Network Programming with Perl

	Perl Hel	р		Command-line	Arguments		Variables	
Install Package		install perl-doc	-0[octal/hexadeci		ord separator (\$/) as an octal or hexadecimal	\$var	Default variable	abs
perldoc perldoc	rldoc perldoc Look up Perl documentation in Pod format		mal]	number		\$var[20]	21st element of array @var	accept
peridoc peritoc		n Table of Contents (ToC)	-a	Turns on autosplit mo	de when used with a -n or -p	\$p = \@var	Now \$p is a reference to @var	bind
peridoc peri peridoc perifunc	Basics language int List of built-in Perl f		- C		he syntax of the program and then exit	\$\$p[20]	21st element of array referenced by \$p	binmode
peridoc -f <function_name< td=""><td></td><td></td><td>-C [number/list]</td><td>without executing it</td><td>me of the Perl Unicode features.</td><td>\$var[-1]</td><td>Last element of array @var</td><td>chdir</td></function_name<>			-C [number/list]	without executing it	me of the Perl Unicode features.	\$var[-1]	Last element of array @var	chdir
peridoc periop	List of Perl operato		-d, -dt	Runs the program und		\$var[\$x][\$y]	\$y-th element of \$x-th element of array @var	chmod
perldoc perlmodlib	For constructing pe	erl modules and finding existing ones	-u, -ut -Dletters,			<pre>\$var{'JAN'}</pre>	A value from 'hash' %var	chop
peridoc perilocal	Locally installed mo		-Dietters,	debugging enabled)	only if your perl binary has been built with	\$p = \%var	Now \$p is a reference to hash %var	chown
perldoc <module_name></module_name>	Documentation for	specific module	-e commandline	May be used to enter o	one line of program	\$\$p{'JAN'}	A value from hash referenced by \$p	close
	Comparison op	perators		-	citly enables all optional features (in the main	\$#var	Last index of array @var	closedir
	Arithmetic	Strings	-E commandline	compilation unit)		@var	The entire array	connect
Less than	<	lt	-f	Disable executing \$Co	nfig{sitelib}/sitecustomize.pl at startup	@var[5,6,7]	A slice of array @var	crypt
Greater than	>	gt	-F pattern	Specifies the pattern to	o split on for -a (regex // , "" , or ")	<pre>@var{'X','Y'}</pre>	A slice of %var; same as (\$var{'X'},\$var{'Y'})	delete
Less than or equal	<=	le	-h	Prints summary if the	options	%var	The entire hash;	die
Greater than or equal	>=	ge	- m	-mmodule executes us	e module (); before executing your program	\$var{'a',1,}	Emulates a multidimensional array;	dump
Equality	==	eq	- M	-Mmodule executes us	e module ; before executing your program			eof
Inequality	!=	ne	-n	Input loop in the script	without line printing		Socket Programming	eval
	Boolean ope	rators	-р	Input loop in the script	with line printing		Server-side Method	exit
Description	•	Example	-S		TH environment variable to search for the		<pre>xet(SOCKET, DOMAIN, TYPE, PROTOCOL);</pre>	
C-style Logical AND	&&	(\$a && \$b) is false	-T	program Turns on taint so you o	san test	<pre>bind() call -bind(listen() call- list</pre>	SOCKET, ADDRESS); :en(SOCKET, QUEUESIZE);	exp fork
operator			- T - V	-	patchlevel of your perl executable		cept(NEW_SOCKET, SOCKET);	
Logical AND operator	and	(\$a and \$b) is false			major perl configuration values and the	Se	rver-side Socket Script Example	gethostbyaddr
C-style Logical OR operator		(\$a \$b) is true	-V	current values of @IN(,	#!/usr/bin/perl -w		gethostbyname
Logical OR operator	or	(\$a or \$b) is true	- W	Prints warnings about	dubious constructs	# Filename : server	socket.pl	getlogin
C-style Logical NOT		!(\$a) is false	-xdirectory		ram is embedded in a larger chunk of	use strict;		getnetbyname
operator	•			unrelated text		use Socket;		getnetent
Logical NOT operator	not	not(\$a) is false		Special Va	ariables	#		getpeername
			\$	Default variable		<pre># use port 7999 my \$port = shift </pre>	7999:	getprotobynam
	Quotes (\$foo	o = 5;)	\$/	The input record s	eparator, newline by default	my \$proto = getprot		getprotobynumb
Single-quotes - Literal	\$bar = 'it is worth \$foo';	it is worth \$foo	\$\	The output record	separator for the print operator	my \$server = "local	host"; # Host IP running the server	getprotoent
data enclosing Double-quotes -			\$(The real GID (Grou	up ID) of this process	# create a socket		getpwent
Interpolated data	\$bar = "it is worth \$foo";	it is worth 5	\$)	The effective GID	(Group ID) of this process		NET, SOCK_STREAM, \$proto)	getpwnam
enclosing	<u> </u>	:* := "	\$&	The string matche	ed by the last successful pattern match	or die "cannot open		getpwuid
