

Smash into strings? → what about grouping "shape, small" & "or worse" "triangle"

CNF = "cell Lookup" dictionary

Variable	Value
[color, blue]	1
[color, red]	2

⇒ [blue? red?] [smallT, smallC, bigT, smallS]

Unit is 6 large → "object size"

[shape, small, triangle] → 3  
 [shape, small, circle] → 4  
 [shape, big, triangle] → 5  
 [shape, big, square] → 6

level sizes: [2, 4]

fully cross (color, shape) × 4 → don't forget to compile these to constraints

constraints

NAME (ie NoMacThankInARow)

[Vars this is applied to]  
 constraint vals: k & n

compile "in a row" to k out of j

↓  
 uniform interface will make next step easier

"important Vars"

So  
 $2 * 4 = 8$

8 \* 4 = 32 objects \* 6 large = 192 variables

"level Lookup"

Another lookup

[color, blue] → [1, 7, 13...]

[color, red] → [2, 8, 14...]

32 long

Low LEVEL

[<, =, >]  
 Constraint

[to apply to]

→ constraints no longer exist, k & j no longer exist

"important Vars" in comments for unigen

→ what about the "all triangles" list?

↓  
 maybe make this & levels in constraints?

\* Problem: what happens for no more than 2 triangles in a row?