Emacs support for the Erlang Programming Language

| <u>Description</u> | <u>Keystroke</u> | Function | Note | | | | |
|--|---|---|--|--|--|--|--|
| Erlang Support | Emacs supports Erlang via the | | | | | | |
| See also: • Erlang Reference | The <u>erlang.el</u> external package (see <u>erlang.el</u> <u>source</u>), part of <u>OTP</u> <u>use</u> PEL activates it with <u>pel-use-erlang</u> . The <u>EDTS</u> external package <u>use</u> PEL activates it with <u>pel-use-edts</u> (set to t or <u>start-automatically</u>). | | | | | | |
| about-erlang | | | pel-use-edts (set to t or start-automatically). with pel-use-erlang-is. Uses the erlang is Erlang LSP server. Integrates with: | | | | |
| Developing Erlang Code with PEL | • William by using helm-lsp | · | es with pel-use-helm-lsp . Sees the <u>enangls</u> Enangled Server. Integrates with: | | | | |
| set PEL Erlang environment | | | es with pel-use-treemacs and pel-use-lsp-treemacs. | | | | |
| | • origami by using Isp-or | | es with pel-use-lsp-origami. | | | | |
| • <u>» Finde/Show</u> • <u>» Text Modes</u> | | | ave mainly been replaced by EDTS and needs maintenance. PEL does not support it. ates it with pel-use-hide-comnt | | | | |
| • <u>National Highlight</u> | The <u>iedit</u> external package | · ~ | s it with pel-use-iedit. | | | | |
| • <u>∑ Inserting Text</u> | The smart-dash external p | oackage. 🛂 PEL activate | es it with pel-use-smart-dash . | | | | |
| | - | | es it with pel-use-smartparens. | | | | |
| | | | omatically in erlang-mode buffers by adding their mode to pel-erlang-activates-minor-modes. electric-pair-local-mode: add electric-pair-local-mode to pel-erlang-activates-minor-modes. | | | | |
| | | cess the customization group and select pairs. | | | | | |
| • <u>∑ Speedbar</u> | ► Useful global minor-modes to activate features in Erlang via pel-activates-global-minor-mode: show-paren-mode ► PEL adds ∑ Speedbar for .erl, .hrl and .escript Erlang files to show the list of functions. | | | | | | |
| . | | nented in: pel-erlang.el, pe | el-erlang-skels.el, sections of pelkey-macros.el and pel keys.el and PEL files they require. | | | | |
| • <u>» Customize</u> | Customization: | wed by the group name an | nd RET to open the specific customization group or one of the following key sequences. | | | | |
| | pel-pkg-for-erlang: to | o activate pel-use-erlang: | use <f11> SPC e <f2>, or <f12> <f2> from an Erlang buffer. This has sub-group: see</f2></f12></f2></f11> | | | | |
| | | to activate EDTS and LSP. when pel-use-erlang is on, | use <f11> SPC e <f3> 1</f3></f11> | | | | |
| | • edts: v | when pel-use-edts is on, | use <f11> SPC e <f3> 3</f3></f11> | | | | |
| | • Isp-mode: v | when pel-use-erlang-Is is o | on, use <f11> SPC e L <f3> 1 on, use <f11> SPC e L <f3> 2</f3></f11></f3></f11> | | | | |
| | | | to control Erlang editing. Only some of them are described here. Use Emacs for the complete list. | | | | |
| € >> | pel-erlang-activates-mi | nor-modes: Schedules ac | ctivation of local minor modes in erlang-mode buffers, eg. smart-dash-mode. | | | | |
| Identify minor modes to activate automatically | | rootdir: Identifies the pare | ent directory of Erlang man directory. The man directory should hold the man1, man3, man4 and | | | | |
| in erlang-mode buffers | | | EL sets (override) the <u>erlang.el</u> <u>erlang-root-dir</u> user-option value with it which activates the erlang-man-parent-rootdir is nil, you must set the erlang-root-dir user-option yourself. | | | | |
| | pel-erlang-exec-path: Identifies the directory where Erlang binaries are stored. pel-erlang-version-detection-method: identifies a mechanism to detect Erlang/OTP version. By default it uses an Erlang script provided with PE | | | | | | |
| P / B / | | | Theorianism to detect Enang/OTT Version. By default it uses an Enang soript provided with TEE. | | | | |
| Erlang Style | | pel-erlang-code-style group: pel-erlang-fill-column: column where line-wrapping occurs: maximum line length (defaults to 100). You can change the value or set it nil. | | | | | |
| Control 🖛 | When pel-erlang-fill-column user option is nil, erlang-mode buffers use the global Emacs fill-column value. pel-erlang-skel-use-separators: whether line separators are used in Erlang code templates (see the Insert Erlang Code Template section below), | | | | | | |
| Ericsson AB Guideline | • pel-erlang-skel-use-secondary-separators : whether secondary separator lines are inserted by some Erlang code templates, | | | | | | |
| Inaka Guideline | pel-erlang-skel-insert-file-timestamp: whether automatically updated time stamps are inserted in Erlang source code file header blocks. pel-erlang-space-after-comma-in-blocks: when turned on, a space is automatically inserted after a comma typed inside a parens block. | | | | | | |
| Open this PDF file. | • <f11> SPC e <f1></f1></f11> | (pel-help-pdf &optional | , in the second | | | | |
| See also: <u>∑ Help/Info</u> | • <f11> SPC e w <f1> • <f11> SPC e L <f1></f1></f11></f1></f11> | OPEN-WEB-PAGE) | the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around. | | | | |
| | • <f12> <f1></f1></f12> | | Key sequences that start with <f11> SPC e are available from any major modes.</f11> | | | | |
| | • <f12> w <f1> • <f12> L <f1></f1></f12></f1></f12> | | Key sequences that start with <f12> are only available in erlang-mode buffers. The <f12> keys sequences are mirrored by the <m-f12> key sequence for convenience.</m-f12></f12></f12> | | | | |
| T Customize DEL Erland | <f11> SPC e <f2></f2></f11> | (pel-customize-pel | Customize PEL Erlang support: access PEL user-options to activate Erlang support packages. | | | | |
| ∑ Customize PEL Erlang support | <f12> <f2></f2></f12> | &optional OTHER- | If OTHER-WINDOW is non-nil (use C-u), display in another window. | | | | |
| | | WINDOW) | Outside France Education and advantage and a substitute to control of the substitute | | | | |
| ∑ Customize Emacs Erlang support | <f11> SPC e <f3></f3></f11> | &optional OTHER- | Customize Emacs Erlang support: erlang, erldoc, edts, auto-highlight-symbol, electricity, smartparens, smart-dash. | | | | |
| | <f12> <f3></f3></f12> | WINDOW) | • If OTHER-WINDOW is non-nil (use c-u), display in another window. | | | | |
| ∑ Customize PEL LSP for Erlang support | <f11> SPC e L <f2></f2></f11> | (pel-customize-pel &optional OTHER- | Customize PEL LSP Erlang support • If OTHER-WINDOW is non-nil (use C-u), display in another window. | | | | |
| 0, | <f12> L <f2></f2></f12> | WINDOW) | This is available when pel-use-erlang-is is turned on. | | | | |
| <u>▼ Customize</u> Emacs | <f11> SPC e L <f3></f3></f11> | (pel-customize-library | Customize Emacs LSP Erlang support: lsp-erlang, lsp-mode, lsp-ui, helm-lsp, lsp-ivy, lsp- | | | | |
| LSP for Erlang support | <f12> L <f3></f3></f12> | &optional OTHER- WINDOW) | origami, lsp-treemacs. • If OTHER-WINDOW is non-nil (use C-u), display in another window. | | | | |
| | | | This is available when pel-use-erlang-is is turned on. | | | | |
| <u>▼ Customize</u> PEL LSP | <f11> SPC e w <f2></f2></f11> | (pel-customize-pel | Customize PEL LSP Erlang support | | | | |
| Window for Erlang support | <f12> w <f2></f2></f12> | &optional OTHER- WINDOW) | If OTHER-WINDOW is non-nil (use C-u), display in another window. This is available when pel-use-treemacs and/or pel-use-lsp-treemacs is turned on. | | | | |
| ∑ Customize Emacs | <f11> SPC e w <f3></f3></f11> | (pel-customize-library | Customize Emacs LSP Erlang support: Isp-treemacs, treemacs | | | | |
| LSP Window for Erlang | <f12> w <f3></f3></f12> | &optional OTHER- WINDOW) | • If OTHER-WINDOW is non-nil (use C-u), display in another window. | | | | |
| support | | , | This is available when pel-use-treemacs and/or pel-use-lsp-treemacs is turned on. | | | | |
| Environment Help | Use the following command to | verify your Erlang environ | ment. | | | | |
| Erlang Mode version | <f11> SPC e ?</f11> | (pel-show-erlang- version) | Display the following information in the minibuffer. | | | | |
| | <f12> ?</f12> | , | of available Erlang system, of erlang.el, of erlang ls (if available), values of erlang-root-dir and pel- | | | | |
| | | erlang-man-parent-rootdi | ir. ACheck that erlang-root-dir matches the version of Erlang you use. If not check the setting of | | | | |
| | | | rootdir. For more information see set PEL Erlang environment. | | | | |
| Syntax Highlighting | The <u>erlang.el</u> external packag Off, Level 1: comments only | | f Erlang code syntax highlighting: maximum variety. | | | | |
| | There is not key binding for thi | s. You must use the Synta | ax Highlighting section of the Erlang menu: nen select Erlang, Syntax Highlighting and the level you want. | | | | |
| | - in terminar mode type <11 | to access the menu, th | ion select chang, symax migninghting and the level you want. | | | | |

