# On the Subject of Color Decoding

The colors, Simon; what do they mean!?

This module is comprised of three stages, where each stage contains a 4×4 indicator grid above a 6×6 display grid. Each grid is comprised of five colors: Red, Green, Blue, Yellow, and Purple. In each stage you must select a number of rows and/or columns from the display, based on the pattern of the indicator and the state of the bomb. The selections you must make can be determined as follows:
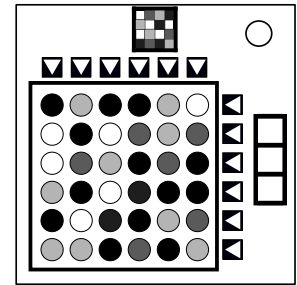
- From the pattern of the indicator and the state of the bomb, determine the correct row for the stage in the next table.
- For the Venn diagram section, consider the colors present in the indicator. For every color that is both present in the indicator and the row, obtain the line pattern above that color in the column. Use that pattern or patterns in the Venn diagram on the following page to determine the correct constraint table number.
- Skip the constraints in that table as described in the skip section, based on the current stage.
- Reading the constraint table from top to bottom, push the arrow button for each row or column that satisfies each of the remaining constraints in that table in order.
- When you have completed all three stages, the module will be disarmed.

Indicator Pattern	Bomb/Module State	Venn Diagram				Skip Section		
		●	■▪	▬	■■	Stage 1	Stage 2	Stage 3
Checkered	≤2 Batteries	R	G	B	Y	A, C	B	B, E
	>2 Batteries	P	B	Y	R	B, D	D	C, E
Vertical	≤2 Ports	G	R	P	Y	C	A, D	A, B
	>2 Ports	B	Y	G	P	A, E	B, D	A, D
Horizontal	≤2 Lit Indicators	Y	P	R	B	D	A, C	B, E
	>2 Lit Indicators	G	B	P	R	C, E	A	C, D
Solid	Stage 1 or 3	P	G	B	R	A, E	B, D	C
	Otherwise	Y	R	G	P	E	A, D	B, C
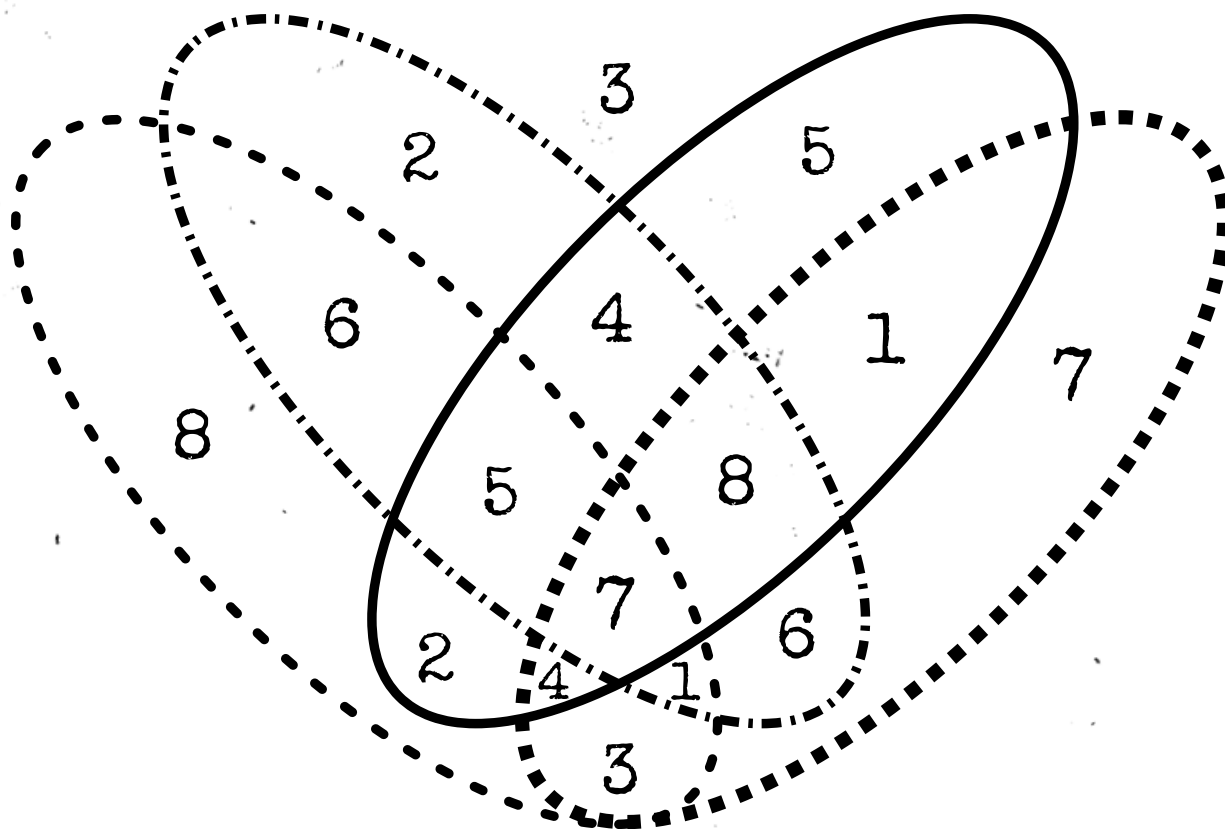
<u>Note:</u> Sequence constraints are reversible; e.g. BRR and RRB are equivalent on the display.

Table 1

Label	Constraint
A	BGB in sequence.
B	BBY in sequence.
C	R is not present.
D	YPG in sequence.
E	YGB in sequence.

Table 2

Label	Constraint
A	PYP in sequence.
B	G is not present.
C	YYR in sequence.
D	RPY in sequence
E	BPR in sequence.

Table 3

Label	Constraint
A	BPY in sequence.
B	PPB in sequence.
C	PRP in sequence.
D	G is not present.
E	RBR in sequence.

Table 4

Label	Constraint
A	GGB in sequence.
B	YRG in sequence.
C	P is not present.
D	BYB in sequence.
E	RGB in sequence.

Table 5

Label	Constraint
A	GGY in sequence.
B	RGG in sequence.
C	YRP in sequence.
D	PRR in sequence.
E	B is not present.

Table 6

Label	Constraint
A	PGG in sequence.
B	YRR in sequence.
C	B is not present.
D	YYG in sequence.
E	YGR in sequence.

Table 7

Label	Constraint
A	BBG in sequence.
B	BYG in sequence.
C	PYY in sequence.
D	R is not present.
E	YBG in sequence.

Table 8

Label	Constraint
A	PGB in sequence.
B	Y is not present.
C	PPG in sequence.
D	BRG in sequence.
E	RGR in sequence.