## **Emacs support for Perl**

B	V		pport for Peri			
Description  Perl Editing	Keystroke Emacs provides two mai	Function or modes for Perl: perl-mode (Emacs defau	Note  Ult. simpler mode) and cperl-mode.			
Perl Editing See: Perl 5 Syntax	1	erl-mode external package has support for				
Activate Perl →     Select major mode						
<u> </u>	<ul> <li>PEL provides supports all of them: pel-perl-mode selects the mode, using HaraldJoerg/cperl-mode by default because it has the best support for Perl.</li> <li>After using HaraldJoerg/cperl-mode if you want to revert to Emacs' own cperl-mode, remove the cperl-mode.el* files from ~/.emacs.d/utils</li> <li>PEL activates minor modes for the perl major mode as specified by the pel-perl-activates-minor-modes user-option.</li> </ul>					
• <u>∑ Speedbar</u> . ⇒	If pel-use-speedbar is	s on, speedbar support for Perl is activated.				
• <u>Indentation</u> control		oth <b>perI-mode</b> and <b>cperI-mode</b> is controlle ent-leveI: it defaults to 4. It is applied to pe	ed by the following user-options:  rl-indent-level and cperl-indent-level as well as tab-width.			
•	The use of hard tabs is controlled by:  • pel-general-perl-use-tabs: it defaults to ril, forcing use of spaces. It is applied to indent-tabs-mode.					
PEL Perl support improvements		e shows trailing whitespaces as underscore It this is a red background whitespace.	s. Set <b>pel-cperl-show-trailing-whitespace-normally</b> user-option to <b>t</b> to use the trailing-whitespace			
improvements	PEL improves <u>iedit</u> su	upport for cperl-mode when pel-use-iedit is in find Perl files in Perl directories. It support	·			
			s the Fen package and syntax.  syntax.  augition between compilation-mode error message and code.			
Open this PDF file. See also: <u>See Help/Info</u>	<f11> SPC P <f1></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Open the \$\sqrt{1} \cdot \text{Peri}\$ local PDF. With prefix argument (like \$C-u\$ or \$M\) opens the remote GitHub hosted raw PDF instead. If the <b>pel-flip-help-pdf-arg</b> user-option is set it's the other way around.			
T Customize DEL Dovl	<f12> <f1> <f11> SPC P <f2></f2></f11></f1></f12>	(pel-customize-pel &optional OTHER-				
<u>S</u> Customize PEL Perl support	<f11> SPC P <f2></f2></f11>	WINDOW)	<ul> <li>Customize PEL Perl support.</li> <li>If OTHER-WINDOW is non-nil (use C-u), display in another window.</li> </ul>			
Customize Emacs	<f11> SPC P <f3></f3></f11>	(pel-customize-library &optional	Customize Emacs Perl support: perl, cperl, electricity, perl-repl.			
Perl support	<f12> <f3></f3></f12>	OTHER-WINDOW)	If OTHER-WINDOW is non-nil (use C-u), display in another window.			
PCRE support	See PCRE support in 2	Search/Replace for commands to activate	e Perl Compatible regular expression search and operations.			
Perl Doc			ort provides access to the Perl documentation available on your system.  e, man perlintro provides the same information as given by the perldoc perlintro command.			
		web page provides the complete information				
	Overview     Tutorials	<ul><li>Operators Modules</li><li>Functions Utilities</li></ul>	<ul> <li>History</li> <li>Internals and C Language Interface</li> <li>Miscellaneous</li> </ul>			
01	Reference Manual	• <u>Variables</u>	Language-specific Platform-specific  Ohmode and the Park and the			
Show command info	C-c C-h F	(cperl-info-on-command COMMAND)	Show documentation for Perl command COMMAND in other window.  If perl-info buffer is shown in some frame, uses this frame.			
peridoc at point	• C-c C-h P	(cperl-perldoc-at-point)	Customized by setting variables 'cperl-shrink-wrap-info-frame', 'cperl-max-help-size'.  Run a 'perldoc' on the word around point to show information about that Perl word.			
	• <f12> ?</f12>	(ip)				
	C-c C-h p	(cperl-peridoc WORD &optional SECTION)	Prompt for for (default to word at point). Show information about the selected word with 'perldoc'.			
