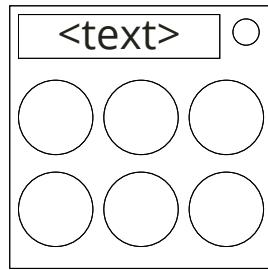


## On the Subject of Odd One Out

*One of these things is not like the others! One of these things just doesn't belong!*

There are six buttons on the module which may display a variety of things directly on the button or in the display whilst hovering over a button. Five of the buttons, referred to below as the “good buttons”, satisfy a specific property which is described in the table below. Press the button that doesn’t belong — the “odd one out” — to move on to the next stage.



Once 5 stages have been completed, press the button that has had the correct answer a unique number of times to solve the module.

If an incorrect button is pressed, a strike will occur, and the module will reset to stage 1. Stages and displays do not change.

Display set	Instructions
Letters	<p>Depending on the color of the LED to the right of the display:</p> <ul style="list-style-type: none"> <li>• <b>Red LED:</b> The good buttons form a sequence of letters with equal distance in the alphabet, wrapping around from Z back to A.</li> <li>• <b>Yellow LED:</b> The good buttons, when read in reading order, form a five-letter English word that is encoded using Atbash cipher. In this cipher, A→Z, B→Y, C→X, etc.</li> <li>• <b>Green LED:</b> The good buttons, when read in reading order, form a five-letter English word that is encoded using ROT13. In this cipher, A→N, B→O, C→P, etc.</li> <li>• <b>Turquoise LED:</b> The good buttons have letters whose <a href="#">Morse code</a> begins with the same two symbols.</li> <li>• <b>Blue LED:</b> The good buttons have letters whose <a href="#">international maritime signal flags</a> share a common color.</li> <li>• <b>Purple LED:</b> The good buttons have letters whose <a href="#">flag semaphores</a> share a common flag position.</li> <li>• <b>Pink LED:</b> The good buttons have letters whose <a href="#">Pigpen cipher</a> representations all have or don't have a dot.</li> </ul>
Numbers	<p>Depending on the color of the LED to the right of the display:</p> <ul style="list-style-type: none"> <li>• <b>Red LED:</b> The good buttons show numbers with the same remainder after division by 4, 7, 9 or 11.</li> <li>• <b>Yellow LED:</b> The good buttons show numbers with the same number of lines or the same number of dots when written in <a href="#">Zoni</a>.</li> </ul>

