Emacs support for Perl

	1	Emacs su	ipport for Peri	
Description	<u>Keystroke</u>	Function	<u>Note</u>	
Perl Editing See: Perl 5 Syntax • Activate Perl • Select major mode	Emacs provides two major modes for Perl: perl-mode (Emacs default, simpler mode) and cperl-mode . The <a "="" ()="" []="" href="mailto:harmonic mailto:harmonic mailto:harmonic</th></tr><tr><th>1</th><th colspan=4> After using <u>HaraldJoerg/cperl-mode</u> if you want to revert to Emacs' own <u>cperl-mode</u>, remove the cperl-mode.el* and perl-tidy-ediff.el* files from ~/.emacs.d/utils PEL activates minor modes for the perl major mode as specified by the <u>pel-perl-activates-minor-modes</u> user-option. </th></tr><tr><th>• <u>∑ Speedbar</u>. ⇒</th><th colspan=4>If pel-use-speedbar is on, speedbar support for Perl is activated. Perl indentation for both perl-mode and cperl-mode is controlled by the following user-options:</th></tr><tr><th>• <u>∑ Indentation</u> control</th><th colspan=4>• pel-general-perl-indent-level: it defaults to 4. It is applied to perl-indent-level and cperl-indent-level as well as tab-width. The use of hard tabs is controlled by:</th></tr><tr><th>PEL Perl support</th><th></th><th>-tabs: it defaults to nil, forcing use of space</th><th>• •</th></tr><tr><th>improvements</th><th colspan=3> By default cperl-mode shows trailing whitespaces as underscores. Set pel-cperl-show-trailing-whitespace-normally user-option to t to use the trailing-whitespace face instead; by default this is a red background whitespace. PEL improves <u>iedit</u> support for cperl-mode when pel-use-iedit is on. See <u>Search/Replace</u>. pel-open-at-point can find Perl files in Perl directories. It supports the Perl package :: and 'syntax. Integrated buffer-only pertitidy commands from <u>HaraldJoerg/cperl-mode</u> perl-tidy-ediff with improved command interface (2 commands do everything instead of 3). pel-perl-critic executes Perl Critic over Perl code and provides navigation between compilation-mode error message and code. </th></tr><tr><th>Open this PDF file. See also: <u>∑ Help/Info</u></th><th><f11> SPC P <f1><f12> <f1></th><th>(pel-help-pdf &optional OPEN-WEB-PAGE)</th><th>Open the <u>\$1 - Perl</u> local PDF. With prefix argument (like C-u or M) opens the remote GitHub hosted raw PDF instead. If the pel-flip-help-pdf-arg user-option is set it's the other way around.</th></tr><tr><th>∑ Customize PEL Perl support</th><th><f11> SPC P <f2> <f12> <f2></th><th>(pel-customize-pel &optional OTHER-WINDOW)</th><th>Customize PEL Perl support. • If OTHER-WINDOW is non-nil (use C-u), display in another window.</th></tr><tr><th>© Customize Emacs Perl support</th><th><f11> SPC P <f3></th><th>(pel-customize-library &optional OTHER-WINDOW)</th><th>Customize Emacs Perl support: perl, cperl, electricity, perl-repl. • If OTHER-WINDOW is non-nil (use C-u), display in another window.</th></tr><tr><th>PCRE support</th><th>See PCRE support in 2</th><th>Search/Replace for commands to activat</th><th>e Perl Compatible regular expression search and operations.</th></tr><tr><th>Perl Doc</th><th></th><th></th><th>ort provides access to the Perl documentation available on your system.</th></tr><tr><th></th><th></th><th>web page provides the complete information</th><th>e, man perlintro provides the same information as given by the perldoc perlintro command. on on-line:</th></tr><tr><th></th><th>Overview Tutorials Peference Manual</th><th>Operators</th><th>History Internals and C Language Interface Miscellaneous Language specific Platform specific</th></tr><tr><th>Show command info</th><th>• Reference Manual C-c C-h F</th><th>Variables (cperl-info-on-command COMMAND)</th><th>Language-specific Show documentation for Perl command COMMAND in other window. If perl-info buffer is shown in some frame, uses this frame.</th></tr><tr><th>peridoc at point</th><th>• C-c C-h P</th><th>(cperl-perldoc-at-point)</th><th>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.</th></tr><tr><th></th><th>• <f12> ?
