Rosetta Stone for Scripting Languages

Language	sh	perl	python
Website		www.perl.org	www.python.org
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License		GPL / Perl Artistic License	CNRI Open Source GPL-Compatible license
	sh -c "script"	perl -e 'script'	python -c script
-	sh scriptfilename	perl scriptfilename	python scriptfilename
Whitespace	Mostly not significant	Not significant	Significant: indentation indicates blocks
Statement Separator	; or newline	:	Newline
Block	, or new me	{ }	(Indicated by increased indentation)
Comment	#	#	#
Variable	var when setting; \${var} or \$var otherwise	**************************************	var
, without	var when bearing, p (var) or p var onler when	\$array[n] Or	
Array		@array for whole thing;	(1,2,3) tuple (immutable),
·		\$array[0] for first element	[1,2,3] list (mutable)
Array Size		\$#array + 1	len sequence
Hash		\$hash{key} Or	{ key:value,, key:value}
114511		%hash for whole thing	{ key.vulue,, key.vulue}
Hash Iterate		foreach \$key (keys %hash)	for key,value in hash.items()
C4*	"quoted string" (with variable/command substitution),	"quoted string" (with variable/command substitution),	'Quoted string' "Quoted string"
String	'quoted string' (without variable/command substitution)		'''Quoted string including line breaks'''
Command line arguments	\$0,\$1,\$n where n is \$# (and only up to \$9; after that, use shift)		sys.argv
Last Result	Tropperson in the property ap to po, after that, use sittle	\$	_ (but only for explicit expressions in an interactive session)
	var=value	\$var = value;	var = value
Equality (string)	=	eq eq	==
Equality (numeric)	-eq	==	==
Logical And	-eq -a		and
Logical Or	-0	11	or
Logical Not		1	not
Logical Not		-	import re
			reobj = re.compile(regexp)
Regexp Search		/regexp/	reobj.search(string) (for repeated searches) or (for one-time matching)
			re.search(regexp, string)
n n l			result = reobj.sub(replacement, string)
Regexp Replace		s/regexp/replacement/	Or result = re.sub(regexp, replacement, string)
	if condition		if condition:
Conditional	then block elif condition	<pre>if (test) {block} elsif (test) {block}</pre>	block elif condition:
Conditional	then block else block	else {block}	block else:
	fi		block
Iteration	for item in <i>list</i> do	for (\$i=1; \$i<10; \$i++) {block} for (10,9,8,7,6,5,4,3,2,1) {block}	for x in iterable:
iteration	block done	<pre>for (115) {block} foreach \$element (@array) {block}</pre>	block
	while condition	, , , , , , , , , , , , , , , , , , , ,	
Loop	do block	while (test) {block}	while condition: block
	done		
Trent Book Trentmon	continue	next	continue
Exit Loop	break case <i>value</i> in	last	break
Switch	pattern1) commands;;		
	<pre>pattern2) commands;; esac</pre>		
Function Definition	fnname () { commands; }	sub fnname {block} with arguments in @_	def fnname(param1, param2,): block
Function Call	fnname	&fnname(arg1, arg2)	fn(arg1, arg2,)
Function Parameters pass by		Value or reference (with @@@)	Value
		(000)	
PARTE IN OTHER	nnint	print STDOUT "stuff to print\n".	nnint
	print	print STDOUT "stuff to print\n", printf STDOUT <i>format</i>	print
Open File for Read	print	<pre>printf STDOUT format open(FILEHANDLE, "filename")</pre>	open(filename, mode='r')
Open File for Read Open File for Write		<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename")</pre>	<pre>open(filename, mode='r') open(filename, mode='w')</pre>
Open File for Read Open File for Write Read from File	read (only from stdin)	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle></filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read()</pre>
Open File for Read Open File for Write Read from File Write to File		<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n"</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string)</pre>
Open File for Read Open File for Write Read from File	read (only from stdin)	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE)</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read()</pre>
Open File for Read Open File for Write Read from File Write to File	read (only from stdin) test -r readable,	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable,</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close()</pre>
Open File for Read Open File for Write Read from File Write to File	read (only from stdin) test -r readable, test -f is plain file,	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists,</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File	read (only from stdin) test -r readable, test -f is plain file, test -d is directory;	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file,</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename")</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File Rename File	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname")</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname") (\$dev, \$ino, \$mode, \$nlink, \$uid, \$gid, \$rdev, \$size, \$atime, \$mtime, \$ctime,</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File Rename File File Info	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname") (\$dev, \$ino, \$mode, \$nlink, \$uid, \$gid, \$rdev, \$size, \$atime, \$mtime, \$ctime, \$blksize, \$blocks) = stat(FILEHANDLE)</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename) os.remove(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File Rename File File Info Output Formatting	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname") (\$dev, \$ino, \$mode, \$nlink, \$uid, \$gid, \$rdev, \$size, \$atime, \$mtime, \$ctime, \$blksize, \$blocks) = stat(FILEHANDLE) C-like printf formats</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename) os.remove(filename) os.rename(oldname, newname) os.stat(filename)</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File Rename File File Info Output Formatting String Concatenation	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename mv oldfilename newfilename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname") (\$dev, \$ino, \$mode, \$nlink, \$uid, \$gid, \$rdev, \$size, \$atime, \$mtime, \$ctime, \$blksize, \$blocks) = stat(FILEHANDLE) C-like printf formats "stringa" . "stringb"</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename) os.rename(oldname, newname) os.stat(filename) string1+string2</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File Rename File File Info Output Formatting String Concatenation Substring	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname") (\$dev, \$ino, \$mode, \$nlink, \$uid, \$gid, \$rdev, \$size, \$atime, \$mtime, \$ctime, \$blksize, \$blocks) = stat(FILEHANDLE) C-like printf formats "stringa" . "stringb" substr(string, offset [,length])</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename) os.remove(filename) os.rename(oldname, newname) string1+string2 string[offset:endoffset]</pre>
Open File for Read Open File for Write Read from File Write to File Close File Test File Delete File Rename File File Info Output Formatting String Concatenation	read (only from stdin) test -r readable, test -f is plain file, test -d is directory; [condition] is alternative form rm filename mv oldfilename newfilename	<pre>printf STDOUT format open(FILEHANDLE, "filename") open(FILEHANDLE, ">filename") <filehandle> print FILEHANDLE "stuff to print\n" close(FILEHANDLE) -r readable, -e exists, -f is plain file, -d is directory unlink("filename") rename("oldname", "newname") (\$dev, \$ino, \$mode, \$nlink, \$uid, \$gid, \$rdev, \$size, \$atime, \$mtime, \$ctime, \$blksize, \$blocks) = stat(FILEHANDLE) C-like printf formats "stringa" . "stringb"</filehandle></pre>	<pre>open(filename, mode='r') open(filename, mode='w') f.read() f.write(string) f.close() os.path.exists(filename) os.path.isfile(filename) os.path.isdir(filename) os.remove(filename) os.rename(oldname, newname) os.stat(filename) string1+string2</pre>