

[Magic Stones] Report for Experiment 2 - Reverse Order

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- Age: min 23, max 65, mean 39.0563, sd 11.161
- Gender: female 28 (39.44%), male 42 (59.15%), noresponse 1.

Condition	Description	Count	Task dur. mean (min.)	S-Dfty. mean
1	Agent shape + self color	10	4.16	3.8
2	New shape + self color	12	4.62	4.42
3	Agent color + self shape	9	6.22	4.11
4	New color + self shape	7	7.27	6.29
5	Agent color + agent shape	10	5.40	5
6	Agent color + new shape	12	4.12	3.75
7	New color + new shape	11	6.55	5.73
Total		71		

Table 1: Basic stats per condition. S-Dfty.: Self-report difficulty. *: Same color + diff shape.

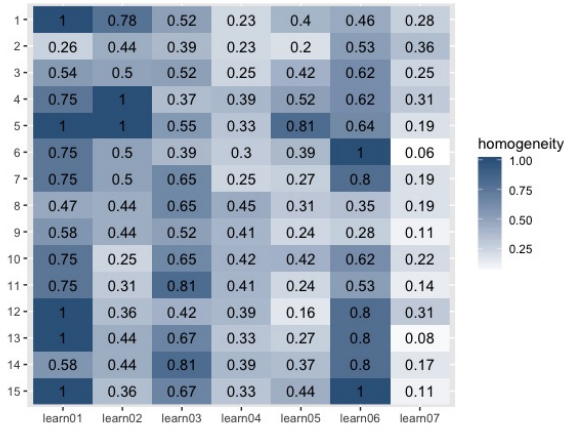
Homogeneity

Homogeneity is defined as a scaled variance of selection frequency. Homogeneity H for a trial t_i for condition C is calculated by

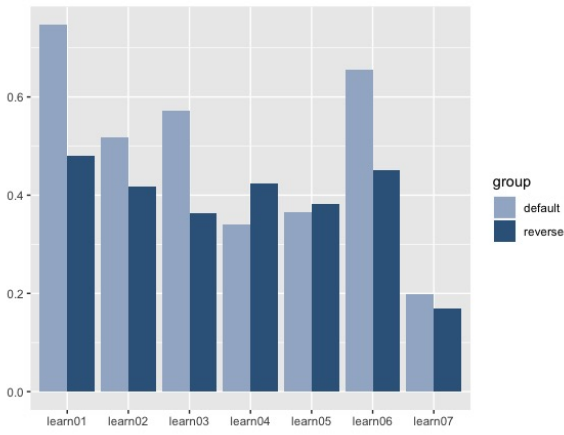
$$var(\{\frac{n_{t_i}}{\sum_{i=1}^{15} n_{t_i}} | t_i \in C\}) / var(M)$$

where $M = \{1, 0, \underbrace{\dots}_{14}, 0\}$

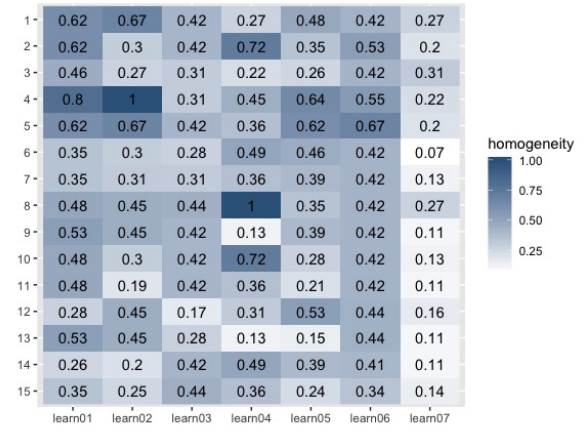
Condition	Description	Default	Reverse
01	Agent shape + self color	.7469	.4795
02	New shape + self color	.5185	.4177
03	Agent color + self shape	.5710	.3629
04	New color + self shape	.3406	.4244
05	Agent color + new shape	.3662	.3820
06	Agent color + agent shape	.6550	.4500
07	New color + new shape	.1981	.1694



