comboleetor.pl -A Password List Generator -~+~-Jim Brown jpb@jimby.name

- The problem:
 - You need to generate a comprehensive password list using known text elements, numbers, and punctuation, possibly with added "leetspeak" - i.e.
 - +3><+ ("text") |=/2()|V| ("from") 7#3 ("the") |-|@K3r\$ ("hackers")

 combolector.pl combines text blocks, numbers, and punctuation in any order determined by an input specification. The resulting output can be further subjected to 'leetspeak' substitutions and serial capitalization.

Usage:

perl comboleetor.pl [-b blocksfile] [-n numbersfile] [-c] [-s] [-h | H]

- where blocksfile and numbersfile contain text blocks and numbers respectively,
- default files are blocks.txt and numbers.txt in the current directory.
- -c Serialize capitalization throughout the output word
- -s Print all hashes and exit
- -h Print short help (this text)
- -H Print longer help text with examples

• The "blocks.txt" file contains words (or text fragments):

cat+

dog-

marsh

mellow

23skidoo

07/04/1976

correct

horse

battery

staple

• The "numbers.txt" file contains numbers, lists, and/or a number format specification (loosely based on the perl sprintf function) that generates a list of numbers to use:

%03.3d

1,2,4,10-15,200-300

%05.5x

40-50

%d

19-25

- The input specification allows for up to eight characters of the following set in any order:
 - B text block
 - b text blocks subjected to leet substitutions
 - N number elements
- The goal is to produce all possible combinations of these elements in the order they are specified. The specification of elements comes from the user on stdin via terminal, pipe, file, etc.

Example 1: Basic Usage

 blocks.txt file: 	 numbers.txt file:
tin	31,72,2600
can	5

echo 'BB' | perl comboleetor.pl 2> /dev/null

can cantin cancan tin tintin

tincan

Example 1 (cont.)

echo 'BN' | perl comboleetor.pl 2> /dev/null

tin tin5 tin31 tin72 tin2600 can can5 can31 can72 can2600

Example 1 (cont.)

echo 'BPB' | perl comboleetor.pl 2> /dev/null

can	tin_	
can	tin tin	
can tin	tin can	This example generated
can can	tin	200 lines of output
can!	tin`tin	200 mes of output.
can!tin	tin`can	
can!can	tin{	
can"	tin{tin	
can"tin · · ·	tin{can	
can"can	tin	
can#	tinİtin	
can#tin	tinİcan	
can#can	tin;	
can\$	tin}tin	
can\$tin	tin}can	
can\$can	tin~	
can%	tin~tin	
can%tin	tin~can	

Example 1 (cont.)

t i n

echo 'BNP' | perl comboleetor.pl 2> /dev/null

tin5	
tin5	
tin5!	
tin5"	
tin5#	
tin5\$	
tin5%	
tin5&	
tin5'	
tin5(
tin5)	
tin5*	
tin5+	
tin5,	
tin5-	

can2600; can2600= can2600< can2600> can2600? can2600@ can2600[can2600\ can2600] can2600^ can2600 can2600 can2600{ can2600| can2600} can2600~

This example generated 274 lines of output.

Example 2: Using number formats and number ranges

blocks.txt file:
 tin %05.5d
 can 20-30,90-120

echo 'BN' | perl comboleetor.pl 2> /dev/null

tin	tin00115	can00111
tin00020	tin00116	can00112
tin00021	tin00117	can00113
tin00022	tin00118	can00114
tin00023	tin00119	can00115
tin00024	tin00120	can00116
tin00025	can	can00117
tin00026	can00020	can00118
tin00027	can00021	can00119
tin00028	can00022	can00120
tin00029	can00023	
tin00030	can00024	

Example 3: Combining numbers with text and punctuation

 blocks.txt file: 	 numbers.txt file: 	Note 'x' for
tin	%05.5x	hexadecimal
can	10-20,50-1000	

echo 'BPN	l' perl comb	oleetor.pl	2> /dev/null	63560 lines
can can 0000a can 0000b can 0000c can 0000d can 0000e can 0000f can 00010 can 00011 can 00012 can 00013	Note space is a punctuation character.	can~003e2 can~003e3 can~003e4 can~003e5 can~003e6 can~003e7 can~003e8 tin tin tin tin tin 0000a tin 0000b tin 0000c	can~003dd can~003de can~003df can~003e0 can~003e1 can~003e2 can~003e3 can~003e3 can~003e5 can~003e6 can~003e7 can~003e8	of output.

