

PERLHEAT(1) User Contributed Perl Documentation

CONTEXTS SIGLIS ARRAYS HASHES

void \$scalar whole: @array %hash

scalar @array slice: @array[0, 2] @hash{'a', 'b'}

list %hash element: \$array[0] \$hash{'a'}

&sub

\*glob SCALAR VALUES

number, string, reference, glob, undef

REFERENCES

\ references \$foo[1] aka \$foo->[1]

\$@%&\* dereference \$foo{bar} aka \$foo->{bar}

[] anon. arrayref \${\$foo[1]}[2] aka \$foo->[1]->[2]

{ } anon. hashref \${\$foo[1]}[2] aka \$foo->[1][2]

() list of refs

NUMBERS vs STRINGS LINKS

OPERATOR PRECEDENCE = = perl.plover.com

> + search.cpan.org

++ == eq ne cpan.org

\*\* <> <=> lt gt le ge pm.org

! ~ \ u+ u- <=> cmp tpj.com

~ !~ perldoc.com

\* / % x SYNTAX

+ - for (LIST) { } , for (a;b;c) { }

<< >> while ( ) { } , until ( ) { }

named uops if ( ) { } elsif ( ) { } else { }

<< <=> lt gt le ge unless ( ) { } elsif ( ) { } else { }

== != <=> eq ne cmp for equals foreach (ALWAYS)

&

| ^ REGEX METACHARS REGEX MODIFIERS

&& ^ string begin /i case insens.

|| \$ str. end (before in) /m line based ^S

... + one or more /s. includes \n

? \* zero or more /x ign. wh.space

+= -= \*= etc. ? zero or one /g global

,=> {3,7} repeat in range

list ops ( ) capture REGEX CHARCLASSES

not (? :) no capture . == [^n]

and [ ] character class \s == [\x20/\t/\r/\n]

or xor | alternation \w == [A-Za-z0-9\_]

\b word boundary \d == [0-9]

\z string end \S, \W and \D negate

DO

use strict; DON'T LINKS

use warnings; "foo" perl.com

my \$var; \$\$variable\_name perlmonks.org

open() or die \$!; \$userinput use.perl.org

use Modules; /\$userinput/ perl.apache.org

parrotcode.org

FUNCTION RETURN LISTS

stat localtime caller SPECIAL VARIABLES

0 dev 0 second 0 package \$\_ default variable

1 ino 1 minute 1 filename \$0 program name

2 mode 2 hour 2 line \$/ input separator

3 nlink 3 day 3 subroutine \$& output separator

4 uid 4 month-1 4 hasargs \$| autoflush

5 gid 5 year-1900 5 wantarray \$! sys/libcall error

6 rdev 6 weekday 6 evaltext \$@ eval error

7 size 7 yearday 7 is\_require \$\$ process ID

8 atime 8 is\_dst 8 hints \$. line number

9 mtime 9 bitmask @ARGV command line args

10 ctme just use @INC include paths

11 blksz POSIX:: 3..9 only @\_ subroutine args

12 blcks strftime! with EXPR %ENV environment

A

- \* abs - absolute value function
- \* accept - accept an incoming socket connect
- \* alarm - schedule a SIGALRM
- \* atan2 - arctangent of Y/X in the range -PI to PI

B

- \* bind - binds an address to a socket
- \* binmode - prepare binary files for I/O
- \* bless - create an object
- \* break -

C

- \* caller - get context of the current subroutine call
- \* chdir - change your current working directory
- \* chmod - changes the permissions on a list of files
- \* chomp - remove a trailing record separator from a string
- \* chop - remove the last character from a string
- \* chown - change the ownership on a list of files
- \* chr - get character this number represents
- \* chroot - make directory new root for path lookups
- \* close - close file (or pipe or socket) handle
- \* closedir - close directory handle

- \* connect - connect to a remote socket
- \* continue - optional trailing block in a while or foreach
- \* cos - cosine function
- \* crypt - one-way passwd-style encryption

D

- \* dbmclose - breaks binding on a tied dbm file
- \* dbmopen - create binding on a tied dbm file
- \* defined - test whether a value, variable, or function is defined
- \* delete - deletes a value from a hash
- \* die - raise an exception or bail out
- \* do - turn a BLOCK into a TERM
- \* dump - create an immediate core dump