| Description | <u>Keystroke</u> | Function | <u>Note</u> | |
|---|---|---|---|--|
| Electric Keys for | | | behaviour of some keys in erlang-mode buffers: | |
| Erlang | | | be behaviour of the RET , , ; and > keys as controlled by erlang-electric-commands variable. Set the behaviour of the DEL and <deletechar< b="">> behaviour when smartparens-mode is active.</deletechar<> | |
| | • Use <f11> (to PEL provides customization a</f11> | toggle smartparens-mode o | | |
| <u> ∑ Customize</u> | The pel-erlang-electric- | keys user-option set which of the RET, ,, ; and > keys have electric behaviour. By default they are all activated. ffer, use the <f12> ~ prefix key followed by one of these keys to toggle the electric behaviour of the key.</f12> | | |
| Toggle , electricity | <f12> ~ ,</f12> | (pel-erlang-comma) | Toggle electric behaviour of the comma key. Show message describing its new state. | |
| Toggle > electricity | <f12> ~ ></f12> | (pel-erlang-gt) | Toggle electric behaviour of the greater-than key. Show message describing its new state. | |
| Toggle RET electricity | <f12> ~ RET</f12> | (pel-erlang-newline) | Toggle electric behaviour of the newline key. Show message describing its new state. | |
| Toggle; electricity | <f12> ~ ;</f12> | (pel-erlang-semicolon) | Toggle electric behaviour of the semicolon key. Show message describing its new state. | |
| Matching Pairs | PEL adds the < > pair to theWith smartparens-mode ac | ne above list. tivated typing the opening c | pairs made of (), [], { }, " " and ' '. character(s) automatically inserts the closing character(s) | |
| | Add smartparens-mod | de to pel-erlang-activates- | activated by pel-use-smartparens. minor-modes to activate smartparens-mode automatically for erlang-mode buffers. electric-pair-local-mode: add electric-pair-local-mode to pel-activates-minor-modes list. | |
| Matching pairs | (| When the smartparens ex | kternal package is used and the smartparens-mode is active, the characters on the left are taken to | |
| | [| | s are: (), [], { }, " ", ' ', and << >> (added by PEL). aracter of a pair, the rest of the pair is inserted and point is left inside. | |
| <u>// x omartparens</u> | { | To enclose a piece of te | xt inside one of those pairs, mark the text area then type the first character of the pair. | |
| | и | minor-modes user-opti | can be activated automatically for Erlang by adding erlang-mode to the pel-erlang-activates- on. | |
| | 1 | | 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. | |
| | << | PEL adds support for <- | | |
| Insert Parentheses | M- (| (insert-parentheses | For Erlang: insert a parenthesis pair '()', leaving point after open-paren. | |
| | (| &optional ARG) | Use this when smartparens is not used. | |
| | No argument is equivalent t PEL makes 'parens-require- | o zero: just insert '()' and lea -spaces' buffer local and se | arenthesis if they are balanced. A negative ARG encloses the preceding ARG sexps instead. ave point between. If region is active, insert enclosing characters at region boundaries. It 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 | | |
| | | &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 newline out of old habit, hence we will do nothing. | |
| Electric behaviour: • indent next line | | The electric behaviour of this key is controlled by 2 variables: • erlang-electric-commands must include the erlang-electric-newline symbol to activate the key electric behaviour. • erlang-electric-newline-criteria identifies how to check whether newline should behave electric. By default, the value is '(t): makes it behave electric as soon as the erlang-electric-commands list includes erlang-electric-newline. | | |
| Electric < • ∑x Smartparens | < | (erlang-electric-lt &optional ARG) | Insert a less-than sign, and optionally mark it as an open paren. • When smartparens-mode is active << automatically inserts the closing pair. | |
| Electric > | > | (erlang-electric-gt &optional ARG) | Insert a greater-than sign, and optionally insert a new line and indent. • Electric behaviour: new line & indent | |
| Electric comma Electric behaviour: | , | (erlang-electric-comma &optional ARG) | Insert a comma character and possibly a new indented line when the comma is at the end of an <u>Erlang expression</u> . • The <i>electric</i> behaviour of this key is controlled by : | |
| • new line & indent | | the erlang-electric-comma-criteria states a list of criteria to determine whether to indent next line or not. Its def '(erlang-stop-when-inside-argument-list erlang-stop-when-at-guard erlang-next-lines-empty-p erlang-at-keyword erlang-at-end-of-clause-p erlang-at-end-of-function-p). | | |
| Electric semicolon Electric behaviour: | ; | (erlang-electric- semicolon &optional ARG) | Insert a semicolon character and possibly a <u>function clause head</u> prototype on the next line. • 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 current line. | |
| insert clause function header | | . The culous alcoholo con | Inserts a function clause <i>head prototype</i> when the selection criteria identified by erlang-electric-comma-criteria indicates that it should be done. Compared to the compared to th | |
| | | The erlang-electric-semicolon-criteria defaults to (erlang-stop-when-inside-argument-list erlang-stop-when-at-gua erlang-next-lines-empty-p erlang-at-keyword-end-p erlang-at-end-of-clause-p erlang-at-end-of-function-p). 'erlang-electric-semicolon-insert-blank-lines' sets # of lines inserted between the current line & new function head | | |
| smart-dash See: Inserting Text | • - • <kp-subtract></kp-subtract> | (smart-dash-insert) | Insert underscore following [A-Za-z0-9_], dash otherwise. See: <u>Note 1 Inserting Text</u> Requires the <u>smart-dash</u> external package. PEL activates it with <u>pel-use-smart-dash</u> , or when smart-dash-mode is in <u>pel-erlang-activates-minor-modes</u> . | |
| Standard delete forward character | • <deletechar> • ☒</deletechar> | (delete-forward-char N &optional KILLFLAG) | Delete the following N characters (previous if N is negative). If Transient Mark mode is enabled, the mark is active, and N is 1, delete the text in the region and deactivate the mark instead. To disable this, set variable 'delete-active-region' to nil. Interactively, N is the prefix arg, and KILLFLAG is set if N was explicitly specified. When killing, the killed text is filtered by 'filter-buffer-substring' before it is saved in the kill ring, so the actual saved text might be different from what was killed. | |
| Delete forward, jump over block pair until block is empty then delete block • <u>§</u> * * * * * * * * * * * * * * * * * * * | • <deletechar> • ☒</deletechar> | (sp-delete-char &optional ARG) | Same as above with the additional behaviour: 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, 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. | |
| Standard delete backward character | • DEL • 图 | (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 additional behaviour: 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. 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 | |
| with smartparens- mode active | | | 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. | |

| <u>Description</u> | <u>Keystroke</u> | Function | <u>Note</u> | | |
|--|---|--|---|--|--|
| 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 on 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 | M-; | (comment-dwim ARG) | Comment line or region with % or %% style comments depending on the location in the buffer. | | |
| comment-dwim specialized for Erlang. Automatically uses the | | (pel-erlang-comment- dwim &optional ARG) | 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 %%% . | | |
| %%% comment when appropriate. ★★ Note: | With marked un-commente With marked commented re | On first em On line wit d region: Comment region gion: Un-comments the | | | |
| • M-; works much better than C-c C-c and C-c C-u | ➤ The <u>erlang.el</u> code binds ► | 1–1 to indent-for-comment. | However PEL uses M-1 for something else. s indent-for-comment if nothing is marked. | | |
| PEL maps M-; to pel-erlang-comment- dwim which works even better. | 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. • If ARG is negative, delete that many comment characters instead. | | |
| See also: <u>∑ Comments</u> | By default, the 'comment-s | start' markers are inserted a | d 'comment-padding'; the comment end by 'comment-end' and 'comment-padding'. It the current indentation of the region, and comments are terminated on each line (even for nd 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. | | |
| Toggle display of comments in buffer or active region See also: <u>∑ Comments</u> | <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-commt.el package PEL activates it with pel-use-hide-commt | | |
| Filling Text See also: Filling/Justification | Text wrapping and filling applies to all text in the Erlang buffer: code and comment. The auto-fill command will automatically wraps code and comments. Filling Erlang code does not work as it treats code as normal text. But filling comment paragraphs is useful. The fill-column variable controls where text wraps. pel-show-fill-column <f11> t f ? shows its value. Use set-fill-column (C-x f) to set it. Toggle a vertical line that shows it with <f11> 8.</f11></f11> | | | | |
| 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. | | |
| Indentation | All syntactic indentation control for Erlang is controlled by the CC-Mode logic and provided commands listed below. • Rigid indentation commands are also available and listed at the end of this list. They are also listed in the \(\subseteq \) 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. | | |
| See also: Indentation Erlang Guidelines: Ericsson AB: try to limit most code to 2 levels of indentation. Inaka: indentation level = 2 space chars. | 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 or <f11> SPC e <f3> 1. Or use <f11> <f2> g erlang RET.</f2></f11></f3></f11></f3></f12> <tab> performs syntactic indentation.</tab> 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. | | | | |
| 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 See also: <u>∑ Indentation</u> | С-М-д | (prog-indent-sexp &optional DEFUN) | Indent the expression after point. When interactively called with prefix, indent the enclosing function 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> | | |

