```
IFilter2D
         + ~IFilter2D()
         + apply()
           PixelFilter
  filterType
  brightness
 space
- threshold
- percentage
+ PixelFilter()
+ apply()
  convertToGrayscale()

    adjustBrightness()

- equalizeHistogram()
- thresholdPixel()
- addNoise()

    calculateHistogramAndCDF()

- applyCDF()
 RGBtoHSV()
```

HSVtoRGB()RGBtoHSL()HSLtoRGB()