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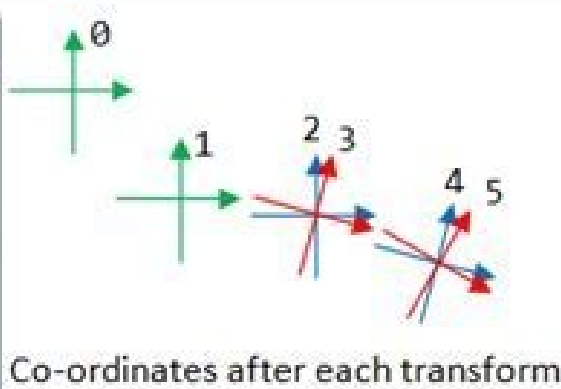

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IsauraManico/Rotation-In-Java-with-Affine-...



1 Contributor0 Issues7 Stars0 Forks



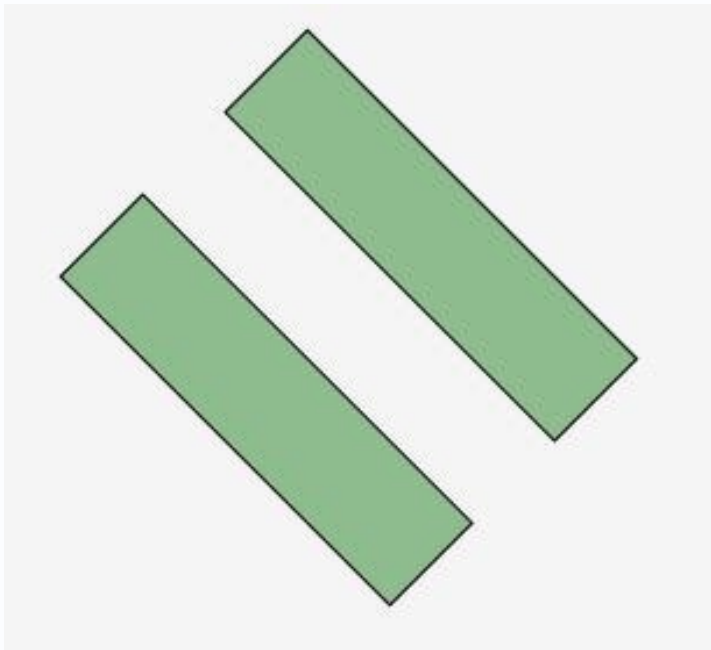
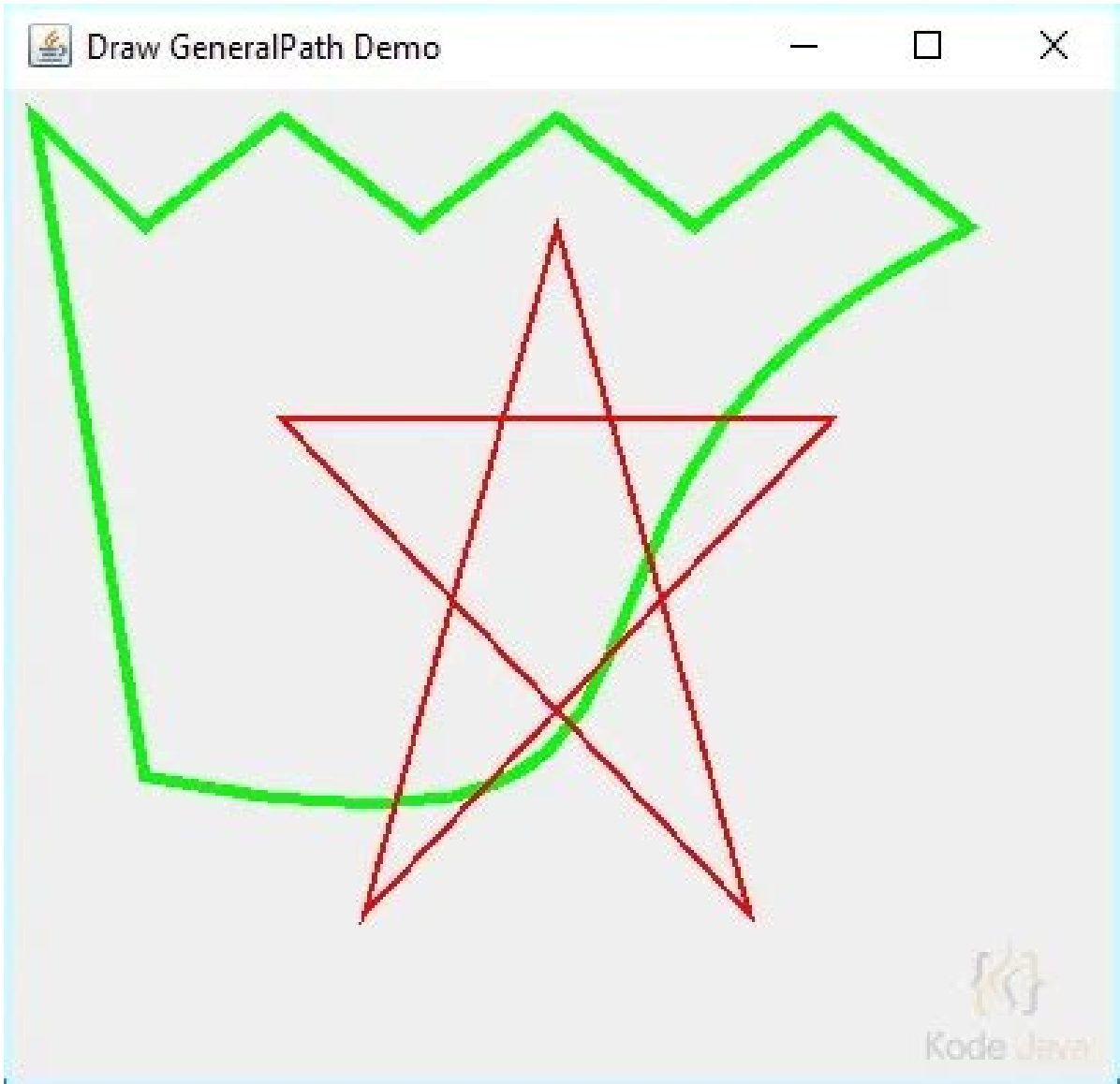
```
public BufferedImage rotateImageByDegrees(BufferedImage img, double angle) {
    double rads = Math.toRadians(angle);
    double sin = Math.abs(Math.sin(rads)), cos = Math.abs(Math.cos(rads));
    int w = img.getWidth();
    int h = img.getHeight();
    int newWidth = (int) Math.floor(w * cos + h * sin);
    int newHeight = (int) Math.floor(h * cos + w * sin);

    BufferedImage rotated = new BufferedImage(newWidth, newHeight, BufferedImage.TYPE_INT_ARGB);
    Graphics2D g2d = rotated.createGraphics();
    AffineTransform at = new AffineTransform();
    at.translate((newWidth - w) / 2, (newHeight - h) / 2);

    int x = w / 2;
    int y = h / 2;

    at.rotate(rads, x, y);
    g2d.setTransform(at);
    g2d.drawImage(img, 0, 0, null);
    g2d.dispose();

    return rotated;
}
```



Common ways to obtain AffineTransformprivate void myMethod () { AffineTransform a =} BufferedImage srcImage = page.getSubimage(region.left, region.top, region.height, region.width); splitImage = new BufferedImage(region.width, region.height, page.getType()); AffineTransform transform = new AffineTransform(); transform.rotate(Math.toRadians(90.0)); transform.translate(0, -region.width); AffineTransformOp op = new AffineTransformOp(transform, AffineTransformOp.TYPE_BILINEAR); op.filter(srcImage, splitImage); page.getType()); Graphics2D g2 = paddedImage.createGraphics(); g2.drawImage(splitImage, padding, padding, null); g2.dispose(); return paddedImage; } else { origin: stackoverflow.com BufferedImage before = getBufferedImage(encoded); int w = before.getWidth(); int h = before.getHeight(); BufferedImage after = new BufferedImage(w, h, BufferedImage.TYPE_INT_ARGB); AffineTransform at = new AffineTransform(); at.scale(2.0, 2.0); AffineTransformOp scaleOp = new AffineTransformOp(at, AffineTransformOp.TYPE_BILINEAR); after = scaleOp.filter(before, after); origin: plantuml/plantumlpublic