The Robustness of the Colavita Effect in Online Testing

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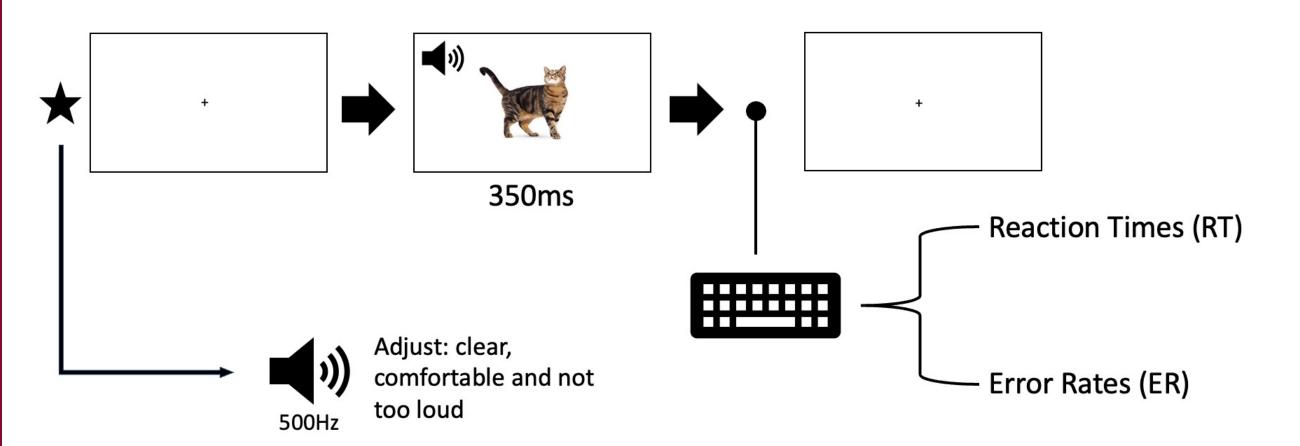
Geneviève Desmarais

BACKGROUND

- The Colavita Effect is the tendency to neglect the auditory component of an audiovisual stimulus (Colavita, 1972)
- The Colavita effect is a robust phenomenon, but has only been tested in traditional lab environments
- If the Colavita can be replicated online, it would validate an online instantiation and add to the robustness found in the literature

METHODS

• 48 undergraduate students (34 females, M_{age} = 20 years)