Show Perl doc	C-c C-h f	(cperl-info-on-current-command)	Show documentation for Perl command at point in other window.			
Help on symbol at point	C-c C-h v	(cperl-get-help)	Get one-line docs on the symbol at the point.  • The data for these docs is a little bit obsolete and may be in fact longer than a line.			
Open file at point		The following command opens the file identified by the text taken at point (the cursor location). It supports extracting Perl package file names from the Perl package name				
(for Perl) ∑ File mngt	<ul><li>syntax which uses either</li><li>It searches the Perl pa</li></ul>		array and the directories identified by pel-perl-extra-project-root-directories user-option.			
	<u>~</u>		instruct Ido to use a file name at point as the basis for the file name to open. This Ido behaviour is you can control it globally or locally with <f11> f M</f11>			
Open file or web-page	• M- <f6></f6>	(pel-open-at-point &optional N)	Open the file, library or the URL, named at point, with potential line & column #s.			
whose name is at point  ★★	• <f11> f . • 6y</f11>		Supports glob characters, partial directory path. When multiple files are found it prompts using the method selected by <b>pel-prompt-read-method</b> user-option.			
Command is also specialized for:			¶ In the 6y key-chord is available if pel-use-key-chord is non-nil. See   Rey-Chords.  ■ Key-Chords.  ■ Key-Chords.  ■ Key-Chords.  ■ The first			
<ul> <li>M reStructuredText</li> <li>B l - C, B l - C++</li> </ul>			and is specialized for Perl buffers: it finds Perl files in directories trees identified by Perl's @INC array.			
	-	raction works by identifying the beginning &	end of the file/directory/library/URL name string by delimiter characters, one of: tab, newline and:			
• <u>\$1 - UNIX Shell</u> Generic Delimiting			rompts using the method selected by <b>pel-prompt-read-method</b> user-option.			
characters	<ul> <li>The default is a very primitive function implemented by PEL. You can select a more powerful <u>ivy</u> prompting instead.</li> <li>With <u>ivy</u> selected, PEL will automatically set <u>[]</u> pel-use-ivy to t <u>[]</u> and <u>[]</u> and <u>[]</u> be installed automatically when you restart Emacs.</li> </ul>					
	Note that the command shows all files found by the specified search method, it does not only use the first one found.					
	•  Use this to detect potential duplication in package and module files.  The command opens the file in the window selected by the following logic controlled by presence or absence of typed numerical prefix arguments:					
Select target	<ul> <li>Select target window:</li> <li>Without argument:</li> </ul>					
window •	<ul> <li>If file or directory is already opened in a window, move point to that window and to the line column coordinates if specified following the file name at point.</li> <li>If no window holds that file, select the target window according to the number of editable windows in frame: if 1, split that window and use the new window, if 2: use the other window if 3 or more use the current window.</li> </ul>					
	use the other window, if 3 or more, use the current window.  • With prefix numeric argument N:  • N < 0 : create a new window and use that					
	<ul> <li>N &lt; 0: create a new window and use that.</li> <li>(abs N) &gt; 20: then open the <b>directory</b> instead of the file. Interpret the window position from the N value adjusted: N-20 (or N+20 if N is negative)</li> <li>N = 0: use the 'other' (the next) window.</li> </ul>					
N>20 : open the directory <b>■</b>	<ul> <li>N = 0: use the 'other' (the next) window.</li> <li>N = 1, 3, 7or above (excluding 8, 9 and 10): select the target window based on the number of editable windows in frame:</li> <li>if 1 window: split that window and use the new window,</li> </ul>					
	if 1 window: split that window and use the new window,  if 2 windows: use the other window,  if 3 or more windows: use the current window.					
	<ul> <li>N is: 8: up, 2: down, 4:left, 5:current, 6:right.</li> <li>N is 9: force opening the file in the OS associated application (with N=29 or N=-29, open the file's directory with the OS associated application (eg. macOS</li> </ul>					
See function docstring	<ul> <li>N is 9: force opening the file in the OS associated application (with N=29 or N=-29, open the file's directory with the OS associated application (eg. macOS Finder, Windows Explorer). If this is a URL, open it in the OS default web browser.</li> <li>Selecting Minibuffer, inexistent or dedicated window is not allowed.</li> </ul>					
for more info.  Comments	Perl comments start with #. See <u>F. Comments</u> for the generic commands that manage and control comments					
Toggle display of	<f11> ; ;</f11>	(hide/show-comments-toggle	Toggle hiding/showing of comments in the active region or whole buffer.			
comments in buffer or active region	&optional START END)  • If the region is active then toggle in the region. Otherwise, in the whole buffer.					
