

USEFUL CLASS LIBRARY FUNCTIONS

The following functions may be useful for completing this challenge. Some of them are already used in the notebook's template functions. However, you are free to use them yourself if you prefer not to rely on the template functions in your solution.

Color Sensor Functions

safe_raw_colors()

Description	Read the color sensor <i>red</i> , <i>green</i> , <i>blue</i> and <i>clear</i> values.
Arguments	none
Return Value	a list of <i>red</i> , <i>green</i> , <i>blue</i> & <i>clear</i> values (all values between 0 & 1)
Example	<p>[red , green , blue , clear] = color_sensor.safe_raw_colors()</p> <p><i>Read the color sensor and store the result in a list containing variables named red, green, blue and clear. The square brackets are important!</i></p>

guess_color_hsv()

Description	Given a list of red (R), green (G), blue (B) and clear (C) values, return the name of the closest color in the sensor's known colors list , along with the most recently calibrated R, G & B values for that color.
Arguments	a list of red, green, blue & clear values
Return Value	a string containing a color name and an [R,G,B] value list
Example	<p>color, [r,g,b] = color_sensor.guess_color_hsv([255,0,0,255])</p> <p><i>Returns the string "red" along with the most recent calibrated values for red. In the absence of prior calibration, the default RGB values stored for red are [255,0,0].</i></p>