

DM-GY 6063 2024F B

Mid-Term Project

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The Lion King

This project depicts Simba's journey of growth and self-discovery, capturing themes of family, leadership, and the "circle of life." Through this interactive digital poster, users experience symbolic representations of key moments in Simba's transformation from cub to king.



Aspect of Plot/Themes Explored

Explored Aspect: Simba's growth stages and environmental influence.

Implementation:

- **Sunrise Animation:** Represents life's cyclical nature.
- **Simba's Transformation:** Keyboard interactions allow users to view Simba's growth stages, symbolizing his progression.
- **Ripple Effects:** Mouse interactions trigger ripples, symbolizing impact and change, mirroring Simba's influence on the Pride Lands.

Challenges (Imagined and Real)

- **Imagined Challenges:**

- Creating realistic animations for the sunrise and star twinkling.
- Handling transitions between Simba's growth stages.

- **Real Challenges:**

- Ensuring smooth brightness variation for stars without flickering.
- Optimizing ripple and star animations to maintain performance.
- Adjusting image transitions to maintain visual continuity.

Code Highlights

Code Snippet: Ripple Effect Animation

Explanation:

- The `drawRipple` function is a key part of the interaction, animating expanding and fading ripples when the mouse is clicked.
- Ripple Effects Code:

```
function drawRipple(ripple) {  
  noFill();  
  stroke(255, ripple.alpha);  
  ellipse(ripple.x, ripple.y, ripple.radius * 2);  
  ripple.radius += 1.5; // Expands ripple radius  
  ripple.alpha -= 3;    // Ripple fades  
}
```

Link to live project

- <https://github.com/nikhilkhanelwal-DM-GY-6063-2024-Fall/MidTerm>

Demo Overview:

- **Interactions:** Demonstrate the ripple effect (mouse clicks) and Simba's growth stage transitions (keyboard).
- **Project Walkthrough:** Highlight sunrise animation, starry sky, and the symbolic transition of Simba's character through interactions.