Perl Cheat Sheet: a handy re	oforonco \$<	real UID	NOTES:			Regex Charcl	asses	
Terr Cheat Sheet. a nanuy re	Ψ-	effective UID		$ \text{for} \Leftrightarrow \text{foreach } \mathbf{ALWAYS}$				anything
Getting Help:	\$(real GID		nd loops could use last, next, re	edo	\s	<pre>⇔ [\x20\f\t\r\n]</pre>	white spaces
pelrdoc perl	\$)	effective GID		optional label		\w	⇔ [A-Za-z0-9_]	word (alphanum_)
pelrdoc perl SOMETHING	\$& \$`	string being matched		or a loop could have a label, so		• -		digit
perldoc perlfaq	\$	the preceding str the following str	CONDITIONS C	<pre>could be used after a single state print "Ok" if (\$ok);</pre>	ellent tike	\S \W \D ne		nonetc.
perldoc perlfaqN where N is 19	\$ARGV	filename of <>			ParlDoc · norleyn		PerlDoc:perlrequick	k, perlretut,perlre, perlreref
perldoc -f <i>FUNC</i>	@ARGV	command line args	NUMBERS	US STRINGS	enboc. perisyn	Regex Metach		
Running Perl	%ENV	environment	-	= =		^	string begin	
- e CMD single line of script	a	args in subs	_	-		\$	str. end(before \n)	
-W warnings on	@INC	include paths	== !=	eq ne		+	one or more	
- C checks syntax only	\$~	format (perldoc perlform)	< > <= >=	lt gt le ge		2	zero or more	
- n non-printing input loop	\$^	top-of-page format name	<=>	cmp		(3.7)	zero or one	i maa
- p printing input loop	\$^A	formline accumulator	String literal	•		{ 3 , 7 }	repeated in range 3-7 t character class, set me	
-i [EXT] in-place edit, EXT of backup	\$^L	output formfeed (\f)	Name	is week? Method 1 Method	d 2	l J	alternation	mebei
- a auto split (Splits to @F)	\$^T	script run time (epoch)	Literal	' ' q{ }	u 2	\b	word boundary	
- F REGEXP auto split delimiter	\$^X	interpreter filename	Literal	yes " " qq{ }		\z	string end	
-0 [OCT HEX] set input record sep '\$/'	\$!	errno or errstr	Command	yes `` qx{ }		()	capture	
- 00 paragraph record mode	\$@	eval error msg	Word list	qw{ }		(?:)	no capture	
-M MOD load a module	\$?	return value child proc	Pattern matc			(?=)	+ve ahead assertion	
- I [DIR] perpend DIR to @INC.	\$.	line number (last read)	compile pat	•		(?!)	-ve ahead assertion	
-S use PATH for exec -l [OCT] auto-chomp and set '\$\'	\$%	page # of output channel	Substitution			(?<=)	+ve back assertion	
- l [OCT] auto-chomp and set '\$\' - CSD enable UTF-8	\$=	lines in output channel page (default 60)	Trans	tr{ }		(?M)	Emb.REGEX MODIFIERS	
-CSD enable OTF-8 -T taint checking (<i>perldoc</i> perlsec)	\$-	lines remaining on page	here-doc	yes < <e0s< td=""><td></td><td>UTF8 I/O:</td><td></td><td></td></e0s<>		UTF8 I/O:		
-d enable debugger. "perl -de 0"	\$	autoflush (write)	NOTE: you	can replace {} with any non-alphanum delimiter	like = or +	#! /usr/bin/p	nerl	
-D NUM sets debugging flags	PAROV	filename of <>	NOTE: we	ek works if delimiter is not '', interpolation is don	ne with week,	use utf8;	, , , ,	
- U dump core, see undump(1)	\$0	script filename	NOTE: \$n=	="123"; ⇔ \$n=123; and \$a="ok" ⇔ \$a=v111.107	7	use encoding	'utf8':	
-U unsafe operations mode	\$+	last sub-pattern	NOTE: bin	ary operators with strings, eg. print "wxyz" ^ "	"."\n":		:f8'; # input and output default la	aver will be UTF-8
- V ver and patchlevel of script	\$1 \$^I	<pre>\$9 \${100} sub-patterns in-place edit</pre>			PerlDoc: perlop	#	· · · · · · · · · · · · · · · · · · ·	-9
-x [DIR] seek script after "#!" in input	'	"undef \$^I" to turn off	Escape Speci	ials:				PerlDoc:perlunicode
-S -xyz=abc cause \$xyz='abc'	NOTE:	PerlDoc: perlva	\t	TAB		Some Importa	ant Modules:	•
EXAMPLE: perl -s -e 'print "\$myvar\n"'	myvar="myval"		" \n	newline			abases like MySQL), Dige	est::MD5this.
	PerlDoc: perlrun	r Precedence	\r	return			:Basename, Getopt::Long	
	· ->		\ f	form feed		Locale::gette	ext, Math::BigFloat, Math	h::BiaInt.
Contexts: void scaler list								
	ssub *glob ++		\b	backspace		Math::BigInt:	:Calc, Math::BigInt::Cal	lcEmu,
	nlob undef **		\b \a	alert (beep)		Math::BigInt: Math::BigRat,	:Calc, Math::BigInt::Cal Math::Complex, Math::Ti	lcEmu, rig, Net:Ping,