E

- \* each - retrieve the next key/value pair from a hash
- \* endgrent - be done using group file
- \* endhostent - be done using hosts file
- \* endnetent - be done using networks file
- \* endprotoent - be done using protocols file
- \* endpwent - be done using passwd file
- \* endservent - be done using services file
- \* eof - test a filehandle for its end
- \* eval - catch exceptions or compile and run code
- \* exec - abandon this program to run another
- \* exists - test whether a hash key is present
- \* exit - terminate this program
- \* exp - raise I to a power

F

- \* fcntl - file control system call
- \* fileno - return file descriptor from filehandle
- \* flock - lock an entire file with an advisory lock
- \* fork - create a new process just like this one
- \* format - declare a picture format with use by the write() function
- \* formline - internal function used for formats

G

- \* getc - get the next character from the filehandle
- \* getgrent - get next group record
- \* getgrgid - get group record given group user ID
- \* getgrnam - get group record given group name
- \* gethostbyaddr - get host record given its address
- \* gethostbyname - get host record given name
- \* gethostent - get next hosts record
- \* getlogin - return who logged in at this tty
- \* getnetbyaddr - get network record given its address
- \* getnetbyname - get networks record given name
- \* getnetent - get next networks record
- \* getpeername - find the other end of a socket connection
- \* getppgrp - get process group
- \* getppid - get parent process ID
- \* getpriority - get current nice value
- \* getprotobyname - get protocol record given name
- \* getprotobynumber - get protocol record numeric protocol
- \* getprotoent - get next protocols record
- \* getpwent - get next passwd record
- \* getpwnam - get passwd record given user login name
- \* getpwuid - get passwd record given user ID
- \* getservbyname - get services record given its name
- \* getservbyport - get services record given numeric port
- \* getservent - get next services record
- \* getsockname - retrieve the sockaddr for a given socket
- \* getsockopt - get socket options on a given socket
- \* glob - expand filenames using wildcards
- \* gmtime - convert UNIX time into record or string using Greenwich time
- \* goto - create spaghetti code
- \* grep - locate elements in a list test true against a given criterion

H

- \* hex - convert a string to a hexadecimal number

I

- \* import - patch a module's namespace into your own
- \* index - find a substring within a string
- \* int - get the integer portion of a number
- \* ioctl - system-dependent device control system call

J

- \* join - join a list into a string using a separator

K

- \* keys - retrieve list of indices from a hash
- \* kill - send a signal to a process or process group

L

- \* last - exit a block prematurely
- \* lc - return lower-case version of a string
- \* lcfirst - return a string with just the next letter in lower case
- \* length - return the number of bytes in a string
- \* link - create a hard link in the filesystem
- \* listen - register your socket as a server
- \* local - create a temporary value for a global variable (dynamic scoping)

- \* localtime - convert UNIX time into record or string using local time
- \* lock - get a thread lock on a variable, subroutine, or method
- \* log - retrieve the natural logarithm for a number
- \* lstat - stat a symbolic link

M

- \* m - match a string with a regular expression pattern
- \* map - apply a change to a list to get back a new list with the changes
- \* mkdir - create a directory
- \* msgctl - SysV IPC message control operations
- \* msgget - get SysV IPC message queue
- \* msgrcv - receive a SysV IPC message from a message queue
- \* msgsnd - send a SysV IPC message to a message queue
- \* my - declare and assign a local variable (lexical scoping)

N

- \* next - iterate a block prematurely
- \* no - unimport some module symbols or semantics at compile time

O

- \* oct - convert a string to an octal number
- \* open - open a file, pipe, or descriptor
- \* opendir - open a directory
- \* ord - find a character's numeric representation
- \* our - declare and assign a package variable (lexical scoping)

P

- \* pack - convert a list into a binary representation
- \* package - declare a separate global namespace
- \* pipe - open a pair of connected filehandles
- \* pop - remove the last element from an array and return it
- \* pos - find or set the offset for the last/next m/g search
- \* print - output a list to a filehandle
- \* printf - output a formatted list to a filehandle
- \* prototype - get the prototype (if any) of a subroutine
- \* push - append one or more elements to an array

