

Variable	
Variable	Meaning
\$0	Name of the current script
\$1 - \$9	Positional parameters #1 - #9
\${10}	Positional parameters #10
\$#	Number of positional parameters
"\$*"	All the positional parameters as one single word
"\$@"	All the positional parameters as separated strings
\${#*} or \$#@}	Number of command line parameters passed to script
\$?	Return value
\$\$	Process ID of the script
\$-	Flags passed to Script
_	Last argument of previous command
!	Process ID of Last Job in background

### Miscellaneous Constructs

Expression	Meaning
if [ ... ] then --- fi	If [ value ] is true, then do ---
if [[ ... ]] then --- fi	If [[ value ]] is true, then do -- - (extended condition)
while [ ... ] do --- done	while [ value ] is true, do ---
(( ... ))	Arithmetic operation

Be very careful not to forget the space in the brackets!

Bash Operators		
Operator for Variables	Meaning	Operator for Strings
-eq	Equal to	==
-ne	Not equal to	!=
-lt	Less than	<
-le	Less than or equal to	
-gt	Greater than	>
-ge	Greater than or equal to	
	String is empty	-z
	String is not empty	-n

/ Not needed if in [[double-bracket]]

### Operators between ((double parentheses))

Arithmetic Operator	Meaning
>	Greater than
>=	Greater than or equal to
<	Less than
<=	Less than or equal to

### Generate a random number between 0 and 10

```
(( ( RANDOM % 10 ) + 1 ))
```

File Operator	
Operator	Meaning
-e	File Exists
-f	file is a regular file
-d	file is a directory
-h or -L	file is a symbolic link
-b	File is a block device
-N	File modified since it was last read
-O	You own the file
-G	Group ID of the file is the same as yours
!	Reverse the sense of the above tests
-s	Size of the file is not 0
-r	File has read permission
-w	File has write permission
-x	File has execute permission
-nt	Is newer than
-ot	Is older than



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