SIGILS: \$scalar @array %hash &	lob undef ! ~ \ u	+ u-	\b \a \e	alert (beep) escape		Math::BigInt: Math::BigRat, Net::SMTP, 0	:Calc, Math::BigInt::Cal	lcEmu, rig, Net:Ping, , overload, POSIX,
SIGILS: \$scalar @array %hash & Scalers: number string reference g	red red	+ u-	\b \a \e \l	alert (beep) escape lower next		Math::BigInt: Math::BigRat, Net::SMTP, O Safe, SDL, Tk	:Calc, Math::BigInt::Cal Math::Complex, Math::Tu (compiler backend), ops, (, Unicode::Normalize, XM	lcEmu, rig, Net:Ping, , overload, POSIX, ML:Parser
SIGILS: \$scalar @array %hash & Scalers: number string reference g Arrays Whole: @array %ha	olob undef Hashes ~ \ u-	+ u-	\b \a \e \l	alert (beep) escape lower next upper next		Math::BigInt: Math::BigRat, Net::SMTP, O Safe, SDL, Tk Perl One-Line	:Calc, Math::BigInt::Cal Math::Complex, Math::Ti (compiler backend), ops	lcEmu, rig, Net:Ping, , overload, POSIX, ML:Parser nik. <i>Linux Gazette</i>
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Built-in Function	ns (underlined defaults to \$_)	Array and List F	unctions	I/O Operations	
Conversion		delete \$H{K}	Delete value from hash.	FH is a file har	ndle that is created with oper
abs X	absolute value	each %H	Return next (key,val) array or null	predefined like	
int X	str to integer	exists \$H{K}	Check if hash key exists.		file passed with @ARGV (STDIN
hex X	hex to dec	keys %H	Return an array of hash keys	<fh></fh>	reads a line (or array of al
oct X	oct to dec	values %H	Return an array of hash values		ommended to be in upper case
chr X	num(ASCII) to str	scalar %H	true if H has elements defined		e "could not\n\$!"
ord X	first char to num(ASCII)	scalar @A	Return number of A elements	open FH, M, FN [[,L]
Arithmetics		reverse L	invert order of L		there are many more see perl
sin X		unshift @A, L			v', 'w+', 'a', and 'a+'
cos X		Prepends L to A, and	d returns the number of elements in the new array.		and all with '+' (eg. 'a+' '+
	arctan of V/V	shift [@A]	return first element and remove it	M: '- ', ' -' c	create pipe, L arguments for F
atan2 Y,X	arctan of Y/X	pop @A	Pop off and returns last value of A		PerlD
sqrt X	square root of X	push @A, L	Push values of L onto the end of A	binmode FH	set to binary mode (useless
exp X	e to the power X	join E, L	return strings of L joined by E separator	close FH	closes file or pipe FH
log X	log X base e	map E, L or ma	ap {BLOCK} L	eof FH	true if the all reading is d
Binary Manipula		Evaluate E or BLOCK	for each element of L, locally setting \$_ to it. Modifying	eof	EOF status for the last file
vec X, 0, B	get B bits at O offset of X	\$_ will modify the corre	sponding element from L. Returns the list of results.	fcntl FH,N,\$V	UNIX fcntl, see man fcntl(2)
pack T, LS	list to binary struct	grep E,L or gr	rep {BLOCK} L	fileno FH	Returns the file descriptor
unpack T, X	struct to list	set \$_ for each L elem	ent, allow modification, returns array where E true.	flock FH, OP	file lock like UNIX flock(2)
Time and Rando	m Gen.	splice @A, 0 [,	N[,L]]	OP: 1 shared, 2	exclusive, 4 non-blocking, or
rand [X]	0≤rand(X) <x< td=""><td>Removes the N elem</td><td>ents of @A designated by offset O, replacing them with L,</td><td>getc [FH]</td><td>read character(or empty stri</td></x<>	Removes the N elem	ents of @A designated by offset O, replacing them with L,	getc [FH]	read character(or empty stri
srand [X]	seed (not needed)	Returns the elements	removed.	ioctl FH,N,\$V	UNIX ioctl(2)
time	seconds since epoch	sort [FUNC] L		pipe FH_R, FH_W	
gmtime X	time to array	return sorted	version of L, FUNC receives \$a \$b	sprintf F,L	return string of formatting
localtime X	time to array	EXAMPLE: @L =	<pre>sort {\$a cmp \$b} @str_array;</pre>	print [FH] <u>[L]</u>	output to FH
EXAMPLE: (\$sec	, \$min, \$hour,\$mday, \$mon,	split [PAT [, E	[, M]]]	printf[FH] <u>[L]</u>	output to FH
