

## gkiCMYK\_to\_RGB.java

```
package gobalkrishnan_v_18_06_1995.color;

public class gkiCMYK_to_RGB {
    public double cyan,magenta,yellow,black;
    public int red,green,blue;

    private int c_1_to_255(double i){
        return (int) Math.round(i*255);
    }

    public void setCMYK(double c,double m,double y,double k){
        setCyan(c);
        setMagenta(m);
        setYellow(y);
        setBlack(k);
    }

    public void setCyan(double c){
        cyan=c;
        process();
    }

    public void setMagenta(double i){
        magenta=i;
        process();
    }

    public void setYellow(double i){
        yellow=i;
        process();
    }

    public void setBlack(double i){
        black=i;
        process();
    }

    private void process(){
        red=c_1_to_255((1-cyan)*(1-black));
        green=c_1_to_255((1-magenta)*(1-black));
        blue=c_1_to_255((1-yellow)*(1-black));
    }

    @Override
    public String toString() {
        return "gkiCMYK_to_RGB [red=" + red + ", green=" + green + ", blue=" + blue
            + "]\n";
    }

}
```