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**First Author · Second Author**

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### 1 Introduction

Target Contrast Signal Theory: "precise mathematical model that allows one to make specific point predictions about how components of visual complexity combine to impact human performance".

Model predicts search performance in heterogeneous scenes based on parameters estimated in homogeneous scenes.

Buetti (2019): Parallel search efficiency (logarithmic search slope) to find target amongst homogeneous distractors estimated: different colours (red target in orange, blue, yellow distractors) or shapes (semicircle target in circle, diamond, triangle distractors) tested. New group of participants searched for same target in heterogeneous displays that contained multiple types of distractors (e.g. blue circles, orange diamonds, yellow triangles). Observed RTs in latter experiment compared to predicted reaction times from model.

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Current extension ideas:

- Direct replication, online? (Maybe with different colours/shapes?)
- Extend number of distractors
- Different classes of stimuli?
- Within subject predictions? (This maybe can form part of the other points?)

Do we want to also re-analyse any of their data? Incorporating accuracy?

## References

1. Author, Article title, Journal, Volume, page numbers (year)
2. Author, Book title, page numbers. Publisher, place (year)