Encoded letters	<p>The buttons display letters using various encodings. The good buttons show either all the same letter, or a five-letter English word in reading order.</p> <p>Encodings used include <a href="#">Braille</a>, <a href="#">Lombax</a>, <a href="#">international maritime signal flags</a>, <a href="#">Morse code</a>, <a href="#">pigpen cipher</a>, <a href="#">flag semaphore</a>, Standard Galactic Alphabet, <a href="#">Zoni</a>, and numeric position (decimal or binary).</p> <p>The Standard Galactic Alphabet is as follows:</p> <table border="1" data-bbox="412 550 1341 819"> <tbody> <tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td><td>L</td><td>M</td></tr> <tr><td>↖</td><td>↘</td><td>↑</td><td>=</td><td>↔</td><td>=</td><td>↑</td><td>↖</td><td>:</td><td>:</td><td>+</td><td>↓</td><td>↙</td></tr> <tr><td>N</td><td>O</td><td>P</td><td>Q</td><td>R</td><td>S</td><td>T</td><td>U</td><td>V</td><td>W</td><td>X</td><td>Y</td><td>Z</td></tr> <tr><td>⤒</td><td>⤓</td><td>⤔</td><td>⤖</td><td>⤐</td><td>⤑</td><td>⤒</td><td>⤓</td><td>⤕</td><td>⤖</td><td>⤗</td><td>⤘</td><td>⤙</td></tr> </tbody> </table>	A	B	C	D	E	F	G	H	I	J	K	L	M	↖	↘	↑	=	↔	=	↑	↖	:	:	+	↓	↙	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	⤒	⤓	⤔	⤖	⤐	⤑	⤒	⤓	⤕	⤖	⤗	⤘	⤙
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⤒	⤓	⤔	⤖	⤐	⤑	⤒	⤓	⤕	⤖	⤗	⤘	⤙																																									
Letter codes	<p>The good buttons show either:</p> <ul style="list-style-type: none"> <li>one or two letters, first letter capitalized: <ul style="list-style-type: none"> <li>chemical element symbols, with the sixth button not a valid chemical element symbol;</li> <li>chemical element symbols from the same row or same column on the <a href="#">periodic table</a>, with the sixth button another valid chemical element symbol;</li> </ul> </li> <li>two capital letters: <a href="#">US state abbreviations</a>;</li> <li>three capital letters: <ul style="list-style-type: none"> <li>ISO country codes from <a href="#">Flags</a>;</li> <li>ISO currency codes from both <a href="#">Flags</a> and <a href="#">Foreign Exchange Rates</a>;</li> <li>company codes from <a href="#">The Stock Market</a>;</li> <li>codes from <a href="#">Morse War</a>.</li> </ul> </li> </ul>																																																				
Words	<p>The words on the good buttons are from the same module. Possible modules are: <a href="#">Anagrams</a>, <a href="#">Braille</a>, <a href="#">Extended Password</a>, <a href="#">Password</a>, <a href="#">Poetry</a>, <a href="#">Tap Code</a>, <a href="#">Word Scramble</a> and <a href="#">Word Search</a>.</p>																																																				
Given names	<p>The names on the good buttons are from the same module. Possible modules are: <a href="#">Human Resources</a>, <a href="#">Ice Cream</a>, <a href="#">Identity Parade</a>, <a href="#">Mafia</a>, <a href="#">Retirement</a>, <a href="#">Schlag den Bomb</a> and <a href="#">Subways</a>.</p>																																																				
<a href="#">Country flags</a>	<p>The good buttons display either countries whose name starts or ends with the same letter, or countries which do or do not contain the letter "E".</p>																																																				
Musical notes	<p>The good buttons show the first 5 notes of a major scale (with sharp/flat equivalents potentially interchanged).</p>																																																				