Escape characters	<pre>\$bar = "it is \"worth\" \$foo"; \$bar = 'it is \'worth\' \$foo;</pre>	it is "worth" 5 it is 'worth' \$foo	\$`	The string preced	ing whatever was matched by the last	<pre>setsockopt(SUCKET, or die "cannot make</pre>	SOL_SOCKET, SO_REUSEADDR, 1)	getservbyname
	\$bar = q(it is 'worth' \$foo);			successful patter		of all cannot make		getservbyport
Without quotes	\$bar = qq(it is "worth" \$foo);	it is "worth" 5	\$'	I he string followi successful patter	ng whatever was matched by the last n match	# bind to a port fo	-	getservent
			\$ARGV		e of the current file when reading from <>		_sockaddr_in(\$port, inet_aton(\$server))) to port \$port! \n";	getsockname
Assoc	Operators	Description	@ARGV	The array @ARGV	contains the command-line arguments			getsockopt
left	terms and list operators	See below.		intended for the s		listen(SOCKET, 5) o	-	hex
left	->	Infix dereference operator	%ENV		ontains your current environment	print Server socke	t started on port \$port\n";	join
	=++	Auto-increment (magical on strings).	@	passed to that sub	e the array @_ contains the parameters proutine	# accept a connecti	on	kill
		Auto-decrement.	@INC	Contains the list of	f places that the do EXPR , require, or use	<pre>my \$client_addr; while (felient_addr;</pre>		length
right	**	Exponentiation.		constructs look fo	•	# send message to c	<pre>> = accept(NEW_SOCKET, SOCKET)) { close connection</pre>	listen
right	\ \	Reference to an object (unary).	\$~	output channel	current report format for the currently selected		<pre>yaddr(\$client_addr, AF_INET);</pre>	m
right	! ~	Unary negation, bitwise complement.	\$^		current top-of-page format for the currently	· –	<pre>new socket welcome"; hetabliched fname)n";</pre>	mkdir
right	+ -	Unary plus, minus.	T	selected output cl		close NEW_SOCKET;	established \$name\n";	msgrcv
left	= ~	Binds a scalar expression to a pattern match.	\$^A		of the write() accumulator for format() lines	}		msgsnd
left	! ~	Same, but negates the result.	\$^L		put as a form feed. The default is \f		Client-side Method	my
left	* / % x	Multiplication, division, modulo, repetition.	\$^T	the epoch (beginn	the program began running, in seconds since ing of 1970)	<pre>connect() call -con</pre>	nect(SOCKET, ADDRESS);	package
left	+	Addition, subtraction, concatenation	\$^X	The name used to	execute the current copy of Perl	Cli	ent-side Socket Script Example	print
left	>> <<	Bitwise shift right, bitwise shift left.	\$!		المع a true value only if \$! is set to that value	<pre>!/usr/bin/perl -w # Fileners - alient</pre>	eestet nl	printf
	named unary		<i>φ</i> :	- %ERRNO	n the last evel an event of the last set	<pre># Filename : client</pre>	SUCKEL.PI	push
	operators	E.g. sin, chdir, -f, -M.	\$@	The Perl error fror that was caught	n the last eval operator, i.e. the last exception	use strict;		q
	< > <= >=	Numerical relational operators.		v	ed by the last pipe close, backtick (``)	use Socket;		•
	lt gt le ge	String relational operators.	\$?	command, succes system() operator	ssful call to wait() or waitpid(), or from the	# start host and po	ort	qq
		Numerical equal, not equal, compare.	\$		er for the last filehandle accessed.	my \$host = shift	'localhost';	qr
	== != <=>	Stringwise equal, not equal, compare. Compare operators return -1 (less), 0	Ψ• 		number of the currently selected output	<pre>my \$port = shift my \$sopyop = "local</pre>		quotemeta
	eq ne cmp	(equal)	\$%	channel		my ⊅server = "local	host"; # Host IP address of the server.	qw
left	&	or 1 (greater). Bitwise AND.	\$=		length (printable lines) of the currently	# create the socket	and connect to the port	qx
left	α [^	Bitwise AND. Bitwise OR, exclusive OR.	-	· · ·	nannel. The default is 60 es left on the page of the currently selected	· · · · · ·	<pre>IET,SOCK_STREAM,(getprotobyname('tcp'))[2])</pre>	rand
left	I	Logical AND.	\$-	output channel		or die "Cannot crea connect(SOCKET, pa	<pre>ite a socket \$!\n"; ick_sockaddr_in(\$port, inet_aton(\$server)))</pre>	read
left		Logical AND.	\$		forces a flush right away and after every write		<pre>nect to port \$port! \n";</pre>	readdir
		In scalar context, range operator.	\$0	· · ·	rently selected output channel e of the program being executed	m, d1.		readline
	••	In array context, enumeration.			by the highest used capture group of the last	<pre>my \$line; while (\$line = <soc< pre=""></soc<></pre>	<pre>KET>) {</pre>	readpipe
			\$+	successful search	-	<pre>print "\$line\n";</pre>		recv
right	?:	Conditional (if ? then : else) operator.	Run mode	e options	References	}		rename