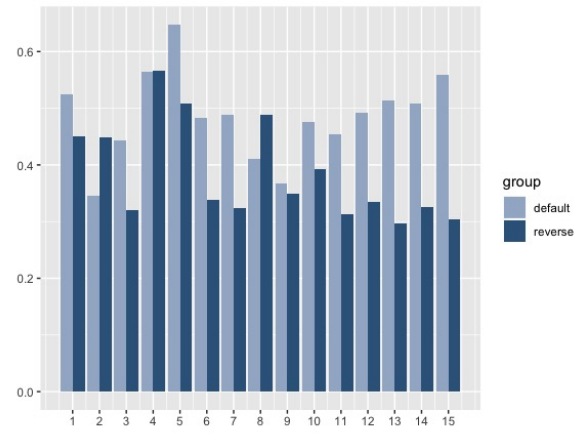
(a) Individual - default order



(c) Aggregated by conditions



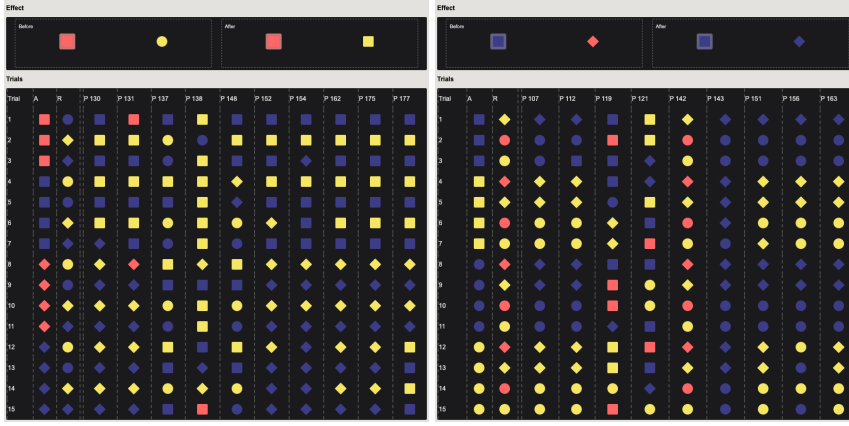
(b) Individual - reverse order



(d) Aggregated by tasks

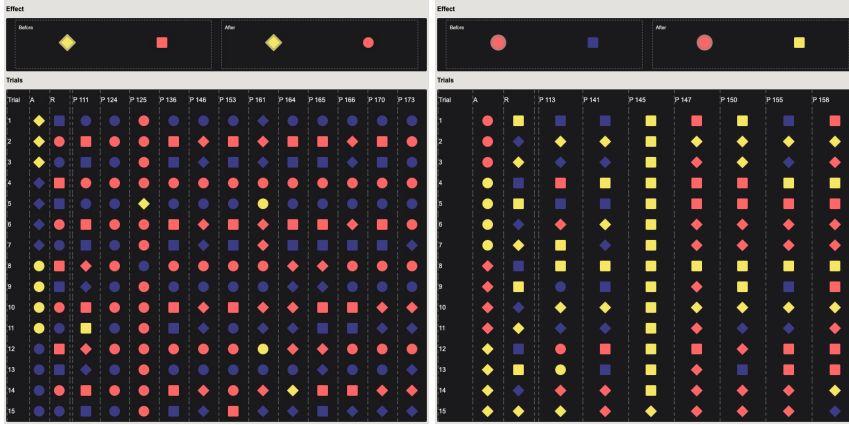
Figure 1: Homogeneity.

Raw data



(a) Agent shape + Self color

(b) Agent color + Self shape



(c) New shape + self color

(d) New color + self shape



(e) Agent color + Agent shape

(f) Agent color + new shape

(g) New color + new shape

Figure 2: Each figure is for one learning condition. Each learning condition has 15 trials (15 rows).