Example 4: Using leetspeak with 'b'

 blocks.txt file: 	 numbers.txt file:
tin	%05.5x
can	10-20,50-1000

echo 'b' | perl comboleetor.pl 2> /dev/null

ti \ +in c@ \ +!n (@n c/-\n (4n (/-\ \	can (4 \ t!n c/-\ \ c4n (a \ c@n (/-\n	7in 7!n 7! \ 7i \	Note that some letters have multiple leetspeak representations. For example the letter 'a' is represented by: a, 4, @, /- λ
(/-\ \	(/-\n		a, 4, @, /-\
ca \ t! \	+! \ (@ \		Each is used in turn.
(an	+i \		
c4 \	tin		

Example 5: Serial capitalization of text with '-c'

 blocks.txt file: 	 numbers.txt file:
tin	%05.5x
can	10-20,50-1000

echo 'B' | perl comboleetor.pl -c 2> /dev/null

can	tIn
can	TIn
CaN	
cAN	
CAN	
tin	
tin	
Tin	

Example 6: Combining leetspeak with serial capitalization

blocks.txt file:	 numbers.txt file:
tin	%05.5x
can	10-20,50-1000

echo 'b' | perl comboleetor.pl -c 2> /dev/null

ca \ ca \ Ca \ cA \ CA \ ti \	C/-\n c/-\N C/-\N (an (an (An	can Can cAn CAn caN	Note that capitalization only applies to actual ASCII letters, not leetspeak representations. $c \rightarrow C, a \rightarrow A, n \rightarrow N$
Til\l	(AN		
tI \	+!n		
ΤΙΊ\Ϊ	+!n		104 lines
c/-∖n	+!N		of output.
c/-∖n	can		

Example 7: Viewing the hashes with '-s'

 blocks.txt file: 	 numbers.txt file:
tin	%05.5x
can	10-20

echo 'B' | perl comboleetor.pl -s 2> /dev/null

Prints out the contents of each hash table and exits.

- Blocks Hash
- Numbers Hash
- Main Leetz Hash (primary leetspeak hash)
- Alternate 1 Leetz Hash (secondary leetspeak hash)
- Alternate 2 Leetz Hash (tertiary leetspeak hash)
- Punctuation Hash
- Leethash Hash (result of hashing Blocks Hash)

Example 8: Interactive use

 blocks.txt file: 	 numbers.txt file: 		
tin	%05.5x		
can	10-17		
<section-header><section-header></section-header></section-header>	<pre>Section Content of Content o</pre>		

Example 9: Tricks

- Suppose you only want a single character appended to a word as the basis for a text block:
 - blocks.txt file:

tin+

can!

• You can use it in combination with the other examples:

echo 'BB' | perl comboleetor.pl -c 2> /dev/null

can! can!tin+ can!can! tin+ tin+tin+ tin+tin+

Example 9: Tricks (cont.)

- The more you know about how your target might use familiar objects (children's names, birthdays, planets, presidents, etc.) the closer you can narrow down a list to passwords you seriously want to check.
- blocks.txt file:

bob 08/16/1930 1930/08/16 carol 07/20/1938 1938/07/20 ted 08/29/1938 1938/08/29 alice 01/04/1937 1937/01/04 echo 'BB' | perl comboleetor.pl -c 2> /dev/null | wc Lines Bytes Words 89366 8102 8100 echo 'BPB' | perl comboleetor.pl -c 2> /dev/null | wc Lines Words Bytes 275280 3217001 267459 echo 'BPBPP' | perl comboleetor.pl -c 2> /dev/null | wc Lines Words Bvtes 289952744 307001240 4110760132

Example 9: Tricks (cont.)

 blocks.txt file: 	 numbers.txt file:
tin	%05.5x
can	10-20

comboleetor.pl can generate an **enormous** amount of passwords even from a simple set of blocks and numbers. echo 'BNBPP' | perl comboleetor.pl -c 2> /dev/null | wc

Lines	Words	Bytes
4937020	5077692	68962770

Download the code and try it out!

Get the code as a gzipped tarball from:

https://www.jimby.name/techbits/recent/comboleetor/comboleetor_2.1.tgz

Send feedback to jpb@jimby.name

Thanks!