

Exploring the Impact of environmental cues like Light and Music on Reading Experience: An Embodied Interaction Study

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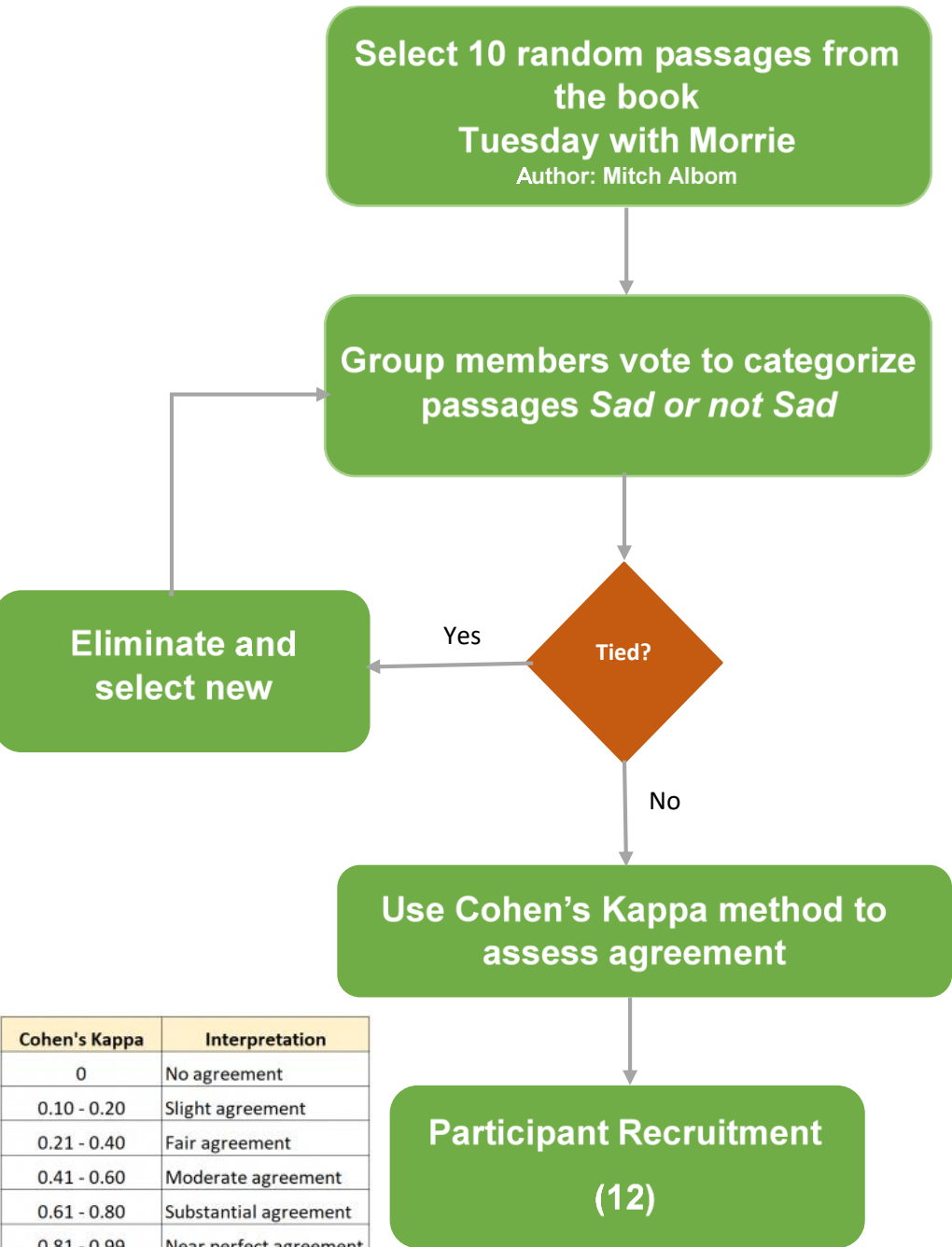
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In this embodied interaction project, we explore how integrating music and lighting effects into physical books influences reader engagement and emotional response. Our aim is to enhance the reading experience by using these interactive elements to make reading experience more immersive and emotionally resonant. This project demonstrates how embodied interaction through physical books can transform traditional book reading, offering new ways to engage readers and enrich their reading experience.

