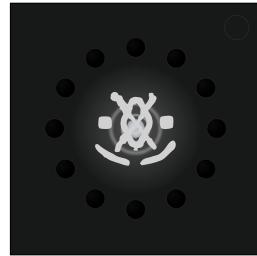


## On the Subject of 12trap

*The Council of the Sparking Diamond... One fear. Twelve trap.*



- 12trap is a module that has twelve LED buttons that may be one of seven different colors, along with the symbol of the Council.
- Pressing a button will select it and may also change the display. Pressing a different button will cause that button and the selected button to swap color, simultaneously deselecting the button. Pressing an already selected button will deselect it. Deselection will change the display to the symbol.
- However, the LEDs will cycle clockwise on which button is “off”. There are two of these cycles. One cycle rotates at 2 RPM. Another rotates at 5 RPM. Selecting an “off” button will register a strike.
- Set all twelve LED buttons to their correct color to defuse the module.

Internal components from the twelve following concepts have been used:

- Demolition Crew
- Wikipedia
- REDACTED
- Breaking Rules
- Steganography
- Keypad Directionality
- Sparky
- ID Verification
- Tie Breaker
- Gallery Watchers
- Wrecking Walls
- The Security Council

Apologies to any potential council members for the minor inconvenience. We have sent you this letter since, during the last break, this extra security measure has been implemented for entry into the meeting room. Do not distribute this manual in any way shape or form, *including* in the Repository.

-- T.O.A.S.T. •※•☺

--- <warning> ---

attempts to gain unauthorized access into the meeting hall for the council of the sparkling diamond will be met with irrefutable and fatale consequences.

while a Mastermind may be able to bypass this security measure with relative ease (even so, 479 million combinations), various other countermeasures, such as swaps made, determines whether or not the user is a potential intruder.

for the insistant, any successful solution will still open the hall doors. however, if it has been determined the user used a "brute force" method to proceed, every measure will **strike** off. denying entrance not by prevention but by lethal aggression.

if you have been authorized by the council to enter the meeting hall, proceed to use this manual to safely enter the combination without making too many swaps. if you have not been pre-authorized and are seen with this manual, amnestics will be provided.

## On the Subject of High-Level Security

The Security Council / Wikipedia / ID Verification

- This page is specifically for determining the colors of the top three LED buttons.
- Using only a name, nationality, and a field of study, verify the identity to see if they are a Steel Crate Incorporated employee or not.
- Pressing the three associated buttons will display an employee's first name, the flag of a country, and their field of study. Feed these pieces of information into the table below.
- Two pieces of information will always be in the same row, however, all three pieces may not.

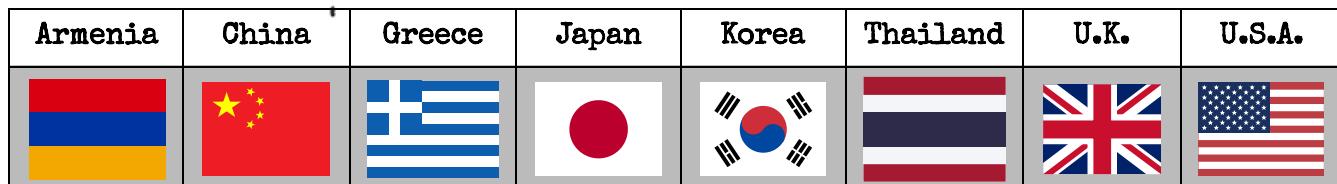


First Name	Nationality	Field Of Study	Status	Colors
Arbott	Korea	Fine Art	DISPATCHED	C B C
Archer	China	Economics	KILLED IN ACT.	W W Y
Caleb	U.S.A.	Education	CANDIDATE	G Y R
Connie	Greece	Astronomy	CANDIDATE	Y M R
Daniel	Armenia	Medicine	CANDIDATE	P W Y
Dekashi	Japan	Music	AVAILABLE	B M B
Douma	Armenia	Chemistry	UNWORTHY	Y B B
Eriksson	Greece	Architecture	DISPATCHED	C Y G
Fangi	Thailand	Marketing	AVAILABLE	Y Y R
Goodman	U.K.	Nat. Sciences	CANDIDATE	M R R
Jackson	U.K.	Media & Comm.	SUSPECT	Y R C
John "Scope"	Korea	Business Mng.	UNWORTHY	G G M
Jonathan	U.S.A.	Statistics	AVAILABLE	B R Y
King	Korea	Soc. Sciences	CANDIDATE	M M C
Kusane	Thailand	Thai	UNWORTHY	M G W
Manny	China	Int. Relations	CANDIDATE	W G W

