

# RGB Colours

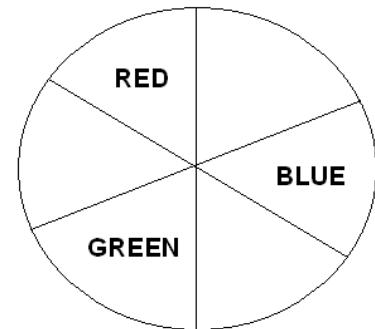


Name: \_\_\_\_\_

1. What does RGB stand for?

R	
G	
B	

2. Fill in this colour wheel based on the computer colours. Use the proper colour names. (Magenta, Yellow, Cyan)



3. Fill in the colours indicated.

- (a) Primary colours in light-based colour.
- (b) Primary colours in paint.
- (c) Secondary colours in light-based colour.
- (d) Red + Blue (light-based colour)
- (e) Red + Green (light based colour)
- (f) Blue + Green (light based colour)


4. Write the code required for each colour. Use either 255 (max) or 0 (min).

	set <b>haloDisplay</b> ▾ to <b>to Halo HD with 60 ZIP LEDs</b>
1 Red	haloDisplay ▾ set ZIP LED 1 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
2 Yellow	haloDisplay ▾ set ZIP LED 2 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
3 Green	haloDisplay ▾ set ZIP LED 3 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
4 Cyan	haloDisplay ▾ set ZIP LED 4 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
5 Blue	haloDisplay ▾ set ZIP LED 5 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
6 Magenta	haloDisplay ▾ set ZIP LED 6 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
7 Black	haloDisplay ▾ set ZIP LED 7 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>
8 White	haloDisplay ▾ set ZIP LED 8 to red <input type="checkbox"/> green <input type="checkbox"/> blue <input type="checkbox"/>

5. Translate these colours into binary. The columns are red, green, blue.

Orange	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1
255, 128, 0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brown	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1
128, 64, 0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Navy Blue	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1
0, 64, 128	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light Yellow	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1	128 64 32 16 8 4 2 1
255, 255, 128	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Colour in the HALO Led positions 0, 2, 4, 6, 8 and 10 with the colours indicated in the code.

