Animacy in Persian language: Animacy norms for 401 Persian words

Firouze Mahjoubnavaz, Setareh Mokhtari[*]

Institute for Cognitive and Brain Sciences, Shahid Beheshti University, Tehran, Iran.

Abstract

Words are main components of meaning in spoken and written language. Animacy is one of the words' attributes which is referred to the distinction between animate and inanimate stimuli, and it has important influence on the perception of words. The main aim of the present study was to provide an animacy norms for Persian words. To follow this purpose, 401 words from Warriner et al. [1], were selected and translated into Persian. Participants (n=229) rated the words' animacy via a 5-point Likert scale. Split-half reliability of 0.97 (p<0.001), between two halves of participants is observed.

Keywords: Animacy, Norms, Persian language, Words.

1. Introduction

"Words are the building blocks of meaning, social interaction, and language itself" [2; p.615]. Some of the most important words' attributes are valence [3], arousal [4], frequency [5], imageability [6],

[*] Corresponding author

Email addresses: firouzemahjoubnavaz@gmail.com (Firouze Mahjoubnavaz), s_mokhtari@sbu.ac.ir (Setareh Mokhtari)

concreteness [7], length [8], and animacy [9]. In our daily lives, we are surrounded with words, which could refer to objects we represent and react to, regarding their animacy; which means the extent to which a word is assumed as animate. Recent studies showed that different cognitive processes are involved in perception of animate Vs. In-animate objects [10,11,12]. Additionally, animacy is not a dichotomous concept rather there is a continuum of neural responses during processing animate and inanimate stimuli; therefore, the animacy of objects is proposed to be considered as a continuum [13].

Studying the perception of animacy is important because, previous studies showed considerable advantages in processing animate objects; for example, animate stimuli could be learned better [14] and retrieved better [9,15]. Also, changes could be more easily detected if they are related to more animate objects, rather than in-animates [16].

In English, two datasets provide ratings for the animacy of words [17,18]. In Persian language, no dataset that provides a rating for animacy of words. Therefore, the current study aims to provide an animacy norms, enabling researchers to access normative ratings for animacy in the Persian language.

2. Methods

2.1. Participants

Two hundred and twenty-nine volunteer (128 females, 101 males; mean age=27.61) participated in this study. All participants were native Persian speaker and at least had high school diploma.

2.2. Design and Procedure

The present research is a part of a big project in which emotional valence, arousal, familiarity of Persian word are investigated. Nouns (n=401), were chosen from the English dataset provided by Warriner et al. [1]. Words without appropriate Persian equivalent or those which were not culturally-relevant were eliminated. The selected words translated to Persian and reviewed by three cognitive linguists. Final words were presented to the participants in four random. Participants had to rate each word's intimacy through a Likert scale in which 1 indicated completely inanimate and 5 showed completely animate. Participants were requested to register their first impression for the words.

3. Results

Participants who had more than 5% missing values, and those with greater than 3 z-score, were considered outliers and excluded from further analysis. The demographical characteristics of the participants and the number of observations for each list are presented in Table 1.

Table 1. *Demographical characteristics of the sample.*

List	N	Mean Age	Education Level			
			HS D*	Bachelor	Master	PhD
1	53 (24M ,29F)	27.58	4	16	32	1
2	53 (19M ,34F)	27.77	4	12	32	5
3	60 (29M ,31F)	27.71	4	17	35	4
4	63 (29M ,34F)	27.41	5	18	36	4
Total	229(101 M, 128F)	27.61	17	63	135	14

Note: HSD: High School Diploma

The result shows that collected words in this study are mostly rated as least animate with a standard deviation of 1.09. Table 2 demonstrates descriptive statistics of words and their distribution of them into three levels (low, high, and intermediate).

Table 2*: Descriptive Statistics of Words.*

	High	Low	ambiguous	Mean	SD
N	92	175	134	2.66	1.09

Figure 1 shows ambiguous words (rated around 3), are less common in the present dataset and most of the words are rated on two ends of the spectrum.

