gkiRGB_to_CMYK.java

```
package gobalkrishnan_v_18_06_1995.color;
public class gkiRGB to CMYK {
  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);
  }
  private double max(double a,double b,double c){
    if((a>b)&&(a>c)){
       return a;
    }else if(b>c){
       return b;
    }else{
       return c;
  }
  public double black, cyan, magneta, yellow;
  public int red, green, blue;
  double r,g,b;
  public void setRed(int r){
    this.red=r;
    process();
  }
  public void setGreen(int r){
    this.green=r;
    process();
  }
  public void setBlue(int r){
    this.blue=r;
    process();
  }
  public void setRGB(int r,int g,int b){
    setRed(r);
    setGreen(g);
    setBlue(b);
  }
  private void process(){
    r=c_255_to_1(red);
    g=c 255 to 1(green);
```

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```
b=c_255_to_1(blue);
black=1-max(r,g,b);
cyan =(1-r-black)/(double)(1-black);
magneta =(1-g-black)/(double)(1-black);
yellow =(1-b-black)/(double)(1-black);
}

@Override
public String toString() {
   return "gkiRGB_to_CMYK [black=" + black + ", cyan=" + cyan + ", magneta=" + magneta + ", yello=" + yellow + "]";
}
```