	Perl Tools	Perl Style Guide. perlcritic script uses Perl::Critic to scan Perl code. The perltidy application reformats Perl code.
Perl @ Wikipediaperl.orgperldoc browser	Learning Perl	Perl Intro - a quick introduction to Perl Online Perl books Beginning Perl

Perl 5 Syntax

Perl 5 Operators	Perl has a large number of operators, listed below with their precedence and associativity. Note:					
	 <u>C Operators missing from Perl</u>: unary & unary * and (type) <u>Quote and Quote-like operators</u>: in Perl quotes are operators and they provide various kind of interpolating and pattern matching capabilities. 					
Associativity: one of: right left NA : not associative: cannot use more than one of these operators in sequence. CH: chained	left derms and list operators (leftward left Arrow Operator: NA Auto-increment and Uato-decremony operators: left Symbolic Unary Operators: left Multiplicative Operators: left Additive Operators: left Additive Operators: left Shift Operators: NA named unary operators CH Relational Operators: left. Bitwise And: left. Bitwise And: left C-style Logical And: left Logical Defined-Or: NA Range Operators: right Conditional Operators: conditional Operators: Comma, fat-comma Operators: left NA right Logical Not: left Logical And: Logical And: Logical And: Logical And: Logical And: Logical Comma Operators: left Logical Comma Operators: left NA right Logical Comma Operators: left Logical Operators: left Logical Not: Logical And: Logical And: Logical Or and Exclusive or:	-> nent: ++ **	*= &= &.= <<= .= >>= ^.=	&&= = //=		
File test operators	It is possible to combine the file test operator	r with the AND operator as	s in the following example:		<pre>-f _ && -r _){ exists and is readable\n");</pre>	
The most important operators are shown here. They check if the file	-r is readable -w is writable -x is executable -o is owned by effective uidR is readable -W is writable -X is executable -O file is owned by real uid.	-f is a plain file.-d is a directory.-l is a symbolic lift-p is a named pipe	e (returns size in bytes). nk. (FIFO) or Filehandle is a pipe.		pecial file. ed to a tty. et. et.	
Perl Special Variables	 To get information about a Perl special var To get information about \$< use: perldo 		ine use the perldoc -v command.			
General variables	_					
default input and pattern searching space	• \$ARG • \$_		subroutine parameters	• @ARG • @_		
list separator	• \$LIST_SEPARATOR • \$"		Subscript separator for multidimensional array emulation	• \$SUBSCRIPT_SE • \$SUBSEP • \$;	EPARATOR	
Name of executed program	• \$PROGRAM_NAME • \$0		Name used to execute the current copy of Perl	• \$EXECUTABLE_ • \$^X	NAME	
Perl process ID	• \$PROCESS_ID • \$PID • \$\$					
Process real GID	 \$REAL_GROUP_ID \$GID \$(Process effective GID	\$EFFECTIVE_GI\$EGID\$)	ROUP_ID	
Process real UID	• \$REAL_USER_ID • \$UIG • \$<		Process effective UID	• \$EFFECTIVE_US • \$EUID • \$>	SER_ID\$	
Special variables in sort	• \$a • \$b					
Current environment	%ENV		ccessed as an associative array (a hoss shell environment variables the		rrays.	