Mariantina	This requires the					

Septiment   Col. Col.	Description	Keystroke	Function	Note		
September   Sept	-		(cperl-next-interpolated-REx &optional	_		
* Oct mode  **Cot Cot	interpolated			SKIP is a list of possible types to skip, BEG and LIMIT are the starting point and the limit of search		
Page   Application   Page				SKIP may be a number, then it behaves as list of numbers up to SKIP; this semantic may be used		
Ce C - 1 specific resident delication (Ce C - 2) specific resident delication (Ce C - 3) specific resident delication (Ce C -				• Types are 0 for / \$rex /o (interpolated once), 1 for /\$rex/ (if \$rex is a result of qr//, this is not a		
Subject   Subj		C-c C-x	(cperl-next-interpolated-REx-0)			
Must insure the continued   The library immerities communication on continued and provided in the continued of the continue		С-с С-у	(cperl-next-interpolated-REx-1)			
Septimode   Color   Description control control or security of the control control or security or se						
The foliation control of the foliation of the cache by the control of the cache by the cache good or control the cache good or control of the cache by the cache good or cache the cache of the cache good or cache the cache ca	Marking Commands	The following marking co	ommands are specialized for Perl. See <b>E Ma</b>	arking for the generic ones that can also be used in Perl buffers.		
- The confidence analysis of the scales help to controlled up to past mode and specimenous confidence that of \$25 - \$25 to open constructions in control of \$45 to open controlled in the specimenous control of \$45 to open controlled in the specimenous controlled in the specime	Mark function	С-м-h	(perl-mark-function)	Put mark at end of Perl function, point at beginning		
Sperimode   Paulo	Indentation Control	_	·	· · · · · · · · · · · · · · · · · · ·		
Perfection with a service of the company of the co	Indent					
Converse   Professional speciments   Converse   Conve	• perl-mode ➡		,	In Transient Mark mode, when the region is active, reindent the region.		
Continued	·			• Otherwise if 'perl-tab-always-indent' is nil and point is not in the indentation area at the beginning		
Execution of a management of the property of the comment of the property of the				Otherwise, indent the current line. If point was within the indentation area, it is moved to the end of		
1) defect an engrey comment   2) or the comment indenting if necessary   2) or the comment of the comment indenting if necessary   2) or the comment of the comment indenting if necessary   2) or the comment of the comment indenting if necessary   2) or the comment of the comment indenting if necessary   2) or the comment indenting in necessary   2) or the comment indenting indenting indenting   2) or the comment indenting indenting indenting   2) or the comment indenting indenting indenting				indentation area, and if 'perl-tab-to-comment' is non-nil (the default), then do the first possible		
Speciments  performance  perfo				1) delete an empty comment		
Speciments   Comment (indesting in threeway)   Comment (indesting in three current inc.) Otherwise, indemt cannot in a form of the debut, it whose indemt current inc. Otherwise, indemt cannot include the comment in a form of the debut, it whose indemt current inc. Otherwise, indemt cannot include the current inc.) Otherwise, indemt cannot include the current inc. Otherwise, indemt cannot include the current includes a comment of the current includes a comment in a comment i				3) move forward to end of line		
### WHICE #-EXPTY ### 1 or Competition to the process of the country into any legic and street in condition of control in the first of invalidation in the first of invalidation of the country into any legic and street in in the bottoms properly indended. The elastice indication control is standard and process of the pro						
becomes from the plant is at the left margar or in the first help inclination, collevate between 1 between						
Index continued comparison of the protect of this file becomes procely indexed. The relative incentation among the lines of the presence and presente and presence and presente and presented and presente	cperl-mode		MIOLE LAI J	the current line only if point is at the left margin or in the line's indentation; otherwise insert a tab.		
