempo-match-finder'. If 'tempo-match-finder' returns nil, then the results are the same as no
			expanded in place of the matching string. .ENT is non-nil, the function will give a signal.
			tion-buffer' is non-nil, a buffer containing possible completions is displayed.

Description	<u>Keystroke</u>	Function	Note
Toggle pel-tempo-mode	<pre><f12> <f12> SPC</f12></f12></pre>	(pel-tempo-mode	Toggle PEL tempo mode on/off.
loggic per tempo mode	<f11> SPC e <f12> SPC</f12></f11>	&optional ARG)	PEL tempo mode activates C-c . and C-c , as well as to C-c C and C-c C-, key bindings to navigate across tempo mark hot-spots. When pel-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. When a skeleton is inserted via the execution of one of the pel-erl commands, the pel-tempo-mode is automatically activated.
Jump to next tempo mark	• C-c M-f • C-c . • C-c C	(tempo-forward-mark)	Jump to the next mark in 'tempo-back-mark-list': the location where code must be updated 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.
Erlang syntax	, ,	programming language can	be done with Emacs built-in flymake as well as with the Vexternal package flycheck.
Checking Using either: Illustrates flycheck or Illustrates flymake	 To activate either set the pel-use-erlang-syntax-check 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, ac 'erlang-mode to the pel-modes-activating-syntax-check user-option. flymake is built-in Emacs. The Emacs erlang package provides erlang-flymake to use with Erlang. PEL automatically installs and activates flycheck when pel-use-goflymake user option is set to 'use-flycheck. 		
	flymake-start-on-flymake- flymake-no-changes-timee flymake-start-syntax-chec The following variable control r flymake-wrap-around: If n	riables determine the exact of mode: t to start checking wout: time to wait after last of the connewline: t to check after a to check	circumstances whereupon Flymake decides to initiate a check of the buffer: when flymake-mode is started. nil to prevent check. hange to start checking. Default = 0.5 seconds. ter insertion or removal of newline char from buffer. nil to prevent check.
	The M-n and M-p keys are ma	apped 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 <u>flycheck</u> or <u>flymake</u>, as selected by the user-option variable <u>pel-use-erlang-syntax-check</u>. 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		ed to compile the files. The I	e code files to .beam files located in the same directory as the source code. Detected errors are buffer shows the location of error and the error description. The following commands are used to
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. A 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	С-с С-р	(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.
Erlang Shell	The following commands are u	sed to explicitly launch an Er	rlang shell inside Emacs.
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 Erlang Shell	<f11> z r</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. C-c C-z starts the Erlang Shell from the Erlang Mode. <f11> z r starts it anytime, as long as it was installed.</f11> Under PEL this command is available only when the pel-use-erlang user option is set to t.
Inside 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. • Cannot type the Erlang Ctrl-G escape to access Erlang JCL Command Menu: To pass the Ctrl-G to the Erlang shell running inside Erlang, type: C-q C-g RET ☐ Unfortunately the above workaround does not work for the Erlang shell invoked via url inside a vterm shell (see ∑ Shells) launched inside Emacs.		
Erlang Shell: Command History	The following commands can be used to retrieve previously issued Erlang shell commands at the shell prompt. The Erlang shell history controlled by Emacs is saved inside a file the is restored when opening a new shell: therefore commands from previously opened Erlang shells are also available. You can also use the Erlang shell commands to access the local shell history.		

