

Pupil Response to Illusory Changes in Lighting: A Case of Motion-Induced Blindness

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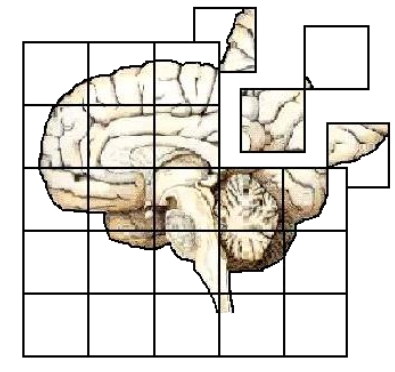
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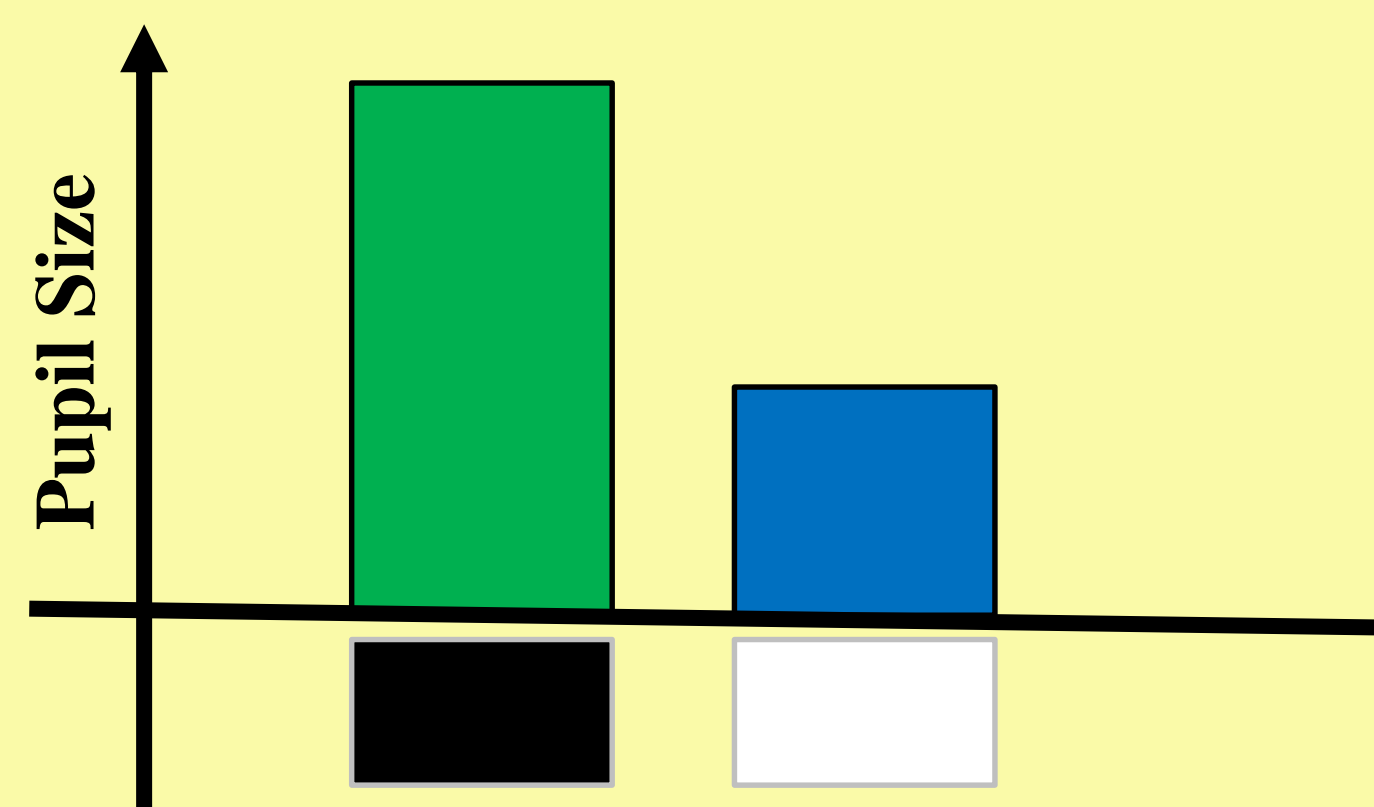
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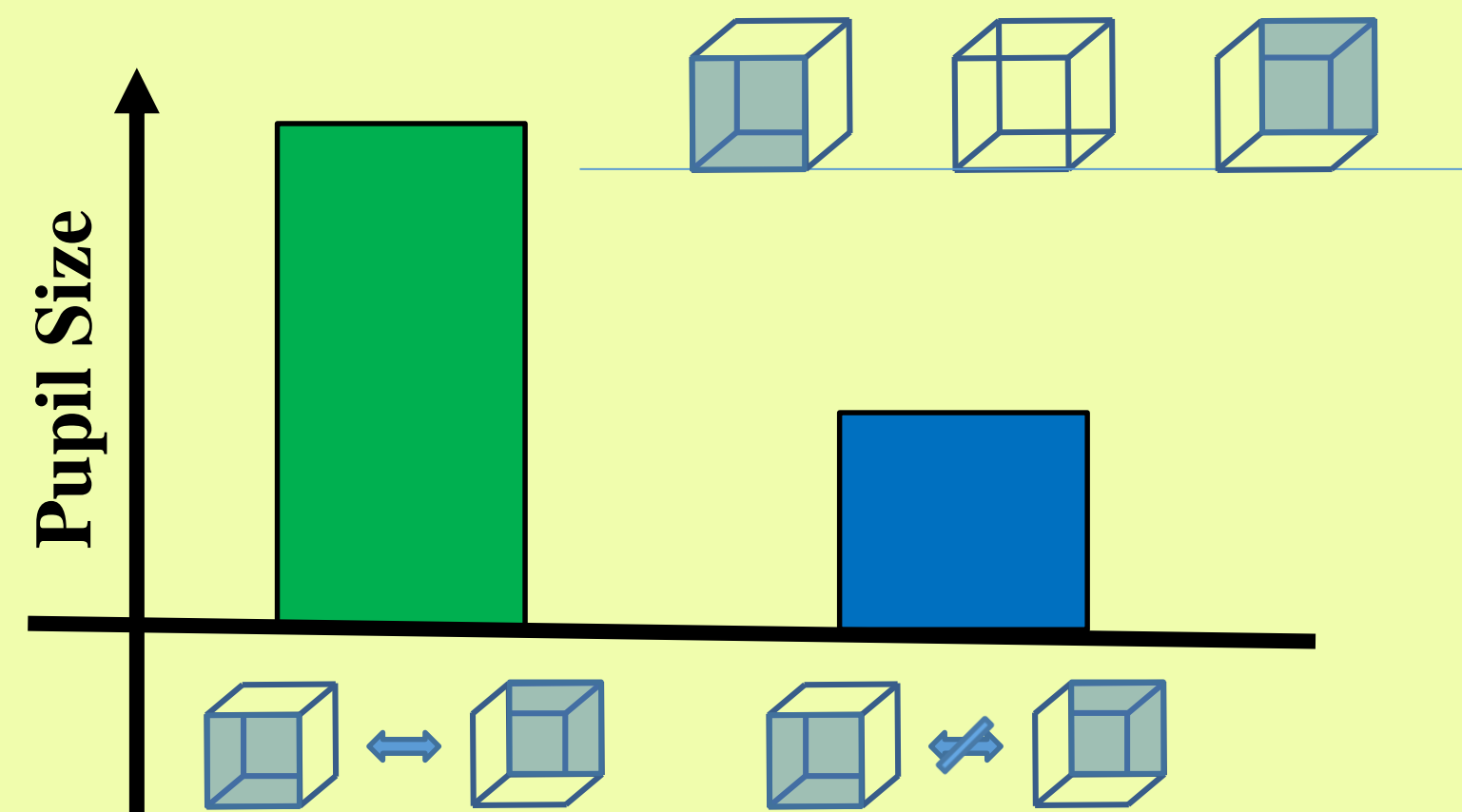