C-y-q   part-indent-exp				starting after point so that this line becomes properly indented. The relative indentation among the		
expersion  - open-index  - ope	Indent continued	C-M-G	(nerl-indent-exp)			
Case		C-m-q	(реп-шаент-ехр)	macht cach line of the Fen grouping following point.		
on the previous line.  Indext region  C-2-L  Indext region  C-3-C  Indext region  C-3-C  Investination of the previous line.  Indext region START END  Indext at the lines whose first character is between START and END inclusive.  **Worth incord comment if a size of extrement includes the comment of the size of extrement includes.  **Worth incord comment if a size of extrement includes the comment of the size of extrement includes.  **Comment of the size of extrement includes the comment of the size of extrement includes the comment of the size of extrement includes the size of extre	• oper mode =		(cperl-indent-exp)			
Indeet region  C-H-\ Insert Port Investigation  Revision and Indeet  C-j Insert Indeed Poly Transform Community of Land Information of the community on the previous inter-  Insert Port Investigation  C-C-C Insert Interest Insert Inse	• cperi-mode =			on the previous line.		
on the previous lie.  If speri-indent region-infra-constructs, will improve spacing on conditional/loop constructs.  Newline and indent  operi-indent  coperi-indent  coper	Indent region	C-M-\	(cperl-indent-region START END)			
Insert and indent   C-5   (spert-indent)   (spert-inden						
Insert Peri new line   C-c_C-j   Coperf-lindered				·		
B's a convenience replacement for typing return. If puts point in the next line with proper indentation, or if you type it inside the infine block of control construct, like foreach (#lines) (print; print) and you are on a boundary of a statement inside baces, it will transform the construct into a multiline and will place you into an appropriately indented blank line.  - 'Use C-I or usual revierine-and-indent behavior. See open-electric-linefeed documentation.  Insert matching parens - (		C-j	(newline-and-indent)			
foreach (#lines) (print; print) and you are on a boundary of a statement inside braces, it will brandom the construct into a multiline and will place you into an appropriately indented blank line.  **Use C-1 for usual "newline and-indent" behavior. See "open-lectric-lineteed" documentation.  Insert matching parens  **Committed by "open-lectric-parens" and "open-hairy" user-options.  **Logical with C-c C-e  **I	Insert Perl new line	C-c C-j	(cperl-linefeed)	Go to end of line, open a new line and indent appropriately. If in POD, insert appropriate lines.		
and you are on a boundary of a statement inside braces, it will transform the construct into a multiline and will place you into an appropriately indented blank line.  Insert matching parens  (coperf-electric-paren ARG)		It's a convenience replac	ement for typing return. It puts point in the	next line with proper indentation, or if you type it inside the inline block of control construct, like		
Name		<pre>foreach (@lines) {print; print}</pre>				
Insert matching parens  • (						
• toggle with C-c C-e  • f  • f  • j  • j  • cperf-electric-rparen ARG)  • linsert a matching pair of parentheses if marking is active.  • l'incl, or if we are not at the end of marking range, would self-insert.  • Controlled by 'perf-electric-paren's and 'cperf-hairy' user-options.  Insert and indent  1.	Insert matching parens	_	·	1		
Insert a matching pair of parentheses if marking is active.	toggle with C-c C-e			Controlled by 'cperl-electric-parens' and 'cperl-hairy' user-options.		
