Description and choice data for the domain "Music"

Description of the choice domain 11, `Music`

The prompt question and the universe of five response options in the choice domain `Music` are as follows. The labels a, b, c, d and e were not displayed during the experiment and are indicated here to allow cross-referencing with data tables and visualizations below and results in the paper.

% Musical artists

The choice objects in this domain are the top selling musical artists of all time, according to Wikipedia. They should be familiar to a large majority of respondents.

> Which one of the following musical artists do you like the best?
> - The Beatles
> - Elvis Presley
> - Michael Jackson
> - Madonna
> - Elton John

The following figure is a screenshot from the actual experiment, with one of the 26 possible menus for this domain.

Musical artists

Which one of the following musical artists do you like best?

○ Michael Jackson

○ The Beatles

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Figure 1: Screenshot for domain Music

Menu A	Choice counts					Choice proportions				
	$N_A(a)$	$N_A(b)$	$N_A(c)$	$N_A(d)$	$N_A(e)$	$\hat{P}_A(a)$	$\hat{P}_A(b)$	$\hat{P}_A(c)$	$\hat{P}_A(d)$	$\hat{P}_A(e)$
$\{a,b\}$	29	11	-	-	-	0.725	0.275	-	-	-
$\{a,c\}$	26	-	14	-	-	0.650	-	0.350	-	-
$\{b,c\}$	-	23	17	-	-	-	0.575	0.425	-	-
$\{a,b,c\}$	19	8	13	-	-	0.475	0.200	0.325	-	-
$\{a,d\}$	26	-	-	14	-	0.650	-	-	0.350	-
$\{b,d\}$	-	27	-	13	-	-	0.675	-	0.325	-
$\{a,b,d\}$	22	13	-	5	-	0.550	0.325	-	0.125	-
$\{c,d\}$	-	-	26	14	-	-	-	0.650	0.350	-
$\{a,c,d\}$	25	-	7	8	-	0.625	-	0.175	0.200	-
$\{b,c,d\}$	-	21	11	8	-	-	0.525	0.275	0.200	-
$\{a,b,c,d\}$	19	8	11	2	-	0.475	0.200	0.275	0.050	-
$\{a,e\}$	25	-	-	-	15	0.625	-	-	-	0.375
$\{b,e\}$	-	22	-	-	18	-	0.550	-	-	0.450
$\{a,b,e\}$	15	11	-	-	14	0.375	0.275	-	-	0.350
$\{c,e\}$	-	-	22	-	18	-	-	0.550	-	0.450
$\{a,c,e\}$	24	-	8	-	8	0.600	-	0.200	-	0.200
$\{b,c,e\}$	-	9	14	-	18	-	0.220	0.341	-	0.439
$\{a,b,c,e\}$	15	5	14	-	6	0.375	0.125	0.350	-	0.150
$\{d,e\}$	-	-	-	13	27	-	-	-	0.325	0.675
$\{a,d,e\}$	20	-	-	7	13	0.500	-	-	0.175	0.325
$\{b,d,e\}$	-	15	-	9	16	-	0.375	-	0.225	0.400
$\{a,b,d,e\}$	20	5	-	5	10	0.500	0.125	-	0.125	0.250
$\{c,d,e\}$	-	-	17	4	19	-	-	0.425	0.100	0.475
$\{a,c,d,e\}$	14	-	10	4	12	0.350	-	0.250	0.100	0.300
$\{b,c,d,e\}$	-	12	11	3	15	-	0.293	0.268	0.073	0.366
$\{a,b,c,d,e\}$	12	9	12	2	5	0.300	0.225	0.300	0.050	0.125

Table 1: Observed choice counts and proportions.

Choice data for domain 11, Music

Table 1 shows choice counts and choice proportions for this choice domain. For each menu A and each object $x \in \{a, b, c, d, e\}$, $N_A(x)$ is the number of participants who chose object x from menu A and $\hat{P}_A(x)$ is the corresponding proportion of participants who chose x from A. When $x \notin A$, a dash is displayed.

The following figure displays choice proportions for all doubleton and tripleton menus in Barycentric coordinates. See a full description of this graphical representation in the paper. Each panel shows choice proportions for all doubleton and tripleton menus of a different tripleton subset of $\{a, b, c, d, e\}$. The downward-pointed (blue) triangle shows the set of ternary choice proportions that are compatible with regularity and the three binary choice proportions, on the corresponding tripleton. The upward-pointed (red) triangle shows the set of ternary choice proportions compatible with the multiplicative inequality and the three binary choice proportions.

```
## Warning in tritrafo(x, y, z): negative components
## Warning in tritrafo(x, y, z): negative components
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```