Stylebot Experiment

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October 12, 2016

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		1.3.1 Child-parent correlation in functionality preferrence

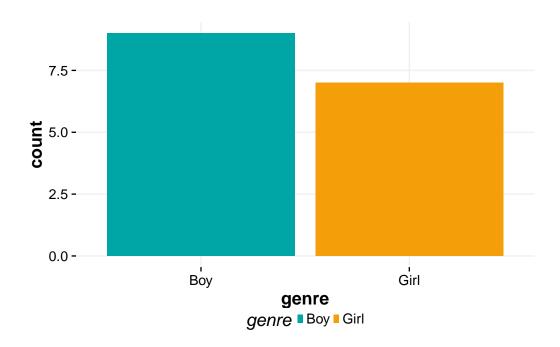
1 Interviews

Table 1: Summary statistics of activities metadata

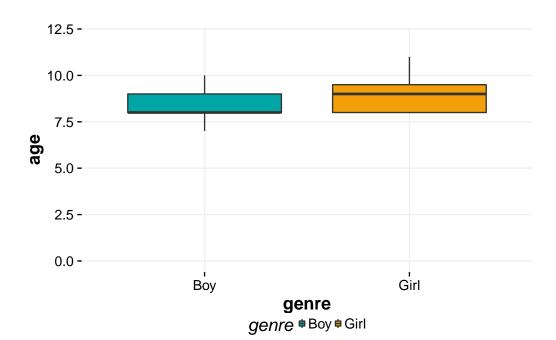
Statistic	N	Mean	St. Dev.	Min	Max
ordre	16	8.500	4.761	1	16
age	16	8.688	1.014	7	11
p_robot	16	3.125	1.258	1	5
p_videogame	16	3.500	1.414	1	5
p_bike	16	2.375	1.310	1	5
p_book	16	2.312	1.138	1	4
$p_clothes$	16	3.688	1.537	1	5
p_homeworks	16	3.375	1.147	1	4
p_play	16	3.562	0.892	1	4
p_teach	16	3.938	0.250	3	4
p_phone	15	1.867	1.302	1	4
$p_{webbrowser}$	15	2.067	1.335	1	4
$prefered_session$	14	1.643	0.497	1	2
e_robot	13	1.077	0.277	1	2
$e_videogame$	13	2.615	1.193	1	5
e_bike	12	3.250	0.965	2	5
e_book	12	3.417	1.379	1	5
$e_clothes$	13	4.308	0.751	3	5
$e_homeworks$	13	3.115	0.650	2.000	4.000
$e_{-}play$	13	3.115	0.618	2.000	4.000
e_rules	12	3.167	0.577	2	4
e_learn	13	3.500	0.577	2.500	4.000
e_sport	12	3.000	0.603	2	4
e_teach	12	3.500	0.674	2	4
$e_outside$	12	2.917	0.900	1	4
e_mood	12	3.375	0.569	2.500	4.000
$e_{-}phone$	13	2.308	1.109	1	4
e_webbrowser	13	2.500	0.957	1.000	4.000