If not, or if we are not at the end of marking range, would self-insert.		•				
Controlled by 'cperl-alectric-params' and 'cperl-hairy' user-options.   Insert: and indent   1		1	(cperl-electric-rparen ARG)			
Insert   and indent		J				
Insert   and indent		:	,			
Insert ) and indent    Copert-electric-brace ARG & optional ONLY-BEFORE   Insert character and correct line's indentation.   If ONLY-BEFORE and 'opert-auto-newline, will insert newline before the place (even in empty lin but not after. If after ')' and the inserted char is '(', insert extra newline before only if 'opert-extra newline-before-brace'.    Deleted and possibly untabify   DEL		·	,			
ONLY-BEFORE  - If ONLY-BEFORE and 'operl-auto-newline', will insert newline before the place (even in empty lin but not after, if and the inserted char is "(", insert extra newline before only if 'operl-extra newline-before-brace'.  - Backspace, or remove wintespace around the point inserted by an electric key.  - will untabify "cperl-electric-backspace-untabify is non-nil.  - The following oper commands toggle some of its electric behaviour.  - The following oper commands toggle some of its electric behaviour.  - Toggle Perl auto-help  - C-c C-h a (operl-toggle-autohelp)  - Coggle the state of Auto-Help on Perl constructs (put in the message area).  - Delay of auto-help controlled by 'operl-lazy-help-time'. A By default it is nil, which (like null) prevents activation of the auto-help. To activate it, set operl-lazy-help-time to an integer value.  - Toggle electric mode  - C-c C-a (operl-toggle-auto-newline)  - Toggle the state of 'operl-auto-newline'.  - Toggle auto-fill mode  - C-c C-f (auto-fill-mode &optional ARG)  - * f11> tf a * * f11> RET  - Toggle auto-fill mode be anabled, inserting a space at a column beyond 'current-fill-column' automatically breaks the line at a previous space.  - Toggle keyword expansion  - Toggle keyword expansion  - Toggle space fix  - C-c C-w (operl-toggle-construct-fix)  - Toggle whether 'indent-region' indent-sexp' fix whitespace too.  - Narrows to here-doc  - C-c C-d (operl-here-doc-spell)  - Spell-check POD  - C-c C-b (operl-here-doc-spell)  - Spell-check POD  - Spell-check POD  - C-c C-c C-c C-c C-c C-c C-c (operl-pospels &optional DO-HERES)  - If no intention in the positive, will be HERE-DOCs instead.	msert { and indent	1	1	misert character, correct line's indentation, correct quoting by space.		
but not after. If after ")" and the inserted char is "(", insert extra newline before only if 'operf-extra newline before only if 'operf-lextric-backspace around the point inserted by an electric key.  * Will unlabily if 'operf-electric-backspace-untabily' is non-nil.  * The following cperf commands toggle some of its electric behaviour.  * Toggle Perf auto-help  * C-c C-h a	Insert } and indent	}				
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PEL supports 2 operl-mode implementations: Emacs' operl-mode and	Deleted and possibly	DEL	(cperl-electric-backspace ARG)			
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toggle Perl auto-help  C-c C-h a  (cperl-toggle-autohelp)  Toggle the state of Auto-Help on Perl constructs (put in the message area).  Delay of auto-help controlled by 'cperl-lazy-help-time'.  By default it is nil, which (like null) prevents activation of the auto-help. To activate it, set cperl-lazy-help-time to an integer value.  Toggle electric mode  C-c C-a  (cperl-toggle-auto-newline)  Toggle the state of parentheses doubling in CPerl mode. When typing an opening parens character the closing one is automatically entered.  Toggle auto-fill mode  C-c C-f  (auto-fill-mode & optional ARG)  Toggle automatic line breaking (Auto Fill mode).  With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwis with a vertical previous space.  Toggle keyword expansion  Toggle space fix  C-c C-w  (cperl-toggle-construct-fix)  Toggle the state of parentheses doubling in CPerl mode. When typing an opening parens character the closing one is automatically entered.  Toggle automatic line breaking (Auto Fill mode).  With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwis with a vertical previous space.  Toggle keyword expansion in CPerl mode.  Toggle the state of automatic keyword expansion in CPerl mode.  Toggle whether 'indent-region'/indent-sexp' fix whitespace too.  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-n  (cperl-narrow-to-here-doc & optional POS)  Spell-check here-docs  C-c C-d  (cperl-pod-spell & optional DO-HERES)  Spell-check POD documentation.  If a region is highlighted, restricts to the region.  Spell-check POD documentation.  If invoked with prefix argument, will do HERE-DOCs instead.	cperl-mode					
