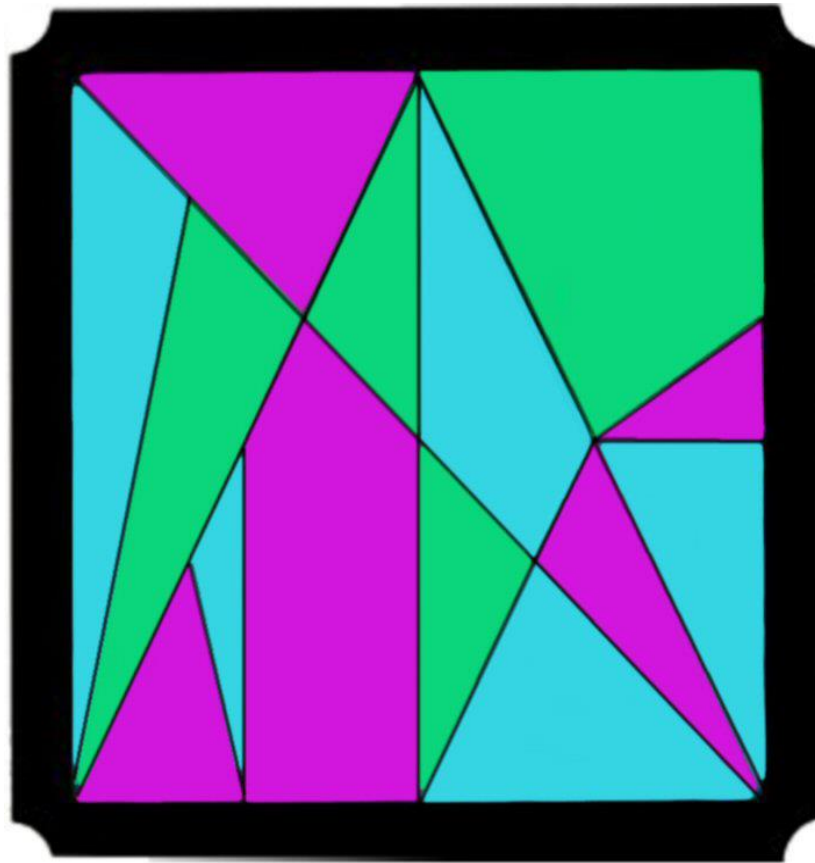
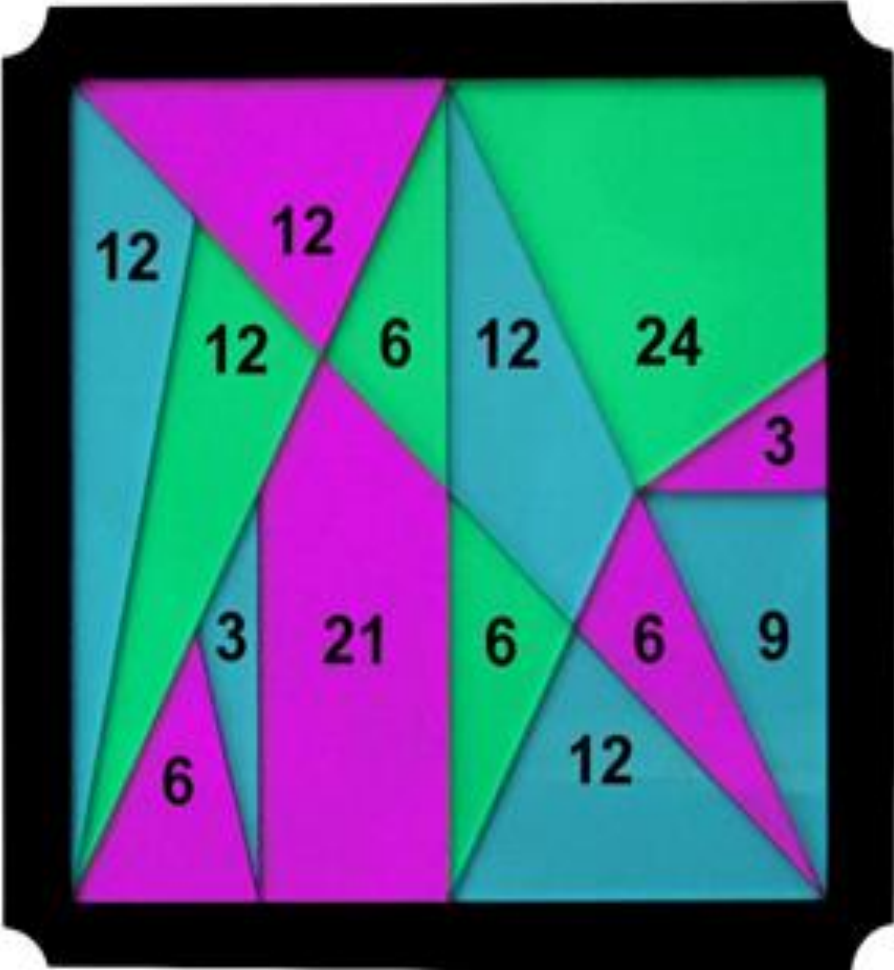


