

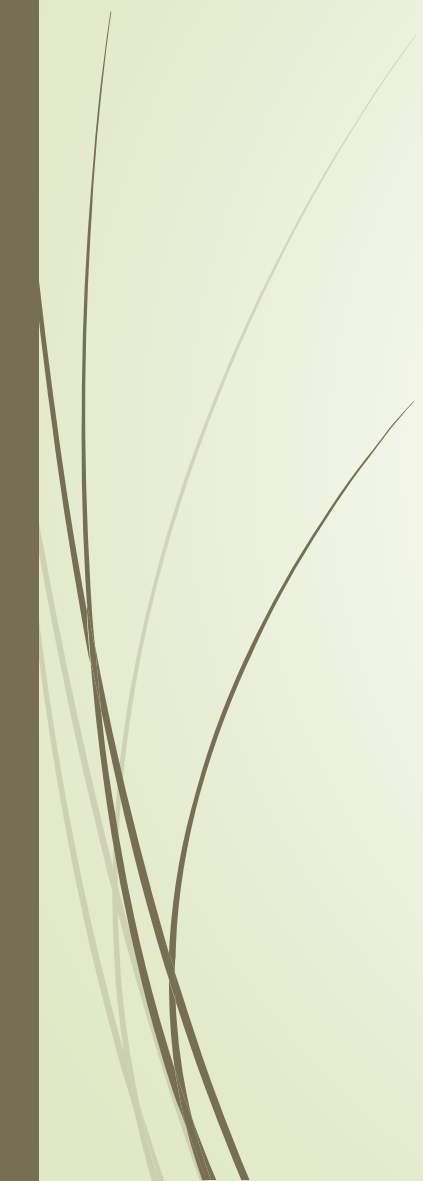


Color detection for Visually impaired people

System Design



Outline

- Introduction
 - Problem statement
 - Project specifications
 - System Design
 - Conclusion
 - Questions and Answers
- 



Introduction

- Blindness is a condition of poor visual perception.
- Multiple Levels of Blindness.
- 285 Million person are visually impaired.
 - 39 million completely blind.
 - 246 million with low vision.



Problem Statement

- Inability to detect or Distinguish between colors.
- Daily Challenges.

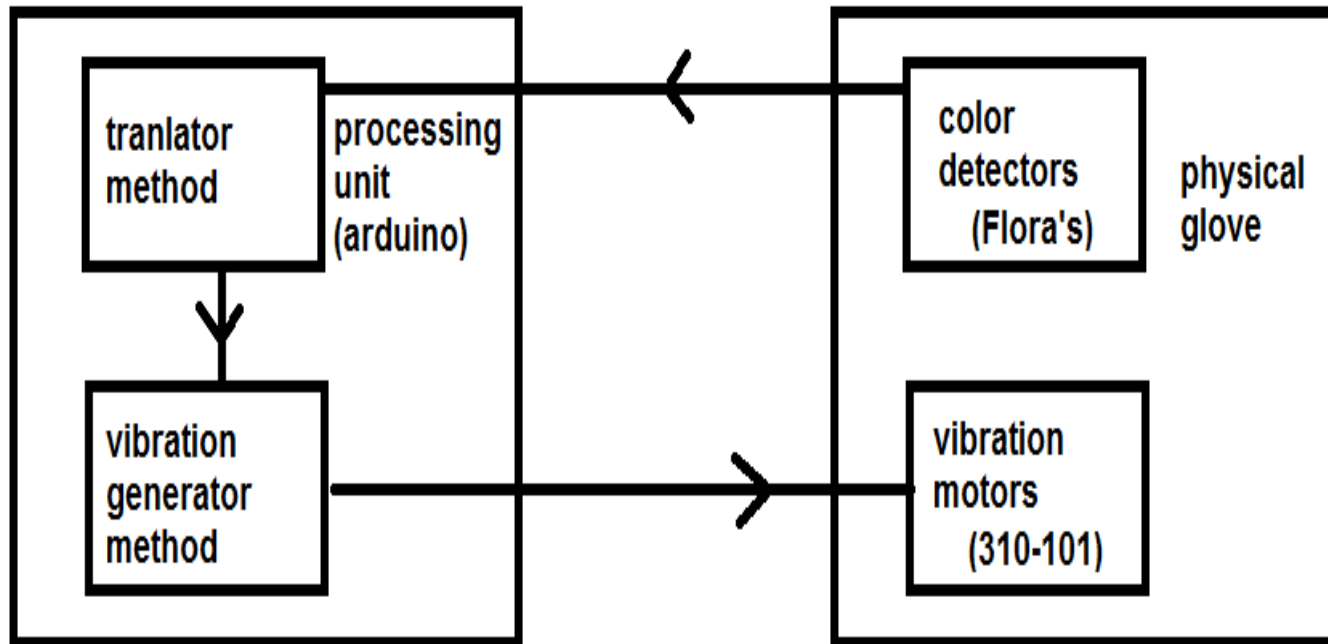
Project specifications

- User requirements :
 - **reliability** in detecting and translating different colors to predefined vibrations accurately.
 - **Fast and Instant** in reading colors
- Technical specifications:
 - **Sensor range:** must touch to detect color.
 - **Vibrators voltage:** 2V to 3V to indicate color intensity.
 - **Arduino:** two will be used one for each hand.



Flora sensor

System Architecture



System Design





conclusion

- Solution for a challenge faces the visually impaired people
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Thanks for your time



Q & A