Codebook

Perceptual similarity mostly ignores within-category feature distributions: Evidence from computational modeling of human categorizations

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1 Data files included in `data/processed`

`excluded_study1.csv`	the excluded subjects from study 1
`excluded_study2.csv`	the excluded subjects from study 2
`study1.csv`	the main subjects from study 1
`study2.csv`	the main subjects from study 2

2 Description of the variables in the data files

All data files include the same variables.

`subj`
Type: Factor
Description: Subject identifier; 4-character code with study prefix ("s1"/"s2") and two-digit subject number.
Example values: s101 (denotes subject 01 from study 1), s243

`phase`
Type: Factor
Description: Experimental phase.
Levels: "learn" (supervised learning phase), "transfer" (unsupervised transfer phase), "filler" (unsupervised phase with filler stimuli)

`trial`
Type: Integer
Description: Trial number within subject.
Note: Maximal trial number depends on the study and the number of learning trials needed

`stim`
Type: Factor
Description: Stimulus identifier; 3-character code with stimulus type prefix ("L" for learning stimuli, "T" for transfer stimuli, "F" for filler stimuli) and stimulus identification number.
Example values: L17, T2, F3

`stim_type` **Type:** Factor
Description: Type of stimulus shown.
Levels: "learn", "transfer", "filler"
Note: Not identical to `phase` (`stim_type` can be "learn" when `phase` is "transfer", meaning a learning stimulus was shown in the transfer phase).

`f1` **Type:** Numeric
Description: Feature 1 value of the stimulus (continuous).
Example values: -7.29, 0.13, 5.80

`f2` **Type:** Numeric
Description: Feature 2 value of the stimulus (continuous).
Example values: -5.58, 0.67, 6.38

`c` **Type:** Logical
Description: Binary category (ground truth) of the stimulus.
Values: 0, 1, `NA` when `stim_type` is "transfer" or "filler"

`resp` **Type:** Logical
Description: Binary category response of the subject.
Values: 0, 1

`corr` **Type:** Logical
Description: Correctness of the response.
Values: 1 = correct (i.e., `resp == c`), 0 = incorrect (i.e., `resp != c`), `NA` for transfer and filler trials without a true category label `c`.

`rt` **Type:** Numeric
Description: Reaction time in seconds.
Examples: 0.59, 2.10, 9.02

`f1_is` **Type:** Factor
Description: Mapping of mathematical features (feature 1 and feature 2) onto visual features (circle size and line orientation); randomized across subjects.
Levels: *size*, **angle**

`e_is` **Type:** Factor
Description: Mapping of response keys (e or i) to abstract category `c` (0 or 1); randomizred across subjects.
Values: 0, 1