Perl interpreter revision, version and subversion	• \$OLD_PERL_VERSION • \$]		Perl interpreter revision, version and subversion	• \$PERL_VERSION • \$^V	N	
Maximum file descriptor Fields of each line when	• \$SYSTEM_FD_MAX • \$^F					
auto-split mode is on.	@F					
Include Directories	@INC	Included filenames	%INC	Hook localization (?)	\$INC	
inplace-edit extension value	• \$INPLACE_EDIT • \$^I					

Package's class parent	@ISA					
<u>classes</u> <u>Emergency memory</u>	\$^M					
pool Maximum block nesting	\${^MAX_NESTED_EVAL_BEGIN_BLC	OCKS}				
Name of OS where this	• \$OSNAME					
Perl was built Signal handlers	• \$^O %SIG					
Coderefs for various	%{^HOOK}					
perl keywords Time when program	• \$BASETIME					
began running	• \$^T					
Variables related to regular expressions						
captured sub-patterns Capture buffer content	\$ <digit>(\$1,\$2,)</digit>					
String matched	<pre>@{^CAPTURE} • \$MATCH</pre>		String matched	\${^MATCH}		
	• \$&		(compiled regexp)	,		
String preceding match	• \$PREMATCH • \$`		String preceding match (compiled regexp)	\${^PREMATCH}		
String following match	• \$POSTMATCH • \$'		String following match (compiled regexp)	{^POSTMATCH}		
Last capture group	• \$LAST_PAREN_MATCH • \$+		Most recently closed capture group	• \$LAST_SUBMATCH_RESULT • \$^N		
Match capture key values	%{^CAPTURE}%LAST_PAREN_MATCH%+					
Match start offsets	• @LAST_MATCH_START • @-	Match ends offsets	• @LAST_MATCH_END • @+	Named captured of %{^CAPTURE_ALL} groups of %-		
Last successful pattern	\${^LAST_SUCESSFUL_PATTERN}					
Result of last successful regexp assertion	• \$LAST_REGEXP_CODE_RESULT • \$AR					
Maximum regexp	\${^RE_COMPILE_RECURSION_LIMIT}					
regexp debug flag	\${^RE_DEBUG_FLAG}					
regexp internal optimization/memory	\${^RE_TRIE_MAXBUF}					
Variables related to file handles						
Name of current file	\$ARGV	Command line	CARGU	Number of arguments \$#ARGV		
read from <>	ψ. n.co ·		@ARGV			
read from <> Special file handle that iterates over command-line filenames in @ARGV	ARGV	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing	@ARGVOUT	minus one \$#ARGV		
Special file handle that iterates over command-line filenames in	1	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing				
Special file handle that iterates over command-line filenames in @ARGV	• IO::Handle->output_field_separator(EX • \$OUTPUT_FIELD_SEPARATOR • \$OFS	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	ARGVOUT Current line number for the last	HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator	ARGV • IO::Handle->output_field_separator(E) • \$OUTPUT_FIELD_SEPARATOR • \$OFS • \$, • IO::Handle->input_record_separator(E) • \$INPUT_RECORD_SEPARATOR • \$RS	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	ARGVOUT Current line number for the last file handled accessed	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default)	ARGV • IO::Handle->output_field_separator(EX) • \$OUTPUT_FIELD_SEPARATOR • \$OFS • \$, • IO::Handle->input_record_separator(E) • \$INPUT_RECORD_SEPARATOR • \$RS • \$/ • HANDLE->autoflush(EXPR) • \$OUTPUT_AUTOFLUSH	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	ARGVOUT Current line number for the last file handled accessed Output record separator	 MANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\(\) 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control	ARGV • IO::Handle->output_field_separator(EX) • \$OUTPUT_FIELD_SEPARATOR • \$OFS • \$, • IO::Handle->input_record_separator(E) • \$INPUT_RECORD_SEPARATOR • \$RS • \$/ • HANDLE->autoflush(EXPR) • \$OUTPUT_AUTOFLUSH	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	ARGVOUT Current line number for the last file handled accessed Output record separator	 MANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\(\) 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control • Variables related to format Current value of the write() accumulator for	ARGV • IO::Handle->output_field_separator(EX • \$OUTPUT_FIELD_SEPARATOR • \$OFS • \$, • IO::Handle->input_record_separator(E • \$INPUT_RECORD_SEPARATOR • \$RS • \$/ • HANDLE->autoflush(EXPR) • \$OUTPUT_AUTOFLUSH • \$	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	ARGVOUT Current line number for the last file handled accessed Output record separator	 MANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\(\) 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control • Variables related to format Current value of the write() accumulator for format() lines. Form feed format.	