| <u>Description</u> | <u>Keystroke</u> | Function | <u>Note</u> | | | |
|---|---|--|---|--|--|--|
| Navigation in Erlang code See also: • <u>Navigation</u> • Moving by Defuns | The erlang-mode provides commands to navigate across Erlang source code. PEL complements these. And EDTS also. Several commands are specialization of the normal navigation commands which are described in the table <u>Navigation</u> , but several are specific to Erlar Notice the 3 sets of commands: 1. <f12> <up> and <f12> <down> move to the beginning of Erlang functions skipping all compiler directives. 2. The standard navigation commands, (mapped to <f6> prefix) move to beginning/end of Erlang functions but stop at compiler directives. 3. The <f12> <m-cursor> commands (also accessible via <m-f12> <m-cursor>, move across Erlang clauses (as opposed to functions). The list below describe the specialized commands only. See the others inside <u>Navigation</u>, like the navigation by blocks.</m-cursor></m-f12></m-cursor></f12></f6></down></f12></up></f12> | | | | | |
| | Note that all <f12> prefixes shown below are available in erlang-mode. Their global equivalent is <f11> SPC e. It is not always shown for brevity. Some navigation examples use icons to represent point position. The start position is shown as with following positions as 1 to 0.</f11></f12> | | | | | |
| By <u>Function</u> | Move to next/previous function beginning/end at/skipping compiler directives. Skips clauses. | | | | | |
| to start of function | Move to beginning of function | | | | | |
| Go 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. Moves point to the first character of the function name. With prefix argument N repeat N times. Pushes mark; move back to previous position with M-\[^\]. | | | |
| | • <f11> SPC e f p</f11> | | 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. PEL activates it with pel-use-edts (set to t or start-automatically). | | | |
| to start of function/ directive | Move to beginning of function 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- of-function &optional ARG) | 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> | | | |
| Go forward to | <f12> f N</f12> | (pel-beginning-of-next- | 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-`. Shift marking is available for the <f6> bindings.</f6> | | | |
| to end of function | Move to end of function 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 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 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- <end>>). However <f6> <right> handle Shift-marking fine in terminal mode.</right></f6></end> | | | |
| By <u>Expression</u> functions, etc | The following commands mov They do not move across ex | e to the beginning/end of six epressions in a sequence of | sequence ends with a period. Expressions in expression sequences are separated by commas. Ingle expression or expression sequence. expressions. Ission, these commands move across function definitions. | | | |
| Go to beginning of statement | 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−`. → 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 | Erlang syntax uses balanced b () for function p { } for tuples, re [] for lists " " for strings | arameters, expression grou cords, maps | | | |
| See also: • <u>∑</u> X Smartparens | | be activated automatically | tental support in PEL. Under development. for Erlang by adding erlang-mode to the pel-erlang-activates-minor-modes user-option. | | |
| | Standard Erlang support provi | de some commands to navi | 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 | <u> </u> | | of a block, skipping over Erlang terms inside these blocks. | | |
| Go backward to | • C-M-p | (backward-list &optional | | | |
| beginning of previous block • Skips terms. | - | ARG) | 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. | | |
| | | | <pre>-spec ejabberd_started6() -> ok. ejabberd_started5() -> gen_server:call4(?MODULE, ejabberd_started, ?CALL_TIMEOUT).</pre> | | |
| | | | <pre>-spec config_reloaded3() -> ok. config_reloaded2() -> gen_server:call1(?MODULE, config_reloaded, ?CALL_TIMEOUT).0</pre> | | |
| Go backward to end of previous block Skips terms. ∑X Smartparens | <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. | | |
| with smartparens- mode active | | | <pre>-spec ejabberd_started() 6 -> ok. ejabberd_started() 5 -> gen_server:call(?MODULE, ejabberd_started, ?CALL_TIMEOUT) 4.</pre> | | |
| | | | <pre>-spec config_reloaded()3 -> ok. config_reloaded()2 -> gen_server:call(?MODULE, config_reloaded, ?CALL_TIMEOUT)1.0</pre> | | |
| 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. | | |
| | | | <pre>0-spec ejabberd_started()1 -> ok. ejabberd_started()2 -> gen_server:call(?MODULE, ejabberd_started, ?CALL_TIMEOUT)3.</pre> | | |
| | | | <pre>-spec config_reloaded()4 -> ok. config_reloaded()5 -> gen_server:call(?MODULE, config_reloaded, ?CALL_TIMEOUT)6.</pre> | | |
| Go forward to beginning of next block Skips terms. The prostructure of the control of the cont | <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'). | | |
| <u>X Smartparens</u> with smartparens- mode active | | | <pre>0-spec ejabberd_started1() -> ok. ejabberd_started2() -> gen_server:call3(?MODULE, ejabberd_started, ?CALL_TIMEOUT).</pre> | | |
| | | | <pre>-spec config_reloaded 4() -> ok. config_reloaded 5() -> gen_server:call 6(?MODULE, config_reloaded, ?CALL_TIMEOUT).</pre> | | |
| By Blocks and Terms | Several Linux distros map | <pre>cleft> and Esc C-<righ c-m-<left=""> and C-M-<r< pre=""></r<></righ></pre> | | | |
| 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> | (backward-sexp &optional ARG) | Move backward backward to beginning of previous term or block. • With ARG, do it that many times. • A negative arg N means move forward to end of N terms/blocks. • At beginning of block, jump out of the current one. • This command assumes point is not in a string or comment. • C-M-p : Shift marking is available in graphics mode, not in terminal mode. • C-M-b : Shift marking is available in graphics mode, not in terminal mode. • C-M- <left> : Shift marking works with this command.</left> | | |
| X Smartparens with smartparens- mode active: - C-M-b and <m- f7=""> b use sp- backward-sexp, </m-> | • 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. | | |
| others are using backward-sexp | | | <pre>ejabberd_started() -> gen_server:call 9 (?MODULE, ejabberd_started, ?CALL_TIMEOUT). -8 spec 7 config_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(?3 MODULE, 2 ejabberd_started, ?1 CALL_TIMEOUT 0).</pre> | | |
| | | | gen_server:call(?3MODULE, 2ejabberd_started, ?1CALL_TIMEOUTO). 5 | | |

| <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> | (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> |
| \$\sumes\$ \times \text{Smartparens} \\ \text{with smartparens-mode active:} \\ \text{C-M-f and <m-f7> f use sp-forward-sexp,} \\ \text{others are using forward-sexp} \] </m-f7> | • 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-spec 1 ejabberd_started 2() 3 -> ok 4. ejabberd_started 5() 6 -> gen_server 7: call 8(?MODULE, ejabberd_started, ?CALL_TIMEOUT) 9. -spec 10 config_reloaded() -> ok. config_reloaded() -> gen_server: call (0?MODULE 1, config_reloaded 2, ?CALL_TIMEOUT 3). |
| 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() -> [2error, {3noreply, State}}, example good, {{year, 1974}, group, "Contraction"}, {song, "A la claire fontaine"}, {song, "L'alarme à l'oeil"}, {song, "La bourse ou la vie"}] {rating, excellent}}} |
| Into block backward • | • <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) -> [{error, {noreply, State}}, |
| to edge of block | | | |
| To beginning of block • ∑x Smartparens 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, {{1year, 19074}, |
| To end of current block • forward • ∑x Smartparens with smartparens- mode active | <m-f7> e</m-f7> | (sp-end-of-sexp &optional ARG) | <pre>Import of the current block. 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, 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() -> {</pre> |

| <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 | | |
| <u>XX Smartparens</u> with smartparens- mode active | | , | expression. 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. | | |
| | | | <pre>music_info() -> {{er Oror, {noreply, State}}1,</pre> | | |
| 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 | | |
| X Smartparens with smartparens- mode active | | | <pre>expression. music_info() -></pre> | | |
| Move over space | The commands all use the **\sum \tilde{x} \tilde{Smartparens} \text{ external package and required smartparens-mode minor-mode to be active.} ***Current implementation of sp-forward-symbol and sp-backward-symbol stop inside comments. I consider this a bug **\tilde{w}\$ so I reported and submitted a potential fix. Until these are integrated PEL implement workaround commands that do not stop inside comments: pel-sp-forward-symbol and pel-sp-backward-symbol. PEL binds the key sequence to those until 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. • If STOP-INSIDE-STRING is non-nil, stop before exiting a string. | | |
| <u>XX Smartparens</u> with smartparens- mode active | | AFTER-STRING STOP-INSIDE-STRING) | <pre>start_app(App) -> 0</pre> | | |
| To end of next symbol or block • <u>**** Smartparens</u> with smartparens-mode 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 **** *** note above. | | | <pre>start_app(App) -> % first clause start_app(AppO, temporary1). start_app(AppO, Type1) -> % second clause StartFlag2 = not3 is_loaded4(), start_app5(App6, Type7, StartFlag8).</pre> | | |
| To beginning of previous • <u>**** Smartparens</u> with smartparens- | <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 | | |
| mode active See im in note above. | | | <pre>classes. 8start_app(7App) -> % first clause 6start_app(5App, 4temporary).</pre> | | |
| | | | <pre>3start_app(2App, 1Type) -> % second clause 0StartFlag = not is_loaded(), start_app(App, Type, StartFlag).</pre> <pre> ** example</pre> | | |
| Skip forward past whitespace | <m-f7> SPC .</m-f7> | (sp-forward-whitespace &optional ARG) | Skip forward past the whitespace characters. • With non-nil ARG return number of characters skipped. | | |
| <u>XX Smartparens</u> with smartparens- mode active | | | <pre>start_app(App) -> 0</pre> | | |
| Skip backward past whitespace | <m-f7> SPC ,</m-f7> | (sp-backward- whitespace &optional ARG) | Skip backward past the whitespace characters. • With non-nil ARG return number of characters skipped. | | |
| <u>X</u> Smartparens with smartparens- mode active | | | <pre>start_app(App) -> 1</pre> | | |
| | | | <pre>OStartFlag = not is_loaded(), start_app(App, Type, StartFlag).</pre> | | |
| | | | 7 | | |