Pupil light reflex (PLR)



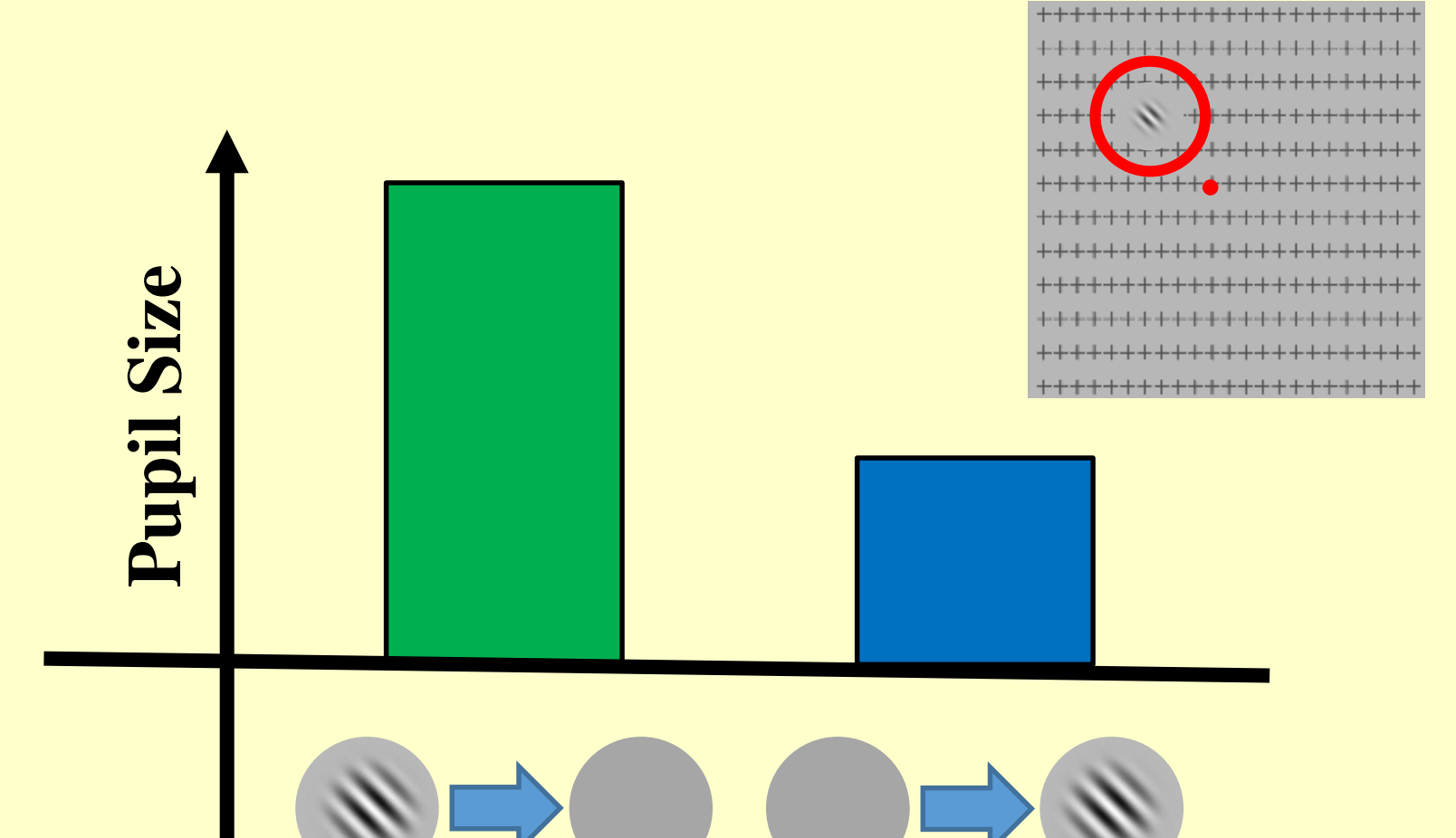
Ellis, 1981

Pupillary responses to