The Tricolor Stomachion (Archimedes' Square)

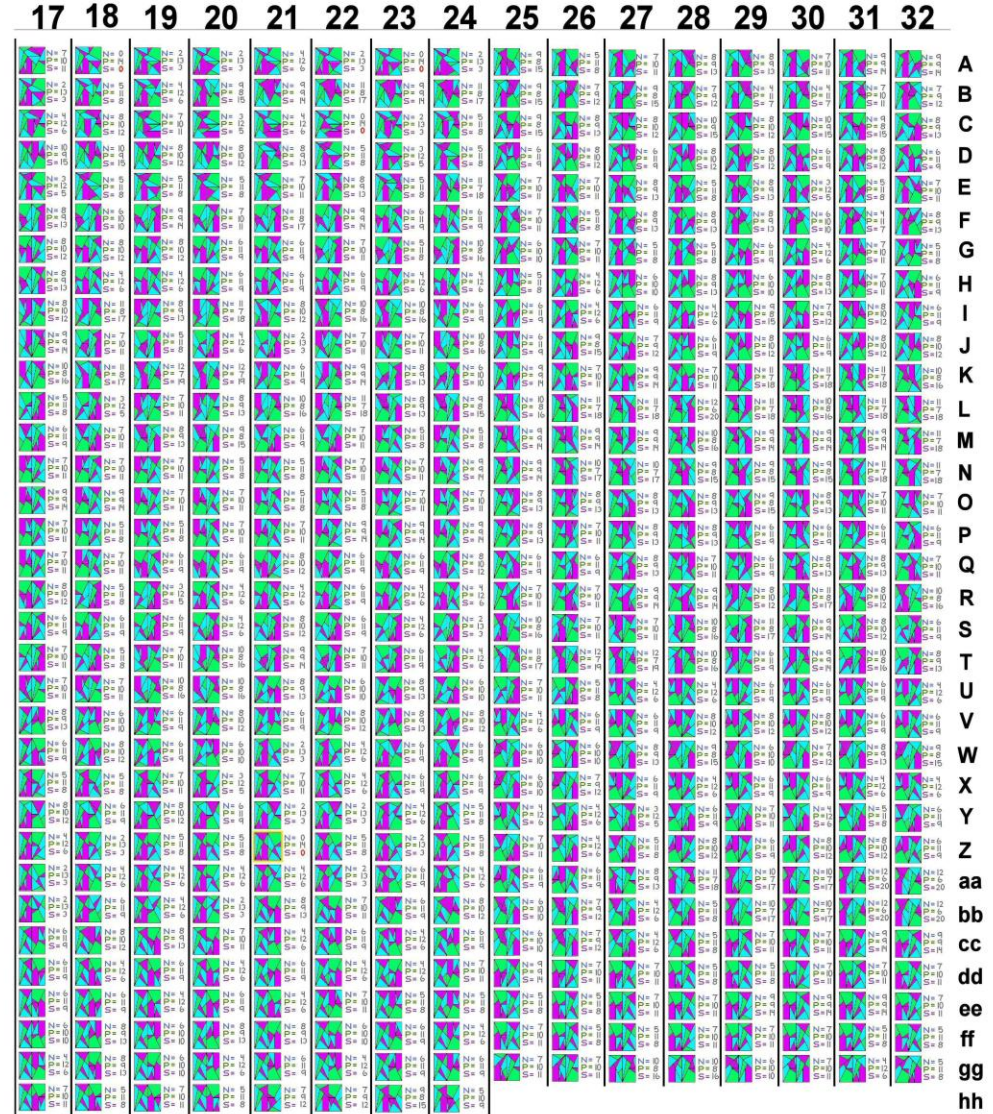
