Interference Model for Change Detection Task

[Author Name(s), First M. Last, Omit Titles and Degrees]

[Institutional Affiliation(s)]

Author Note

[Include any grant/funding information and a complete correspondence address.]

Abstract

[The abstract should be one paragraph of between 150 and 250 words. It is not indented. Section titles, such as the word Abstract above, are not considered headings so they don’t use bold heading format. Instead, use the Section Title style. This style automatically starts your section on a new page, so you don’t have to add page breaks. Note that all of the styles for this template are available on the Home tab of the ribbon, in the Styles gallery.]

Keywords: [Click here to add keywords.]

Interference Model for Change Detection Task

Aaaaa.

# Experiment 1

The goal of Experiment 1 is to acquire the data for model comparison. The experiment was design to match the inference rule as close as possible, thus, the sampling processes for *change* and *no change* conditions are identical to what the inference rule assumed. The probe color for the *no change* condition was identical to the target color, and the probe color for the change condition was randomly choose from any colors that is not target color with equal probability. Also, the probability of *change* and *no change* condition are equal. With the experiment condition matching the inference rule assumption, the result of Experiment 1 would ensure that the model comparison reflects on the core models instead of the inference rule.

## Method

### Participants

Twenty participants were recruited from University of Zurich. Participants had normal or corrected-to-normal vision and no colorblind. Participants were rewarded with course credits or 60 Swiss Francs after completing the experiment.

### Material

Color patches randomly selected from a color wheel which was created in CIE L\*a\*b\* color space with a radius of 60 and centered at luminance set to 70, *a* set to 20, and *b* set to 38. The minimum distance between selected colors is 1 degree. The stimuli were displayed in RGB value with Gamma correction for IEC 61966-2-1 standard.

### Procedure

The experiment consisted of four identical sessions on different days, and each session took about one hour to complete. At the beginning of each trial, several color patches were displayed on the screen for 500ms, which was followed by a blank screen for 500ms. The locations of the color patches were randomly selected from 13 possible locations on an invisible circle which centered at the center of screen. After the blank screen, a probe was displayed on one of the stimuli locations, and empty frames were displayed on the rest of the stimuli locations. Participants were asked to judge if the probe is the same color as the

References

Last Name, F. M. (Year). Article Title. *Journal Title*, Pages From - To.

Last Name, F. M. (Year). *Book Title.* City Name: Publisher Name.

Footnotes

1[Add footnotes, if any, on their own page following references. For APA formatting requirements, it’s easy to just type your own footnote references and notes. To format a footnote reference, select the number and then, on the Home tab, in the Styles gallery, click Footnote Reference. The body of a footnote, such as this example, uses the Normal text style. (Note: If you delete this sample footnote, don’t forget to delete its in-text reference as well. That’s at the end of the sample Heading 2 paragraph on the first page of body content in this template.)]

Tables

Table 1

[Table Title]

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Head | Column Head | Column Head | Column Head | Column Head |
| Row Head | 123 | 123 | 123 | 123 |
| Row Head | 456 | 456 | 456 | 456 |
| Row Head | 789 | 789 | 789 | 789 |
| Row Head | 123 | 123 | 123 | 123 |
| Row Head | 456 | 456 | 456 | 456 |
| Row Head | 789 | 789 | 789 | 789 |

Note: [Place all tables for your paper in a tables section, following references (and, if applicable, footnotes). Start a new page for each table, include a table number and table title for each, as shown on this page. All explanatory text appears in a table note that follows the table, such as this one. Use the Table/Figure style, available on the Home tab, in the Styles gallery, to get the spacing between table and note. Tables in APA format can use single or 1.5 line spacing. Include a heading for every row and column, even if the content seems obvious. A default table style has been setup for this template that fits APA guidelines. To insert a table, on the Insert tab, click Table.]

Figures title:

Figure 1. [Include all figures in their own section, following references (and footnotes and tables, if applicable). Include a numbered caption for each figure. Use the Table/Figure style for easy spacing between figure and caption.]

For more information about all elements of APA formatting, please consult the APA Style Manual, 6th Edition.