percept alternations



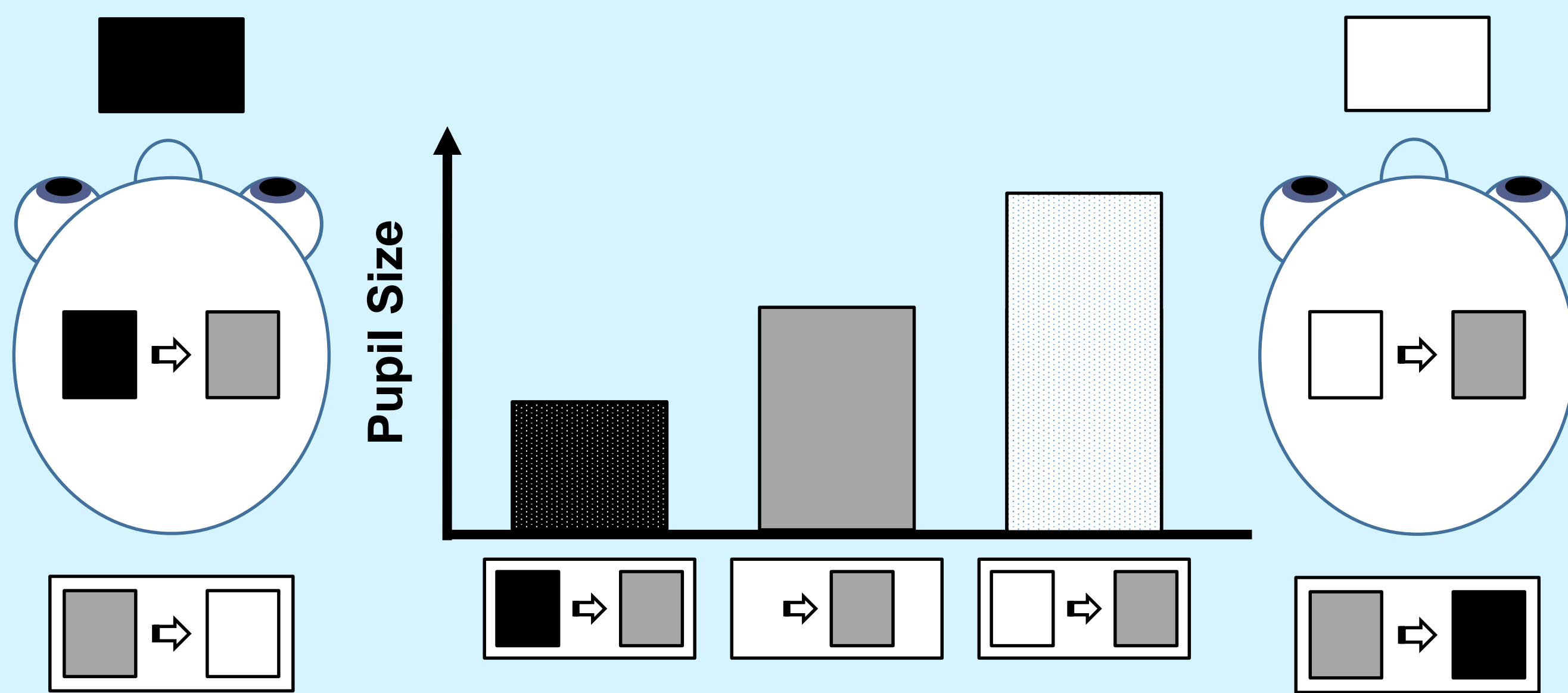
Einhauser et al., 2008

Pupillary responses