| Marking See also: ∑ Marking These commands complement what is already available and described in the ∑ Marking table. • The first 2 command listed below are Erlang-mode specific marking functions. • For those 2 commands the ☑ Erlang.el man page indicates an invalid mapping for this. Reported as ERL-1314. • The useful er/expand-region benefits from PEL enhancement 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, of direction of marking. • With positive ARG, mark this and that many next functions; with negative ARG, of direction of marking. • If the mark is active, it marks the next or previous function(s) after the one(s) alreaded by a contain point at beginning. Mark region by semantic unit, increase marked region on each warked region and each warked region and each warked region and each warked region package, ☑ activated by pel-use-expand-region | nange the dy marked. |
|--|----------------------|
| For those 2 commands the Friang.el man page indicates an invalid mapping for this. Reported as ERL-1314. The useful er/expand-region benefits from PEL enhancement to erlang syntax table supporting the < > pair therefore it is also mentioned here. Mark Erlang function | nange the dy marked. |
| Mark Erlang function • C-M-h (mark-defun & optional ARG) • <f12> f m (erlang-mark-function & optional ARG) Mark Erlang Clause • C-c M-h • <f12> c m (erlang-mark-clause) Mark region by semantic unit, increase</f12></f12> | nange the dy marked. |
| ARG) • <f12> f m (erlang-mark-function & optional ARG) • C-c M-h • <f12> c m (erlang-mark-clause) • Mark Erlang Clause • Mark region by semantic unit, increase</f12></f12> | dy marked. |
| • <f12> f m (erlang-mark-function & optional ARG) • With positive ARG, mark this and that many next functions; with negative ARG, clairection of marking. • If the mark is active, it marks the next or previous function(s) after the one(s) alreaded the mark at end of clause, point at beginning. • Mark region by semantic unit, increase • M—= (er/expand-region ARG) • With positive ARG, mark this and that many next functions; with negative ARG, clairection of marking. • Unit mark at end of clause, point at beginning. • M—= (er/expand-region ARG) • Min positive ARG, mark this and that many next functions; with negative ARG, clairection of marking. • Unit mark at end of clause, point at beginning. • Mark region by semantic unit, increase</f12> | dy marked. |
| Mark Erlang Clause • C-c M-h • <f12> c m Mark region by semantic unit, increase • M-= (er/expand-region ARG) • If the mark is active, it marks the next or previous function(s) after the one(s) alrea • Loc M-h • <f12> c m (er/expand-region ARG) Increase selected region by semantic units.</f12></f12> | |
| • <f12> c m Mark region by semantic unit, increase • M-= (er/expand-region ARG) Increase selected region by semantic units. Requires the expand-region package Activated by nel-use-expand-region </f12> | n user |
| Mark region by semantic unit, increase selected region by semantic units. (er/expand-region ARG) Increase selected region by semantic units. | n user |
| semantic unit, increase | n user |
| marked region on each • <f11> . =</f11> | |
| invocation. option. | |
| With prefix argument expands the region that many times. 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. | Гће |
| expansions follow the semantics of the current major mode: it is aware of the semantics of several programming languages. The Once M-= is typed, you can quickly type the following single keys in sequence: | |
| • = to expand the region, | |
| to contract the region, 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. | |
| • Also you can 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 | e region with |
| cursors. | |
| The following commands provides specialized copy and cloning operations. They are provided by <u>∑x Smartparens</u> • <u>∑x Smartparens</u> • With PEL the commands that are marked with display the copied string when pel-show-copy-cut-text is t. Toggle this display with <f.< th=""><th>11> M-=</th></f.<> | 11> M-= |
| Copy current & forward <m-f7> = (sp-copy-sexp & optional Copy the following ARG expressions to the kill-ring.</m-f7> | |
| block(s) ARG) This is exactly like calling 'sp-kill-sexp' with second argument t. All the special prefi work the same way. | x arguments |
| Copy previous block(s) (sp-backward-copy-sexp & optional ARG) (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 sarguments work the same way. | pecial prefix |
| clone current block (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 pu | ut 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 code. Some need external packages. | |
| iEdit mode iEdit Mode - Edit multiple instances of variable/symbols simultaneously. This mode is very useful to rename symbols or variable during | refactoring. |
| See also: Thighlight Requires the iedit external package. PEL activates it with pel-use-iedit. | |
| Toggle iedit mode See also: C−; (iedit-mode &optional See also: ARG) Toggle iEdit mode: edit all symbols in scope or region simultaneously. ARG) Toggle iEdit mode: edit all symbols in scope or region simultaneously. ARG) | |
| • <fi1> e • ∑ Cursor • ∑ Search/Replace • <fi1> m i • ARG) ARG ARG 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 yo • See ∑ Search/Replace where all the iedit-mode commands are described.</fi1></fi1> | u see it. |
| Align arrows inside c-c c-a (erlang-align-arrows START END) Align arrows ("->") in function clauses inside marked region or in the current function clauses inside marked region or in the current function of the region (" -> ") in function clauses inside marked region or in the current function of the region or in the region or in the region or in the region or in the current function clauses inside marked region or in the current function of the region or in the current function clauses inside marked region or in the current function of the region or in the current function clauses inside marked region or in the current function of the region or in the reg | |
| point), not just those in function clauses. | or up to |
| Before: After C-c C-a: sum(L) -> sum(L, 0). sum(L) -> sum(L, 0). | |
| <pre>sum([H T], Sum) -> sum(T, Sum + H);</pre> | |
| To align something else Before: After C-u C-c C-a: | |
| than clauses, select the check(P, [H T]) -> check(P, [H T]) -> code and type: case P(H) of case P(H) of | |
| C-u C-c C-a true -> 1; true -> 1; false -> 0 false -> 0 | |
| end; end; | |
| Transpose block elements (sp-transpose-sexp & optional ARG) (sp-transpose-sexp & optional ARG) (sp-transpose-sexp & optional ARG) Transpose the expressions around point. • The operation will move the point after the transposed block, so the next transpose optional ARG. | se will "drag" |
| it forward. • 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, pushing the word backward, pushing the | |
| Before (for all following examples): | |
| AList = [1, 2, 3, [10,11,12,[22,33,44]], 5, 6, 7, 8,[]]. After <m-f7> t:</m-f7> | |
| AList = [1, 2, [10,11,12,[22,33,44]], 3 , 5, 6, 7, 8,[]]. After M-2 < M-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 <m-f7> t: AList = [[10,11,12,[22,33,44]], {first,[1, 2, 3]} , 5, 6, 7, 8</m-f7> | ,[]]. |
| After M-2 <m-f7> t: AList = [[10,11,12,[22,33,44]], 5, {first,[1, 2, 3]} , 6, 7, 8</m-f7> | ,[]]. |
| 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:</m-f7> | |
| AList = [{first,[1, 3 , 2]}, [10,11,12,[22,33,44]], 5, 6, 7, 8 | ,[]]. |
| Push current block after next (sp-push-hybrid-sexp) Push the hybrid sexp after point over the following one. Before: After <m-f7> s:</m-f7> | |
| * ** ** ** ** ** ** ** ** ** ** ** ** * | |
| mode active [10,11,12,[22,33,44]], [3, 6, 7, 8,[], 5, 6, 7, 8,[]]. | ,44]]]. |

