Graphics Library Testing Plan - Ellipse

Plan Progress: Complete

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Testing Progress: Complete

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( For cinveneice, I only mark the Failed methods)

Module Version: Ellipse v1.0:

| Test Case | Test Criteria | Input value | Expected Result | Actual Result | Pass/Fail |
| --- | --- | --- | --- | --- | --- |
| Ellipse() | Constructor with valid  parameters | 50, 30, Color.BLUE,  1.0, 200, 200 | testGetWidth() = 50, testGetHeight() = 30, testGetColor() = Color.BLUE, testGetStrokeWidth() = 1.0,  testGetWidth() = 200, testGetHeight() = 200 |  |  |
| Constructor with in-  valid parameters (neg-  ative radius) | -50, 30, Color.BLUE,  1.0, 200, 200 | testInvalidRadiusException() = IllegalArgumentException | Failed | Failed |
| Constructor with valid  parameters and gradi-  ent | 50, 30, Color.RED,  Color.BLUE, 45, 1.0,  200, 200 | testGetGradient() = "Gradient set with colors RED to BLUE at 45 degrees" |  |  |
| Constructor with valid  parameters (circle) | 50, Color.RED, 1.0,  200, 200 | testGetWidth() = 50, testGetHeight() = 50, testGetColor() = Color.RED, testGetStrokeWidth() = 1.0, testGetWidth() = 200, testGetHeight() = 200 |  |  |
| Constructor with valid  parameters (circle) and  gradient | 50, Color.RED,  Color.BLUE, 45,  1.0, 200, 200 | testGetWidth() = 50, testGetHeight() = 50, testGetGradient() = "Gradient set with colors RED to BLUE at 45 degrees" |  |  |
| setStroke() | setStroke() | Color.RED, 2.0 | testGetStrokeColor() = Color.RED, testGetStrokeWidth() = 2.0 |  |  |
| Invalid | Color.BLUE, -2.0 | testInvalidStrokeException() = IllegalArgumentException | Failed | Failed |
| rotate() | rotate() | N/A |  | Failed | Failed |
| invalid | “Hello” | testInvalidAngleException() = IllegalArgumentException |  |  |
| fadeIn() | fadeIn() | 2.0 | testGetFadeInDuration() = 2.0 |  |  |
| invalid | -.2.0 | testInvalidFadeDurationException() = IllegalArgumentException | Failed | Failed |
| fadeOut() | fadeOut() | 2.0 | testGetFadeOutDuration() = 2.0 |  |  |
| invalid | -2.0 | testInvalidFadeDurationException() = IllegalArgumentException | Failed | Failed |
| setVisibleAfterDelay() | setVisibleAfterDelay() | 2.0 | testGetVisibleDelay() = 2.0 |  |  |
| Invalid | -2.0 | testInvalidDelayException() = IllegalArgumentException | Failed | Failed |
| setInvisibleAfterDelay() | setInvisibleAfterDelay() | 2.0 | testGetInvisibleDelay() = 2.0 |  |  |
| Invalid | -2.0 | testInvalidDelayException() = IllegalArgumentException | Failed | Failed |
| setGradient() | setGradient() | Color.RED,  Color.BLUE, 45 | testGetGradient() = "Gradient set with colors RED to BLUE at 45 degrees" |  |  |
| Invalid? | N/A |  | Failed | Failed |