<pre>\$year,\$wday,\$yday,\$isdst) = localtime(time);</pre>		Splits a string E into	an array of strings, and returns it.	syswrite FH,SCAL	LER,L[,0] output to FH
String Manipula	tions	at most M element a	re get, If no PAT splits at the whitespace.	read FH,\$V,L[,0]	
chomp <u>L</u>	del ending "\n" from each L	If not in array contex	t, returns number of fields and splits to @	sysread FH,\$V,L[[,0]
chop <u>L</u>	del each last char from L	File unary tests			input \$V from FH, L: length,
length <u>E</u>	num characters in E	-r -w -x	is file readable/writable/executable	seek FH,P,W	set offset, W: 0 abs,1 cur,
lc E	return lowercase E	-R -W -X	for real UID/GID not the effective one	<pre>\$nfound=select \$</pre>	SRV, \$WV, \$EV, TIMEOUT
lcfirst E	same with 1st char only	-0 -0	is file owned by effective/real uid.		ct(2),all can be undef, set v
uc E	return uppercased E	-e -z	File exists/has zero size.	\$RV=''; vec(\$R\	V, fileno(FH), 1) = 1;
ucfirst E	same with 1st char only	- S	return size (ie. exists and non-empty)	tell [FH]	current file position
quotemeta E	return E with special RE quoted	-f -d	is file regular file/a directory.	Formatted Output	ıt
crypt S,SALT	Encrypts a string	-l -S -p	is symbolic link/a socket/FIFO pipe	formline PIC,L	Formats L according to PIC,
eval E	run perl expression	-b -c	is file a block/character device	write [FH]	writes a formatted record to
index S,SUB[,0]	find 1st occurrence of SUBSTR in S	-u -g -k	has setuid/setgid/sticky bit set.		to set the format use
rindex S,SUB[,0]	same but last	-t	if filehandle (default STDIN) a tty.	format[FH] =	
substr E,O[,L]	get L chars after O from E	-M -A -C modi	fication/access/inode-change time(days)	FORMLIST	
Search and Repl	ace Functions	-T -B	is text/non-text (binary) file.		
pos <u>S</u>	\G position m//g (May be assigned to.)	NOTE: both -T a	ind -B return true on a null file (or a		Per
study[\$V]	study \$V to speed next matching on it	file at EOF when	n testing a filehandle)		see \$-, \$^, \$~, \$^A, \$^F
[<u>E</u> =~][m]/ RE /[g]		File Operations		System interaction	
	RE. first m is to use different pair of delimiters.	chmod MODE,L	set permissions of a list of files	alarm SEC	send SIGALRM after SEC secon
	of subexpressions parentheses	chown U,G,L	owner and group of a list of files	chdir <u>[E]</u>	Changes the working director
	[e][g][i][m][o][s][x]	truncate F, S	set size of F to S. filename or handle		for process and its children
	on-overlapping matches of RE with STR	link ORIG, LINK	make a hard link	die <u>[L]</u>	Prints L to STDERR
	of replacements.		(make a soft link	warn [L]	like die, but doesn't exit
RE Modifiers:	or repeacements.		Creates a directory	exec L	system command in L; does no
g	global match (more than once)	readlink <u>E</u>	Returns the value of a symbolic link	exit [E]	Exits immediately
i	case-insensitive	rename OLD, NEW	Changes the name of a file, or move it		UNIX fork(2), used to in IPC
S	single line string	rmdir <u>FILENAME</u>	Deletes the directory if it is empty	getlogin	current login name
m	multi-line string (^ \$ differ)	unlink L	Deletes a list of filenames	gettogin getpgrp [PID]	group for process PID (or cu
0	opt. interpolates variables once	utime A,M,L	set access and modification times	setpgrp PID, PGF	
X	enable extensions	lstat F	like stat, but does not follow link		parent PID
e e	replacement is to be evaluated as exp	stat F	Returns a 13-element array	getppid	•
			no, 2: \$mode, 3: \$nlink, 4: \$uid,	getpriority WHIC	CH, WHO, PRIORITY
[\$VAR=~]y/ SET1 /S			ev, 7: \$size, 8: \$atime, 9: \$mtime,	serbiloilly WHIC	
[\$VAR=~]tr/ SET1 ,			\$blksize, 12: \$blocks)	alob DAT	see UNIX getpriority(2)
	If characters to corresponding SET2 Irn number of characters replaced.	· ·		glob PAT	shell pattern matching, retu
	nplements SET1; s squeezes repetitions	Directory Listing		kill SIG,L	Sends a signal to a list of
	ing no corresponding chars in CET2.	openair DH,DIR	close it with closedir DH	sleep [SEC]	

