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**Module 1 – Discussion Board**  
**Topic: JavaFX Circle Arc & Gradient Color**

For this post, I picked two JavaFX topics that are both simple and visually impressive: **Circle/Arc** and **Gradient Color**. These tools can make any basic JavaFX app look more modern and interactive without needing advanced code.

**🔵 JavaFX Circle and Arc**

The **Circle** class lets you create a perfect circle by just setting the center (X, Y) and the radius. You can add color to the inside (setFill) and a border (setStroke). The **Arc** class is like a slice of a circle. You control where it starts, how big the arc is, and the arc’s style (like ROUND or CHORD).

Here’s a quick example:

Circle circle = new Circle(100, 100, 50);

circle.setFill(Color.LIGHTBLUE);

circle.setStroke(Color.BLACK);

Arc arc = new Arc(100, 100, 50, 50, 30, 120);

arc.setType(ArcType.ROUND);

arc.setFill(Color.ORANGE);

arc.setStroke(Color.RED);

**Explanation:**  
This creates a light blue circle with a black border. Then it adds an arc (like a pizza slice) starting at a 30-degree angle and sweeping 120 degrees. Using ArcType.ROUND makes it look like a solid pie slice.

**🌈 JavaFX Gradient Color**

Gradient colors are great when you want to move beyond solid fills. JavaFX has a LinearGradient class that blends two or more colors smoothly across a shape.

Example:

Rectangle rect = new Rectangle(200, 100);

rect.setFill(new LinearGradient(

0, 0, 1, 1, true, CycleMethod.NO\_CYCLE,

new Stop(0, Color.YELLOW),

new Stop(1, Color.RED)

));

**Explanation:**  
This creates a rectangle that fades from yellow in the top-left corner to red in the bottom-right. It makes the UI feel more modern and dynamic with very little effort.

**📚 Resources Used:**

* TutorialsPoint. (2024). [JavaFX Tutorial](https://www.tutorialspoint.com/javafx/index.htm)
* Oracle Docs. (2024). [JavaFX Arc Class](https://docs.oracle.com/javase/8/javafx/api/javafx/scene/shape/Arc.html)