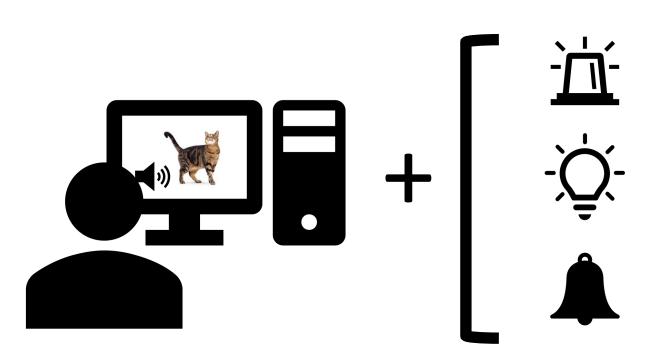


RESULTS

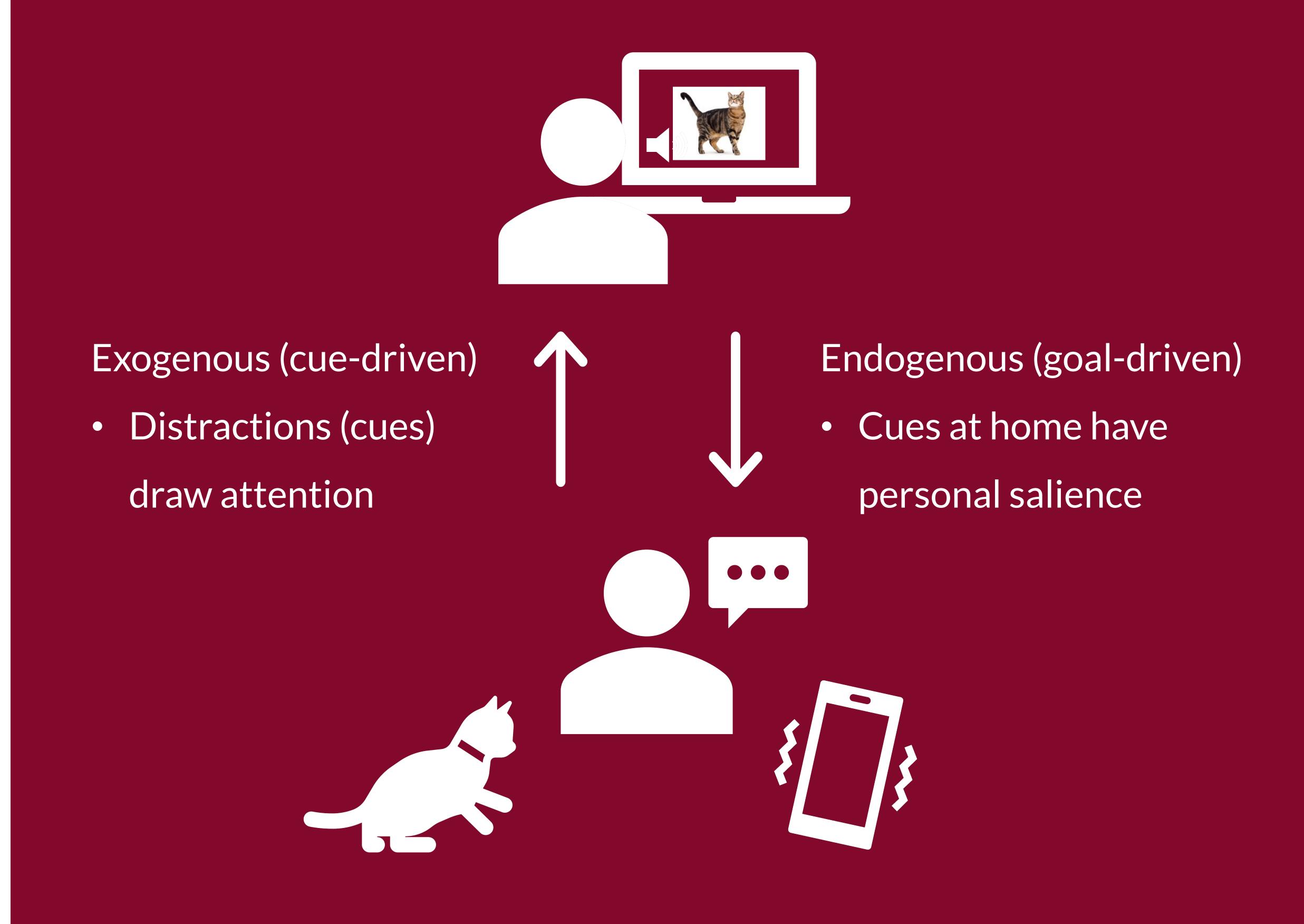
- Poorer performance than seen in the literature
- Slower reaction times, higher error rates
- No Colavita effect

CONCLUSIONS AND FUTURE DIRECTIONS

- We did not observe a Colavita effect
- Poor performance could indicate that participants were distracted in remote environments
- Future directions: Introduce distraction in a controlled environment to try and isolate the effects of distractors



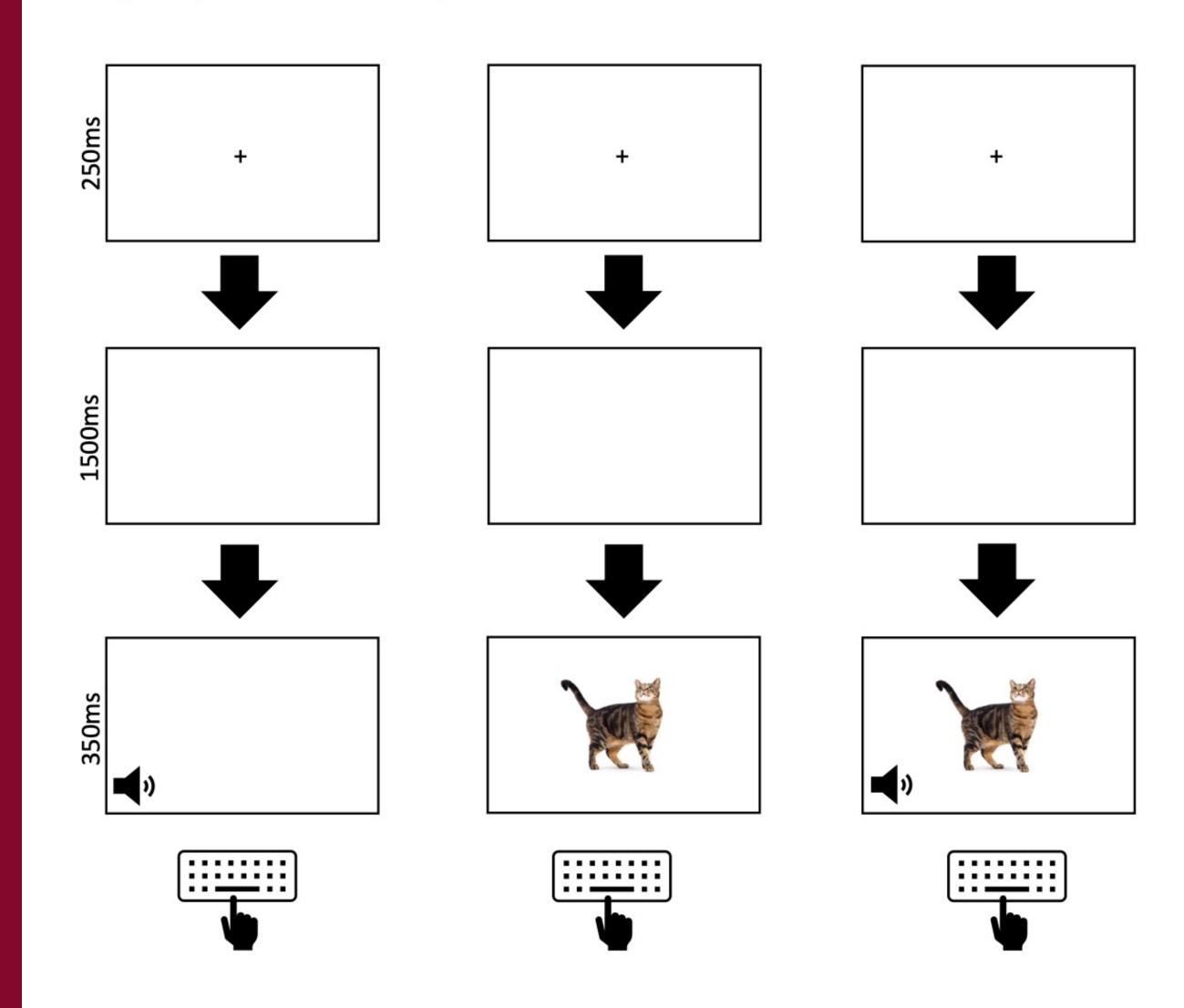
The Colavita Effect was **not replicated** in an online study, and this is likely due to the varying **distractions** imposed by remote environments.



