

The Ænigmatic Addenda:

Guest Constructors revisit the Adalogical Ænigmas

No. 20: Mr William Hu revisits Ænigma #6

Gentle solver,

Such a milestone! This, the *twentieth* instalment of our *Addendum* series comes to us from the inspired pen of Mr William Hu, an Australian designer of puzzles both logical and physical, currently studying mathematics at Cambridge University. His *magnum opus* of logic can be found at <https://tinyurl.com/hu-opus>.

Like my own, Mr Hu's Ænigma aims to bring light into the darkness of winter.

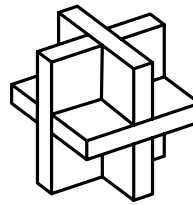
Please place lights (represented by circles) on some of the white grid squares, such that *every* white square receives the beams of *one or more* lights. In our grid, light beams (represented by lines) travel *only* horizontally and vertically, and they are completely *blocked* by black squares. A square *containing* a light is considered to be lit itself, by that very light.

There are two limitations, however, on your placement of the lights. First, any black square containing a number must have *exactly* that many lights placed on horizontally or vertically adjacent white squares. Second, but equally important, you must *not* place any light such that its beams reach any *other* light!

Once you have completed your grid, you may move on to finding the final answer to this Ænigma. Every circle representing a light can now be seen to *emphasize* the letter occupying the same white square. Advance each such letter in the alphabet (wrapping around from Z to A if necessary) by the number of directions in which its corresponding light shines on *other* squares. Reading the result in left-to-right, top-to-bottom order will reveal a clue to your final answer.

Good luck!

Ada



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Example

1	K	D	S	G	J	S
G	F		E	H	2	
S			2	G	E	R
M	Z	1	R	E	Y	C
G	P	J	K	Z	0	S
2	E	G	1	R	L	
B	H	J	L	U	S	B

1	K	D	S	G	J	S
⊙	F		E	H	2	
			2	G	E	R
M	Z	1	⊙	E	Y	C
⊙	P	J	K	Z	0	⊙
2	E	G	1	R	L	⊙
B	H	J	L	U	S	B

1	K	D	S	⊙	J	S
G	F		E	H	2	
S			2	⊙	E	R
M	Z	1	⊙	E	Y	C
G	P	J	K	⊙	0	⊙
2	E	G	1	⊙	R	L
B	H	J	L	U	S	B

J + 2 = L P + 3 = S
 G + 2 = I E + 3 = H
 E + 2 = G L + 3 = O
 E + 3 = H U + 2 = W
 R + 2 = T

Answer:
LIGHT SHOW

Need assistance with this Ænigma? Hints and other help are available at www.pavelspuzzles.com/aenigmas/addenda/20

F	K	Q	Q	D	U	L	B	P	1	G	H	D	B	D	Q	F	X	D	G	
G	1	F	C	S	D	Z	Y	C	U	B	Y	M	Z	H	0	K	F	2	K	B
H	1	I	G	Q		2	Q	R	G	A	W	D	G	S	G		2	M	S	U
C	Q	M	L	1	B	D	2	Y	J	K	W		E	J	R	C	J	D	G	
Q	R	Q		C	Z	C	D	2	J	G		M	U	1	R	N	J	M	0	S
N	D	K	2	I	Q	Q	H	F	J		G	C	Q	C		D	W		V	S
Q	N	2	P	A	1	M	G	C	C		F	R	K	F	S	M	1	H	K	M
C	2	V	N	Q	H	1	D	B	2	R	G	2	F	M	Q	P		S	D	S
R	K	U	R	Y	A	Z	1	L	C	Q	P		D	M		G	T	B	J	
Y	C	U	1		Z	D	X	F	B	R	D	F	L	0	0	N	O	C	1	R
P	K	2	R	R	1	Q	P	Z	S	G	S	C	R	D	G	S	E	X	2	D
Q	R	J	H	S	K	D	I	Q	L	1		U	Z	M	D	L	F	R	W	J

Send your answer to aenigma@pavelspuzzles.com by 1/14/2020 for a chance to win a **free physical puzzle** from *Pavel's Puzzles*! Full details are at www.pavelspuzzles.com/aenigmas/addenda/20.