Pelay of auto-help controlled by 'cperl-lazy-help-time'.   By default it is nil, which (like null) prevents activation of the auto-help. To activate it, set cperl-lazy-help-time to an integer value.  Toggle electric mode  C-c C-e (cperl-toggle-electric)  Toggle the state of 'cperl-auto-newline'.  Toggle auto-fill mode  C-c C-f (auto-fill-mode & optional ARG)  C-c C-f (auto-fill-mode & optional ARG)  Toggle automatically entered.  Toggle automatically entered.  Toggle automatic line breaking (Auto Fill mode).  With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwise.  When Auto Fill mode is enabled, inserting a space at a column beyond 'current-fill-column' automatically breaks the line at a previous space.  Toggle space fix  C-c C-w (cperl-toggle-abbrev)  Toggle whether 'indent-region'/indent-sexp' fix whitespace too.  here-doc support  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-d (cperl-narrow-to-here-doc & optional POS)  Spell-check here-docs  C-c C-d (cperl-pod-spell & optional DO-HERES)  Spell-check POD documentation  I in voked with prefix argument is positive, disable it otherwise the closing one is automatically entered.  Toggle automatic line breaking (Auto Fill mode).  Toggle automatic line breaking (Auto Fill mode).  With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwise automatically entered.  Toggle automatic line breaking (Auto Fill mode).  When Auto Fill mode is enabled, inserting a space at a column beyond 'current-fill-column' automatically entered.  Toggle the state of parentheses doubling in CPerl mode.  Toggle automatic line breaking (Auto Fill mode).  To	toggle Perl auto-help					
Toggle auto-newline  C-c C-e  (cperl-toggle-auto-newline)  Toggle the state of 'cperl-auto-newline'.  Toggle the state of parentheses doubling in CPerl mode. When typing an opening parens character the closing one is automatically entered.  Toggle auto-fill mode  C-c C-f  (auto-fill-mode & optional ARG)  Toggle automatic line breaking (Auto Fill mode).  With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwis when Auto Fill mode is enabled, inserting a space at a column beyond 'current-fill-column' automatically breaks the line at a previous space.  Toggle space fix  C-c C-k  (cperl-toggle-abbrev)  Toggle the state of automatic keyword expansion in CPerl mode.  Toggle space fix  C-c C-w  (cperl-toggle-construct-fix)  Toggle whether 'indent-region'/'indent-sexp' fix whitespace too.  here-doc support  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-n  (cperl-narrow-to-here-doc & optional POS)  Spell-check here-docs  C-c C-d  (cperl-pod-spell & optional DO-HERES)  Spell-check POD documentation.  • If invoked with prefix argument, in the Perl buffer.  • If a region is highlighted, restricts to the region.  • If invoked with prefix argument, will do HERE-DOCs instead.			•	• Delay of auto-help controlled by 'cperl-lazy-help-time' By default it is nil, which (like null)		
Toggle electric mode  C-c C-e  (cperl-toggle-electric)  Toggle the state of parentheses doubling in CPerl mode. When typing an opening parens character the closing one is automatically entered.  Toggle auto-fill mode	Toggle auto-newline	C-c C-3	(cperl-toggle-auto-newline)			
the closing one is automatically entered.  Toggle auto-fill mode  C-c C-f  (auto-fill-mode & optional ARG)  Toggle automatic line breaking (Auto Fill mode).  With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwis when Auto Fill mode is enabled, inserting a space at a column beyond 'current-fill-column' automatically breaks the line at a previous space.  Toggle keyword expansion  C-c C-k  (cperl-toggle-abbrev)  Toggle the state of automatic keyword expansion in CPerl mode.  Toggle space fix  C-c C-w  (cperl-toggle-construct-fix)  Toggle whether 'indent-region'/'indent-sexp' fix whitespace too.  here-doc support  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-n  (cperl-narrow-to-here-doc & optional POS)  Spell-check here-docs  C-c C-d  (cperl-here-doc-spell)  Spell-check HERE-documents in the Perl buffer.  If a region is highlighted, restricts to the region.  Spell-check POD documentation.  If invoked with prefix argument, will do HERE-DOCs instead.						
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* <f11> RET  Toggle keyword expansion  C-c C-k  (cperl-toggle-abbrev)  Toggle the state of automatic keyword expansion in CPerl mode.  Toggle space fix  C-c C-w  (cperl-toggle-construct-fix)  Toggle whether 'indent-region'/'indent-sexp' fix whitespace too.  here-doc support  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-n  (cperl-narrow-to-here-doc &amp;optional POS)  Spell-check here-docs  C-c C-d  (cperl-here-doc-spell)  Spell-check HERE-documents in the Perl buffer.  If a region is highlighted, restricts to the region.  Spell-check POD documentation  Spell-check POD documentation.  If invoked with prefix argument, will do HERE-DOCs instead.</f11>	Toggle auto-fill mode		(auto-fill-mode &optional ARG)	Toggle automatic line breaking (Auto Fill mode).  • With a prefix argument, enable Auto Fill mode if the prefix argument is positive, disable it otherwise.		