ARGV IO::Handle->output_field_separator(EX SOUTPUT_FIELD_SEPARATOR SOFS S, IO::Handle->input_record_separator(EX SINPUT_RECORD_SEPARATOR SRS S/ HANDLE->autoflush(EXPR) SOUTPUT_AUTOFLUSH SI SACCUMULATOR SAA IO::Handle->format_formfeed(EXPR) SFORMAT_FORMFEED	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	ARGVOUT Current line number for the last file handled accessed Output record separator Last read file handle Set of characters after which a string may be broken to fill	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\\\$\\\$\\^LAST_FH\\} IO::Handle->format_line_break_characters EXPR \$FORMAT_LINE_BREAK_CHARACTERS 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control • Variables related to format Current value of the write() accumulator for format() lines. Form feed format. defaults to \f	ARGV • IO::Handle->output_field_separator(EX) • \$OUTPUT_FIELD_SEPARATOR • \$OFS • \$, • IO::Handle->input_record_separator(EX) • \$INPUT_RECORD_SEPARATOR • \$RS • \$/ • HANDLE->autoflush(EXPR) • \$OUTPUT_AUTOFLUSH • \$ • \$ACCUMULATOR • \$^A • IO::Handle->format_formfeed(EXPR) • \$FORMAT_FORMFEED • \$^L • HANDLE->format_lines_left(EXPR) • \$FORMAT_LINES_LEFT	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR)	Current line number for the last file handled accessed Output record separator Last read file handle Set of characters after which a string may be broken to fill continuation fields Current page length of current	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\\$\ \$\{^LAST_FH\}\ • IO::Handle->format_line_break_characters EXPR \$FORMAT_LINE_BREAK_CHARACTERS \$: HANDLE->format_lines_per_page(EXPR) \$FORMAT_LINES_PER_PAGE 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control • Variables related to format Current value of the write() accumulator for format() lines. Form feed format. defaults to \(\)f Number of lines left on the page on currently selected output channel Name of current top-page format of output	ARGV IO::Handle->output_field_separator(EX SOUTPUT_FIELD_SEPARATOR SOFS S, IO::Handle->input_record_separator(EX SINPUT_RECORD_SEPARATOR SRS S/ HANDLE->autoflush(EXPR) SOUTPUT_AUTOFLUSH SI SACCUMULATOR	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR) XPR)	Current line number for the last file handled accessed Output record separator Last read file handle Set of characters after which a string may be broken to fill continuation fields Current page length of current output channel Report format name of output channel	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\\$\\$\AST_FH\} IO::Handle->format_line_break_characters EXPR \$FORMAT_LINE_BREAK_CHARACTERS \$: HANDLE->format_lines_per_page(EXPR) \$FORMAT_LINES_PER_PAGE \$= HANDLE->format_name(EXPR) \$FORMAT_NAME \$~ at may appear during execution of a Perl program. 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control • Variables related to format Current value of the write() accumulator for format() lines. Form feed format. defaults to \(f \) f Number of lines left on the page on currently selected output channel Name of current toppage format of output channel	ARGV IO::Handle->output_field_separator(E) SOUTPUT_FIELD_SEPARATOR SOFS S, IO::Handle->input_record_separator(E) SINPUT_RECORD_SEPARATOR SRS S/ HANDLE->autoflush(EXPR) SOUTPUT_AUTOFLUSH SI SACCUMULATOR SACCUMULATOR SPORMAT_FORMFEED SPORMAT_FORMFEED SPORMAT_LINES_LEFT SPORMAT_LINES_LEFT SPORMAT_TOP_NAME SPORMAT_TOP_NAME SACCUMULATOR SPORMAT_TOP_NAME SPORMAT_TOP_NAME SACCUMULATOR	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR) XPR)	Current line number for the last file handled accessed Output record separator Last read file handle Set of characters after which a string may be broken to fill continuation fields Current page length of current output channel Report format name of output channel	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\\$\\$\AST_FH\} IO::Handle->format_line_break_characters EXPR \$FORMAT_LINE_BREAK_CHARACTERS \$: HANDLE->format_lines_per_page(EXPR) \$FORMAT_LINES_PER_PAGE \$= HANDLE->format_name(EXPR) \$FORMAT_NAME \$~ at may appear during execution of a Perl program. 