Procedure

Figure 1

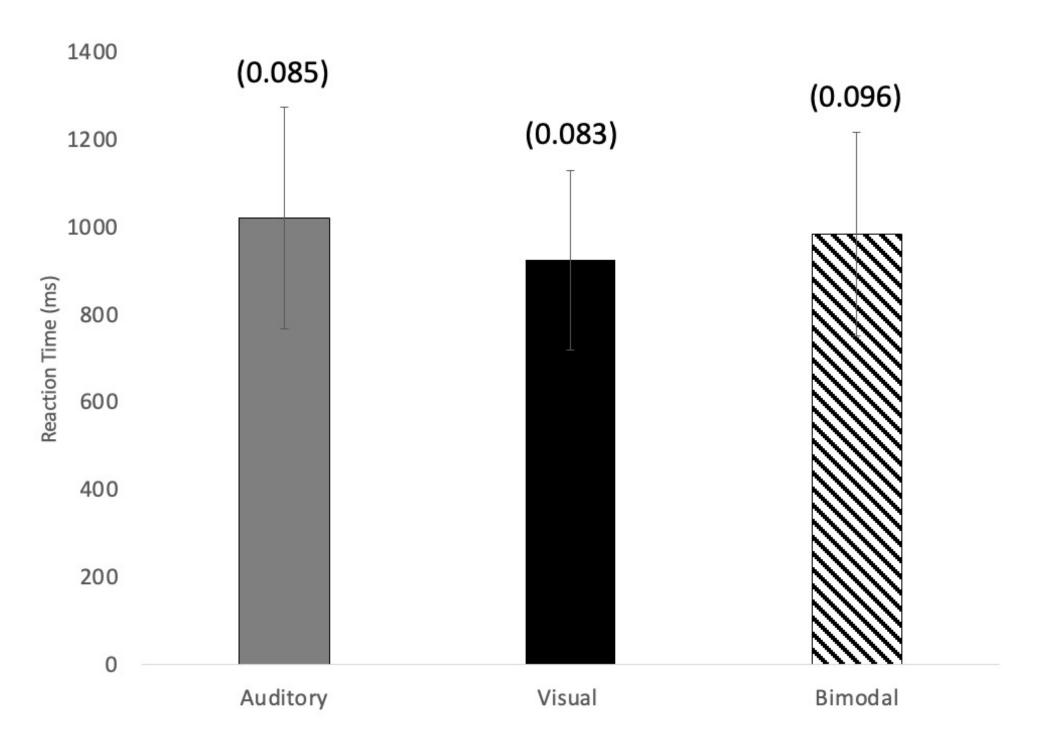
Sequence for the Presentation of Events



Note. Each vertical column represents a trial. The left, middle and right columns are the sequence of events seen by participants on auditory trials, visual trials, and audiovisual trials; respectively.

Results

- Reaction time (BF₁₀ = 78.94)
- Slower for auditory trials (M = 1022.83, SD = 253.78) than visual trials (M = 926.38, SD = 205.07), BF₁₀ = 78.90
- Error rate ($BF_{01} = 12.53$)
- No more errors for bimodal trials than for unimodal trials



Attention and Distraction in Remote Environments

 Remote environments are detrimental to performance as they introduce distraction, and we are more likely to orient ourselves to them; thus, drawing on both attentional systems.

