

# Stimulus deflector: control experiment

08/21/2014

Previously...

- Experiment 4: Stimulus deflector

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Previously...

- Experiment 1: CRT
- Experiment 2: LED + 20 ms stimulus presentation
- Experiment 3: LED + ~10ms stimulus presentation
- Experiment 4: DFL

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Previous results

- Experiment 4: Stimulus deflector

2 subjects

3 subjects

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Why do the results differ from Experiment 1, 2 and 3?

1. CRT phosphor persistence is biasing the result
2. Experiment 4 is too difficult
3. The results (Exp. 1, 2 and 3) are artifact

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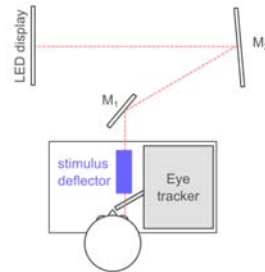
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Possible solutions

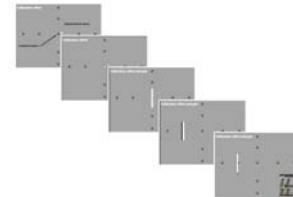
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Possible solutions

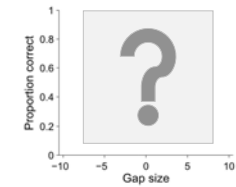
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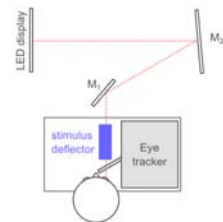
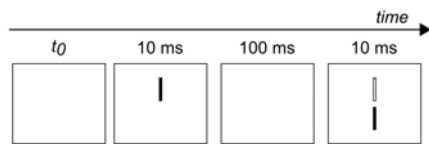
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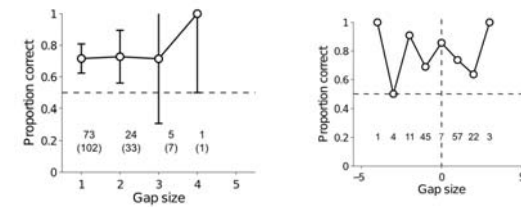
10

The experiment



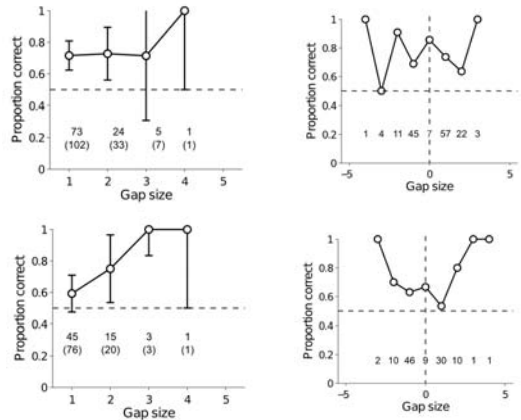
11

Preliminary results



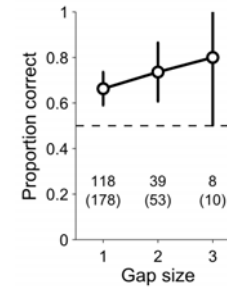
12

Preliminary results



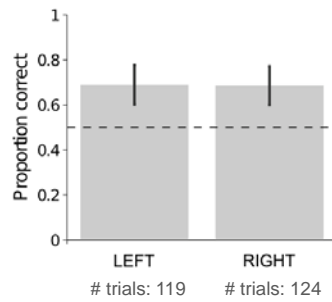
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Preliminary results: day 1 + day 2



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A different way to visualize the results



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Conclusions

The observer was able to correctly determine the direction of the displacement caused by ocular drift during the interstimulus interval.