<u>Description</u>	<u>Keystroke</u>	Function	Note	
Next shell command	M-n	(comint-next-input ARG)	Cycle forwards through Erlang shell input history.	
Previous shell command	м-р	(comint-previous-input ARG)	Cycle backwards through Erlang shell input history, saving input.	
Using Man inside Emacs and support Erlang Man pages	Emacs provide 2 main commands to display man pages inside buffers. Both of these are much more powerful than the usual man reader available on the shell allowing navigation across man pages and opening hyperlinks. The man command uses the system man utility, while woman is a complete implementation. It has some formatting limitations compared to man but it's very useful in systems where man is not available. To see Erlang man pages using the man command:			
See also: <u>∑ Help/Info</u>	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=`manpath`:/usr/local/Cellar/erlang/22.3.4/lib/erlang/man			
	of Emacs man to fin the E the above example we no	ize the Emacs Man-switche Erlang's man pages without m	s user option variable to something that includes the same directory. This will add the capability nodifying the capabilities of the parent shell. For example, if we want to use the same directory as which is normally set to nil to the following value: /erlang/man"	
	shells that have their own to the man pages of differe and therefore providing the	value of MANPATH. That migent versions of Erlang. It becomes	ories for the man pages of other programming languages while leaving the ability to have several that be very useful for someone that uses different versions of Erlang in a system and needs access omes possible to run different shells inside Emacs with each having its own value of MANPATH cations. It is also possible to place all of these directories inside the Man-switches or MANPATH are topic.	
	directory only. You must al	ght help to see only Erlang to	pics when using the man command completion. To do that , set MANPATH to the Erlang man located in the Erlang man page root directory, otherwise Emacs man completion will not work.	
	EDTS (see below) supports	s the ability to download and ess sections inside the mane	Erlang used by various projects: access man pages of several Erlang versions, tied to your Erlang projects. EDTS provides it's pages, allowing EDTS driven man page access to co-exist with manual man command execution	
Open a man page inside an Emacs buffer See also: • <u>S Help/Info</u> • <u>S Customize</u>	• <f11> ? m • %-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.</f11></f1>	
			Under the second of the secon	
Open a man page without external man process: woman See also:	<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>	
<u>EDTS</u>	EDTS - Erlang Development 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. EDTS is customizable through it edts customization group. With PEL you can open it, with other Erlang specific groups with C-u <f12> <f2>. If you want EDTS to start automatically when you open an Erlang file, set pel-activate-edts-automatically to t. If EDTS has not been activated yet, the only EDTS specific key available is <f12> M-SPC to activate it. Once it's activated the other keys are available. Desktop restoration often far when edts-mode was active on session stored: unfortunately eats does provide a desktop restore handler. PEL does, however provide a desktop restore handler for EDTS which detects edts-mode failures and protect the desktop restoration.</f12></f2></f12>			
Toggle EDTS mode	<f12> M-SPC <f11> SPC e M-SPC</f11></f12>	(edts-mode &optional ARG)	Turn EDTS mode on or off. 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/Cross References			supports navigating in Erlang source code running in the current and remote nodes. in erlang-mode. Their global equivalent is <f11> SPC e. It is not always shown for brevity.</f11>	
Find definition of identifier at point	м	(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: Again with /ebin/ replaced with /src/ • Todo: Again with /ebin/ replaced with /erl/ Otherwise, report that the file can't be found.	
Go back to where M was last issued	м-,	(edts-find-source- unwind)	Unwind back from uses of 'edts-navigate'-commands.	
Lists caller of function 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	all of the buffer. The automatic idle-interval which defaults to	symbol highlighting mode states 1.0 second.	and provides commands to modify the name of the highlighted name in the current function or in tarts when the cursors stays on a symbol for a period longer than the value identified by the ahs - eve point away from the highlighted area.	
Edit all highlighted symbols in current function	• C-c C-d e • <f12> e</f12>	(edts-ahs-edit-current-function)	Once a symbol is highlighted, use this command to start editing all instances of this symbol in the current function. • Activates ahs-edit-mode with edts-current-function range-plugin.	

<u>Description</u>	<u>Keystroke</u>	Function	<u>Note</u>
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. • 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	ible to have several Erlang pr	on using the information extracted from Erlang Man pages. EDTS maintains a set of Erlang man ojects each one with a different version of Erlang and their corresponding man pages.
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 0	<f12> a c</f12>	(edts-code-compile-and-display)	Compiles current buffer on node related to that buffer's project.
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).
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	(pel-render-commented-	Render the Plant IMI markup embedded in current made comment
Preview UML diagram from plantUML source in current plantUML region of commented source code See also: M PlantUML	<f11> u <f11> SCP e u</f11></f11>	plantuml PREFIX &optional POS)	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: • 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 • This can be used inside buffer using any major mode, when PlantUML markup is embedded
	inside source code comment. Use this in source code to describe your code architecture with PlantUML markup, then generate the UML rendering by moving point inside the PlantUM block and issuing this command. Requires the plantuml-mode external package, activated by pel-use-plantuml user option being non-nil.		
Dovolonment Teel	The following commands are used when adding Emacs Lisp support for Erlang.		
Development Tool	9		.,
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.

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 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.
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.
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.
Emacs and Erlang Man files	
How to create a local whatis file	Show how to create aa 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. • If 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. After installing EDTS, I got several compile errors, and had to install the following other modules: - auto-complete (v1.5.1) - have to read doc and configure. And perhaps disable company mode?
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.