| Description | <u>Keystroke</u> | Function | Note | | |
|--|------------------------------|---|---|---|--|
| Transform - slurp | The following commands perfo | orm slurping operations, how | wever support for Erlang could be improved as the | e commands do not always work properly. | |
| Enclose next outside element into current block • <u>Sx Smartparens</u> with smartparens-mode active | <m-f7> ></m-f7> | (sp-forward-slurp-sexp &optional ARG) | Add sexp following the current list in it by moving the closing delimiter. If the current list is the last in a parent list, extend that list (and possibly apply recursively until we can extend a list or end of file). If ARG is N, apply this function that many times. If ARG is negative -N, extend the opening pair instead (that is, backward). If ARG is raw prefix C-u, extend all the way to the end of the parent list. If both the current expression and the expression to be slurped are strings, they are joined together. | | |
| | | | This command does not always work well for Use the next command for Erlang in thos Before: | - | |
| | | | Names = []Joe. Before: | Names = [Joe.] | |
| | | | AList = [[1, 2, 3], 4, 5]. Before: AList = [1, 2, 3, | After <m-f7> >: AList = [[1, 2, 3 4,], 5]. % After M <m-f7> >: AList = [1, 2, [3,</m-f7></m-f7> | |
| | <m-f7> M-></m-f7> | (sp-slurp-hybrid-sexp) | This commands works a little differently and hand | 5, 6, 7, 8,[]]. dles some Erlang statement better, but not all. | |
| | | | <pre>Before: Names = []Joe. Before: AList = [[1, 2, 3], 4, 5].</pre> | After <m-f7> M->: Names = [Joe] . After <m-f7> M->: AList = [[1, 2, 3 4],, 5]. %</m-f7></m-f7> | |
| Enclose previous outside element(s) into next block | <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, exter 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 = [0, 1, [2, 3], 4], 5]. Before: | After <m-f7> <: AList = [0, [1, 2, 3, 4], 5]. After M-2 <m-f7> <:</m-f7></m-f7> | |
| | | | AList = $[0, 1, [2, 3 , 4], 5]$. | AList = [[0, 1, 2, 3], 4], 5]. | |
| | | - | After C-u <m- 1, [2, 3, 4], 5]. AList = [[-2,</m- | -1, 0, 1, 2, 3, 4], 5]. | |
| Enclose next element(s) into previous block • ∑x Smartparens with smartparens-mode active | <m-f7>]</m-f7> | (sp-add-to-previous- sexp &optional ARG) | Add the expression around point to the first list p With ARG positive N add that many expression If ARG is raw prefix argument C-u add all expr previous list. If ARG is raw prefix argument C-u C-u add the | ns to the preceding list. essions until the end of enclosing list to the | |
| • 1. tan | | This command does not seem to work properly for Erlang as shown by the following examples: | 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 • ∑X Smartparens | <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 expression If ARG is raw prefix argument C-u add all expr the following list. If ARG is raw prefix argument C-u C-u add the | ns to the following list. essions until the beginning of enclosing list to | |
| with smartparens- mode active | | This command works fine in Erlang for the following code examples: | Before: AList = [1, 2, [3, 4]]. | After <m-f7> [: AList = [1, [2, 3, 4]].</m-f7> | |
| | | | Before: AList = [1, 2, [3, 4]]. | After C-u <m-f7> [: AList = [[1, 2, 3, 4]].</m-f7> | |
| | | | Before: AList = [[1, 2], [3, 4]]. | After C-u C-u <m-f7> [: AList = [[[1, 2], 3, 4]].</m-f7> | |
| Transform - barf | The following commands extra | act members from block | | | |
| Eject next element(s) out of current block • <u>SX Smartparens</u> with smartparens- mode active • 1 2000 | <m-f7> /</m-f7> | (sp-forward-barf-sexp &optional ARG) | Remove the last sexp in the current list by movin If ARG is positive number N, barf that many ex If ARG is negative number -N, contract the op If ARG is raw prefix C-u, barf all expressions fr and place the point before the closing delimite If the current list is empty, do nothing. | pressions. ening pair instead. om the one after point to the end of current list | |
| | | The forward command does not seem to work properly for Erlang as shown by the following examples: | Before: AList = [[1, 2, 3, 4]]. Before: AList = [[1, 2, 3, 4]]. | After <m-f7> /: AList = [[1, 2, 3,] 4]. % After M <m-f7> /: AList = [1, [2, 3, 4]].</m-f7></m-f7> | |
| 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' • In other words, instead of contracting the clos more information, see the documentation of 's | ing pair, the opening pair is contracted. For | |
| <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> M-/: AList = [1, [2, 3, 4]].</m-f7> | |
| | | | Before: AList = [[1, 2, 3, 4]]. | After M-3 <m-f7> /: AList = [1, 2, 3, [4]].</m-f7> | |

| <u>Description</u> | <u>Keystroke</u> | Function | Note Note | | t <u>e</u> |
|--|---|---|--|--|--|
| Re-wrap block | Use the following commands t | to change the wrapping cha | racter pair surrounding a block | | |
| Re-wrap current block • » ** Smartparens with smartparens- mode active | <m-f7> r</m-f7> | (sp-rewrap-sexp PAIR &optional KEEP-OLD) This command works fine in Erlang for the following code examples: | With C-u, keep old delimiter | and wrap with PA | cter. Prompt for the pair beginning character. IR on the outside of the current expression. After <m-f7> r {: AList = [{1, 2, 3, 4}] After C-u <m-f7> r {: AList = [{[1, 2, 3, 4]}]</m-f7></m-f7> |
| Swap current block and parent block wrapping characters • <u>SX Smartparens</u> with smartparensmode active | <m-f7> w</m-f7> | (sp-swap-enclosing- sexp &optional ARG) This command works fine in Erlang for the following code examples: | Swap the enclosing delimiters of With N > 0 numeric argument | of this and the pare t, ascend that man | ent expression. |
| Un-wrap block | | | | | |
| Extract all elements from current/next block • <u>S</u> * Smartparens with smartparens- | <m-£7> U</m-£7> | (sp-unwrap-sexp &optional ARG) This command works fine | | oression as returne p Nth expression b | packwards as returned by 'sp-backward-sexp' After <m-f7> U:</m-f7> |
| mode active | | code examples: Before: AList = [1, 2, [3, | Before: AList = ({[1, 2, 3, 4] | }). After <m-f7></m-f7> | AList = [[{1, 2, 3, 4}]. After <m-f7> U: AList = ({1, 2, 3, 4}). U: [2, 3, 4, 5, [6, 7], 8].</m-f7> |
| | | Before: AList = [1, 2, [3, | | After M-2 <m-< th=""><th></th></m-<> | |
| Extract all elements from previous block | <m-f7> W</m-f7> | (sp-backward-unwrap- sexp &optional ARG) | Unwrap the previous block. Unwrap the previous expressio | | |
| <u>Sx Smartparens</u> with smartparens- mode active | | | With ARG N, unwrap Nth expre 'sp-backward-sexp'. If ARG is forward as returned by 'sp-forw | negative -N, unwra | |
| | | This command works fine in Erlang for the following code examples: | Before: AList = ({[1, 2, 3, 4] | }). | After <m-f7> W: AList = ({1, 2, 3, 4}).</m-f7> |
| | | oodo oxampioo. | | | Again After <m-f7> W: AList = (1, 2, 3, 4).</m-f7> |
| | | | Before: | | Again After <m-f7> W: AList = 1, 2, 3, 4.</m-f7> |
| | | | AList = [0, 1, [2, 3, | | After <m-f7> W: List = [0, 1, 2, 3, 4, 5].</m-f7> |
| | | Before: AList = [1, 2, [3, 4 |], 5, [6, 7], 8]. | - | 2, [3, 4], 5, 6, 7, 8]. |
| Split & Join | | Before: AList = [1, 2, [3, 4 | | After M-2 <m- AList = [1, 3</m- | ±7> W: 2, 3, 4, 5, [6, 7], 8]. |
| Split block • ∑X Smartparens with smartparens- | <m-f7> </m-f7> | (sp-split-sexp ARG) | Split the list or string the point i If ARG is a raw prefix C-u sp with delimiters of the current | olit all the sexps in | current expression in separate lists enclosed |
| mode active | | | , 5, 6, 7], 8]. | _ | , [3, <mark>4,] </mark> [5, 6, 7], 8]. % |
| | | <pre>Before: Name = "Joe Armstro Before:</pre> | ong". | After <m-f7> Name = "Joe ' After C-u <m-< th=""><th>" "Armstrong".</th></m-<></m-f7> | " "Armstrong". |
| | | AList = [1, 2, [3, 4 | | | , [3], [4], [5], [6], [7], 8]. |
| Join blocks • <u>∑X Smartparens</u> with smartparens- mode active | <m-f7> J</m-f7> | (sp-join-sexp &optional ARG) | If ARG is negative -N, join N | xpressions after the expressions before in all the terms up | e point with the one before the point. the point with the one after the point. until the end of current expression. |
| | | | [, 4], [5, 6], 7]. | | 1, [2, 3, 4], 5, 6], 7]. |
| | | Before: AList = [[0, 1] , [2 | , 3, 4] <mark>,</mark> [5, 6], 7]. | After M-2 <m- AList = [[0,</m- | |
| Search Support | PEL activates the superwork | d mode by default in Erlang | snake case is often used. Usin mode. To change this use the | f11> t <f2> to</f2> | access the customize buffer. |
| Toggle superword- mode • ∑ Text Modes • ∑ Search/Replace | <f11> M-p <f11> t m p <f11> SPC e M-p</f11></f11></f11> | (superword-mode &optional ARG) | treated as part of words. | | s snake case as one word. In Erlang, '_' are node if ARG is positive, disable it otherwise. |
| Highlighting blocks | show-paren-mode, which his | ighlights the parens that ma | e useful modes to highlight block tches the one before or after poi is are highlighted with the same | nt. | |
| Toggle show-paren mode on/off | • <f12> M-9 • <m-f12> M-9</m-f12></f12> | (show-paren-mode &optional ARG) | otherwise. | enable Show Pare | en mode if ARG is positive, and disable it |
| See also: <u>Neighlight</u> | • <f11> h (• <f11> SPC e M-9</f11></f11> | | Show Paren mode is a globa highlighted in 'show-paren-s | tyle' after 'show-pa | en enabled, any matching parenthesis is aren-delay' seconds of Emacs idle time. |
| Toggle colouring of nested blocks See also: <u>Neighblight</u> | • <m-f12> M-r</m-f12> | (rainbow-delimiters- mode &optional ARG) | Customize the depth and co | lours with M-x cus | es with colours according to their depth. tomize-group rainbow-delimiters py pel-use-rainbow-delimiters. |
| | • <f11> h R</f11> | | | | |