to subjective changes in visual awareness -

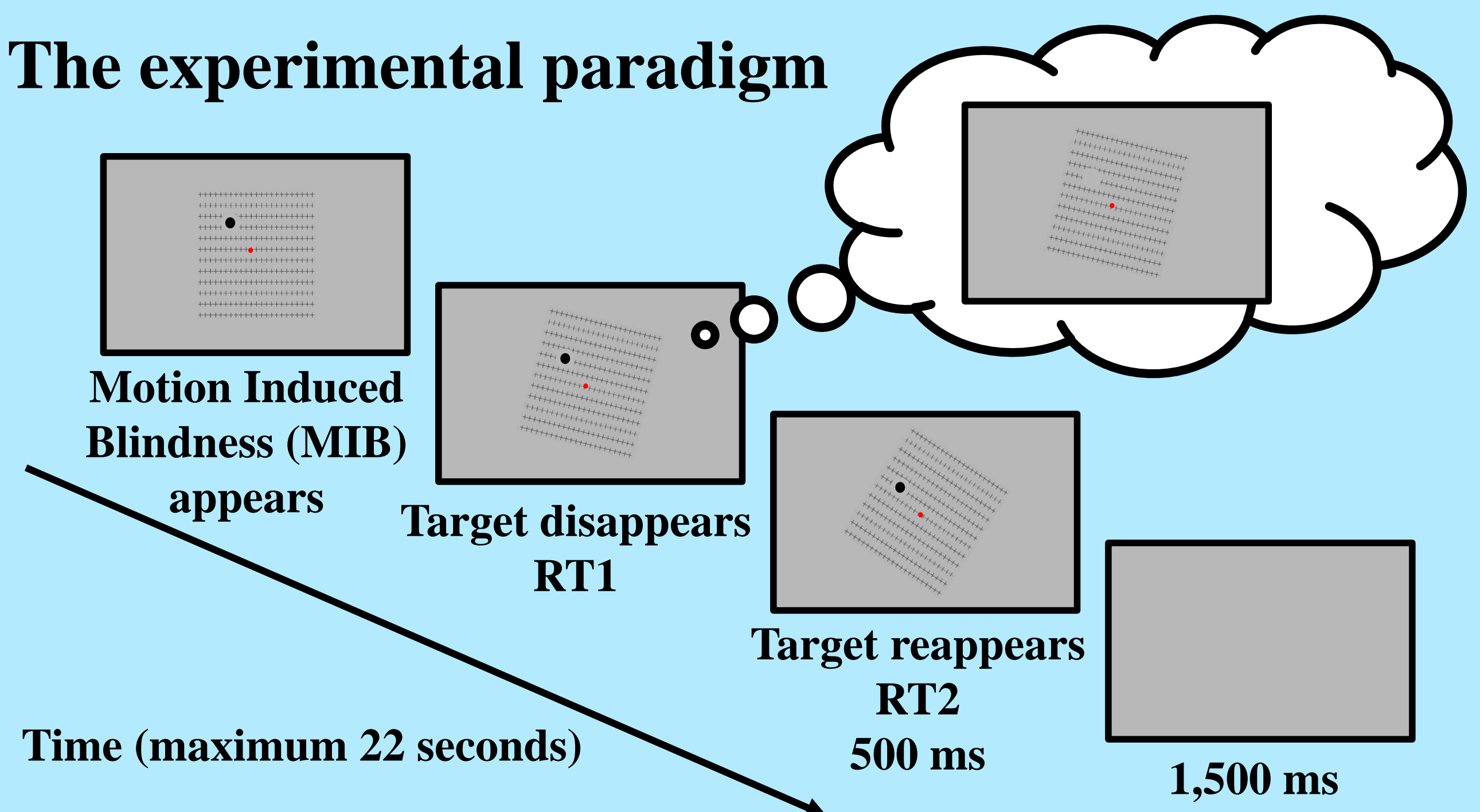


Kloosterman et al., 2015

