procedure RGB to HSI (in R, G, B; out H, S, I) { I = max (R, G, B); min = min(R, Gc, B);If  $(I \ge 0.0)$  then S = (I - min)/I; Else S = 0.0; If (S < 0.0) then H = -1.0; peturen; 1/compute the hue based on the relative sizes of 11 the RGB components Diff = I-min; 11 in the point within +/0- 60 degrees of the red Maxin 7 If (n=I) then H= (7/3)\* (g-b)/aiff; 11 is the point within +/- 60 degrees of the green Moxis Else if (g=I) then H= (2\*17/3)+ 1/3\* (b-1)/diff; 1/in the point within +/- 60 degrees of the blue 11 oxin) Else if (b=I) then H=(4\* 1/3) + 1/3\*(n-9)/diff; If (H < 0.0) Hear H = H+277;