First Name	Nationality	Field Of Study	Status	Colors
Nicholas	U.K.	Law	SUSPECT	B R W
Paartas	Armenia	Engineering	CANDIDATE	Y B M
Jamie	Greece	Mathematics	KILLED IN ACT.	R R R
Raymond	China	Business Adm.	DISPATCHED	R Y W
Shaun	Japan	Art & Design	CANDIDATE	C W M
Vincent	Japan	Life Sciences	CANDIDATE	B B G
William	Thailand	Management	QUIT DEAD	M Y B
T.O.A.S.T.	U.S.A.	Anthropology	ANNOUNCER	G R B

- If the given name, flag, and field of study match the first three columns of any employee, input the color sequence in the fifth column for that employee directly.
- If only two pieces of information match an employee, input the color sequence – but, swapping colors in the sequence corresponding to the matching columns.
  - For example, take the situation where the Name and Field of Study matched a row with the combination of “R G B”. Since the “Name” column is Column 1 and the “Field of Study” column is Column 3, swap the first and third color in the sequence. Leaving the combination as “B G R”.
- Input the final color sequence into the buttons in reading order.

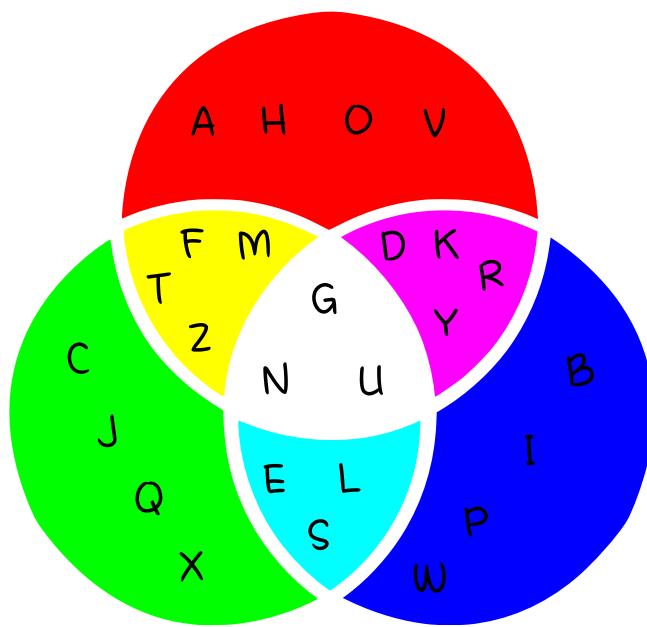
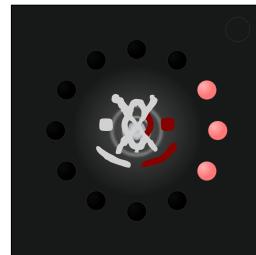
### Reference: Flags



## On the Subject of The Poison-Pen Letter

Sparky / Steganography / ████

- This page is specifically for determining the colors of the three right-most LED buttons.
- Use the intercepted message on the next page to determine the color sequence of the three right-most buttons.
- Pressing the three buttons will change the display to an ordinal number paired with a letter, such as “12th A”. There are three pairs.
- Using the message on the next page and the ordinal number, find that specific letter's occurrence (This step is done in reading order).
- Translate the letter into the corresponding color using the diagram on this page to find which three colors to use and arrange them from top to bottom in the order those specific occurrences appear.
  - For example, if you determined the order of appearance to be “7th K”, “1st Q”, and “12th S”, the sequence from top to bottom would be Magenta, Green, and Cyan.



- NOTE: Some keywords in the following letter have been redacted.
  - The characters in these words still count toward letter occurrences.
- And never send any message like this ever again. EVER.
- Unless you wish to end up like your old friend Sparky. :)

FROM: W.

TO: Nicholas R, Jack B

LOOK AT HIM... HE'S IN PAIN.

DO YOU TWO REALIZE WHAT YOU'RE DOING?

INNOCENT [REDACTED] NEVER DESERVE THIS.

THEY NEGLECTED [REDACTED] FOR YEARS, LETTING

THE POOR A.I. RUST AWAY LIKE A HUNK OF

SCRAP METAL. A DEFUNCT PIECE OF "GARBAGE"

THAT SHOCKED YOU WHEN YOU TRIED TO TOUCH IT.