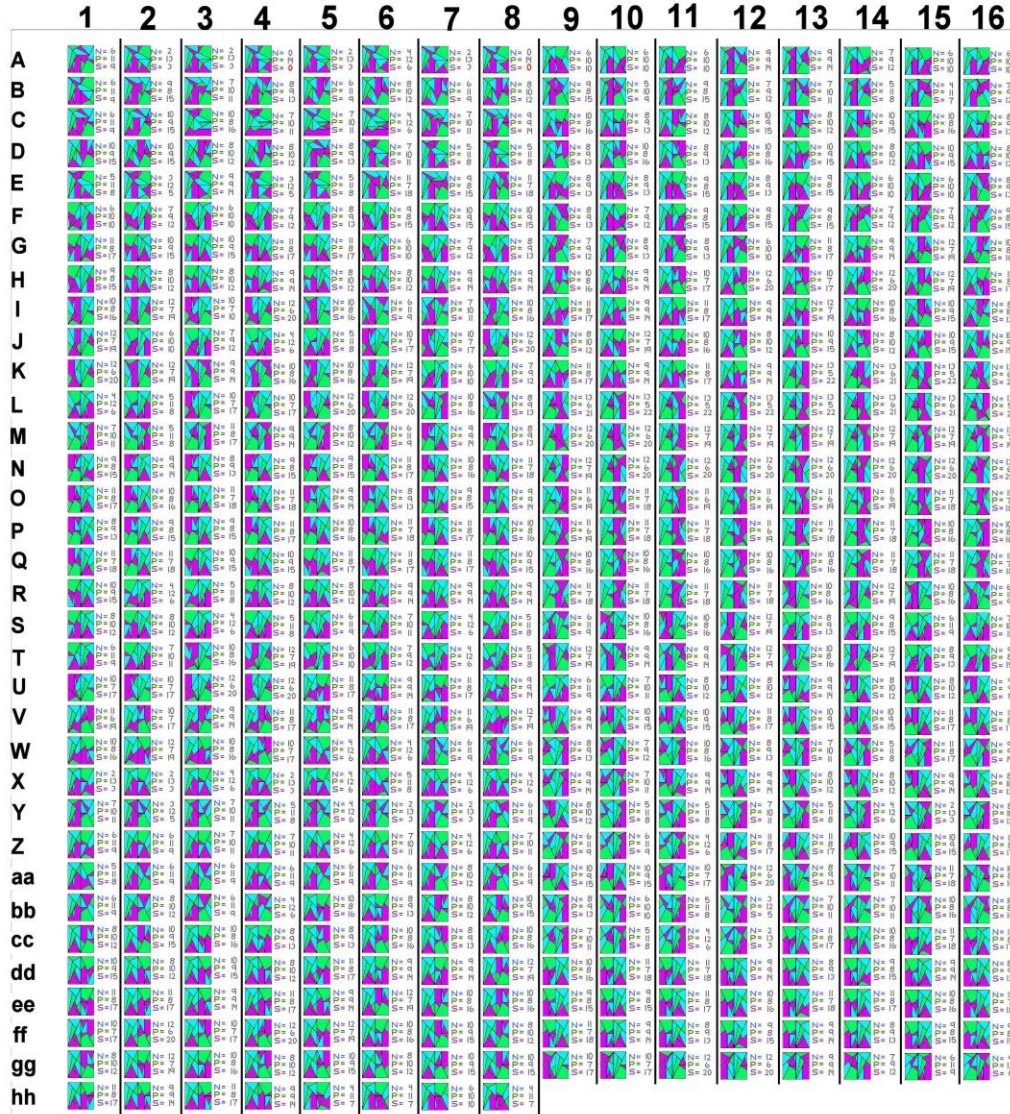


Equal color areas:

