The size of perceptual difference of colors (j, k) is scaled as djk by selecting a pair of Munsell grays in which the lightness difference matches in size with the color difference. Hence, d is given in terms of Munsell V. The degree of principal hue component (in a color j is scaled as (((j) by making marks on a line segment and the range of ((is from 0 to 10. By plotting (((H V/C) on Munsell H-circle, principal hue curves ((H V/C) are defined where (= R, Y, G, B, V = 3 to 7, and C = 2 to 10. In this process, similar plots of NCS codes (c(() are used as references. The curves ((H V/C) tell us the appearance of Munsell colors (H V/C) and also enable us to predict color differences. The relationship between djk and (V = (Vj -Vk (, ((= (((Hj Vj/Cj) (((Hk Vk/Ck) (is tested in various ways, e.g., logarithmic, power, Minkowski-type functions. The best predictor is given by a simple linear form, = aV(V + {d0 + (a((() . For 899 pairs (j, k), 706 differing in H, C and 193 differing in H, V, C, aV=0.459, d0 = 0.610, aR=0.199, aY = 0.031, aG = 0.098, aB = 0.136, and the root-mean-square of (djk - jk) is 0.338 V.