Toggle keyword expansion  C-c C-k (cperl-toggle-abbrev)  Toggle the state of automatic keyword expansion in CPerl mode.  Toggle space fix  C-c C-w (cperl-toggle-construct-fix)  Toggle whether 'indent-region'/'indent-sexp' fix whitespace too.  here-doc support  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-n (cperl-narrow-to-here-doc &optional POS)  Spell-check here-docs  C-c C-d (cperl-here-doc-spell)  Spell-check HERE-documents in the Perl buffer.  If a region is highlighted, restricts to the region.  Spell-check POD documentation  Spell-check POD documentation.  If invoked with prefix argument, will do HERE-DOCs instead.				When Auto Fill mode is enabled, inserting a space at a column beyond 'current-fill-column'		
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here-doc support  The following cperl-mode commands operate on Perl here documents.  Narrows to here-doc  C-c C-n  (cperl-narrow-to-here-doc &optional POS)  Spell-check here-docs  C-c C-d  (cperl-here-doc-spell)  Spell-check HERE-documents in the Perl buffer.  If a region is highlighted, restricts to the region.  Spell-check POD documentation  Spell-check POD documentation.  If invoked with prefix argument, will do HERE-DOCs instead.	expansion		,	, ,		
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Spell-check here-docs C-c C-d (cperl-here-doc-spell) Spell-check HERE-documents in the Perl buffer.  • If a region is highlighted, restricts to the region.  Spell-check POD documentation  C-c C-p (cperl-pod-spell &optional DO-HERES)  Spell-check POD documentation.  • If invoked with prefix argument, will do HERE-DOCs instead.						
Spell-check POD documentation  C-c C-p (cperl-pod-spell &optional DO-HERES)  Spell-check POD documentation.  • If a region is highlighted, restricts to the region.  Spell-check POD documentation.  • If invoked with prefix argument, will do HERE-DOCs instead.	Harrows to liere-doc	C-G C-II		Teachers contained regions to the FILTIL-2000 at 1 00. FOO deliaults to the point.		
Spell-check POD documentation  C-c C-p (cperl-pod-spell &optional DO-HERES) Spell-check POD documentation.  • If invoked with prefix argument, will do HERE-DOCs instead.	Spell-check here-docs	C-c C-d	(cperl-here-doc-spell)			
		C-c C-p	(cperl-pod-spell &optional DO-HERES)	Spell-check POD documentation.		
I	documentation					

Description	<u>Keystroke</u>	Function	<u>Note</u>
Verify & refactor code	The following commands provide Perl verification and refactoring facilities.		
Check code with pericritic	<f12> c</f12>	(pel-perl-critic &optional VERBOSE)	Validate the Perl file visited in current buffer with perloritic. Report error if it's not installed.  • With optional VERBOSE prefix argument, print extra information:  • Full name of the Policy module that created the violation  • Full diagnostic discussion of each Perl Best Practice (PBP) violation.  Show errors in compilation-mode buffer in a format that allows navigation.
Find/fix missing whitespace code	C-c C-b	(cperl-find-bad-style)	Find places in the buffer where insertion of a whitespace may help.  • Prompts user for insertion of spaces. Currently it is tuned to C and Perl syntax.
Refactor: if (A) {B}' ↔ 'B if A;'	C-c C-t	(cperl-invert-if-unless)	Change 'if (A) {B}' into 'B if A;' etc (or visa versa) if possible.  • If the cursor is not on the leading keyword of the BLOCK flavor of construct, will assume it is the STATEMENT flavor, so will try to find the appropriate statement modifier.
Lining up Perl Code : <u>Nation</u>	It's often best to line up Perl code vertically, arranging elements as tables, to help reader understand the code intent visually.  • This technique is also promoted in <u>Damian Conway's Perl Best Practice book, Vertical Alignment section of chapter 2</u> . See <u>pel-align-words-vertically</u> in <u>\(\bar{n}\) Align</u> .		
Lineup	• C-M-  • <f12>  </f12>	(cperl-lineup BEG END &optional STEP MINSHIFT)	Lineup construction in a region.  Beginning of region should be at the start of a construction.  All first occurrences of this construction in the lines that are partially contained in the region are lined up at the same column.  MINSHIFT is the minimal amount of space to insert before the construction.  STEP is the tabwidth to position constructions.  If STEP is nil, 'cperl-lineup-step' will be used (or 'cperl-indent-level', if 'cperl-lineup-step' is nil).  Will not move the position at the start to the left.