CircleAndArrow(Point2D p1, Point2D p2) { this.center = new Point2D.Double((p1.getX() + p2.getX()) / 2, (p1.getY() + p2.getY()) / 2); at = AffineTransform.getTranslateInstance(-center.getX(), -center.getY()); at2 = AffineTransform.getTranslateInstance(center.getX(), center.getY()); radius = (int) (p1.distance(p2) / 2); if (radius % 2 == 0) { radius--; } this.p1 = putOnCircle(p1); this.p2 = putOnCircle(p2); this.p3 = at.transform(this.p1, null); this.p3 = new Point2D.Double(p3.getY(), -p3.getX()); this.p3 = at2.transform(p3, null); this.p4 = at.transform(this.p2, null); this.p4 = new Point2D.Double(p4.getY(), -p4.getX()); this.p4 = at2.transform(p4, null); } origin: pentaho/pentaho-kettlepublic void setTransform(float translationX, float translationY, int shadowsize, float magnification) { AffineTransform transform = new AffineTransform(); transform.translate(translationX + shadowsize * magnification, translationY + shadowsize * magnification); transform.scale(magnification, magnification); gc.setTransform(transform); } origin: pentaho/pentaho-kettlepublic void setTransform(float translationX, float translationY, int shadowsize, float magnification) { AffineTransform transform = new AffineTransform(); transform.translate(translationX + shadowsize * magnification, translationY + shadowsize * magnification); transform.scale(magnification, magnification); gc.setTransform(transform); } origin: plantuml/plantumlpublic RenderedImage render(Diagram diagram, BufferedImage image, RenderingOptions options){ RenderedImage renderedImage = image; Graphics2D g2 = image.createGraphics(); antialiasSetting = RenderingHints.VALUE_ANTIALIAS_ON; g2.setRenderingHint(RenderingHints.KEY_ANTIALIASING, antialiasSetting); g2.setColor(Color.white); g2.fillRect(0, 0, image.getWidth()+10, image.getHeight()+10); g2.setStroke(new BasicStroke(1, BasicStroke.CAP_SQUARE, BasicStroke.JOIN_ROUND)); && shape.getType() != DiagramShape.TYPE_CUSTOM){ GeneralPath shadow = new GeneralPath(path); AffineTransform translate = new AffineTransform(); translate.setToTranslation(offset, offset); shadow.transform(translate); g2.setColor(new Color(150,150,150)); new BasicStroke(strokeWeight, new BasicStroke(strokeWeight, BasicStroke.CAP_BUTT, origin: geotools/geotoolsBufferedImage image = new BufferedImage(600, 600, BufferedImage.TYPE_3BYTE_BGR); Graphics2D gr = image.createGraphics(); gr.setRenderingHint(RenderingHints.KEY_ANTIALIASING, RenderingHints.VALUE_ANTIALIAS_ON); gr.setColor(Color.WHITE); gr.fillRect(0, 0, image.getWidth(), image.getHeight()); gr.setColor(Color.LIGHT_GRAY); gr.setStroke(new BasicStroke(1, 0, 0, 1, new float[] {5, 5}, 0)); gr.draw(new Line2D.Double(0, 300, 600, 300)); gr.draw(new Line2D.Double(300, 0, 300, 600)); AffineTransform at = new AffineTransform(); at.translate(300, 300); at.scale(10, -10); gr.setStroke(new BasicStroke(1)); gr.setColor(Color.LIGHT_GRAY); gr.draw(new LiteShape(boundsPoly, at, false)); gr.setStroke(new BasicStroke(0.5f)); gr.setColor(Color.BLUE); gr.draw(new LiteShape(original, at, false)); gr.dispose(); JFrame frame = new JFrame(title); frame.setContentPane(new JLabel(new ImageIcon(image))); frame.pack(); frame.setVisible(true); origin: stackoverflow.com JFrame frame = new JFrame(); frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); frame.getContentPane().setLayout(new GridLayout(1, 1)); panel.add(createComponent("Original", image)); panel.add(createComponent("Flipped", createFlipped(image))); panel.add(createComponent("Rotated", createRotated(image))); panel.add(createComponent("Inverted", createInverted(image))); AffineTransform at = new AffineTransform(); at.concatenate(AffineTransform.getScaleInstance(1, -1)); at.concatenate(AffineTransform.getTranslateInstance(0, -image.getHeight())); return createTransformed(image, at); AffineTransform at = AffineTransform.getRotateInstance(Math.PI, image.getWidth()/2, image.getHeight()/2.0); return createTransformed(image, at); BufferedImage.TYPE_INT_ARGB); Graphics2D g = newImage.createGraphics(); g.transform(at); g.drawImage(image, 0, 0, null); g.dispose(); return newImage; @Override public LuminanceSource rotateCounterClockwise() { int sourceWidth = image.getWidth(); int sourceHeight = image.getHeight(); AffineTransform transform = new AffineTransform(0.0, -1.0, 1.0, 0.0, 0.0, sourceWidth); BufferedImage rotatedImage = new BufferedImage(sourceHeight, sourceWidth, BufferedImage.TYPE_BYTE_GRAY); Graphics2D g = rotatedImage.createGraphics(); g.drawImage(image, transform, null); g.dispose(); int width = getWidth(); return new BufferedImageLuminanceSource(rotatedImage, top, sourceWidth - (left + width), getHeight(), width); } origin: plantuml/plantumlpublic static BufferedImage process(BufferedImage im) { Log.info("Rotation"); final BufferedImage newIm = new BufferedImage(im.getHeight(), im.getWidth(), BufferedImage.TYPE_INT_RGB); final Graphics2D g2d = newIm.createGraphics(); final AffineTransform at = new AffineTransform(0, 1, 1, 0, 0, 0); at.concatenate(new AffineTransform(0, 1, 0, 0, 0, 0)); g2d.setTransform(at); g2d.drawImage(im, 0, 0, null); g2d.dispose(); return newIm; } origin: stackoverflow.comArrayList regions = new ArrayList(); PathIterator pi = shape.getPathIterator(null); int ii = 0; GeneralPath gp = new GeneralPath(); Rectangle r = shape.getBounds(); System.out.println("shape rect: " + r); int spaceX = sz - r.width; int spaceY = sz - r.height; AffineTransform trans = AffineTransform.getTranslateInstance(- r.x + (spaceX / 2), - r.y + (spaceY / 2)); System.out.println("Box2D " + trans); Shape shapeCentered = trans.createTransformedShape(shape1); g.setColor(outlineColor); g.fillRect(shapeArea); g.dispose(); l.setBackground(bg); l.setOpaque(true); c.add(l); /** * 根据文字创建PNG图片 * * @param str 文字 * @param font 字体 * @link Font * * @param backgroundColor 背景颜色 * @param fontColor 字体颜色 * @param out 图片输出地 * @throws IOException 异常 */ public static void createImage(String str, Font font, Color backgroundColor, Color fontColor, ImageOutputStream out) throws IOException { // 获取font的样式应用在str上的整个矩形 Rectangle2D r = font.getStringBounds(str, new FontRenderContext(AffineTransform.getScaleInstance(1, 1), false, false)); int unitHeight = (int) Math.floor(r.getHeight()); // 获取单个字符的高度 // 获取整个str用了font样式的宽度这里用四舍五入后+1保证宽度绝对能容纳这个字符串作为图片的宽度 int width = (int) Math.round(r.getWidth()) + 1; int height = unitHeight + 3; // 把单个字符的高度+3保证高度绝对能容纳字符串作为图片的高度 // 创建图片 BufferedImage image = new BufferedImage(width, height, BufferedImage.TYPE_INT_BGR); Graphics g = image.getGraphics(); g.setColor(backgroundColor); g.fillRect(0, 0, width, height); // 先用背景色填充整张图片,也就是背景 g.setColor(fontColor); g.setFont(font); // 设置画笔字体 g.drawString(str, 