| Description | | <u>Keystroke</u> | Function | <u>Note</u> | |
|---|------|---|---|---|--|
| Edit Erlang Code | | The following commands help | edit Erlang code. | | |
| Create additional clause | | C-c C-j | (erlang-generate-new-clause) | Create additional Erlang clause header. 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 name and the first parenthesis is preserved. The point is placed between the parentheses. | |
| Clone clause arguments | | С-с С-ұ | (erlang-clone- arguments) | Insert, at the point, the argument list of the previous clause. 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. The mark is set at the beginning of the inserted text, the point at the end. | |
| Insert Erlang Coo with Specialized Tempo Skeletons | | PEL provides the following a Quick access keys to ins | additional functionality: ert the templates, all mappe | tons, available on the Erlang/Skeletons menu (via <f10>) d under the pel:erlang-skel key prefix: <f12> <f12>.</f12></f12></f10> | |
| | - | | | h a +. These are also added to the menu. | |
| Erlang Style Control 🖝 | | | | Style is controlled by the user options inside the pel-erlang-code-style group. The controlled t user options are part of the pel-erlang-code-style group accessible with <f12> <f2> from an : : set whether an automatically updated timestamp is inserted in the file header block.</f2></f12> | |
| San alaas | | pel-erlang-skel-prom pel-erlang-skel-prom | pt-for-purpose 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. | |
| See also: • <u>∑ Inserting Text</u> f | or | pel-erlang-skel-prom | pt-for-function-arguments | 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 | ndary-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 | b | 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 <u>lice</u> . | |
| different yasnippet | | | | But by using file and directory variables (see File/Directory Variables) they can also be used | |
| template-based terrinsertion). + : additional template: C : templates with customization control | tes | to take effect on a single file or all files inside a directory tree. So by de If you want to change the behaviour for only one file, write the user opti the PEL tempo templates for all files inside a directory tree create a .dir. This allows you to control the user options affecting the format of the te Once a skeleton was just entered (or later by activating the pel-tempo-marks) with the standard tempo-mode keys C-c M-f and C-c M-b Instead of using the <f12> <f12> bindings, you can also type the tempo-marks.</f12></f12> | | recovery 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 tree create a .dir-locals file and store the values of the relevant options variables inside that file, here format of the tempo templates precisely and does not affect what you actually type, and the pel-tempo-mode) you can move to the next or previous point of interest (so called tempo-fand C-c M-b or some other keys like C-c and C-c, and C-c, and C-c. This is mainly useful for templates which short names such as "if", "case", etc to links to the relevant Erlang language construct reference page. | |
| ∑ Customize PEL Er Skeletons layout | lang | Note that all <f12> prefixe <f12> <f12> <f2></f2></f12></f12></f12> | (pel-customize-pel &optional OTHER- WINDOW) | e in erlang-mode. Their global equivalent is <f11> SPC e . It is not always shown for brevity. Customize PEL Erlang skeleton layout. If OTHER-WINDOW is non-nil (use C-u), display in another window.</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. | |
| <u>receive</u> | | <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> | С | <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. | |
| <u>spec</u> | | <f12> <f12> s</f12></f12> | (pel-erl-spec) | Insert a -spec for the function following point. | |
| small-header | С | <f12> <f12> M-h</f12></f12> | (pel-erl-small-header) | Insert a small file header without any comment. | |
| normal-header | С | <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 | С | <f12> <f12> h</f12></f12> | (pel-erl-large-header) | Insert a large header block that includes all normal header fields plus separators. All formatting is controlled by user-options described above. Distinguish Erlang .erl module files from the .hrl header files. | |
| small-server | С | <f12> <f12> M-s</f12></f12> | (pel-erl-small-server) | Insert a large file header and template logic for a small server. | |
| application | С | <f12> <f12> M-a</f12></f12> | (pel-erl-application) | Insert a large file header and template logic for an application behaviour. | |
| supervisor supervisor-bridge | С | <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> . | |
| super visor-bridge | | 1127 \1127 M-D | bridge) | moore a raige me neader and template logic for a <u>supervisor britinge benaviour</u> . | |
| generic-server | С | <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 | С | <f12> <f12> M-e</f12></f12> | (pel-erl-gen-event) | Insert a large file header and template logic for a gen-event behaviour . | |
| gen-fsm | С | <f12> <f12> M-f</f12></f12> | (pel-erl-gen-fsm) | Insert a large file header and template logic for a gen-fsm behaviour. | |
| gen-statem-StateNa | C | <f12> <f12> M-S</f12></f12> | (pel-erl-gen-statem- StateName) | Insert a large file header and template logic for a gen-statem behaviour. | |
| gen-statem-handle- event | С | <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 | С | <f12> <f12> M-W</f12></f12> | (pel-erl-wx-object) | Insert a large file header and template logic for a wx-object generic server. | |
| gen-lib | С | <f12> <f12> M-1</f12></f12> | (pel-erl-gen-lib) | Insert a large file header and template logic for a library module. | |
| gen-corba-cb | С | <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 | |
| | | | | | |

| Insertion Insertion | <f11> SPC e <f12> <f11> All the tags in the tag lists in determined by the variable 't if a single match is found, the if a partial completion or no r if a partial completion is found: 12> <f12> SPC <f11> SPC e <f12> SPC <f6> SPC</f6></f12></f11></f12></f11></f12></f11> | &optional SILENT) 'tempo-local-tags' (includin empo-match-finder'. If 'tem e corresponding template is match at all is found, and SI | Look for a tag and expand it. Instead of using the <f12> <f12> key bindings above, you can type the template name (shown in the title column like "if", "case", etc) completely or partially and then hit C-c C-M-i. (or <f12> <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. In the template name and hit RET. Emacs expands the template. In the string matching is mpo-match-finder' returns nil, then the results are the same as no match at all. In the string matching is mpo-match-finder' returns nil, then the results are the same as no match at all. In the string matching is expanded in place of the matching string. ILENT is non-nil, the function will give a signal. Itelion-buffer' is non-nil, a buffer containing possible completions is displayed. Toggle PEL tempo mode on/off. PEL tempo mode activates C-c . and C-c , as well as C-</f12></f12></f12></f12></f12> | | |
|--|--|---|--|--|--|
| Toggle pel-tempo-mode See also: | determined by the variable 't If a single match is found, the If a partial completion or no r If a partial completion is found 12> <f12> SPC <f11> SPC e <f12> SPC <f6> SPC</f6></f12></f11></f12> | empo-match-finder ³ . If 'tem e corresponding template is match at all is found, and SI and and 'tempo-show-comple (pel-tempo-mode | npo-match-finder' returns nil, then the results are the same as no match at all. s expanded in place of the matching string. ILENT is non-nil, the function will give a signal. etion-buffer' is non-nil, a buffer containing possible completions is displayed. Toggle PEL tempo mode on/off. PEL tempo mode activates C-c . and C-c , as well as C- | | |
| See also: • <u>∑ Inserting Text</u> | <f11> SPC e <f12> SPC <f6> SPC</f6></f12></f11> | | | | |
| Jump to next tempo | | | 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-tempo-mode is active the pel-tempo-mode lighter (‡) is shown on the status bar. The second se are only available when Emacs runs in graphics mode. When a skeleton is inserted via the execution of one of the pel-erl commands above, the pel-tempo-mode is automatically activated. | | |
| | 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. | | |
| tempo mark | | (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. | | |
| See also: | Activate smartparens mode of This table uses the 🖾 and 🌣 := "forward delete" := := "backward delete" := | manually with <f11> ((symbols to represent thes deletechar> := Fn </f11> | | | |
| • kill block elements | e following commands kill th | e element(s) of a block. | | | |
| | <m-f7> ⊠ <m-f7> - n</m-f7></m-f7> | | Change the content of current or next block. Point can be anywhere in block or element before block. Before: After: | | |
| ∑X Smartparens | | | {'EXIT',Reason} -> {'EXIT',Reason} -> { error,{asn1,Reason}}; {error,{ }}; | | |
| Delete content of current block • <u>S</u> x Smartparens | i-f7> | | 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- M- M- M- M- M- M- M- M- | (-f7> -] | | <pre>Kill block elements after point. Before: case Tlv9 of [] -> true; -> exit({error, {asn1, {unexpected, Tlv9}}}) After:</pre> | | |
| Kill block elements backward • ∑X Smartparens | • | (sp-backward-kill-sexp &optional ARG DONT- KILL) | <pre>case Tlv9 of [] -> true;> exit({error, }) Kill block elements before point. Before: case Tlv9 of [] -> true;> exit({error, {asn1, {unexpected, Tlv9}}}) After: case Tlv9 of</pre> | | |
| Kill element after current **M-current* ** **M-current* ** ** ** ** ** ** ** ** ** | | · With ARG numeric prefix | [[] -> true;> exit({ {asn1, {unexpected, Tlv9}}}) Kill a line as if with 'kill-line', but respecting delimiters. prefix C-u C-u, kill the hybrid sexp the point is in (see 'sp-get-hybrid-sexp'). refix 0 (zero) just call 'kill-line'. | | |
| <u>Za Ginariparene</u> | | • Tou can customize the bi | ehaviour of this command by toggling 'sp-hybrid-kill-excessive-whitespace'. | | |
| Kill Whole line | I-f7> - 1 | (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>XX Smartparens</u> | I-f7> 1 1 | &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,'ELDAPv3'}, {options,[{i,"src"},{ outdir,"src"},noobj,{i,"."},{i,"asn1"}]}]). After: -asn1_info([{vsn,'2.0.1'}, {module,'ELDAPv3'}, {options,[{i,"src"}, outdir,"src",noobj,{i,"."},{i,"asn1"}]}]). | | |
| Kill block element(s) before point and splice remaining into outer block • <u>S</u> X Smartparens | | 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: case Tlv9 of [] -> true; -> exit({error, {asn1, Tlv0}}) | | |
| | I-f7> 1] | forward &optional ARG) | <pre>[] -> true; -> exit({error,{asn1, Tlv9}}) 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 }})</pre> | | |

```
Function
       Description
                                        Keystroke
                                                                                                                                                Note
Kill around element
                              <M-f7> 1 o
                                                                (sp-splice-sexp-killing-
                                                                                              Kill content around current element/block
                                                                around &optional ARG)
asit_inition
[{vsn,'2.0.1'},
   {module, 'ELDAPv3'},
   {options,[{i,"src"},|{outdir,"src"},noobj,{i,"."},{i,"asn1"}]}]).
                                                                                                      info(
                                                                                                 (vsn, '2.0.1'),
{module,'ELDAPv3'},
{options,|{outdir,"src"},}]).
                                                                                               [{vsn.

    Delete/Kill

                              m
   region
                                                               (sp-delete-region BEG END)
Delete region
                              <M-f7> DEL -
                                                                                              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
                                                                (sp-kill-region BEG END)
                                                                                             Kill the text between point and mark, like 'kill-region'
                              <M-f7> - -
                                                                                              · 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
                              <M-f7> - r
                                                                (sp--kill-or-copy-region
                                                                                              Kill or copy region between BEG and END according to DONT-KILL.
                                                                BEG END &optional
                                                                                                   'evil-mode' is active, copying a region will also add it to the 0 register.
                                                                                              · Additionally, if command was prefixed with a register, copy the region to that register
                                                                DONT-KILL)
                                                                (sp-delete-char
Delete char forward
                              <M-f7> DEL n
                                                                &optional ARG)
                                                                                               (quu|x "zot") -> (quu| "zot")
                                                                                               (auux |"zot") -> (auux "|zot") -> (auux "|ot")
                                                                                               (foo (|) bar) -> (foo | bar)
                                                                                               [(foo bar) -> ([foo bar)
                              <M-f7> DEL p
Delete char backward
                                                                (sp-backward-delete-
                                                                char &optional ARG)
                                                                                               ("zot" q|uux) -> ("zot" |uux)
                                                                                               ("zot" | auux) -> ("zot | auux) -> ("zol auux)
                                                                                               (foo (|) bar) -> (foo | bar)
                                                                                               (foo bar) | -> (foo bar])

    Delete/Kill word

Delete word backward
                                                                                              (sp-backward-delete-word &optional ARG)
                              <M-f7> DEL v
                                                                (sp-backward-delete-
                                                                                                Delete a word backward, skipping over intervening delimiters.
                                                                word &optional ARG)

    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.
                                                               (sp-delete-word & optional ARG)
Delete word forward
                                                                                              Delete a word forward, skipping over intervening delimiters
                              <M-f7> DEL w
                                                                                                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
                                                                                              Kill a word backward, skipping over intervening delimiters.
                                                                (sp-backward-kill-word
                              < M-f7 > - v
                                                                &optional ARG)

    With ARG being positive number N, repeat that many times.

                                                                                              • With ARG being Negative number -N, repeat that many times in backward direction.

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.

Kill word forward
                              < M-f7 > - w
                                                                (sp-kill-word &optional

    Delete/Kill

                              See 'sp-backward-symbol' and 'sp-forward-symbol' for what constitutes a symbol for the backward and forward commands respectively.
   symbol
                                                                (sp-backward-delete-
                                                                                             Delete a symbol backward, skipping over any intervening delimiters.

• Deleted symbol does not go to the clipboard or kill ring.
Delete symbol
                              <M-f7> DEL a
backward
                                                                symbol &optional ARG

With ARG being positive number N, repeat that many times.
With ARG being Negative number -N, repeat that many times in forward direction.

                                                                WORD)
Delete symbol forward
                                                                (sp-delete-symbol
                                                                                              Delete a symbol forward, skipping over any intervening delimiters.
                              < M-f7 > DEL s

    Deleted symbol does not go to the clipboard or kill ring.
    With ARG being positive number N, repeat that many times.
                                                                &optional ARG WORD)
                                                                                              • With ARG being Negative number -N, repeat that many times in backward direction.
Kill symbol backward
                                                                (sp-backward-kill-
                                                                                              Kill a symbol backward, skipping over any intervening delimiters.

• With ARG being positive number N, repeat that many times.
                              < M-f7 > - a
                                                                symbol &optional ARG
                                                                WORD)
                                                                                              • With ARG being Negative number -N, repeat that many times in forward direction.
                                                               (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.
Kill symbol forward
                              < M-f7 > - s
                                                                                              • With ARG being Negative number -N, repeat that many times in backward direction.
                              💲 Syntax checking for the Erlang programming language can be done with Emacs built-in flymake as well as with the 📭 external package flycheck.
Erlang syntax
checking
                                   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,
                                   add 'erlang-mode to the pel-modes-activating-syntax-check user-option.
Using either:
   <u>flycheck</u> or <u>flymake</u>
                                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 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:

• flymake-start-on-flymake-mode: t to start checking when flymake-mode is started. nil to prevent check.

∑ SyntaxCheck

                                flymake-no-changes-timeout: time to wait after last change to start checking. Default = 0.5 seconds
                                flymake-start-syntax-check-on-newline: t to check 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.
                                                                                              Toggle the selected Erlang syntax checker mode on/off.
Activate/deactivate
                              <f12> !
                                                                (pel-erlang-toggle-
 elected syntax
                                                                syntax-checker)
                                                                                                   The syntax checker activated or deactivated is either flycheck or flymake, as selected by the
                              <f11> SPC e !
checker
                                                                                                  user-option variable 'pel-use-erlang-syntax-check'
                                                                                              See the required settings above to activate this command and select the syntax checker.
```