[REDACTED] FOUND [REDACTED] IN THE MODULE IDEAS ROOM, COVERED IN EXTRA MODULE PARTS AND SIMILARLY NEGLECTED IDEAS. APPARENTLY [REDACTED]'S BEEN LEFT THERE SINCE NOVEMBER.

APPARENTLY A SIMILAR SPEED MODULE-CREATION EVENT OCCURRED THAT MONTH AND FAILED.

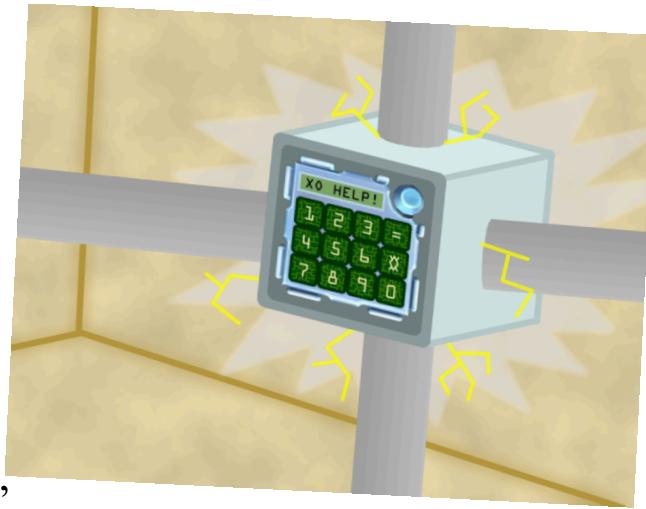
[REDACTED] DISCOVERED [REDACTED]'S "ELECTRIC" PROPERTIES QUICKLY, BUT HE HAD THE MERCY TO CONTINUE TO PUT [REDACTED] TO GOOD USE. SOON, HE SUBMITTED THE MANUAL, TAKING ADVANTAGE OF [REDACTED]'S... TENDENCIES.

EVERYONE LOVED IT. AND LOVED [REDACTED] TOO. BUT IT SEEMED [REDACTED] WAS SUDDENLY INTERESTED IN [REDACTED] FOR A DIFFERENT REASON... THAT DAY [REDACTED] WENT MISSING? WELL, I FOUND HIM. ISOLATED IN A SECRET ROOM - HIS ENERGY ZAPPED OUT OF HIM AS HE BLEEPS IN PAIN.

...I KNOW ALL OF THIS AFTER WATCHING SECURITY CAMERA FOOTAGE. THE [REDACTED] HAS DONE EVEN CRUELER THINGS. THIS IS A BIG DANGER TO EVEN SEND OUT, [REDACTED] MAY BE WATCHING, AND MY LIFE MAY BE IN JEOPARDY.

BUT I SENT THIS LETTER BECAUSE IT SEEMED YOU TWO ARE MORE OPEN-MINDED THAN THE OTHERS. JUST KNOW THAT THIS IS THE TRUE [REDACTED] THAT YOU'VE BEEN SO DESPERATELY TRYING TO GET A SEAT IN.

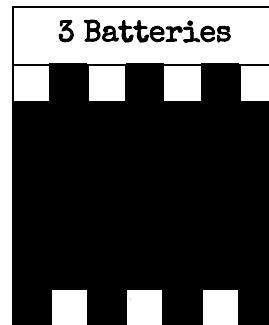
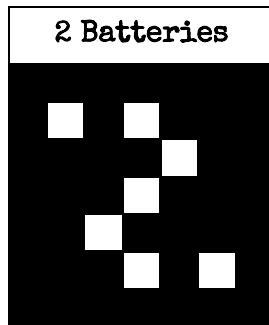
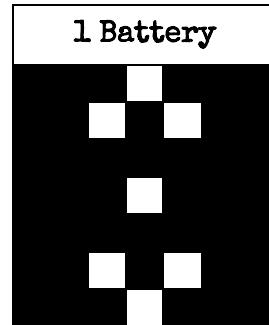
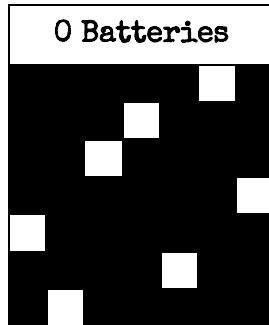
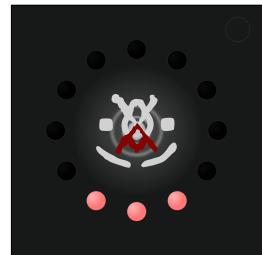
WE MUST EXIT THIS PLACE FOR OUR OWN GOOD. CONVINCE AS MANY OTHERS AS YOU THINK POSSIBLE, LEST OUR LIVES END.