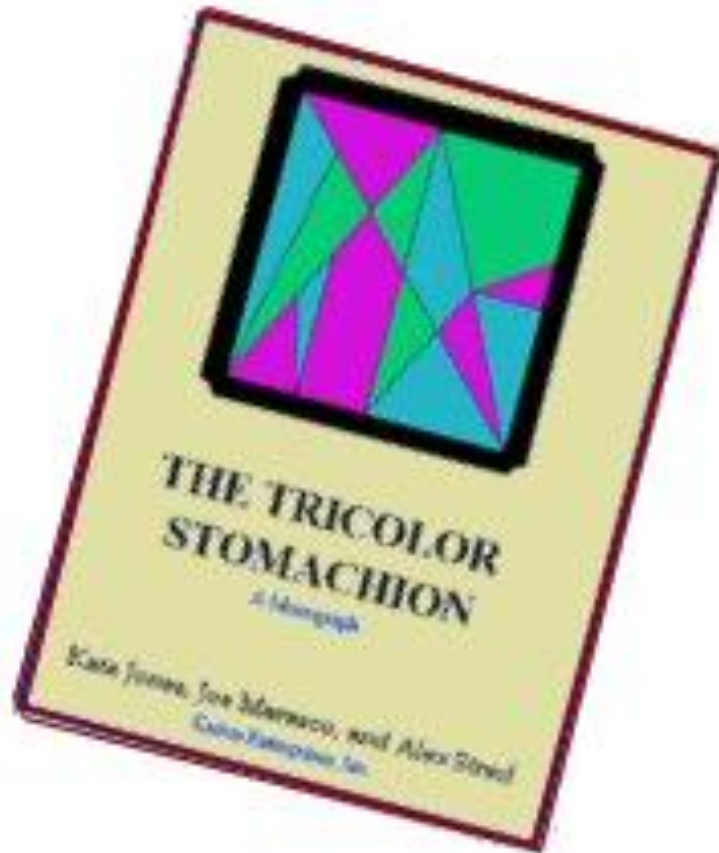


The 1072 solutions of the Tricolor Stomachion

by Joe Marasco, Kate Jones and Alex Streif



**The Extended Concordance –
color regions analysis** *by Joe Marasco*
(page 19 of the Monograph)



The 20-page Monograph

Set	Original Variant Number	Number of Regions with >1 Piece	Number of Pieces in Region					Number of Singles	N	R	S	Solutions 1072
			R1	R2	R3	R4	R5					
1	1	0						14	0	14	0	6
2	2	1	2					12	2	13	3	28
3	3	1	3					11	3	12	5	12
4	4	1	4					10	4	11	7	7
5	5	1	5					9	5	10	9	2
6	6	2	2	2				10	4	12	6	78
7	7	2	2	3				9	5	11	8	75
8	8	2	2	4				8	6	10	10	37
9	9	2	2	5				7	7	9	12	12
10	11	2	3	4				7	7	9	12	14
11	12	3	2	2	2			8	6	11	9	113
12	13	3	2	2	3			7	7	10	11	104
13	14	3	2	2	4			6	8	9	13	50
14	15	3	2	2	5			5	9	8	15	23
15	16	3	2	3	3			6	8	9	13	30
16	17	3	2	3	4			5	9	8	15	18
17	18	3	2	3	5			4	10	7	17	22
18	20	3	2	4	5			3	11	6	19	3
19	22	3	2	5	5			2	12	5	21	1
20	23	3	3	3	3			5	9	8	15	2
21	25	3	3	3	5			3	11	6	19	6
22	30	4	2	2	2	2		6	8	10	12	79
23	31	4	2	2	2	3		5	9	9	14	81
24	32	4	2	2	2	4		4	10	8	16	16
25	33	4	2	2	2	5		3	11	7	18	14
26	36	4	2	2	3	3		4	10	8	16	54
27	37	4	2	2	3	4		3	11	7	18	15
28	38	4	2	2	3	5		2	12	6	20	27
29	41	4	2	3	3	3		3	11	7	18	15
30	42	4	2	3	3	4		2	12	6	20	1
31	43	4	2	3	3	5		1	13	5	22	6
32	47	5	2	2	2	2	2	4	10	9	15	39
33	48	5	2	2	2	2	3	3	11	8	17	46
34	51	5	2	2	2	3	3	2	12	7	19	31
35	53	5	2	2	3	3	3	1	13	6	21	5

Stomachion, the Quest

by Kate Jones

What marvel of antiquity be this,
This fabled square of 14 parts comprised?
Behold the oldest puzzle ever told,
Our heritage of mind, millennia old.

Now scholars scrambled to decode, with zest,
Archimedes' much-prized Palimpsest,
A scroll long lost, inscribed by ancient hands,
A rarest find from Greek and Latin lands.

Then three-fold color sought to split the tiles
That matchless equal areas beguile.
Five hundred thirty-six assemblies wait
Concordances and catalogs to mate

As solvers brave and eager in their sport
The joined and varied regions rightly sort.
That tale is told with elegance and charm
As Joe and team each gave a leg and arm.