C-c C-h p</th><th>(cperl-peridoc WORD &optional</th><th>Prompt for for (default to word at point). Show information about the selected word with 'perldoc'.</th></tr><tr><th>Show Perl doc</th><th>C-c C-h f</th><th>SECTION) (cperl-info-on-current-command)</th><th>Show documentation for Perl command at point in other window.</th></tr><tr><th>Help on symbol at</th><th>C-c C-h v</th><th>(cperl-get-help)</th><th>Get one-line docs on the symbol at the point.</th></tr><tr><th>Open file at point</th><th>The following command</th><th>opens the file identified by the text taken at</th><th>The data for these docs is a little bit obsolete and may be in fact longer than a line. point (the cursor location). It supports extracting Perl package file names from the Perl package name.</th></tr><tr><th>(for Perl) S File mngt</th><th colspan=3>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 syntax which uses either :: or ' as path delimiter. • It searches the Perl package directories identified by Perl's @INC array and the directories identified by pel-perl-extra-project-root-directories user-option.</th></tr><tr><th><u></u></th><th> Y</th><th></th><th>nstruct 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</th></tr><tr><th>Show searched directory trees</th><th><f12> M-?</th><th>(pel-perl-show-source-directories)</th><th>Display the list of source directories searched by pel-open-at-point. The list is controlled by Perl's</th></tr><tr><th>Open file or web-page whose name is at point</th><th>• M-<f6> • <f11> f .</th><th>(pel-open-at-point &optional N)</th><th>@INC array and the extra list provided by pel-perl-source-directories user-option. Open the file, library or the URL, named at point, with potential line & column #s. Supports glob characters, partial directory path. When multiple files are found it prompts using the</th></tr><tr><th>★★
Command is also</th><th>• <u>6y</u></th><th></th><th>method selected by pel-prompt-read-method user-option.</th></tr><tr><th>specialized for: • M reStructuredText</th><th>This command works ge</th><th>nerically (for a normal file or directory name)</th><th>and is specialized for Perl buffers: it finds Perl files in directories trees identified by Perl's <u>@INC array.</u></th></tr><tr><th>• <u>ឆ្នាំ - C, ឆ្នាំ - C++</u>
• <u>ជូធ្នាំ - Emacs Lisp</u></th><th>The generic mode extr</th><th>raction works by identifying the beginning &</th><th>and column numbers, from text at point and tries to open the file or directory. end of the file/directory/library/URL name string by delimiter characters, one of: tab, newline and:</th></tr><tr><th> </th><th></th><th>'" th="" «»‹›⟨⟩<="" ⟨⟩="" 《》="" 「」=""><th></th>			
Generic Delimiting characters	The default is a very	y primitive function implemented by PEL. You	rompts using the method selected by pel-prompt-read-method user-option. ou can select a more powerful <u>ivy</u> prompting instead.	
			to t pand Ivy mode will be installed automatically when you restart Emacs. earch method, it does not only use the first one found.	
	The command opens the	• 🤞 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	 Select target window: Without argument: 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. 			
window ▼	 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. 			
	 With prefix numeric argument N: N < 0: create a new window and use that. 			
N>20 : open the	 (abs N) > 20: then open the directory instead of the file. Interpret the window position from the N value adjusted: N-20 (or N+20 if N is negative) N = 0: use the 'other' (the next) window. N = 1, 3, 7or above (excluding 8, 9 and 10): select the target window based on the number of editable windows in frame: 			
directory ►	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. N is: 8: up, 2: down, 4:left, 5:current, 6:right. 			
See function docstring	 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. Selecting Minibuffer, inexistent or dedicated window is not allowed. 			
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	This requires the hide	&optional START END) e-comnt.el package (see Comments).	If the region is active then toggle in the region. Otherwise, in the whole buffer. PEL activates it when the pel-use-hide-comnt user option is t.	
Navigation	Some navigation commands have special behaviour for Perl; they are shown below. They are available in perl-mode and cperl-mode . • There's also several generic navigation commands that work in Perl buffer too. See • Navigation for those.			
Commands Move to beginning of	• C-M-a	(perl-beginning-of-function &optional	Move backward to next beginning-of-function, or as far as possible.	
function To end of function	• <f12> <up></up></f12>	(perl-end-of-function & optional ARG)	With argument, repeat that many times; negative args move forward. Move forward to next end-of-function.	
	• <f12> <down></down></f12>		 The end of a function is found by moving forward from the beginning of one. With argument, repeat that many times; negative args move backward. 	