Q

- \* q - singly quote a string
- \* qq - doubly quote a string
- \* qr - Compile pattern
- \* quotemeta - quote regular expression magic characters
- \* qw - quote a list of words
- \* qx - backquote quote a string

R

- \* rand - retrieve the next pseudorandom number
- \* read - fixed-length buffered input from a filehandle
- \* readdir - get a directory from a directory handle
- \* readline - fetch a record from a file
- \* readlink - determine where a symbolic link is pointing
- \* readpipe - execute a system command and collect standard output
- \* recv - receive a message over a Socket
- \* redo - start this loop iteration over again
- \* ref - find out the type of thing being referenced
- \* rename - change a filename
- \* require - load in external functions from a library at runtime
- \* reset - clear all variables of a given name
- \* return - get out of a function early
- \* reverse - flip a string or a list
- \* rewinddir - reset directory handle
- \* rindex - right-to-left substring search
- \* rmdir - remove a directory

S

- \* s - replace a pattern with a string
- \* say -
- \* scalar - force a scalar context
- \* seek - reposition file pointer for random-access I/O
- \* seekdir - reposition directory pointer
- \* select - reset default output or do I/O multiplexing
- \* semctl - SysV semaphore control operations
- \* semget - get set of SysV semaphores
- \* semop - SysV semaphore operations
- \* send - send a message over a socket
- \* setgrent - prepare group file for use
- \* sethostent - prepare hosts file for use
- \* setnetent - prepare networks file for use
- \* setppgrp - set the process group of a process
- \* setpriority - set a process's nice value
- \* setprotoent - prepare protocols file for use
- \* setpwent - prepare passwd file for use
- \* setservent - prepare services file for use
- \* setsockopt - set some socket options
- \* shift - remove the first element of an array, and return it
- \* shmctl - SysV shared memory operations
- \* shmget - get SysV shared memory segment identifier
- \* shmread - read SysV shared memory
- \* shmwrite - write SysV shared memory
- \* shutdown - close down just half of a socket connection
- \* sin - return the sine of a number

- \* sleep - block for some number of seconds
- \* socket - create a socket
- \* socketpair - create a pair of sockets
- \* sort - sort a list of values
- \* splice - add or remove elements anywhere in an array
- \* split - split up a string using a regexp delimiter
- \* sprintf - formatted print into a string
- \* sqrt - square root function
- \* srand - seed the random number generator
- \* stat - get a file's status information
- \* state -
- \* study - optimize input data for repeated searches
- \* sub - declare a subroutine, possibly anonymously
- \* substr - get or alter a portion of a string
- \* symlink - create a symbolic link to a file
- \* syscall - execute an arbitrary system call
- \* sysopen - open a file, pipe, or descriptor
- \* sysread - fixed-length unbuffered input from a filehandle
- \* sysseek - position I/O pointer on handle used with sysread and syswrite
- \* system - run a separate program
- \* syswrite - fixed-length unbuffered output to a filehandle

T

- \* tell - get current seekpointer on a filehandle
- \* telldir - get current seekpointer on a directory handle
- \* tie - bind a variable to an object class
- \* tied - get a reference to the object underlying a tied variable
- \* time - return number of seconds since 1970
- \* times - return elapsed time for self and child processes
- \* tr - transliterate a string
- \* truncate - shorten a file

U

- \* uc - return upper-case version of a string
- \* ucfirst - return a string with just the next letter in upper case
- \* umask - set file creation mode mask
- \* undef - remove a variable or function definition
- \* unlink - remove one link to a file
- \* unpack - convert binary structure into normal perl variables
- \* unshift - prepend more elements to the beginning of a list
- \* untie - break a tie binding to a variable
- \* use - load in a module at compile time
- \* utime - set a file's last access and modify times

V

- \* values - return a list of the values in a hash
- \* vec - test or set particular bits in a string

W

- \* wait - wait for any child process to die
- \* waitpid - wait for a particular child process to die
- \* wantarray - get void vs scalar vs list context of current subroutine call
- \* warn - print debugging info
- \* write - print a picture record

X

- \* -X - a file test (-r, -x, etc)

Y

- \* y - transliterate a string