Reliability

The split-half intergroup reliability is investigated. For this purpose, observations in each part were divided into two halves and the correlation between the two halves of the responses was calculated. Results show high reliability between the two halves of the participants ($r= 0.97$, $p < 0.001$).
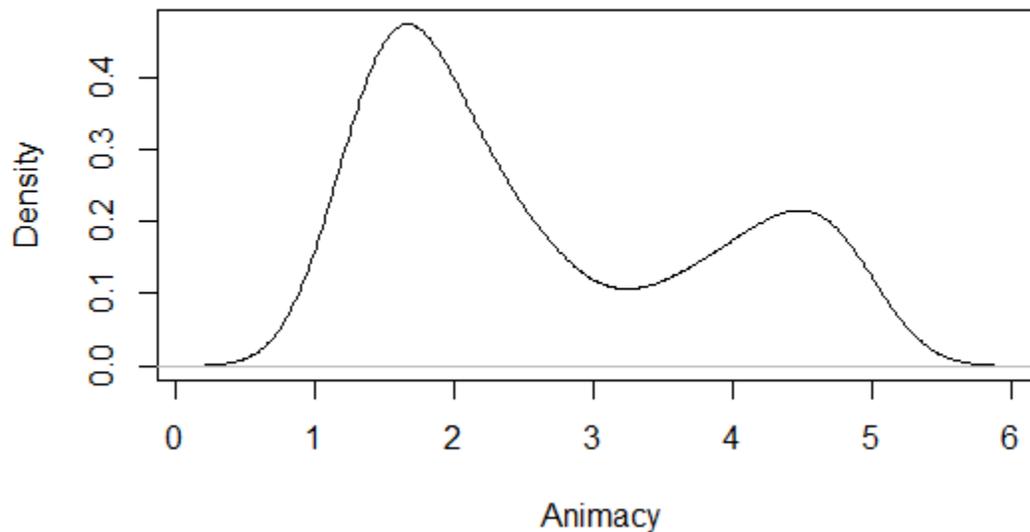
Figure 1. Distribution of ratings in animacy.

4. Conclusion

Animacy of stimuli is an influential factor in processing them [18] and in Persian language, no dataset provides an animacy rating for words. This study aimed to provide a set of words rated in terms of animacy for use in different fields, including cognitive science. After screening 13,915 words from the collection of Warriner et al. [1], the number of 401 nouns were translated into Persian and evaluated by the participants in terms of animacy. The collected data shows high and significant intergroup reliability.

In conclusion, this study provides a set of words with reliable rating for animacy in Persian words.

Supplementary Materials

Words, with their mean, standard deviation and number of ratings for each word, are presented in Appendix 1.

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Appendix 1

Rating for Animacy of Words

ID	Words	Mean	SD	Number of Ratings
1	ابلیس	3.00	1.650	62
2	اتومبیل	1.81	1.272	53
3	ادرار	1.52	0.833	60
4	اژدها	3.74	1.483	53
5	اسب	4.88	0.379	52
6	اسباب بازی	1.73	1.191	60
7	اسپاگتی	1.77	1.254	60
8	استودیو	1.53	0.863	58
9	اسکیت	1.49	0.838	59
10	اسنک	1.62	1.136	60
11	اسید	2.04	1.285	53
12	اشک	2.32	1.407	59
13	افعی	4.15	1.316	62
14	اکسیژن	2.58	1.532	62
15	الاکلنگ	1.45	0.832	60
16	الماس	1.79	1.230	53
17	الهه	3.26	1.483	53
18	انبر	1.14	0.452	50
19	انبه	2.58	1.510	62
20	انسان	4.85	0.481	60
21	انگل	3.24	1.522	62
22	انیمیشن	2.66	1.531	53
23	اوباش	3.89	1.450	53
24	اینترنت	2.47	1.588	53
25	آب دماغ	1.45	0.862	58
26	آب نبات	1.37	0.631	51
27	آبسه	1.87	0.981	53
28	آبشار	2.65	1.696	60
29	آبله مرغان	1.83	1.105	53
30	آتش نشان	4.63	0.692	51