<b>Colors with numbers</b>	The good buttons show the following numbers corresponding to their colors, but with a consistent offset added:  0 = black, 1 = blue, 2 = green, 3 = cyan/teal, 4 = red, 5 = magenta, 6 = yellow, 7 = white																																																																																																																																																	
<b>Colors with names</b>	<p>The buttons have colors and display the corresponding color name. The colors on the good buttons all have the same R, G, or B value in the following table:</p> <table border="1"> <thead> <tr> <th>Color</th> <th>Name</th> <th>R</th> <th>G</th> <th>B</th> </tr> </thead> <tbody> <tr><td>Aqua</td><td></td><td>0</td><td>2</td><td>2</td></tr> <tr><td>Azure</td><td></td><td>0</td><td>1</td><td>2</td></tr> <tr><td>Boulder</td><td></td><td>1</td><td>1</td><td>1</td></tr> <tr><td>Carrot</td><td></td><td>2</td><td>1</td><td>0</td></tr> <tr><td>Ceramic</td><td></td><td>2</td><td>2</td><td>2</td></tr> <tr><td>Chartreuse</td><td></td><td>1</td><td>2</td><td>0</td></tr> <tr><td>Denim</td><td></td><td>0</td><td>0</td><td>2</td></tr> <tr><td>Dolly</td><td></td><td>2</td><td>2</td><td>1</td></tr> <tr><td>Eggplant</td><td></td><td>1</td><td>0</td><td>1</td></tr> <tr><td>Fuchsia</td><td></td><td>2</td><td>0</td><td>2</td></tr> <tr><td>Harlequin</td><td></td><td>0</td><td>2</td><td>0</td></tr> <tr><td>Heliotrope</td><td></td><td>2</td><td>1</td><td>2</td></tr> <tr><td>Lawn</td><td></td><td>0</td><td>1</td><td>0</td></tr> <tr><td>Lemon</td><td></td><td>2</td><td>2</td><td>0</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Color</th> <th>Name</th> <th>R</th> <th>G</th> <th>B</th> </tr> </thead> <tbody> <tr><td>Maroon</td><td></td><td>1</td><td>0</td><td>0</td></tr> <tr><td>Mint</td><td></td><td>1</td><td>2</td><td>1</td></tr> <tr><td>Navy</td><td></td><td>0</td><td>0</td><td>1</td></tr> <tr><td>Olive</td><td></td><td>1</td><td>1</td><td>0</td></tr> <tr><td>Periwinkle</td><td></td><td>1</td><td>1</td><td>2</td></tr> <tr><td>Rose</td><td></td><td>2</td><td>0</td><td>1</td></tr> <tr><td>Salmon</td><td></td><td>2</td><td>1</td><td>1</td></tr> <tr><td>Scarlet</td><td></td><td>2</td><td>0</td><td>0</td></tr> <tr><td>Spring</td><td></td><td>0</td><td>2</td><td>1</td></tr> <tr><td>Swamp</td><td></td><td>0</td><td>0</td><td>0</td></tr> <tr><td>Teal</td><td></td><td>0</td><td>1</td><td>1</td></tr> <tr><td>Turquoise</td><td></td><td>1</td><td>2</td><td>2</td></tr> <tr><td>Violet</td><td></td><td>1</td><td>0</td><td>2</td></tr> </tbody> </table>	Color	Name	R	G	B	Aqua		0	2	2	Azure		0	1	2	Boulder		1	1	1	Carrot		2	1	0	Ceramic		2	2	2	Chartreuse		1	2	0	Denim		0	0	2	Dolly		2	2	1	Eggplant		1	0	1	Fuchsia		2	0	2	Harlequin		0	2	0	Heliotrope		2	1	2	Lawn		0	1	0	Lemon		2	2	0	Color	Name	R	G	B	Maroon		1	0	0	Mint		1	2	1	Navy		0	0	1	Olive		1	1	0	Periwinkle		1	1	2	Rose		2	0	1	Salmon		2	1	1	Scarlet		2	0	0	Spring		0	2	1	Swamp		0	0	0	Teal		0	1	1	Turquoise		1	2	2	Violet		1	0	2
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<u>3D Tunnels symbols</u>	The symbols on the good buttons belong to the same plane in the <u>3D Tunnels</u> diagram.																																																																																																																																																	
<u>Benedict Cumberbatch names</u>	The good buttons display a valid forename/surname combination from <u>Benedict Cumberbatch</u> .																																																																																																																																																	
<u>Grocery items</u>	The good buttons display items that are <u>either</u> all in <u>Cheap Checkout</u> <u>or</u> all in <u>Grocery Store</u> .																																																																																																																																																	
<u>Question Mark images</u>	The good buttons show images from the same row in the Question Mark manual.																																																																																																																																																	
<u>Zoo animals</u>	The animals on the good buttons form a line in the <u>Zoo</u> manual.																																																																																																																																																	

## Appendix for Odd One Out

### Binary conversion

<b>1</b>	00001	<b>2</b>	00010	<b>3</b>	00011	<b>4</b>	00100
<b>5</b>	00101	<b>6</b>	00110	<b>7</b>	00111	<b>8</b>	01000
<b>9</b>	01001	<b>10</b>	01010	<b>11</b>	01011	<b>12</b>	01100
<b>13</b>	01101	<b>14</b>	01110	<b>15</b>	01111	<b>16</b>	10000
<b>17</b>	10001	<b>18</b>	10010	<b>19</b>	10011	<b>20</b>	10100
<b>21</b>	10101	<b>22</b>	10110	<b>23</b>	10111	<b>24</b>	11000
<b>25</b>	11001	<b>26</b>	11010	<b>27</b>	11011	<b>28</b>	11100

### Major scales (first five notes)

- C, D, E, F, G
- C#/Db, D#/Eb, F, F#/Gb, G#/Ab
- D, E, F#/Gb, G, A
- D#/Eb, F, G, G#/Ab, A#/Bb
- E, F#/Gb, G#/Ab, A, B
- F, G, A, A#/Bb, C
- F#/Gb, G#/Ab, A#/Bb, B, C#/Db
- G, A, B, C, D
- G#/Ab, A#/Bb, C, C#/Db, D#/Eb
- A, B, C#/Db, D, E
- A#/Bb, C, D, D#/Eb, F
- B, C#/Db, D#/Eb, E, F#/Gb