

UNTITLED IMAGE QUESTION

image	logo	byte	128	64	32	16	8	4	2	1	sum	character
top	1	1		1			1	1	1		78	N
top	1	2		1	1					1	97	a
top	1	3		1	1		1	1		1	109	m
top	1	4		1	1			1		1	101	e
top	2	1			1						32	
top	2	2		1	1	1		1			116	t
top	2	3		1	1		1				104	h
top	2	4		1	1			1		1	101	e
top	3	1			1						32	
top	3	2		1	1	1		1			116	t
top	3	3		1	1			1		1	101	e
top	3	4		1	1				1	1	99	c
top	4	1		1	1		1				104	h
top	4	2		1	1		1	1	1		110	n
top	4	3		1	1		1			1	105	i
top	4	4		1	1	1				1	113	q
top	5	1		1	1	1		1		1	117	u
top	5	2		1	1			1		1	101	e
top	5	3			1						32	
top	5	4		1	1		1	1	1	1	111	o
top	6	1		1	1			1	1		102	f
top	6	2			1						32	
top	6	3		1	1		1				104	h
top	6	4		1	1		1			1	105	i
bottom	1	1		1	1	0	0	1	0	0	100	d
bottom	1	2		1	1	0	1	0	0	1	105	i
bottom	1	3		1	1	0	1	1	1		110	n
bottom	1	4		1	1	0	0	1	1	1	103	g
bottom	2	1			1	0	0	0	0	0	32	
bottom	2	2		1	1	0	1	1	0	1	109	m
bottom	2	3		1	1	0	0	1	0	1	101	e
bottom	2	4		1	1	1	0	0	1	1	115	s
bottom	3	1		1	1	1	0	0	1	1	115	s
bottom	3	2		1	1	0	0	0	0	1	97	a
bottom	3	3		1	1	0	0	1	1	1	103	g
bottom	3	4		1	1	0	0	1		1	101	e
bottom	4	1		1	1	1	0	0	1	1	115	s
bottom	4	2			1						32	
bottom	4	3		1	1	0	1	0	0	1	105	i
bottom	4	4		1	1	0	1	1	1	0	110	n
bottom	5	1			1						32	
bottom	5	2		1	1		1			1	105	i
bottom	5	3		1	1		1	1		1	109	m
bottom	5	4		1	1					1	97	a
bottom	6	1		1	1			1	1	1	103	g
bottom	6	2									0	e
bottom	6	3									0	s
bottom	6	4									0	.

STEGANOGRAPHY

byte = 8 bits



2^7	2^6	2^5	2^4	2^3	2^2	2^1	2^0	
128	64	32	16	8	4	2	1	
					0	0	0	= 0
					0	0	1	= 1
					0	1	0	= 2 + 0 = 2
					0	1	1	= 2 + 1 = 3
					1	0	0	4
					1	0	1	5
					1	1	0	6
					1	1	1	7
								33
		1	0	0	0	0	1	

1	1	1	1	1	1	1	1	
								= 255
								256
								$128 + 64 + 32 + 16 + 8 + 4 + 2 + 1$

1 0 0 0 0 0 0 0 0

8 bits of information

$$\begin{array}{r} 128 \\ - 128 \\ \hline 89 \\ - 64 \\ \hline 25 \\ - 16 \\ \hline 9 \\ - 9 \\ \hline 0 \\ - 0 \\ \hline 1 \end{array}$$

0

217

128	64	32	16	8	4	2	1
1	1	0	1	1	0	0	1

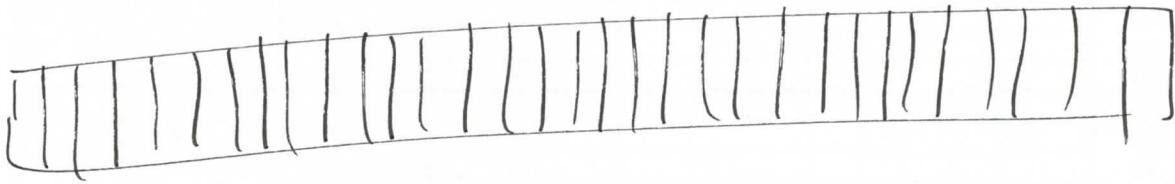
255

83 | 65 | 87
 ↓ ↓ ↓
 S A W

4 bytes →

128	64	32	16	8	4	2	1
0	1	1	1	0	0	1	1
		96		112		114 115	

0	1	1	0	0	1	0	1
32		57 5		100		101 e	
				96		115 → S	



2³¹ 65 - A

65 → 122

122 - 2

46 .

		1	0	1	1	1	0
128	64	32	16	8	4	2	1
0	1						

MERRY XMAS.