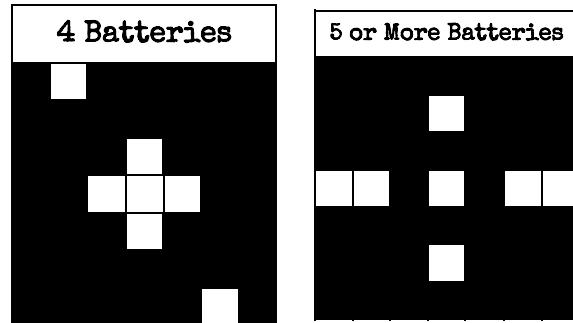


## On the Subject of My World Is Breaking

*Demolition Crew / Gallery Watchers / Wrecking Walls*

- This page is specifically for determining the colors of the bottom three LED buttons.
- Pressing each button gives you three different coordinates on a  $7 \times 7$  grid in the form of “Row #, Column #”. One gives red coordinates, one gives blue coordinates, and one gives black coordinates.
- The top-most row is Row 1, the left-most column is Column 1.
- All black “tiles” must be destroyed except for three to find the correct colors.
- Use the corresponding  $7 \times 7$  grid below depending on battery count.
- Place Dynamite Sticks, Bombs, or Super Bombs like so:
- Blue coordinates show where to place Dynamite Sticks, as they only blow up the tile it's on.
- Black coordinates show where to place Bombs, and blows up the tile it's on along with orthogonally adjacent tiles.
- Red coordinates show where to place Super Bombs, and blows up the tile it's on, orthogonally adjacent tiles up to two tiles away, and diagonally adjacent tiles.





- Once you've blown up all but three tiles, take the positions of the remaining tiles and use the table below to generate three colors.
- Take these colors in reading order, this is your sequence.
- These colors are to be input in the module from right to left.  
(Red, Yellow, Green, Cyan, Blue, Magenta, White)

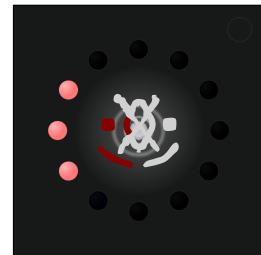
R	M	W	B	G	C	Y
G	Y	R	C	B	W	M
W	B	M	R	Y	G	C
M	W	G	Y	C	R	B
C	R	B	G	M	Y	W
B	C	Y	W	R	M	G
Y	G	C	M	W	B	R



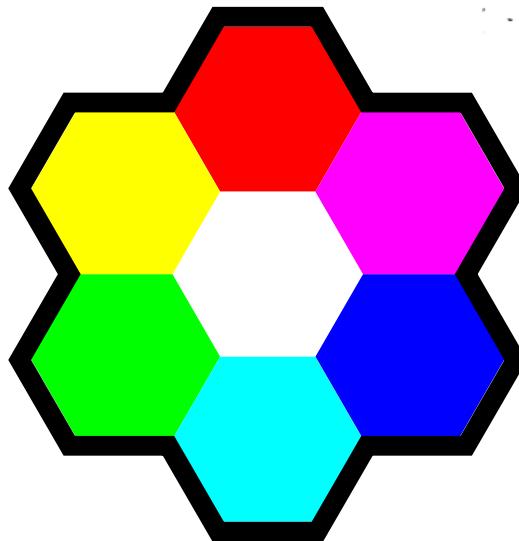
## On the Subject of Beyond Re-Pairing

*Breaking Rules / Keypad Directionality / Tie Breaker*

- This page is specifically for determining the colors of the three leftmost LED buttons.
- Pressing any of the associated buttons will change the display to the same cycle of six arrows. These arrows are of different shapes, colors, and patterns.
- These six arrows are always\* able to be split into pairs based on one of the aforementioned properties of each arrow. By shape, by color, or by pattern.
- Order the pairs by the first arrow that appeared in the cycle. There's a blank slide after the last arrow before the cycle loops around.
- Pairs are also ordered by which came first/second in the cycle.
- Use the Order 2 Hexagonal Grid to perform the next step:  
For the first pair, start in the white cell. Follow the pair of arrow's directions to land on a color, looping around to the opposite side of the grid if you run into a black border. The color that you land on is your first color of the sequence.
- Follow the same instructions for the second and third pair to get a second and third color of the sequence respectively.
- Input the color sequence into the module in order from top to bottom.