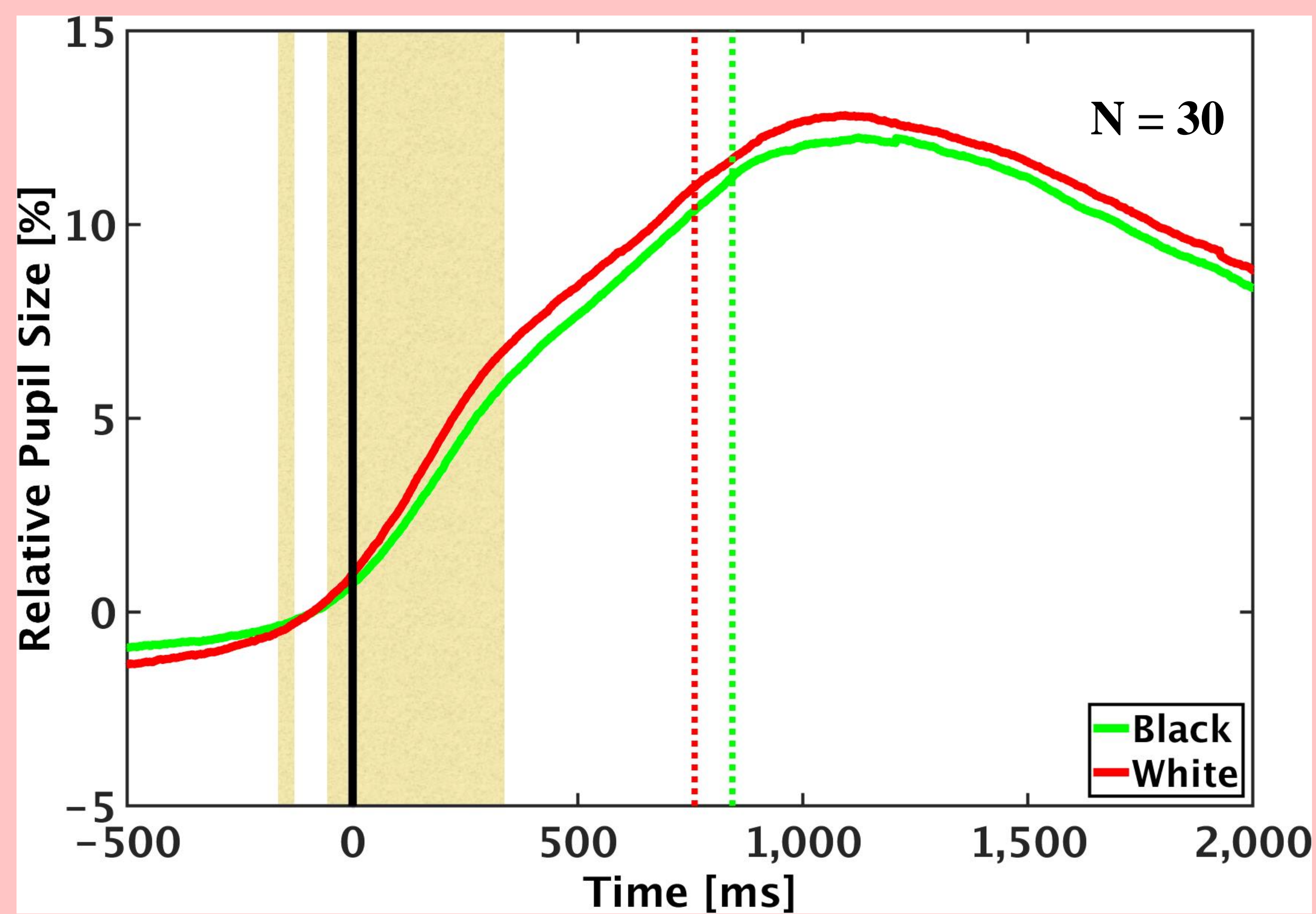
Pupillary responses to content of visual awareness



