	find command updated 9/25/2009. Based on GNU find v4.4.					
File	criteria	Tree	Depth Criteria			
find	-name <file></file>	find	-maxdepth 3			
find	-path <file></file>	find	-mindepth 3			
find	-Iname <file></file>	find	-depth Brocoss subdirs' filos bofor	o dir's own filos		
find	-ilname <file></file>	0	Use -d (non-POSIX) on BSD-ba	sed systems		
0 I I I I I	"i" indicates case insensitive	Acti	ns	-		
0	"1" matches with symlink's target's name	find				
0	"wholename" matches full path. Wildcards	0 I IIIU	Implies -depth so cannot be	used with -prune.		
find		find	–prune			
find	-iregex <regex></regex>	find	quit			
0	Defaults to emacs regex syntax.	find	$\ldots$ -exec <command/> \;			
0	with <b>-regextype</b> <emacs posix-awk="" td=""  =""  <=""><td>find</td><td><math>\dots</math> -exec &lt; command &gt; \{\} +</td><td></td></emacs>	find	$\dots$ -exec < command > \{\} +			
	posix-basic   posix-egrep   posix-extended>	find	ok <command/> \; execdir <command/> \:			
find	-type <d f 1 ></d f 1 >	find	$\dots$ -execdir <command/> \{\} +			
0	$d \rightarrow \underline{d}$ irectory	tind	<pre>OKd1r <command/> \; Use \{\} to refer to the fill</pre>	ename		
0	$\uparrow \rightarrow \underline{\uparrow}$     e	0	"+" versions append multiple	files to one cmd		
0	$I \rightarrow Symbolic linkSee man file for a few less common options.$	0	-ok asks for confirmation on	each file.		
find	-samefile <file></file>	0	Return code determines if th	is is treated as		
find	-links <num links<="" td=""><td>-</td><td>true or false in boolean exp</td><td>ressions.</td></num>	-	true or false in boolean exp	ressions.		
0	Can use "+" (greater than) or "-"(less than)	Prin	ing File Information			
find	-mtime +1	find	–1s			
find	-ctime +1	find	fls <file></file>	luding incda#		
find	-used +1	0	#/hardlinks.owner.group.si	ize. mtime. name		
0	Modified/created/status_changed/used at least	find	print			
0	Precede with <b>-daystart</b> to ignore times.	find	fprint <i><file></file></i>			
0	Use 0 (i.e. "-mtime 0") for last 24 hours.	find	print0 -fnrint0 <i><file< i="">&gt;</file<></i>			
find	-newer <file></file>	0	Print filename.			
find	-Cnewer <file></file>	0	~0 versions terminate lines	with '\O' instead		
0	Modified/created/status_changed more recently	find	- <b>printf</b> <i>s</i> formats	-0 01 Other clius.		
	than <i><file></file></i> .	find	fprintf <file> <format></format></file>			
find	-newerXY <file></file>	0	Print filename as specified	by format string.		
0	c=status change time, m=modification time,	0	Don't forget the newline ("\	\123, \D, \ %% n")!		
0	Use t to pass in a specific time (formatted	0	Timestamps in ctime format:	. ).		
find	-size +35M		<ul> <li>creation time: %c</li> <li>modification time: %t</li> </ul>			
0	Hiles more than 35 megabytes. Use "-" instead of "+" for less than.		$\circ$ status change time: %a			
0	Other suffixes: c=bytes, k=kilobytes, G=gigs		_ ("Tue Sep 24 20:05:59.051	3625000 2012")		
find	-empty	0	with format codes as follows	%C_, %T_, %A_ : (for creation)		
find	-executable		<ul> <li>23:59:59 → %CT or %CX or</li> </ul>	%CH:%CM:%CS		
find	-readable -writeable		$\circ$ 01/01/2000 → %CD or %CX c $\circ$ 01-1ap-00 → %Cd-%CB-%CV	<i>r</i> %C <b>m/</b> %C <b>d/</b> %CY		
find	-perm ###		<ul> <li>01 541 00 0 0 0 00 000 000 000 000 000 000 0</li></ul>	%C <b>p</b> or <b>%r</b>		
0	Permissions exactly match spec in octal.		• Sat Jan 01 11:59:59 EST 2	000 → %CC		
0	Use -### for at least the specified bits $(\subseteq)$ .		<ul> <li>2000-Jan-01+11:59:59.0 →</li> </ul>	3 %CZ %CT %C+		
0	Use /### for any of the specified bits $(\cup)$ .		• Saturday, January $1 \rightarrow \%$ CA	, %CB %CD		
0	Use ### for exact permissions $(\equiv)$ .		o day# of week → %CW (06 o day# of year → %Ci (001	With O=Sunday)		
find	-IISOr ZISOr names		• week# of year → %CW (00	53)		
find	-uid <user_number></user_number>		$\circ$ seconds since epoch → %C@	1		
find	-group <group_name></group_name>	0	o filaname, base: <b>%f</b> ("xfe	rloq")		
			• relative path: %p ("./lo	g/xferlog")		
ROOL	ean Logic		<ul> <li>relative directory: %n (</li> <li>permission: %m ("644"), %</li> </ul>	./log") M ("-rwxr-xr-x")		
find	expr1 -and expr2 expr1 -or expr2		o group: <b>%g</b> ("hcil'), <b>%G</b> (	"25218")		
find	not expr2		• user: <b>%u</b> ("aq"), <b>%U</b> ("12	460")		
tind find	true -false		o inode#: %i			
find	( expr1 -or expr2 ) -and expr3		∘ size in bytes: <b>%s</b>	<i>E E</i>		
find	expr1 , expr2		<ul> <li>type: %y (d=directory,</li> <li>type follow links: %v (d)</li> </ul>	T=TIIE, I=IINK)		
0 0	$-\mathbf{o}$ , $-\mathbf{a}$ , and $!$ are non-POSIX abbreviations			~, , , ,		
0	! does not need to be quoted when using bash.					
0	Actions are part of the expression, too!		a Creative Commons Attrib	y Alexander J. Quinn is licensed under ution-ShareAlike 3.0 Unported License.		