Returns the next entry NOTE: in array context return an array of entries

d del, chars having no corresponding chars in SET2:

syscall L

system L

en (or IN elsewhere) times all lines) rldoc -f open '+>>') FN command lDoc: perlipc s on UNIX) done ile read. (2) (2), where or 8 unlock trina) pipes ng L as F th,0: offset , 2 EOF vectors with , add to \$^A to FH PerlDoc: perlform ^F, \$- and \$= conds. tory. ^en. not return [PC current) eturn arrav of PIDs like exec L with a fork, and wait

wait waits for a child process to terminate waitpid PID, FLAGS like wait but for PID Returns a 4-element array (0: \$user, 1: \$system, 2: \$cuser, 3: \$csystem) umask [EXPR] sets the umask for the process getpwnam NAME get user information by login name getpwuid UID same but by UID returns array (0:\$name, 1:\$passwd, 2:\$uid, 3:\$gid, 4:\$quota, 5:\$comment, 6:\$qcos, 7:\$dir, 8:\$shell) getgrnam NAME get group information by group name. aetaraid GID same but by group GID. returns array (0:\$name, 1:\$passwd, 2:\$gid, 3:\$members) Network Information: gethostbyaddr, gethostbyname, getnetbyaddr. getnetbyname, getservbyname, getservbyport, getprotobyname, getprotobynumber,..etc EXAMPLE: list network services, protocols and ports perl -e 'while ((\$s,\$a,\$p,\$P)=getservent) {print "\$s\t\$P:\$p\n"}' Networking and IPC accept, bind, connect, getpeername, getsockname, getsockopt, recv, send, setsockopt, shutdown, socket socketpair, msgctl.msgget, msgsnd, msgrcv, semctl. semget, semop, shmctl, shmget, shmread, shmwrite, ... By Muayyad Saleh Al-Sadi <alsadi@gmail.com> based on perlcheat by Juerd Waalboer<juerd@cpan.org> http://juerd.nl/site.plp/perlcheat and Perl 5 Desktop Reference

by Johan Vromans

Suggested References: Perl 5 Pocket Reference