

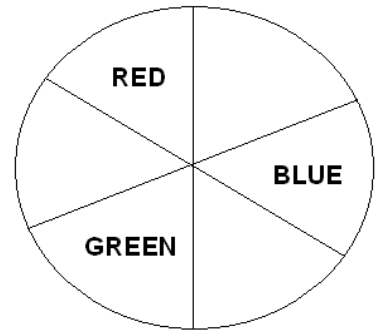
RGB Colours

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

haloDisplay ▼

to

to Halo HD with

60

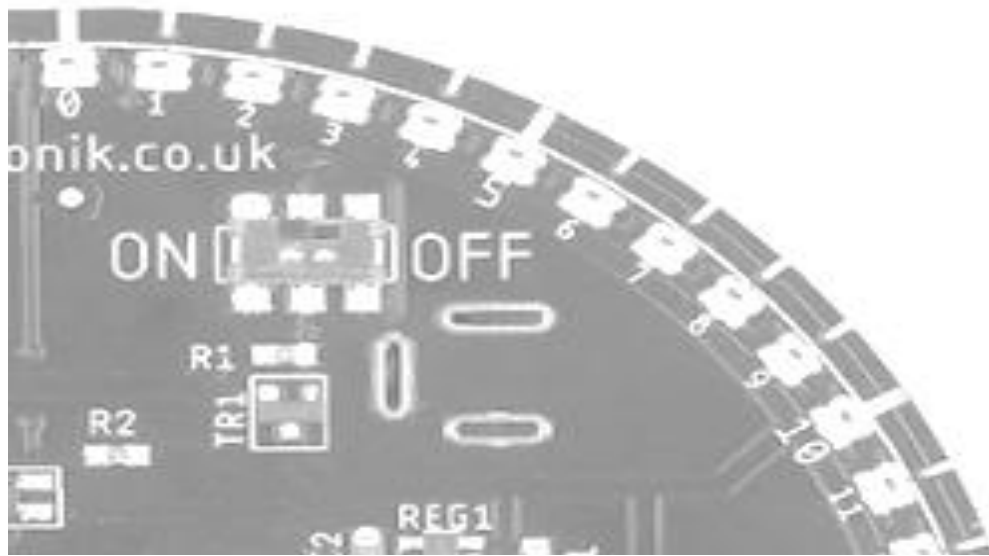
ZIP LEDs

1 Red	haloDisplay ▼	set ZIP LED	1	to	red	green	blue
2 Yellow	haloDisplay ▼	set ZIP LED	2	to	red	green	blue
3 Green	haloDisplay ▼	set ZIP LED	3	to	red	green	blue
4 Cyan	haloDisplay ▼	set ZIP LED	4	to	red	green	blue
5 Blue	haloDisplay ▼	set ZIP LED	5	to	red	green	blue
6 Magenta	haloDisplay ▼	set ZIP LED	6	to	red	green	blue
7 Black	haloDisplay ▼	set ZIP LED	7	to	red	green	blue
8 White	haloDisplay ▼	set ZIP LED	8	to	red	green	blue

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

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



```

on start
  set haloDisplay ▼ to to Halo HD with 60 ZIP LEDs
  haloDisplay ▼ set ZIP LED 0 to red 255 green 0 blue 0
  haloDisplay ▼ set ZIP LED 2 to red 0 green 255 blue 0
  haloDisplay ▼ set ZIP LED 4 to red 0 green 0 blue 255
  haloDisplay ▼ set ZIP LED 6 to red 255 green 0 blue 255
  haloDisplay ▼ set ZIP LED 8 to red 255 green 255 blue 0
  haloDisplay ▼ set ZIP LED 10 to red 0 green 255 blue 255
  haloDisplay ▼ show
  
```