1.1 General

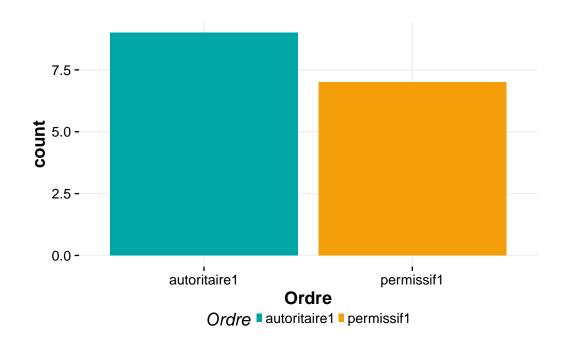
1.1.1 Gender



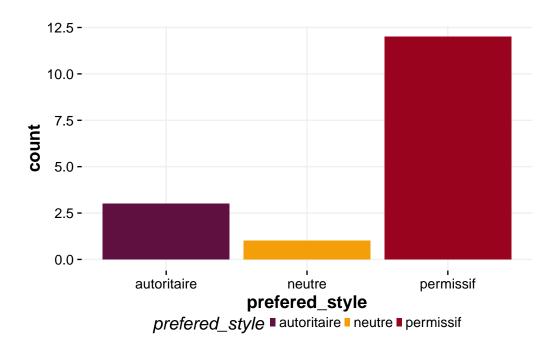
1.1.2 Age



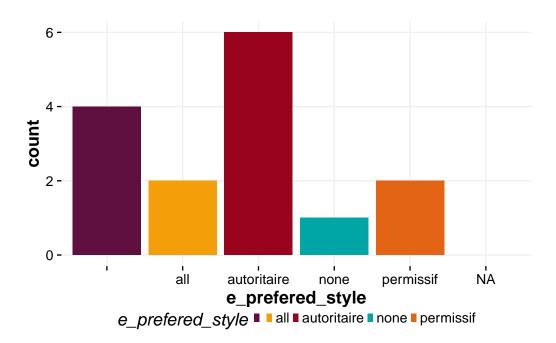
1.1.3 order



1.1.4 Preferred style parent

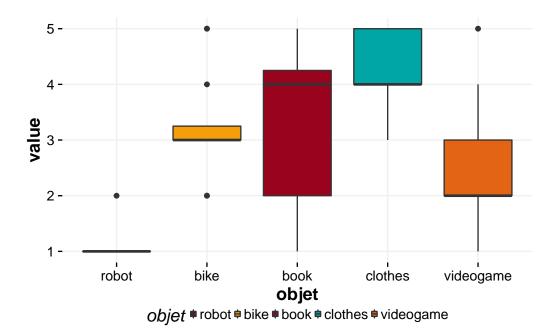


1.1.5 Preferred style children

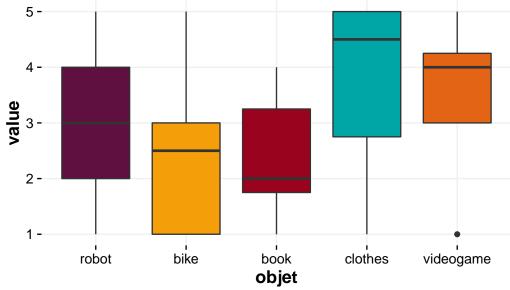


1.2 COIRS - CHILD ORIENTAION IN INTERACTING WITH ROBOT

The following plot shows the average ranking for children for each of the object (1: first in the child's wish list)

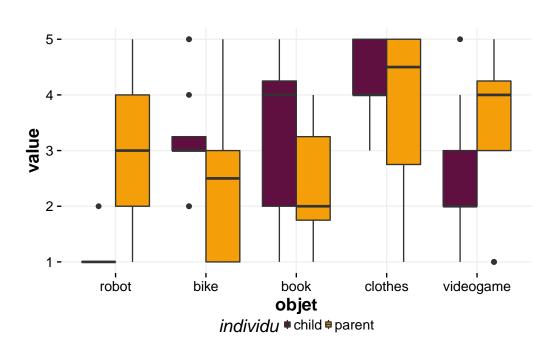


The following plot shows the average ranking for parents for each of the object (1: first in the parent's wish list as



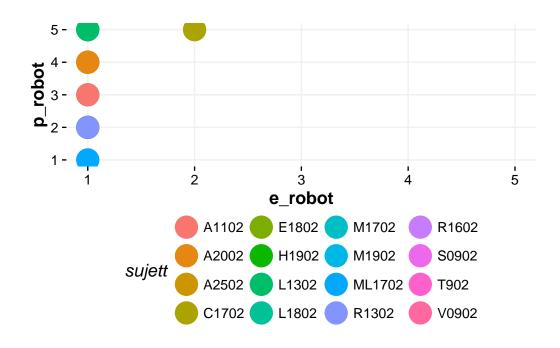
objet ₱ robot ₱ bike ₱ book ₱ clothes ₱ videogame