These results are congruent with those of Experiment 1, 2 and 3

However,

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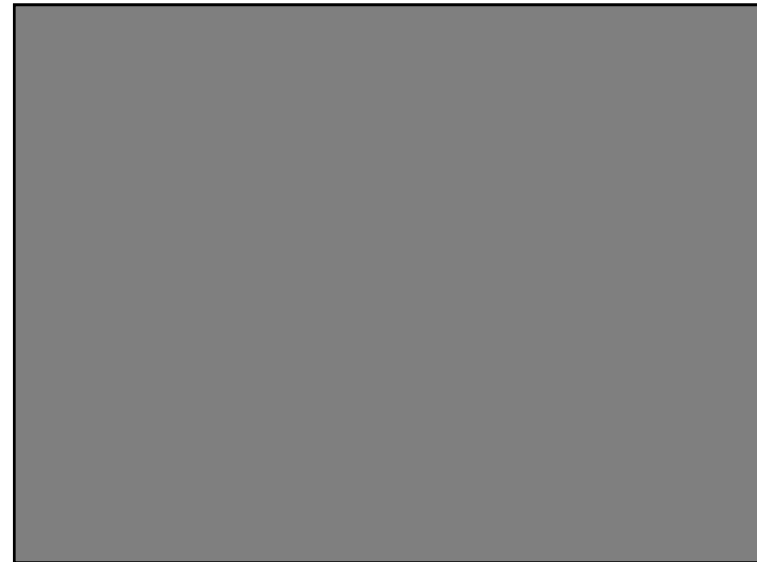
Future directions

The observer was able to correctly determine the direction of the displacement caused by ocular drift during the interstimulus interval.

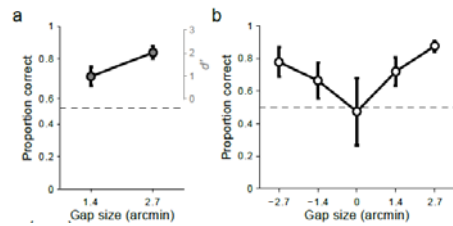
These results are congruent with those of Experiment 1, 2 and 3

However, it is not clear whether the previous results were caused by the phosphor persistence or the difficulty of the task.

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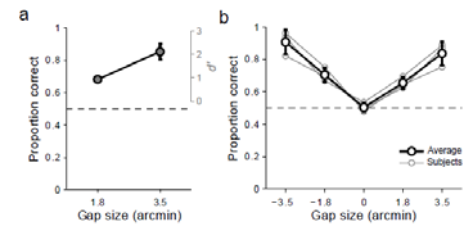
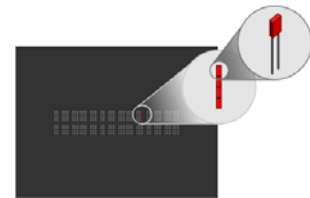


Experiment 1: CRT



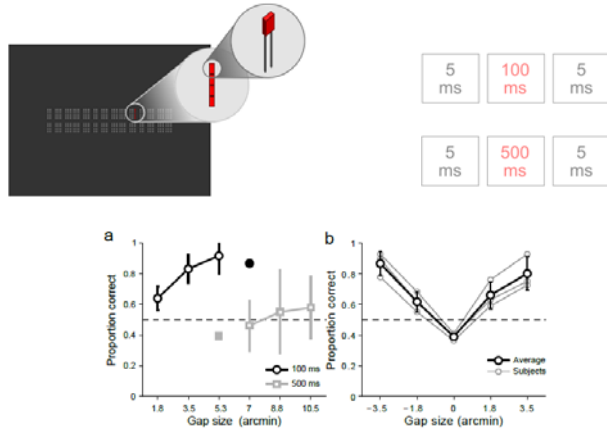
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Experiment 2: LED



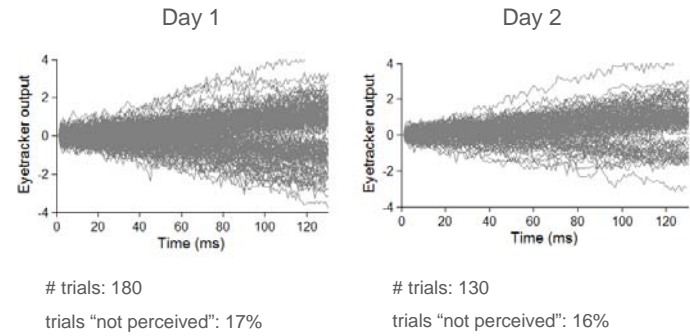
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Experiment 3: LED



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Data



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