

The left is the original image, the right is the image converted to 16x16 with a possible 6 colors

Based on official lego color codes here http://www.peeron.com/cgi-bin/invcgis/colorguide.cgi

red = sRGBColor(196, 40, 27, is_upscaled=True)

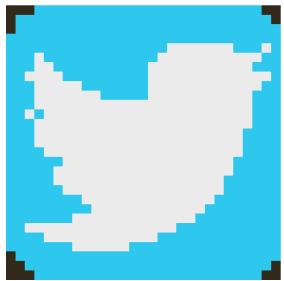
green = sRGBColor(75, 151, 74, is_upscaled=True

blue = sRGBColor(13, 105, 171, is_upscaled=True)

white = sRGBColor(242, 243, 242, is_upscaled=True)

yellow = sRGBColor(245, 205, 47, is_upscaled=True)

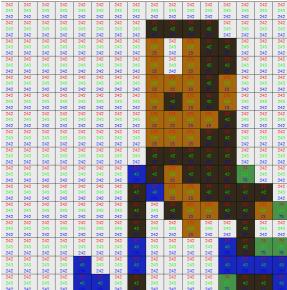
black = sRGBColor(27, 42, 52, is upscaled=True)



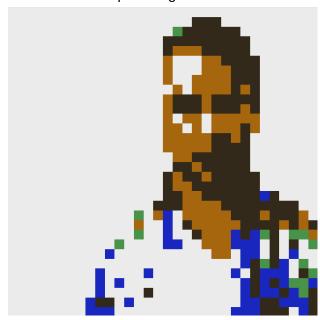
This is the same image in 32x32 resolution

Another test using a person brown skin vs white background for max contrast





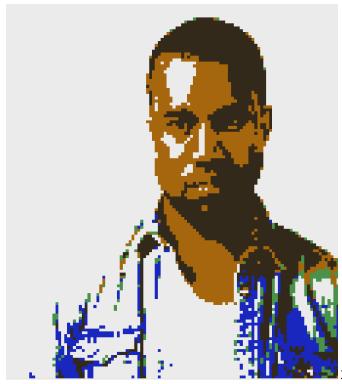
Left is 300x300 aprox. Right is 16x16



32x32



64x64



128x128