

ImageTransforms

+adjustBrightness(image: RgbImage, amount int): RgbImage
+adjustBrightness(image: GrayscaleImage, amount int): GrayscaleImage
+convertToGrayscale(image: RgbImage): GrayscaleImage
+getSubImage(image: GrayscaleImage, x: int, y: int, width:int, height:int): GrayscaleImage
+getSubImage(image: RgbImage, x: int, y: int, width:int, height:int): RgbImage
+threshold(image: GrayscaleImage, int threshold): GrayscaleImage

Image

#pixels: int[][][] {Organized as row/y, col/x, channel}

+Image(width: int, height: int, numChannels: int)
+getWidth(): int
+getHeight(): int
+getNumChannels(): int
+getPixelValue(x: int, y: int, channel: int): int
+setPixelValue(x: int, y: int, channel: int, value: int)
+toStringDebug(): String

GrayscaleImage

+GrayscaleImage(width: int, height: int, value: int)
+GrayscaleImage(width: int, height: int)
+GrayscaleImage(image GrayscaleImage)
+getPixelValue(x: int, y: int): int
+setPixelValue(x: int, y: int, value: int)
+toString(): String
+toStringDebug(): String

RgbImage

+RgbImage(width: int, height: int, color: java.awt.Color)
+RgbImage(width: int, height: int)
+RgbImage(image: RgbImage)
+getRed(x: int, y: int): int
+getGreen(x: int, y: int): int
+getBlue(x: int, y: int): int
+setPixelValue(x: int, y: int, color: java.awt.Color)
+setRed(x: int, y: int, value: int)
+setGreen(x: int, y: int, value: int)
+setBlue(x: int, y: int, value: int)
+toString(): String
+toStringDebug(): String