



# 3. The Purkinje shift

**Opponent:**

Team Romania - Limitless

**Reporter:**

Team Iran - Valeh

# Task of the problem

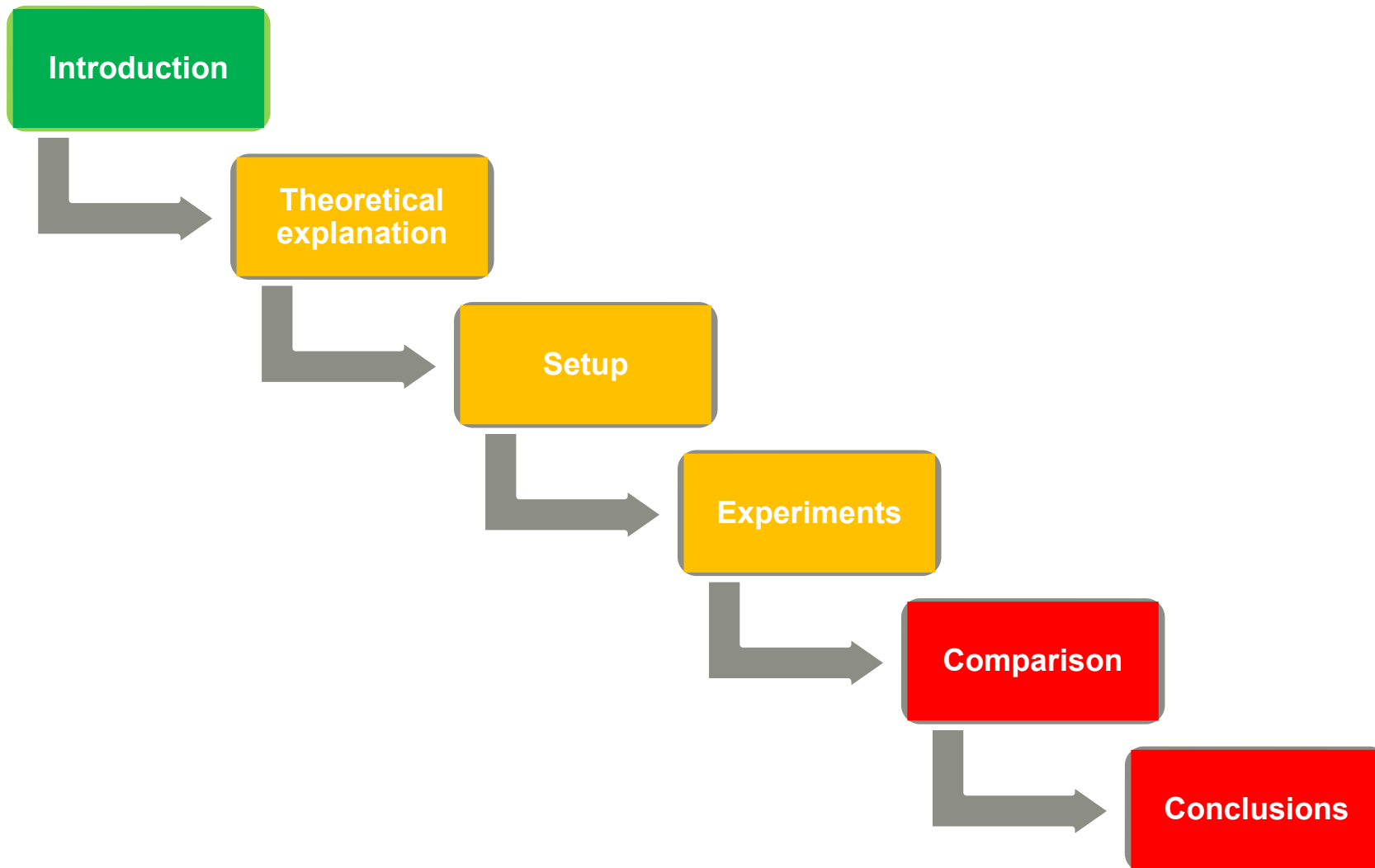
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As light levels decrease, human eyes perceive relative brightness and contrast of various colors differently. Perform experiments in controlled conditions to investigate this effect.

## Eye anatomy

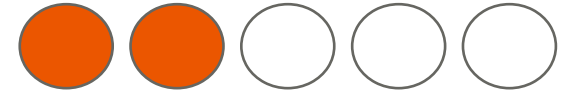
- **Theoretical information**
- **Experimental Part**
- **Relevant parameters**

# Outline of the reporter



- Well done
- Good
- Needs improvement

# Theoretical part



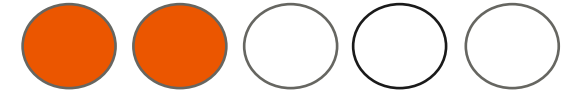
## Strong points

- Good comparison between the photoreceptors
- Anatomy of the eye was well presented

## Weak points

- No Purkinje Theorem was presented
- The spectrum colour is missing
- Types of cones were not detailed presented
- Eye disease that can affect the experiment weren't presented
- Not all visual aids were sufficiently explained (slide 5, 6)

# Experimental part



## Strong points

- Mechanical setup was presented with sensors, but doesn't respect the task
- Presence of relevant conclusions

## Weak points

- Experiments were based on camera
- Poor experimental
- Not any quantitative results were presented, no graphs
- The environmental light wasn't controlled
- Lack of hypothesis and predictions
- The number of subjects wasn't presented
- All the results are subjective, maybe make an objective study as well
- Poor answers to the clarifying questions

# Discussion topics

- The Purkinje Theory is missing
- Experiments with the subjects (how many subjects?/ other results)
- Colour spectrum is missing
- Didn't mention the photoreceptors
- First experiment is not relevant because of the sun glasses