| <u>Description</u> | <u>Keystroke</u> | Function | <u>Note</u> |
|---|---|---|---|
| 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 | The following commands are used to compile Erlang source code files to .beam files located in the same directory as the source code. Detected errors are listed in the *erlang* shell opened to compile the files. The buffer shows the location of error and the error description. The following commands are used to navigate to the next or previous detected error. | | |
| 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 | 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 | ised 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> | The variation of the started. C-c C- <f11></f11> | 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> | <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.</f11> Under PEL this command is available only when the pel-use-erlang user option is set to t. |
| 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. |
| Previous shell command | м-р | (comint-previous-input ARG) | Cycle backwards through Erlang shell input history, saving input. |

| <u>Description</u> | <u>Keystroke</u> | Function | <u>Note</u> | | |
|--|---|---|--|--|--|
| Using Man inside | Emacs provide 2 main comma | | | | |
| Emacs and | Both of these are much more powerful than the usual man reader available on the shell allowing navigation across man pages and opening hyperlinks. They are: | | | | |
| support Erlang Man pages | The man command uses WoMan: Browse Unix Ma | | Man" a complete implementation. It has some formatting limitations compared to man but it's a Windows. | | |
| See also: <u>∑ Help/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 instance in the directory where these files are located. | | | | |
| | 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 E as the above example we | Erlang's man pages without | modifying the capabilities of the parent shell. For example, if we want to use the same directory hes which is normally set to nil to the following value: | | |
| | shells that have their own access to the man pages of MANPATH and therefore p | The second alternative can be used to add other directories for the man pages of other programming languages while leaving the ability to have several shells that have their own value of MANPATH. That might be very useful for someone that uses different versions of Erlang in a system and needs access to the man pages of different versions of Erlang. It becomes possible to run different shells inside Emacs with each having its own value of MANPATH and therefore providing the man pages from different locations. It is also possible to place all of these directories inside the Man-switches or MANPATH and buses man's ability to view several pages for the same topic. | | | |
| | | topics when using the man command completion. To do that , set MANPATH to the Erlang man is located in the Erlang man page root directory, otherwise Emacs man completion will not work. | | | |
| | EDTS (see below) support | s the ability to download and cess sections inside the mar | 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 a 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 | | | | |
| | Creating whatis files Using the Erlang Mar Using Specialized OS | n files within Emacs | | | |
| See also: <u>∑ Menus</u> | Use the following commands to You can also use the toolba | | e inside Emacs. th < f10>) in the Erlang section. | | |
| Open a man page inside an Emacs buffer | • <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. | | |
| See also: • <u>S Help/Info</u> • <u>S Customize</u> | | | 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> The man command prompts, using the word at point as the default. PEL key sequence to customize man: <f11> <f2> E m</f2></f11> | | |
| Open a man page | <f11> ? w</f11> | (woman &optional TOPIC | | | |
| without external man process: woman See also: • Help/Info • Customize | CIII2 ? W | RE-CACHE) | (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> | | |
| EDTS | EDTS - Erlang Developr | 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. If you want EDTS to start automatically when you open an Erlang file, set pel-use-edts to start-automatically instead of t. | | | | |
| Erlang Project settings | EDTS is customizable through it edts customization group. With PEL you can open it, with other Erlang specific groups with <f12> <f3></f3></f12> . EDTS also uses an external .edts configuration file to store Erlang project specific settings. See EDTS: Configure your projects. This allows setting the following: project name, node-name, erlang-cookie, lib-dirs, start-command, top-path, dialyzer-plt, app-include-dirs, project-include-dirs, xref-error-whitelist, xref-file-whitelist | | | | |
| See also: <u>Sessions</u> | Desktop restoration often fails when edts-mode was active on session stored: unfortunately edts does not 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. ■ 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</f12> | | | | |
| Toggle EDTS mode | <f12> M-SPC</f12> | (edts-mode &optional | Turn EDTS mode on or off. | | |
| | <f11> SPC e M-SPC</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 | EDTS (see below) provides 2 commands to move point across Erlang functions: ferl-goto-previous-function and ferl-goto-next-function. They are listed above in the navigation section. The EDTS navigation functions do not support repetition prefix argument nor they support shift marking. There are other commands and key bindings to move across Erlang functions, and PEL support functions that perform the same and support repetition and shift marking. See the commands listed in the navigation section above. | | | | |
| EDTS/Cross References | EDTS provides the following cross-reference commands. It supports navigating in Erlang source code running in the current and remote nodes. • Note that all <f12> prefixes shown below are available in erlang-mode. Their global equivalent is <f11> SPC e . It is not always shown for brevity.</f11></f12> | | | | |
| 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: Again with /ebin/ replaced with /src/ • Todo: Again with /ebin/ replaced with /erl/ Otherwise, report that the file can't be found. | | |