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) • Variables related to format Current value of the write() accumulator for format() lines. Form feed format. defaults to \(\)f Number of lines left on the page on currently selected output channel Name of current toppage format of output channel • Error Variables Perl error from the last	ARGV • IO::Handle->output_field_separator(EX) • \$OUTPUT_FIELD_SEPARATOR • \$OFS • \$, • IO::Handle->input_record_separator(EX) • \$INPUT_RECORD_SEPARATOR • \$RS • \$/ • HANDLE->autoflush(EXPR) • \$OUTPUT_AUTOFLUSH • \$ • \$ACCUMULATOR • \$^A • IO::Handle->format_formfeed(EXPR) • \$FORMAT_FORMFEED • \$^L • HANDLE->format_lines_left(EXPR) • \$FORMAT_LINES_LEFT • \$- • HANDLE->format_top_name(EXPR) • \$FORMAT_TOP_NAME • \$^A The variables \$@, \$!, \$^E, and \$? contain They correspond to errors detected by the service of the	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR) XPR)	Current line number for the last file handled accessed Output record separator Last read file handle Set of characters after which a string may be broken to fill continuation fields Current page length of current output channel Report format name of output channel rent types of error conditions the ty, operating system, or an exter	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$. IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\\$\\$\\$\AST_FH\} • IO::Handle->format_line_break_characters EXPR \$FORMAT_LINE_BREAK_CHARACTERS \$: HANDLE->format_lines_per_page(EXPR) \$FORMAT_LINES_PER_PAGE \$= HANDLE->format_name(EXPR) \$FORMAT_NAME \$\\$\\$\\$\\$ at may appear during execution of a Perl program. nal program, respectively. \$EXCEPTIONS_BEING_CAUGHT \$\^S\$ 		
Special file handle that iterates over command-line filenames in @ARGV Output field separator for the print operator Input record separator (newline by default) Auto-flush control • Variables related to format Current value of the write() accumulator for format() lines. Form feed format. defaults to \f Number of lines left on the page on currently selected output channel Name of current toppage format of output channel • Error Variables Perl error from the last eval operator Current value of C errno	ARGV IO::Handle->output_field_separator(EX SOUTPUT_FIELD_SEPARATOR SOFS S, IO::Handle->input_record_separator(EX SINPUT_RECORD_SEPARATOR SRS SY HANDLE->autoflush(EXPR) SOUTPUT_AUTOFLUSH SI SACCUMULATOR SACCU	arguments of the script Special file handle that points to currently open output file when doing edit-in-place processing KPR) XPR)	Current line number for the last file handled accessed Output record separator Last read file handle Set of characters after which a string may be broken to fill continuation fields Current page length of current output channel Report format name of output channel rent types of error conditions the ry, operating system, or an exter Current state of interpreter Hash of error names to 0 or 1, set to 1 if current error is this	 HANDLE->input_line_number(EXPR) \$INPUT_LINE_NUMBER \$NR \$NR \$IO::Handle->output_record_separator(EXPR) \$OUTPUT_RECORD_SEPARATOR \$ORS \$\\$\\$\ALAST_FH\} IO::Handle->format_line_break_characters EXPR \$FORMAT_LINE_BREAK_CHARACTERS \$: HANDLE->format_lines_per_page(EXPR) \$FORMAT_LINES_PER_PAGE \$= HANDLE->format_name(EXPR) \$FORMAT_NAME \$~ at may appear during execution of a Perl program. nal program, respectively. \$EXCEPTIONS_BEING_CAUGHT \$\^S\$ \$\%OS_ERROR \$\%ERRNO 		

Status returned by last pipe close, backtick command, wait, waited, or system() call.	• \$CHILD_ERROR • \$?	native status returned by last pipe close , backtick command, wait() or wiatpid() or system() call	\${^CHILD_ERROR_NATIVE}		
Current value of warning switch	• \$WARNING • \$^W	Current set of warning checks enabled by the use warnings pragma	\${^WARNING_BITS}		
Variables related to the interpreter state	These variables provide information about the current interpreter state.				
Flag associated with the -c switch	• \$COMPILING • \$^C	The current value of the debugging flags	• \$DEBUGGING • \$^D		
Current phase of the perl interpreter	\${^GLOBAL_PHASE}				
Compile-time hints for the perl interpreter. Internal use only	\$^H	Values of compiled statements	%^H		
Input/Output Layers. Internal use by PerllO only.	\${^OPEN}				
Debugging support. Internal variable.	• \$PERLDB • \$^P				
Taint mode	\${^TAINT}	Safe locale operations availability	\${^SAFE_LOCALES}		
Unicode Settings of Perl	\${^UNICODE}				
Internal UTF-8 offset caching code state	\${^UTF8CACHE}	State of UTF-8 locale detected by perl at startup.	\${^UTF8LOCALE}		
Deprecated and removed variables:	\$# \$* \$[\${^ENCODING} \${^WIN32 SLOPED STATES SLOPED STATES STATES SLOPED STATES SLOPED STATES SLOPED STATES SLOPED STATES SLOPED SLOPED STATES SLOPED STATES SLOPED	PPY_STAT}			