

Statistical analysis of overall probability distributions

Purpose

Table 1 provides a statistical analysis of the overall probability distributions for the purpose categories.

Table 1: Statistical analysis of the overall probability distributions for the purpose categories. Lengths in millimetres, times in seconds.

Purpose	N^k	V	r	x	y
Leisure	38501	1096 ± 1.3 ($\sigma=251$)	799 ± 1.6 ($\sigma=309$)	630 ± 1.2 ($\sigma=236$)	360 ± 2 ($\sigma=388$)
Work	18936	1257 ± 1.7 ($\sigma=235$)	834 ± 2.1 ($\sigma=287$)	714 ± 1.6 ($\sigma=227$)	315 ± 2.5 ($\sigma=341$)
$F_{1,57435}$		5400	169	1640	184
p		$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$
R^2		0.0859	0.00293	0.0278	0.00319
δ		0.652	0.115	0.36	0.12

Relation

Table 2 provides a statistical analysis of the overall probability distributions for the relation categories.

Table 2: Statistical analysis of the overall probability distributions for the relation categories. Lengths in millimetres, times in seconds.

Relation	N^k	V	r	x	y
Colleagues	18172	1262 ± 1.7 ($\sigma=234$)	840 ± 2.2 ($\sigma=290$)	720 ± 1.7 ($\sigma=229$)	317 ± 2.6 ($\sigma=344$)
Couples	5273	1085 ± 3.2 ($\sigma=231$)	699 ± 3.7 ($\sigma=271$)	584 ± 2.6 ($\sigma=188$)	290 ± 4.4 ($\sigma=318$)
Families	12596	1072 ± 2.2 ($\sigma=246$)	834 ± 3.2 ($\sigma=357$)	592 ± 2.3 ($\sigma=260$)	452 ± 4 ($\sigma=447$)
Friends	17634	1113 ± 2 ($\sigma=260$)	788 ± 2 ($\sigma=265$)	659 ± 1.6 ($\sigma=214$)	312 ± 2.5 ($\sigma=338$)
$F_{3,53671}$		1940	362	975	485
p		$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$
R^2		0.0978	0.0198	0.0517	0.0264
δ		0.795	0.493	0.614	0.392

Gender

Table 3 provides a statistical analysis of the overall probability distributions for the relation categories.

Age

Table 4 provides a statistical analysis of the overall probability distributions for the minimum age ranges.

Table 3: Statistical analysis of the overall probability distributions for the gender categories. Lengths in millimetres, times in seconds.

Gender	N^k	V	r	x	y
Two females	14688	1075 ± 2.1 ($\sigma=251$)	773 ± 2.2 ($\sigma=268$)	647 ± 1.7 ($\sigma=202$)	302 ± 2.9 ($\sigma=346$)
Mixed	19311	1098 ± 1.7 ($\sigma=239$)	803 ± 2.4 ($\sigma=334$)	614 ± 1.8 ($\sigma=248$)	388 ± 3 ($\sigma=411$)
Two males	23516	1237 ± 1.6 ($\sigma=249$)	839 ± 1.9 ($\sigma=292$)	702 ± 1.6 ($\sigma=239$)	337 ± 2.3 ($\sigma=355$)
$F_{2,57512}$		2570	225	791	232
p		$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$
R^2		0.0822	0.00778	0.0268	0.008
δ		0.647	0.233	0.365	0.224

Table 4: Statistical analysis of the overall probability distributions for the minimum age ranges. Lengths in millimetres, times in seconds.

Minimum age	N^k	V	r	x	y
0-9 years	1041	1127 ± 8.4 ($\sigma=272$)	983 ± 15 ($\sigma=480$)	573 ± 9.5 ($\sigma=306$)	663 ± 18 ($\sigma=580$)
10-19 years	3443	1110 ± 5.2 ($\sigma=303$)	767 ± 5.1 ($\sigma=298$)	626 ± 3.8 ($\sigma=222$)	322 ± 6.2 ($\sigma=364$)
20-29 years	18679	1167 ± 1.8 ($\sigma=240$)	788 ± 2.1 ($\sigma=289$)	665 ± 1.6 ($\sigma=223$)	301 ± 2.6 ($\sigma=349$)
30-39 years	15552	1179 ± 2.1 ($\sigma=264$)	816 ± 2.4 ($\sigma=294$)	667 ± 2 ($\sigma=248$)	343 ± 2.9 ($\sigma=357$)
40-49 years	7974	1167 ± 2.7 ($\sigma=242$)	838 ± 3.3 ($\sigma=296$)	668 ± 2.7 ($\sigma=243$)	374 ± 4.2 ($\sigma=378$)
50-59 years	6025	1153 ± 3.3 ($\sigma=253$)	812 ± 3.7 ($\sigma=284$)	653 ± 2.9 ($\sigma=223$)	358 ± 4.7 ($\sigma=367$)
60-69 years	3969	1001 ± 3.5 ($\sigma=219$)	836 ± 5.4 ($\sigma=340$)	643 ± 3.8 ($\sigma=242$)	409 ± 6.7 ($\sigma=419$)
≥ 70 years	832	877 ± 6 ($\sigma=172$)	793 ± 13 ($\sigma=363$)	599 ± 7.8 ($\sigma=224$)	383 ± 16 ($\sigma=453$)
$F_{7,57507}$		400	89.1	46.7	175
p		$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$
R^2		0.0464	0.0107	0.00566	0.0208
δ		1.16	0.619	0.382	0.991

Height

Table 5 provides a statistical analysis of the overall probability distributions for the minimum height ranges.

Table 5: Statistical analysis of the overall probability distributions for the minimum height ranges. Lengths in millimetres, times in seconds.

Minimum height	N^k	V	r	x	y
< 140 cm	1579	1127 ± 6.9 ($\sigma=274$)	942 ± 11 ($\sigma=457$)	605 ± 7.6 ($\sigma=300$)	578 ± 14 ($\sigma=553$)
140-150 cm	2206	1032 ± 6.7 ($\sigma=315$)	855 ± 8 ($\sigma=374$)	644 ± 5.3 ($\sigma=248$)	420 ± 10 ($\sigma=468$)
150-160 cm	13064	1076 ± 2.2 ($\sigma=251$)	779 ± 2.5 ($\sigma=281$)	628 ± 1.8 ($\sigma=209$)	337 ± 3.2 ($\sigma=365$)
160-170 cm	26345	1151 ± 1.5 ($\sigma=245$)	810 ± 1.9 ($\sigma=306$)	655 ± 1.5 ($\sigma=243$)	348 ± 2.3 ($\sigma=374$)
170-180 cm	13497	1234 ± 2.1 ($\sigma=243$)	819 ± 2.3 ($\sigma=269$)	700 ± 2 ($\sigma=232$)	309 ± 2.8 ($\sigma=323$)
> 180 cm	824	1224 ± 9.3 ($\sigma=268$)	823 ± 11 ($\sigma=325$)	686 ± 8.1 ($\sigma=234$)	309 ± 14 ($\sigma=404$)
$F_{5,57509}$		648	102	149	171
p		$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$	$< 10^{-8}$
R^2		0.0533	0.00875	0.0128	0.0146
δ		0.796	0.534	0.398	0.532