Testing Perl code	The following command provides a way to test Perl code locally. See Perl 5 Syntax for web-sites that provide a Perl interpreter.		
Start Perl REPL	<f11> z r P</f11>	(perl-repl)	Run a Perl REPL in a *Perl-REPL* buffer.
See: <u>Satart Shells/</u> <u>REPLs</u>	<f12> z</f12>		<ul> <li>Requires the perl-repl external package activated by perl-use-perl-repl user-option.</li> <li>The perl-repl-file-path user option specifies the name of the Perl REPL program, which may optionally specify the explicit file path.</li> <li>PEL provides the perl-repl shell script which uses the Perl command line.</li> </ul>

## Emacs & Perl — References

Document	Notes
Perl @ Wikipedia	
perl.org	
Learn Perl @ perl.org Perl Style Guide	Perl Tutorial - a gentle introduction to Perl with several examples over a browsable set of pages.     Perl Intro - a quick introduction to Perl     Online Perl books     Beginning Perl
Perl Reference Manuals	Perl Keywords,     Perl Operators. Also see the Perl ABC Operator page: organizes the information in sections (but has some markup typos).     Perl Functions
Is Perl still relevant?  Most probably.	What makes Perl relevant in 2022? @ Stackoverflow blog. Perl is dying quick. Could be extinct by 2023. The HFT Guy, 2019. (which includes several invalid points). My point is that Perl was popular, there's a lot of Perl code still being used and it's worth knowing and being able to write and edit Perl code (which was certainly not the first programming language as state by the article). But anyway, the post represents a point of view (and has many people commenting on it). Perl is making a comeback: 5 reasons why it's worth learning. Posted January 6, 2023 by Lucas Rees. Why Perl Didn't Win on outspeaking.com, updated December 21, 2020
Perl and Secure Coding Practice and Tools	Security Issues in Perl Scripts - by Jordan Dimov - Discussion of misused and overlooked features of Perl from the security point of view.  SEI CERT Perl Coding Standard @ Carnegie Mellon University The CERT Perl Secure Coding Standard, by David Svoboda, June 25, 2012 perlsec describes Perl security.  Tools: The perlcritic script uses Perl::Critic to scan Perl code and provides some listing advices. On some Linux distros you can install it with: sudo dnf install perl-Perl-Critic The perltidy application reformats Perl code to the promoted format. The zarn static analyzer, hosted on Github, is another static analyzer for Perl. (Quite immature as of Oct. 2024).
Perl File name extensions	<ul> <li>.pl Perl non executable libraries, also used for Perl scripts (but a file with no extension and a shebang line is also fine, and preferable, allowing the invocation of the script without having to type the '.pl' ).</li> <li>.pm Perl modules. Used by Active State implementation. Identifies executable Perl scripts. Also used elsewhere to distinguish from Prolog (which also uses the .pl file extension).</li> <li>.pls         <ul> <li>.xs</li> <li>.t</li> <li>.pod</li> </ul> </li> <li>Plain Old Documentation files, a lightweight markup language used to document Perl code.</li> <li>. See also perlpod.</li> <li>.psgi</li> </ul>
Perl programs	Perl command line options
• perl	Perl language interpreter
• perlbug / perlthanks	Describes how to submit bug report on Perl
• peridoc	Print Perl Documentation, looking it up in the .pod format embedded in perl installation. Support following options:     - f: built-in functions     - q: FAQ keyword search     - v: variable     - a perl API
• perlivp	Perl Installation Verification Procedure : checks Perl installation.     Part of perl-level package.
perisec - Peri security	
Getting Perl Modules with CPAN:  • CPAN @ Wikipedia  • The Zen of Comprehensive Archive Networks  • CPAN  • Search CPAN — meta::cpan  • PAUSE - Perl Authors Upload Server	Command line tools interacting with CPAN:         • cpan       : install on some Linux with: sudo dnf install perl-CPAN         • cpanplus       • cpanminus: cpanm: install on some Linux with: sudo dnf install perl-App-cpanminus