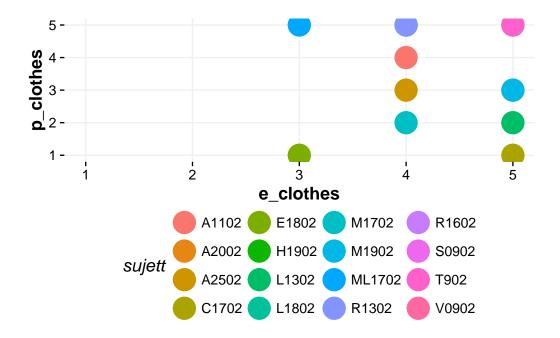
a gift for thei child)

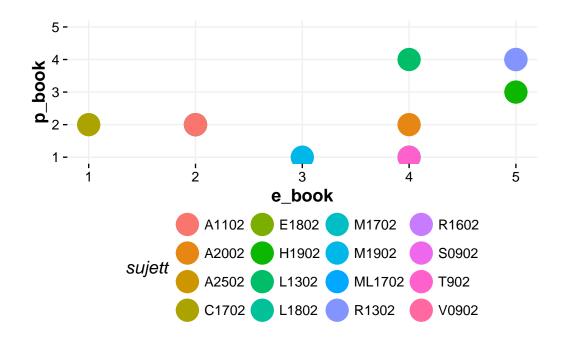


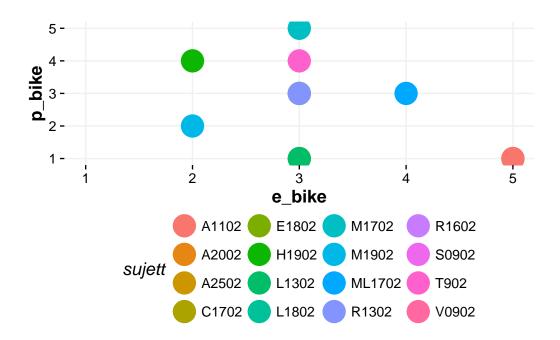
1.2.1 Child-parent correlation in object ranking

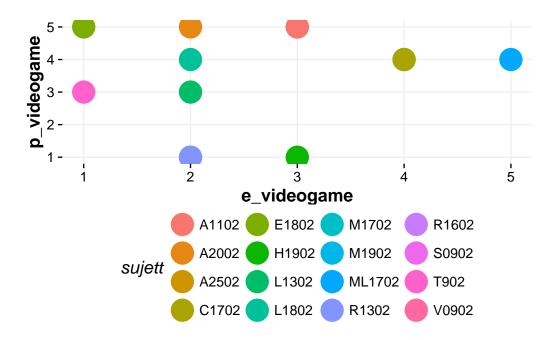
Next graphs show the correlation between parent and children ranking for each of the child subject





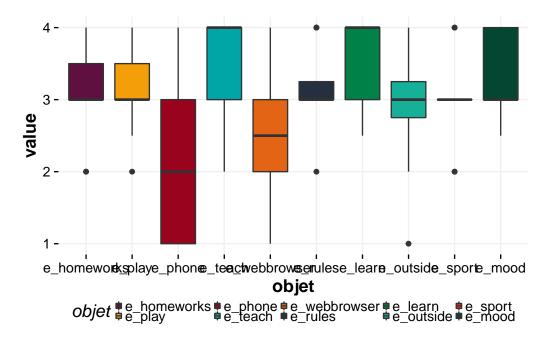




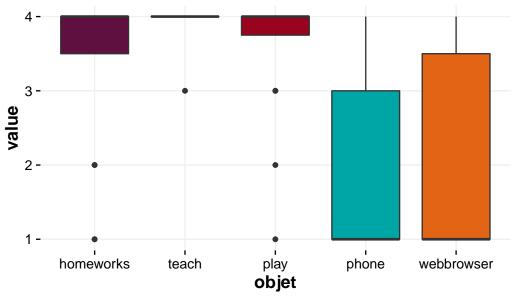


1.3 Functionality preferences

The following plot shows the average preference of children for each functionality (4: very preferred, 1: not preferred)