Methodology



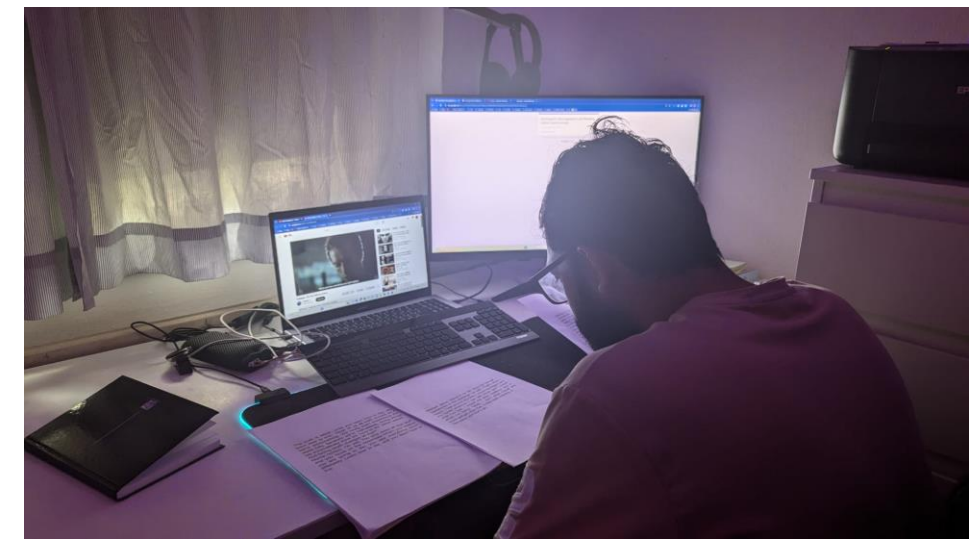
Reference: www.statology.org
Kappa Calculation
Average K = (0.8 + 0.58 + 0.61 + 0.8 + 0.8 + 0.61) / 6 = **0.7**

Observations

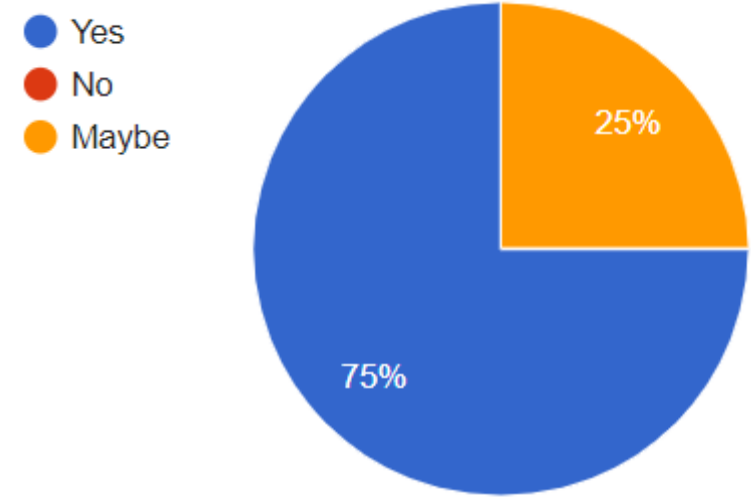
- When the light and music was changed, readers felt extremely engaged especially while reading sad passages.
- Most responded that music had an intense impact on them than light but they also liked the change of lighting. It affected the mood positively.

Experiment Setup

- Consistent Experimental Conditions (Room Temperature, Noise level, seating arrangement, Time of the day)
- Pre reading questionnaire



- Reading Experiment
 - Sad Passages:** Sad music and blue lighting were used to enhance the emotional tone.
 - Not Sad Passages:** Neutral or uplifting music and warm lighting were applied to match the tone of the passage
- Post reading feedback questionnaire



Participant’s Interest in Interactive Storytelling with Music and Lighting Changes in future