The experimental paradigm

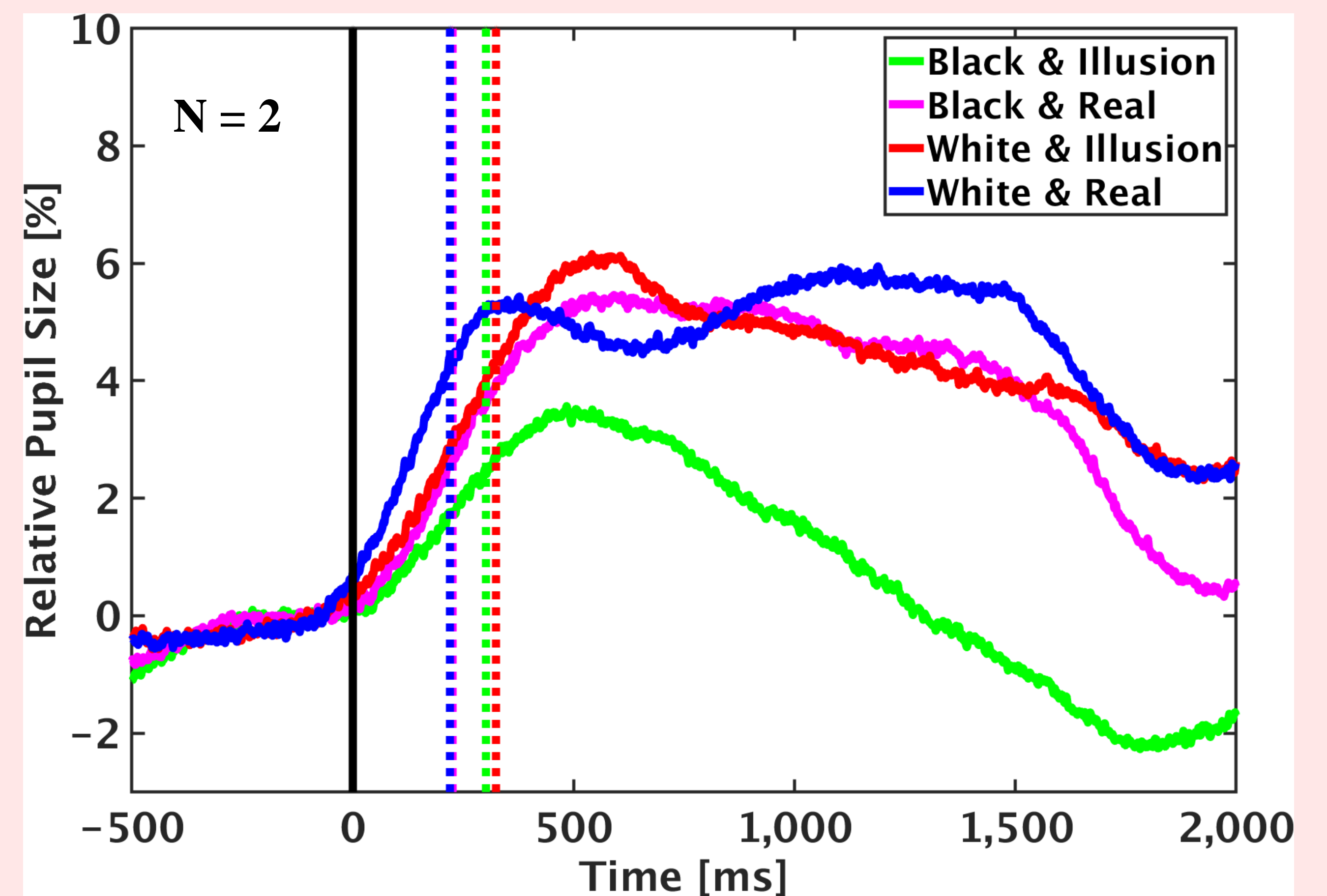


Results - Exp. 1



Shaded area represents $BF_{10} > 3$

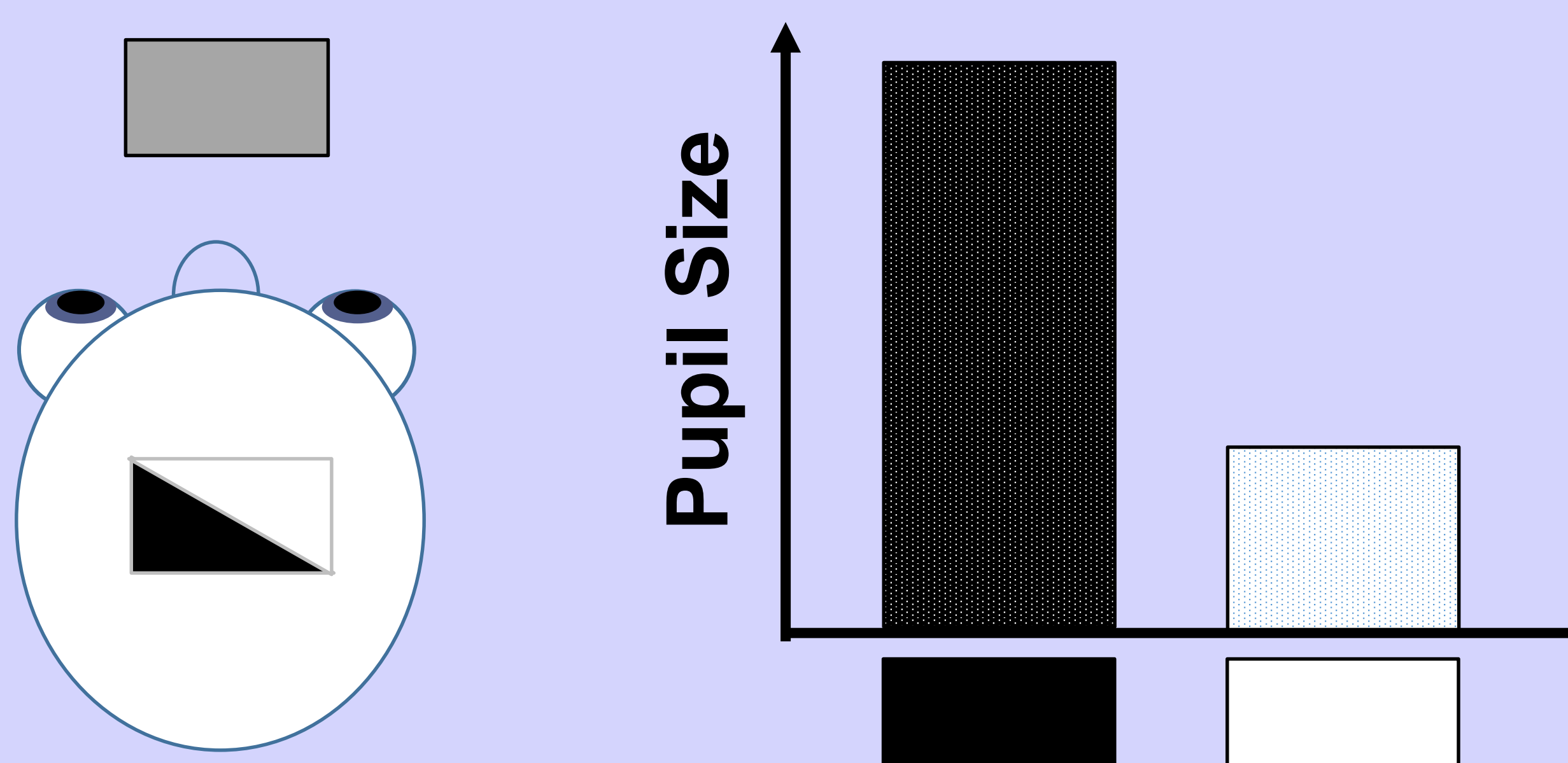
Preliminary results - Exp. 2



2 blocks

- Illusory disappearances - same as Exp. 1
- Real disappearances – based on block 1

What does it mean?



For more information

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Read it online



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- Kloosterman, N. A., Meindertsma, T., van Loon, A. M., Lamme, V. A., Bonneh, Y. S., & Donner, T. H. (2015). Pupil size tracks perceptual content and surprise. *European Journal of Neuroscience*, 41(8), 1068-1078.