## find command

	0.0

find . -regex '.\*/[a-z]+\.\(py\|p]\)'  $\circ$  Find all Python and Perl scripts that start with a lowercase letter. will fail if any directories contain spaces, quotes, newlines, etc. 0 Properly functions even in the presence of directories containing spaces, quotes, newlines, etc. 0 The test command means "if file is executable (and exists) and file is readable (and exists)" 0 find . -type f -newermt 2007-06-07 ! -newermt 2007-06-08
find . -type f -mtime \$(( ( \$(date +%s) - \$(date -d '2012-09-24' +%s) ) / 60 / 60 / 24 - 1 ))
find -ls | egrep '((Feb|May) .. 2009|oct .. 2008)' • Files modified on September 24, 2012 (the specific date). find . -perm /220 find . -perm /u+w,g+w find . -perm /u=w,g=w • Writable by owner or group or both. Other permissions are okay, too. 0 find . -perm -220 find . -perm -g+w,u+w • Writable by both owner and group, at the least. Other permissions are okay, too. find . -perm 220 find . -perm u=r • Readable by owner. Exact match required. No other permissions allowed. find . -mtime 0 Modified in the last 24 hours. 0 This works this way because the time since each file was last modified is divided by 24 hours and any remainder is discarded. That means that to match -mtime 0, a file will have to have a modification in the past which is less than 24 hours ago. This works because the -exec action returns false (non-zero) and thus evaluates to false in the 0 boolean expression. -exec and -print are essentially AND'ed together here. Takes advantage of the specific syntax used by the -ls action. Example: 0 o 101049516639138444 26 -rw----- 1 Alex ( inode# ??? perms Inks ownr 53248 Mar 25 2008 ./.swo None *size(b) mdate* relpath ) group find . -name CVS -prune -or \( -name '\*.py' -or -type d \) -exec chmod 755 '{}' \; '{}' \; Change permissions to 755 on \*.py files and directories and 644 on other files 0 Don't touch or go into CVS directories 0