right	= += -= *= etc.	Assignment operators.		•		close SOCKET or die	: CTORE: \$1 }	return
left	د	Comma operator, also list element separator.		orsonpt	\ reference		Arrays	rmdir
	_`	Same, enforces the left operand to be a	-w Warnings -c Checks sy	ntax	L] arrayref	@arr = (13);	Array initialization	send
left	= >	string.		without printing	{ } hashref	\$i = @arr;	Number of elements in the array	shift
left	=>		-n Input loop		() List of refs		-	
left	list operators	See below.		n input loop		@arr = split(/-/,\$text);	Split the string into \$text	shutdown
	list operators (rightward)		-p Printing ar			push(@arr, \$s);	Append \$s to @arr	shutdown socket
right	list operators (rightward) not	Low precedence logical NOT.	-p Printing ar	split		push(@arr, \$s); \$arr = pop(@arr);	Append \$s to @arr Removes the last element in the array	
right	list operators (rightward)	Low precedence logical NOT. Low precedence logical AND.	-p Printing an -a Automatic -M Load a mo	split		push(@arr, \$s);	Append \$s to @arr Removes the last element in the array Removes the last character in the array	socket
right	list operators (rightward) not	Low precedence logical NOT.	-p Printing and the second s	split odule		push(@arr, \$s); \$arr = pop(@arr);	Append \$s to @arr Removes the last element in the array	socket sort

Re	levant Perl Functions
abs	Absolute value
accept	Accept an incoming socket connection
bind	Binds an address to a socket
binmode	Prepare binary files for input/output
chdir	Change current working directory
chmod	Changes the permissions on a file/list of fi
chop	Remove the last character from a string
chown	Change the ownership of the file
close	Close file
closedir	Close directory
connect	Connect to a remote socket
crypt	One-way encryption
delete	Deletes a value from a hash
die	Raise an exception
dump	Create a core dump immediately
eof	End of file
eval	Compile and run code
exit	Terminate running s program
exp	Exponential
fork	Create a new process just like the existing
gethostbyaddr	Get host record IP address
gethostbyname	Get host record given name
getlogin	Return who is logged in at this TTY
getnetbyname	Get networks record given name
getnetent	Get next networks record
getpeername	Find the other end of a socket connection
getprotobyname	Get protocol record given name
etprotobynumber	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	
getservent	Get services record given numeric port
getsockname	Get next services record
getsockopt	Retrieve the sockaddr for a given socket
hex	Get socket options on a given socket
ПСА	Convert a string to a hexadecimal number
ioin	loin a list into a string lising a congrator
join kill	Join a list into a string using a separator
kill	Send a signal to a process or process grou
kill length	Send a signal to a process or process grou Return the number of bytes in a string
kill length listen	Send a signal to a process or process grou Return the number of bytes in a string Register your socket as a server
kill length listen m	Send a signal to a process or process grou Return the number of bytes in a string Register your socket as a server Match a string with a regular expression pa
kill length listen m mkdir	Send a signal to a process or process grou Return the number of bytes in a string Register your socket as a server Match a string with a regular expression pa Create a directory
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kill length listen m mkdir msgrcv msgsnd my package print printf push qq qr quotemeta qw qx readdir readdir readline readline readline readline send shift shutdown socket sort	Send a signal to a process or process group Return the number of bytes in a string Register your socket as a server Match a string with a regular expression participation of the server Create a directory Receive a SysV IPC message from a message of Declare and assign a local variable (lexical Declare a separate global namespace) Output a list to a filehandle Output redirect to a filehandle Output redirect to a filehandle Doubly quote a string Doubly quote a string Quote regular expression magic characters Quote a list of words Backquote quote a string Retrieve the next pseudorandom number Fixed-length buffered input from a filehandle Run a system command and collect standar Receive a message via a Socket Change a filename Exit function early Remove a directory Send a message via a socket Remove the first element of an array Terminate half of the socket connection Create a socket Sort a list of values

