

# Effects of Progress Bar Speed on Apparent Duration

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## Motivation

What affects perception of time?

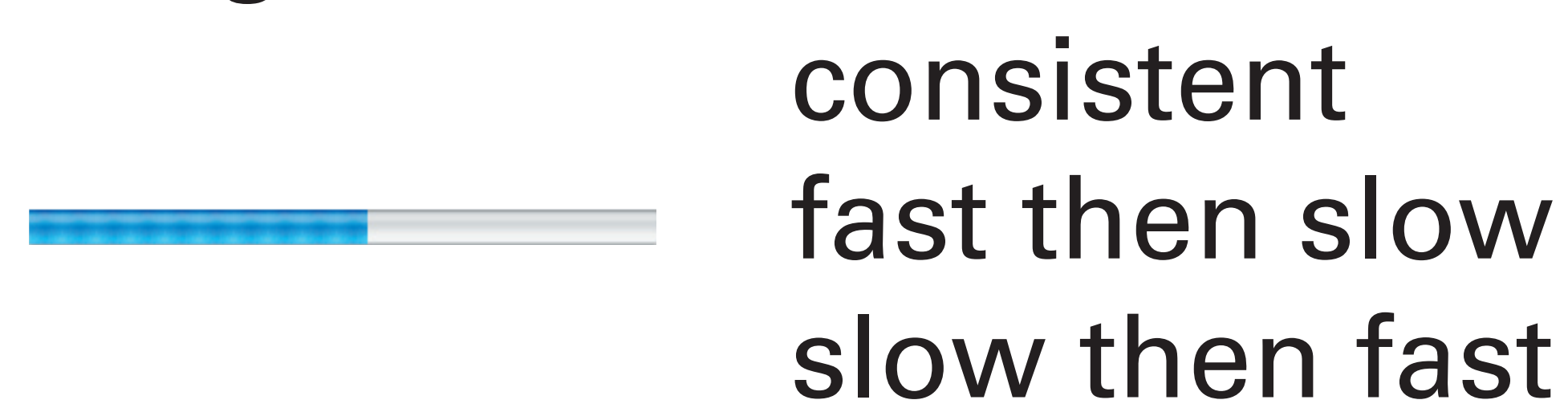
Does a progress bar help perception of time or interfere with it?

Effect of change in expected duration (manipulated by progress bar with changing speeds) on perceived duration

## Design

The factors

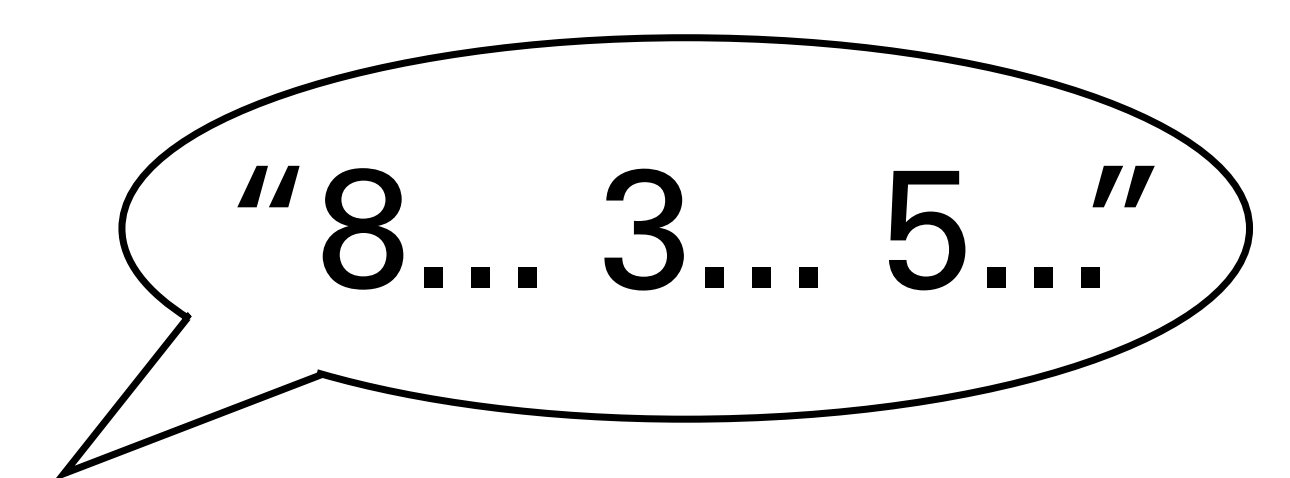
- Duration: 5 sec. and 10 sec.
- Progress bar: none



Response: reproduction of task duration.