| <u>Description</u> | <u>Keystroke</u> | Function | <u>Note</u> |
|--|---|--|--|
| 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 | EDTS supports the automatic highlight symbol mode (AHS). and provides commands to modify the name of the highlighted name in the current function of in all of the buffer. The automatic symbol highlighting mode starts when the cursors stays on a symbol for a period longer than the value identified by the ahs-idle-interval which defaults to 1.0 second. To turn off the AHS editing mode, use a command to move 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. |
| 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 | sible to have several Erlang | projects each one with a different version of Erlang and their corresponding man pages. EDTS maintains a set of Erlang man projects 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 | <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). |

| LSP support: • lsp-mode • erlang ls | • The <u>erlang is</u> Erlang server • The <u>erlang is</u> can be | sp external package PE for LSP. You must install the configured using a YAML fi | byided via: L activates it when the pel-use-erlang-Is user-option is turned on (set to t). In an annually. You will need Git, Erlang, rebar3 and make. The instructions are on the web-site. It is that must be placed at the root of the Erlang project. Sometimes of the cross-reference features |
|--|---|--|--|
| erlang Is required environment | The following executable must be accessible from PATH: • <u>erl, escript</u> and other Erlang executables. See <u>Installing Erlang</u> if you need to learn how to install Erlang and its tools. • erlang_ls. To install erlang_ls follow the instruction on the <u>erlang_ls GitHub page</u> : git clone it, then run make and make install. • and the various <u>Tools for Erlang</u> . | | |
| • <u>S Customize</u> Isp-mode | settings are probably what you • Isp-log-io • Isp-ui-sideline-enable : • Isp-ui-doc-enable | may want to customize: control whether the LSP pi control whether LSP displa control whether LSP displa | co-mode customization group. With PEL you can access it via <f12> L <f3>. The following rocess is logging its I/O. Useful for debugging LSP support. By information about the current code line. By documentation about the current code symbol. By lamically 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. |
| Toggle LSP I/O logging | <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. |
| 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 'lsp-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 provided to the features provided to the features provided to the features of the features of the feature of the fea | Edoc support Navigation to Included Files Find/Peek References | LSP Lenses: lsp-avy-lens LSP sideline: enable with: (setq lsp-ui-sideline-enable t) Use M-x lsp-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 ls.config that should be placed in the root directory of the project. |
| lsp-mode features | Completion at point traditional popup with company-mode Code navigation, with lsp-find-definition lsp-find-references Symbol highlights Code action on mode line: set lsp-modeline-code-action-segments user-option. Breadcrumb on headerline: Use the lsp-headerline-breadcrumb-mode command to toggle their display. The lsp-headerline-breadcrumb-segments user-option control what it displays. 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-find-references | ct-run-test: display a server-info: display s | a <i>run</i> button next to a Common Test testcase. some Erlang LS server info on top of each module. For debug only. |
| Isp-mode integrations see also: • ∑ Completion/Input • ∑ Treemacs • ∑ Hide/Show | Isp-find-references | • ct-run-test: display a • server-info: display s • show-behaviour-usa with: | a <i>run</i> button next to a Common Test testcase. some Erlang LS server info on top of each module. For debug only. |
| see also: • ∑ Completion/Input • ∑ Treemacs | Isp-find-references Symbol highlights Isp-mode supports integration Helm by using helm-Isp Ivy by using Isp-ivy Treemacs by using Isp-ori Worigami by using Isp-ori Key bindings: The Isp-mode is Since the super modifier key with M-x customize-op With PEL, the following key The key bindings shown in the super modifier key with M-x customize-op With PEL, the following key The key bindings shown in the super modifier key bindings shown in the super modifier key with M-x customize-op With PEL, the following key The key bindings shown in the super modifier key binding | • ct-run-test: display a • server-info: display s • show-behaviour-usa with: | a run button next to a Common Test testcase. some Erlang LS server info on top of each module. For debug only. ages: show the number of modules implementing a behaviour. 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. s customizable prefix key for its key bindings. The default key prefix is s-1. t can be modified through customization: change the lsp-keymap-prefix value. This can be done andidates: <f2> o key sequence. candidates: <f9> and C-1. If you use <f9> for Greek letters then consider using <m-f9>.</m-f9></f9></f9></f2> |
| see also: • © Completion/Input • © Treemacs • © Hide/Show LSP key bindings: • Isp-mode • erlang Is See also: © Input Method Display LSP workspace | Isp-find-references Symbol highlights Isp-mode supports integration Helm by using helm-Isp Ivy by using Isp-ivy Treemacs by using Isp-ori Worigami by using Isp-ori Key bindings: The Isp-mode is Since the super modifier key with M-x customize-op With PEL, the following key The key bindings shown in the super modifier key with M-x customize-op With PEL, the following key The key bindings shown in the super modifier key bindings shown in the super modifier key with M-x customize-op With PEL, the following key The key bindings shown in the super modifier key binding | • ct-run-test: display a • server-info: display s • show-behaviour-usa with: When the pell activates Pell acti | a run button next to a Common Test testcase. some Erlang LS server info on top of each module. For debug only. ages: show the number of modules implementing a behaviour. 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. s customizable prefix key for its key bindings. The default key prefix is s-1. t can be modified through customization: change the lsp-keymap-prefix value. This can be done aff11> <f2> o key sequence. candidates: <f9> and C-1. If you use <f9> for Greek letters then consider using <m-f9>. 1 key prefix.</m-f9></f9></f9></f2> |
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| see also: • © Completion/Input • © Treemacs • © Hide/Show LSP key bindings: • Isp-mode • erlang Is See also: © Input Method Display LSP workspace log buffer Validate LSP | Isp-find-references Symbol highlights Isp-mode supports integration Helm by using helm-Isp Ivy by using Isp-ivy Iveremacs by using Isp-ori Worigami by using Isp-ori Key bindings: The Isp-mode is Since the super modifier key with M-x customize-op With PEL, the following k The key bindings shown l If you change Isp-keyt s-1 L | • ct-run-test: display a • server-info: display s • show-behaviour-usa with: When the pell activates Pell activates Pell activates Pell activates Pell activates Pell activates a minor mode and provides a minor mode and provides a minor mode and provides below is not always available, in tion or with Pell via the composition or with Pell via the color whow the standard is map-prefix that would be refused. (Isp-workspace-show-log WORKSPACE) | a run button next to a Common Test testcase. some Erlang LS server info on top of each module. For debug only. ages: show the number of modules implementing a behaviour. 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. s customizable prefix key for its key bindings. The default key prefix is s-1. t can be modified through customization: change the lsp-keymap-prefix value. This can be done sf11> <f2> o key sequence. candidates: <f9> and C-1. If you use <f9> for Greek letters then consider using <m-f9>. 1 key prefix. splaced with your selected prefix key. Display the log buffer of WORKSPACE.</m-f9></f9></f9></f2> |
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Description

<u>Keystroke</u>

Function

<u>Note</u>

| Description | <u>Keystroke</u> | Function | Note |
|--|----------------------------------|--|---|
| | | | |
| 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. |
| Execute code action | s-l 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-l 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 *lsp-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 *Isp-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-1 r o | (Isp-organize-imports) | Perform the source.organizeImports code action, if available. |
| 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> |
| Disconnect LSP | s-1 w D | (Isp-disconnect) | Disconnect the buffer from the language server. |
| Describe LSP session | s-1 w d | (Isp-describe-session) | Describes current 'Isp-session'. • Show available tools and the available capabilities • Shows the information inside a LspBrowser buffer. |
| Shut LSP workspace down | s-1 w q | (Isp-workspace- shutdown WORKSPACE) | Shut the workspace WORKSPACE and the language server associated with it |
| Restart LSP workspace | s-1 w r | (Isp-workspace-restart WORKSPACE) | Restart the workspace WORKSPACE and the language server associated with it |
| Activate LSP | s-1 w s | (Isp &optional ARG) | Entry point for the server startup. When ARG is t the lsp mode will start new language server even if there is language server which can handle current language. When ARG is nil current file will be opened in multi folder language server if there is such. When 'lsp' is called with prefix argument ask the user to select which language server to start. |
| Treemacs support • ∑x Treemacs | provide extra features that help | p Erlang development. Whe | respectively activated by PEL user-options pel-use-treemacs and pel-use-lsp-treemacs , en these are activated PEL provides bindings for the lsp-treemacs features. s customization group. With PEL use sf12> wwsf12> wsf12> w |

| <u>Description</u> | <u>Keystroke</u> | Function | <u>Note</u> |
|---|--|--|---|
| 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-commented-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 mainside source code comment. | |
| from plantUML source in current plantUML region of commented source code See also: M PlantUML | <f11> SCP e u</f11> | | Uses prefix (as PREFIX) to choose where to display it: (when prefixing the command with C-u) -> new window (be used in the command with C-u) -> new frame. (else -> new buffer This can be used inside buffer using any major mode, when PlantUML markup is embedded) |
| Use this in source code to describe your code architecture with PlantUML markup, then generate the UML render PlantUML block and issuing this command. Requires the <u>plantuml-mode</u> external package, activated by <u>pel-use-plantuml</u> 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, <u>Erlang Issue Tracker</u> , 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. | |
| 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. | |
| Emans and Erlang Man files | | |
| Emacs and Erlang Man files | Show how to greate a missing whatis file for a set of man pages | |
| How to create a local whatis file | Show how to create a missing whatis file for a set of man pages. On the original and original start all provided by the Erland mode support, how to | |
| 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. | |

| Document | Notes |
|---|---|
| Emacs tools for Erlang | |
| <u>EDTS</u> | 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? |
| 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 Isp-mode Emacs Lisp package The Isp-mode Erlang server |
| 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. |