```java
package com.andb.csa.notes.graphics;

import com.andb.csa.library.StdDraw;
import javafx.util.Pair;

import java.awt.*;
import java.util.ArrayList;

/**
 * Draws IntelliJ IDEA Logo
 * @author Andy Burris
 * @version 1 December 2019
 */
public class StdDrawAssignment {
    public static void main(String[] args) {
        drawBackground();
        drawBase();
        drawText();
        drawBar();
    }

    public static void drawBase(){
        StdDraw.setPenColor(Color.BLACK);
        StdDraw.filledRectangle(.5, .5, .325, .325);
    }

    public static void drawText(){
        StdDraw.setPenColor(Color.WHITE);
        StdDraw.setFont(getFont());
        StdDraw.text(.3395, .525, "I");
        StdDraw.text(.55, .525, "J");

        //Draw "I" bars since Gotham-Medium is sans-serif (modified brand font?)
        StdDraw.filledRectangle(.34, .7, .06, .0225);
        StdDraw.filledRectangle(.34, .465, .06, .0225);
    }

    public static void drawBar(){
        StdDraw.setPenColor(Color.WHITE);
        StdDraw.filledRectangle(.25+.125, .26+.015, .125, .015);
    }

    public static void drawBackground(){
        drawShape2();
        drawShape3();
        drawShape1();
        drawShape4();
    }

    public static void drawShape1(){
        ArrayList<Pair<Double, Double>> shape1 = new ArrayList<>();
        shape1.add(new Pair<>(0.0, 0.6));
        shape1.add(new Pair<>(.15, 1.0));
        shape1.add(new Pair<>(.45, .96));
        shape1.add(new Pair<>(.8, .61));
        shape1.add(new Pair<>(.6, .5));
        drawPolygon(new Color(254,49,93), shape1);
    }

    public static void drawShape2(){
        ArrayList<Pair<Double, Double>> shape2 = new ArrayList<>();
        shape2.add(new Pair<>(0.01, 0.4));
        shape2.add(new Pair<>(0.175, 0.25));
        shape2.add(new Pair<>(0.5, 0.5));
        shape2.add(new Pair<>(0.175, 0.7));
        drawPolygon(new Color(249,122,18), shape2);
    }

    public static void drawShape3(){
        ArrayList<Pair<Double, Double>> shape3 = new ArrayList<>();
        shape3.add(new Pair<>(0.65, 0.98));
        shape3.add(new Pair<>(1.0, 0.7));
        shape3.add(new Pair<>(0.98, 0.17));
        shape3.add(new Pair<>(0.575, 0.0));
        shape3.add(new Pair<>(0.25, 0.175));
        shape3.add(new Pair<>(0.55, 0.825));
        drawPolygon(new Color(10,123,249), shape3);
    }

```

```
80      public static void drawShape4(){
81          ArrayList<Pair<Double, Double>> shape4 = new ArrayList<>();
82          shape4.add(new Pair<>(0.1, 0.04));
83          shape4.add(new Pair<>(0.175, 0.4));
84          shape4.add(new Pair<>(0.5, 0.175));
85          drawPolygon(new Color(150,81,159), shape4);
86      }
87
88      public static Font getFont() {
89          Font font = null;
90
91          GraphicsEnvironment e = GraphicsEnvironment.getLocalGraphicsEnvironment();
92          Font[] fonts = e.getAllFonts(); // Get the fonts
93          for (Font f : fonts) {
94              if(f.getFontName().equals("Gotham-Medium")){
95                  font = f;
96              }
97          }
98          System.out.println(font.getSize());
99
100         return Font.getFont("Gotham-Medium", font.deriveFont(200f));
101     }
102
103     public static <K, V> Pair<ArrayList<K>, ArrayList<V>> split(ArrayList<Pair<K, V>> arrayList){
104         ArrayList<K> k = new ArrayList<>();
105         ArrayList<V> v = new ArrayList<>();
106         for (Pair<K, V> pair : arrayList){
107             k.add(pair.getKey());
108             v.add(pair.getValue());
109         }
110         return new Pair<>(k, v);
111     }
112
113     public static void drawPolygon(Color color, ArrayList<Pair<Double, Double>> coordinates){
114         StdDraw.setPenColor(color);
115         Pair<ArrayList<Double>, ArrayList<Double>> split = split(coordinates);
116         StdDraw.filledPolygon(split.getKey().stream().mapToDouble(d -> d).toArray(), split.getValue().
    stream().mapToDouble(d -> d).toArray());
117     }
118 }
119
```