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 Ma	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
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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.
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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
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• 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.		•		
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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.
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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			
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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 Perl code	The following commands provide Perl verification and refactoring facilities.		
• peritidy	The following 2 commands run <u>peritidy</u> between areas of the Peri code in the current buffer and the tidied version of that code. All work is done inside Emacs buffers, no file is affected. After generating the tidied code the functions open an <u>ediff session</u> to compare your code and the tidied code, allowing you to decide what to use. Requires HaraldJoerg/cperi-mode activated by the <u>pel-use-peri</u> user-option. The peri-tidy-ediff commands execute the peritidy identified by <u>peri-tidy-command</u> user-option with options identified by the <u>peri-tidy-ediff-args</u> user-option. See <u>Peri:Tidy @meta::cpan</u> for the peritidy list of options, also <u>Online PeriTidy</u> , which provides help on the various options categorized by feature set.		
Run perltidy on current buffer or region. Ediff changes.	<f12> T</f12>	(pel-perl-tidy-ediff)	Run perltidy on current buffer, than start an ediff session, comparing the original source with perltidy output. Error messages are saved in the *perl-tidy-errors* buffer. • If an area is marked, run perltidy on the marked area only.
Run perltidy on current subroutine. Ediff changes.	<f12> t</f12>	(perl-tidy-ediff-sub)	Run the peritidy program on the subroutine that stats before point and start en ediff session to compare the original code with the tidied version. Error messages are saved in the *peri-tidy-errors* buffer.
• perlcritic	Perform static code analysis with perlcritic (which must be installed separately).		
Check code with pericritic	<f12> c</f12>	(pel-perl-critic &optional VERBOSE)	Validate the Perl file visited in current buffer with perlcritic. 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.
Other refactoring			
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 pel-align-words-vertically in <u>S 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>		 Requires the perl-repl external package activated by perl-use-perl-repl user-option. The perl-repl-file-path user option specifies the name of the Perl REPL program, which may optionally specify the explicit file path. PEL provides the perl-repl shell script which uses the Perl command line.

Emacs & Perl — References

Emacs & Peri — 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	 .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'). .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). .pls .xs .t .pod .plin Old Documentation files, a lightweight markup language used to document Perl code. See also perlpod. .psgi 	
Perl programs	Perl command line options	
• <u>perl</u>	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: • -q: FAQ keyword search • -v: variable • -a perl API	
• perlivp	 Perl Installation Verification Procedure: checks Perl installation. Part of perl-level package. 	

Document	Notes
• peritidy	PerlTidy @ Wikipedia , PerlTidy Home Pages: @SourceForge @GitHub. Perl::Tidy GitHub repo, Perl::Tidy @meta::cpan Online PerlTidy , which provides help on the various options categorized by feature set.
perlsec - Perl 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: Command line tools i