Concurrent summation task to interfere with counting

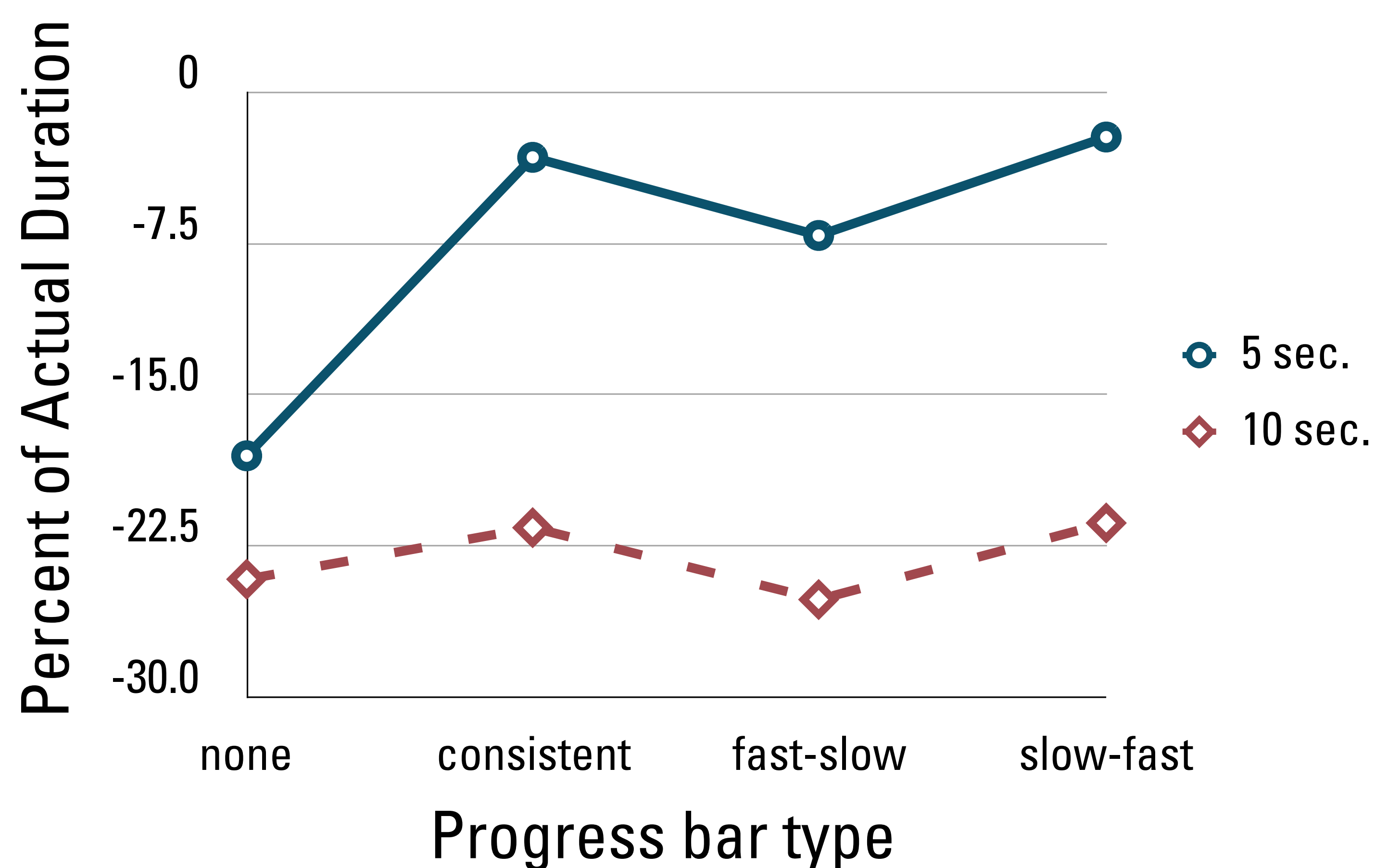
- Auditory stimuli
- 1 through 9
- Interval between stimuli random between 0 and 5 sec.



Response: total sum's last digit.

## Results

Error of Duration Estimates



People were more accurate at estimating the 5-second duration when they had a progress bar.

- 10 sec. estimated proportionally shorter than 5 sec.
- "None" condition estimated shorter than other progress bar conditions for the 5 sec. duration condition.

## Conclusion

Attending to moving progress bar increases attention to temporal task.

Thus, perceived duration of task accumulates more time pulses (attentional gate model) and so is estimated longer.

We suspect lack of power to show significant differences between progress bar types (the effect of change of expected duration on perceived duration).