The following plot shows the average preference of parents for each functionality (4: very preferred, 1: not preferred)



objet

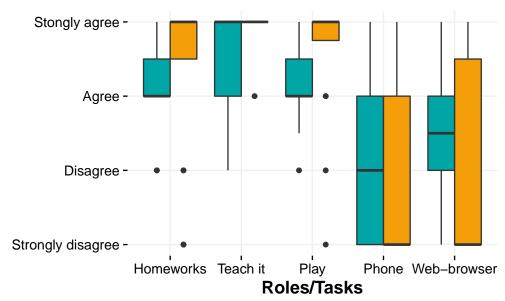
homeworks

teach

play

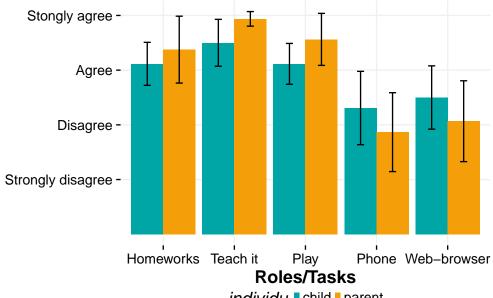
phone

webbrowser



individu **\$** child **\$** parent

	objet	individu	N	value	sd	se	ci
1	homeworks	child	13	3.115385	0.6504436	0.1804006	0.3930592
2	homeworks	parent	16	3.375000	1.1474610	0.2868652	0.6114388
3	teach	child	12	3.500000	0.6741999	0.1946247	0.4283662
4	teach	parent	16	3.937500	0.2500000	0.0625000	0.1332156
5	play	child	13	3.115385	0.6175842	0.1712870	0.3732024
6	play	parent	16	3.562500	0.8920949	0.2230237	0.4753638
7	phone	child	13	2.307692	1.1094004	0.3076923	0.6704039
8	phone	parent	15	1.866667	1.3020131	0.3361783	0.7210308
9	webbrowser	child	13	2.500000	0.9574271	0.2655425	0.5785674
10	webbrowser	parent	15	2.066667	1.3345233	0.3445724	0.7390344



individu child parent

- > attach(df)
- > summary(df)

sujett	age	genre	Ordre	individu
A1102 : 10	Min. : 7.000	Boy :90	autoritaire1:90	Length: 160
A2002 : 10	1st Qu.: 8.000	Girl:70	permissif1 :70	Class : character
A2502 : 10	Median : 8.500			Mode :character
C1702 : 10	Mean : 8.688			
E1802 : 10	3rd Qu.: 9.000			
H1902 : 10	Max. :11.000			
(Other):100				
objet	value			
homeworks :32	Min. :1.000			
teach :32	1st Qu.:2.000			
play :32	Median :3.000			
phone :32	Mean :2.947			
webbrowser:32	3rd Qu.:4.000			
	Max. :4.000			
	NA's :18			

> summary(aov(df\$value~df\$objet*df\$individu))

Df Sum Sq Mean Sq F value Pr(>F) df\$objet 4 60.25 15.062 16.335 6.81e-11 *** df\$individu 1 0.11 0.112 0.121 0.729 df\$objet:df\$individu 4 5.78 1.445 1.567 0.187 Residuals 132 121.71 0.922

Signif. codes: 0 âĂŸ***âĂŹ 0.001 âĂŸ**âĂŹ 0.01 âĂŸ*âĂŹ 0.05 âĂŸ.âĂŹ 0.1 âĂŸ âĂŹ 1 18 observations deleted due to missingness

1.3.1 Child-parent correlation in functionality preferrence

Next graphs show the correlation between parent and children ranking for each of the child subject