0, font.getSize()); // 画出字符串 g.dispose(); writePng(image, out); } origin: stackoverflow.comAffineTransform stretch = new AffineTransform(); int w = 640; // image width int h = 200; // image height String s = "The quick brown fox jumps over the lazy dog."; final BufferedImage bi = new BufferedImage(w,h,BufferedImage.TYPE_INT_RGB); Graphics2D g = bi.createGraphics(); g.setFont(new Font("Serif",Font.PLAIN,8)); g.setRenderingHint(RenderingHints.KEY_TEXT_ANTIALIASING, RenderingHints.VALUE_TEXT_ANTIALIASING_ON); g.setColor(Color.WHITE); g.fillRect(0, 0, w, h); g.setColor(Color.BLACK); g.drawString(s, 0, (h*f)+8); stretch.concatenate(AffineTransform.getScaleInstance(1.18, 1d)); g.setTransform(stretch); origin: geotools/geotoolsprivate BufferedImage drawCurves() { final int SIZE = 400; BufferedImage bi = new BufferedImage(SIZE, SIZE, BufferedImage.TYPE_3BYTE_BGR); Envelope envelope = curve.getEnvelopeInternal(); if (offsetCurve != null) { double ty = envelope.getMinY() * scale + SIZE; AffineTransform at = new AffineTransform(scale, 0.0d, 0.0d, scale, tx, ty); Graphics2D graphics = bi.createGraphics(); graphics.setColor(Color.BLACK); graphics.fillRect(0, 0, SIZE, SIZE); graphics.setColor(Color.BLACK); graphics.setStroke(new BasicStroke(4)); graphics.draw(new LiteShape(curve, at, false)); graphics.setColor(Color.RED); graphics.setStroke(new BasicStroke(4, BasicStroke.CAP_SQUARE, origin: stackoverflow.comprivate Polygon p2 = new Polygon(p2x, p2y, p2x.length); private Polygon p3 = new Polygon(p3x, p3y, p3x.length); private AffineTransform at = new AffineTransform(); private double dt = DELTA_THETA; private double theta; super.paintComponent(g); Graphics2D g2d = (Graphics2D) g; g2d.setRenderingHint(RenderingHints.KEY_ANTIALIASING, RenderingHints.VALUE_ANTIALIAS_ON); int w = this.getWidth(); int h = this.getHeight(); g2d.drawLine(w / 2, 0, w / 2, h); g2d.drawLine(0, h / 2, w / 2, h / 2); g2d.rotate(theta, w / 2, h / 2); g2d.drawPolygon(p1); g2d.drawPolygon(p2); at.setToldentity(); at.translate(w / 2, h / 2); at.scale(scale, scale); at.translate(-p3x[5] + 10, -p3y[5]); g2d.setPaint(Color.blue); g2d.fill(at.createTransformedShape(p3));

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