3- color

color = physical property of our visual experiences when we look at objects and lights, not a physical property of those objects or lights

human eye
→ most sensetive

visual spectrum = 400nm to 700nm (blue → green → red)

human encoding of color =

↳ rods ≡ more numerous and sensetive, detecting objects, no color information, low light

↳ cones ≜ less numerous and insensetive, perceive colors, 3 type for R,G,B, high light

under

trichromatic color theory = three numbers are sufficient for encoding color

non-linear color space = HSV (hue, saturation, value (intensity))
                                  ton   canlilik   yogunluk

white-balancing = balancing the color temperature in an image (different methods are used)