Cheatography

Bash_test_expressions Cheat Sheet

by andrsrz via cheatography.com/69588/cs/17623/

File Expressions

file1 **-ef** *file2*	*file1 and file2 have the same inode numbers (the two filenames refer to the same file by hard linking).*
file1 **-nt** *file2*	*file1 is newer than file2.*
file1 **-ot** *file2*	*file1 is older than file2.*
-b *file*	*file exists and is a block-special (device) file.*
-c *file*	*file exists and is a character-special (device) file.*
-d *file*	*file exists and is a directory.*
-e *file*	*file exists.*
-f *file*	*file exists and is a regular file.*
-g *file*	*file exists and is set-group-ID.*
-G *file*	*file exists and is owned by the effective group ID.*
-k *file*	*file exists and has its "sticky bit" set.*
-L *file*	*file exists and is a symbolic link.*
-O *file*	*file exists and is owned by the effective user ID.*
-p *file*	*file exists and is a named pipe.*
-r *file*	*file exists and is readable (has readable permission for the effective user).*
-s *file*	*file exists and has a length greater than zero.*
-S *file*	*file exists and is a network socket.*

File Expressions (cont)

-t *fd*	***fd*** *is a file descriptor directed to/from the terminal. This can be used to determine wheter standard input/output/error is being redirected.*
-u *file*	*file exists and is setuid.*
-w *file*	*file exists and is writable (has write permission for the effective user).*
-x *file*	*file exists and is executable (has execute/search permission for the effective user).*

Logical Expressions

AND	**-a**
OR	**-o**
NOT	**!**

Integer Expressions

integer1 **-eq** *integer2*	*integer1 is equal to integer2.*
integer1 **-ne** *integer2*	*integer1 is not equal to integer2.*
integer1 **-le** *integer2*	*integer1 is less than or equal to integer2.*
integer1 **-lt** *integer2*	*integer1 is less than integer2.*
integer1 **-ge** *integer2*	*integer1 is greater than or equal to integer2.*
integer1 **-gt** *integer2*	*integer1 is greater than integer2.*

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String Expressions

string	*string is not null.*
***-n** string*	*The length of string is greater than zero.*
***-z** string*	*The length of string is zero.*
string1 = string2 *string1 == string2*	*string1 and string2 are equal.*
*string1 **!=** string2*	*string1 and string2 are not equal.*
*string1 **>** string2*	*string1 sorts after string2.*
*string1 **<** string2*	*string1 sorts before string2.*

Modern Version of test

Instead of using **[*expression*]** is going to be **[[*expression*]]** and one designed for integers is **((*expression*))**.
With **[[*expression*]]** we can have an expression matching a regular expression:
string =~ regex.
For the integers in this way we can use the conventional way of other programming languages expressions like:
int == 0.
int < 0.
int > 0.
*int **%** 0.*
And of course the logical operators, instead of using the older options of test we can use:
&& for and.
|| for or.
! for not.

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