gkiHSL_to_RGB.java package gobalkrishnan_v_18_06_1995.color; public class gkiHSL to RGB { int red, green, blue; double hue, saturation, light, c, x, m, r, g, b; private double c 255 to 1(int i){ return i/255d; private int c_1_to_255(double i){ return (int) Math.round(i*255); public void setHSL(double hue,double saturation,double light){ setHue(hue); setSaturation(saturation); setLight(light); } private double mag(double d){ return Math.sqrt(d*d); public void setHue(double h){ hue=h; process(); public void setSaturation(double s){ saturation=s; process(); } public void setLight(double a){ light=a; process(); private void process(){ c = (1-mag((2*light)-1))*saturation; m = light - (c/2d);x = c*(1-mag(((hue/60d)%2)-1));if(hue>=0 && hue<60){ r=c; g=x; b=0;if(hue>=60 && hue<120){

gkiHSL_to_RGB.java

```
r=x;
     g=c;
     b=0;
  if(hue>=120 && hue<180){
     r=0;
     g=c;
     b=x;
  }
  if(hue>=180 && hue<240){
     r=0;
     g=x;
     b=c;
  if(hue>=240 && hue<300){
     r=x;
     g=0;
     b=c;
   if(hue>=300 && hue<360){
     r=c;
     g=0;
     b=x;
  }
   red= c_1_to_255(r+m);
   green=c_1_to_255(g+m);
   blue=c_1_to_255(b+m);
@Override
public String toString() {
  return "gkiHSL_to_RGB [red=" + red + ", green=" + green + ", blue=" + blue
       + "]";
}
}
```