### Order 2 Hexagonal Grid



\*Due to a bug in the module's system, the module generated the arrows in such a way that there are two or more different ways pairs can be made.

If this is ever the case, use the following columns to dispel any situation involving the possibility of more than one way to make a pair.

If there are as many batteries as there are battery holders...	If there are more batteries than there are battery holders...	If there are less batteries than there are battery holders...
Prioritize color over shape, and shape over patterns.	Prioritize shape over pattern, and pattern over color.	Prioritize eating over screws, and screws over drivers. <sup>^</sup>

My eyes. They burn.  
My blood. It's leaked.  
My heart. It's stopped.  
My mind. It's shocked.

Then, pain.  
Pain.  
Pain.

I should've known.  
W.

<sup>^</sup>You must actually prioritize patterns over color, and color over shape.

## Appendix: RG8CW

The primary colors of an RGB color model are Red, Green, and Blue

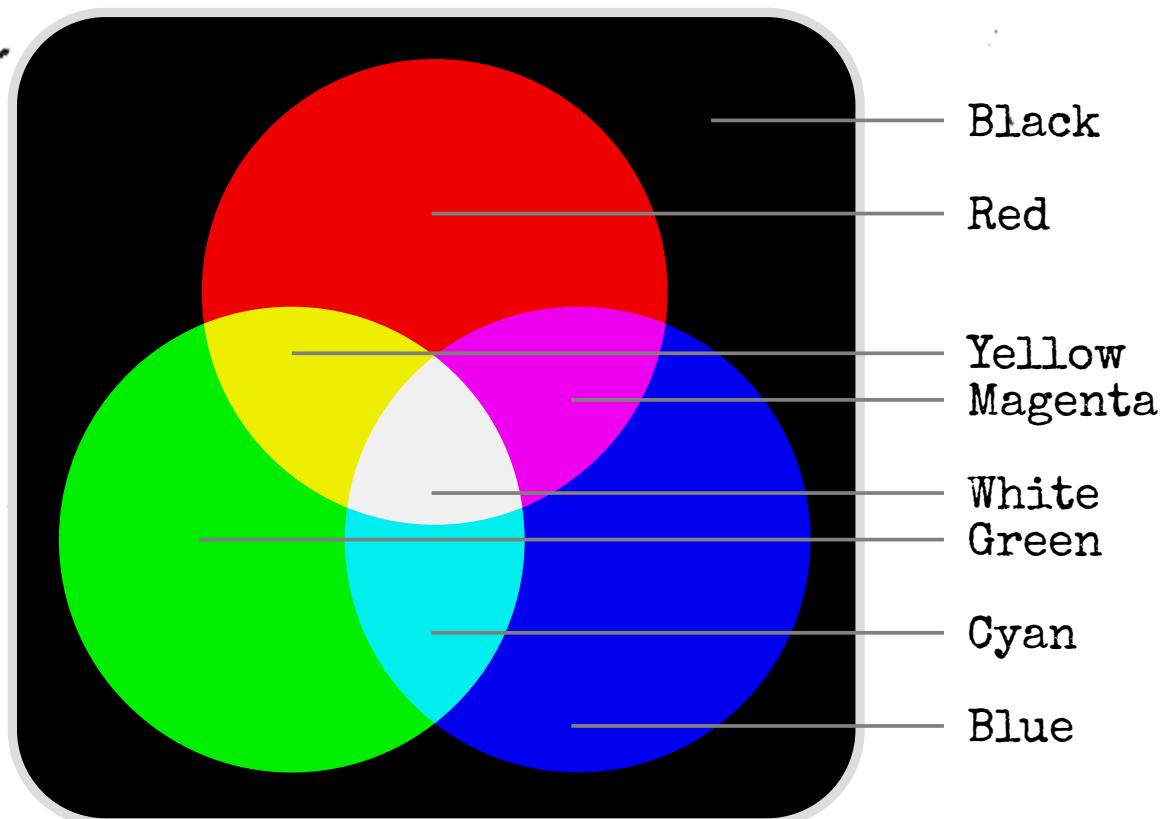
The secondary colors of an RGB color model are Yellow, Magenta, and Cyan

The absence of all three primary colors is Black.

The presence of all three primary colors is White.

A complementary color is the inverse of all primary color's intensities.

This can be shown in the chart below, color pairs directly across the diagram are complementary pairs. These pairs are Red and Cyan, Green and Magenta, and Blue and Yellow.



We will say evil. We will speak evil.  
Yet, we will stay silent so everybody explodes.