ID	Words	Mean	SD	Number of Ratings
31	آدرنالین	2.81	1.442	53
32	آفت	2.98	1.520	62
33	آکنه	2.11	1.251	53
34	آکواریوم	3.45	1.564	53
35	آلبوم	2.23	1.396	53
36	آمبولانس	2.08	1.385	53
37	آناناس	2.31	1.489	61
38	آووکادو	2.57	1.487	53
39	بابا	4.98	0.139	52
40	بادیگارد	4.20	1.323	49
41	باردار	4.34	1.200	62
42	بازار	2.40	1.465	62
43	بازیچه	1.92	1.191	62
44	بازیگر	4.56	0.752	52
45	باکتری	4.06	1.183	53
46	بال	2.65	1.448	60
47	بانو	4.69	0.742	49
48	بچه	4.92	0.272	51
49	برادر	4.71	0.750	52
50	برده	4.28	1.180	60
51	برف	2.57	1.544	60
52	بمب	1.42	0.758	50
53	بهشت	2.68	1.638	53
54	بو	2.18	1.349	62
55	بوتیک	1.72	1.231	53
56	بوفه	1.70	1.170	53
57	بولینگ	1.29	0.605	52
58	بینی	2.79	1.461	62
59	پاپ کرن	1.45	0.910	60
60	پاپریکا	1.61	0.947	62
61	پازل	1.32	0.624	60
62	پاستیل	1.71	1.151	62
63	پاندا	4.67	0.659	58
64	پای	1.81	1.252	62
65	پپسی	1.51	0.924	61
66	پرتقال	2.73	1.538	62

ID	Words	Mean	SD	Number of Ratings
67	پرنسس	4.08	1.284	62
68	پری	3.58	1.322	53
69	پری دریایی	3.61	1.441	62
70	پزشک اطفال	4.31	1.195	62
71	پس انداز	2.00	1.428	53
72	پسته	2.34	1.448	62
73	پشکل	1.53	0.873	60
74	پشه	4.29	1.206	62
75	پلاسما	2.29	1.407	62
76	پلاک	1.10	0.360	58
77	پلنگ	4.74	0.513	61
78	پوشک	1.26	0.515	58
79	پیتزا	1.85	1.239	62
80	پیچ	1.33	0.648	52
81	پیژامه	1.39	0.781	61
82	پیست	1.46	0.837	59
83	پینه	1.79	1.230	53
84	تابوت	1.26	0.655	53
85	تافی	1.37	0.692	59
86	تبخال	1.67	0.816	51
87	تبر	1.39	0.750	51
88	تپانچه	1.32	0.701	60
89	ترومپت	1.52	0.863	58
90	تفاله	1.22	0.555	60
91	تفنگدار	3.70	1.564	53
92	تله	1.47	0.847	57
93	تلویزیون	1.83	1.167	60
94	تنباکو	1.42	0.814	59
95	تندباد	2.21	1.459	53
96	توالت	1.24	0.630	58
97	توت فرنگی	2.48	1.546	60
98	توفان	2.03	1.353	60
99	توله سگ	4.60	0.651	57
100	تومان	1.62	1.274	53
101	تومور	2.67	1.422	60
102	تیرانداز	3.85	1.459	60

ID	Words	Mean	SD	Number of Ratings
103	تیغه	1.29	0.605	52
104	تیمارستان	2.42	1.460	53
105	جِت	1.60	0.955	52
106	جانی	3.87	1.415	53
107	جزیره	2.58	1.598	53
108	جسد	1.79	1.276	53
109	جمجمه	2.28	1.451	60
110	جن	3.58	1.526	52
111	جنگل	4.11	1.354	53
112	جهان	3.38	1.552	60
113	جوجه تیغی	4.31	1.125	62
114	جوک	1.74	1.179	53
115	چراغ	1.81	1.199	62
116	چرخ و فلک	1.24	0.560	49
117	چرک	1.57	0.763	61
118	چرم	1.98	1.337	53
119	چنگال	1.31	0.765	61
120	چوب شور	1.32	0.647	62
121	چوبه‌ی دار	1.39	0.827	51
122	چیزبرگر	1.83	1.267	53
123	حباب	1.79	1.133	53
124	حشیش	1.77	1.171	53
125	حفره	1.39	0.737	61
126	حلقه	1.49	0.887	61
127	حمام	1.85	1.300	60
128	حیوان	4.79	0.572	52
129	خار	1.80	1.176	60
130	خانواده	4.67	0.622	51
131	خرچنگ	4.59	0.616	61
132	خزانه دار	3.63	1.484	60
133	خزنده	4.11	1.311	53
134	خلیفه	3.80	1.482	60
135	خواننده	3.95	1.419	60
136	خواهرزاده	4.34	1.130	62
137	خوراک	2.00	1.400	52
138	خوراکی	2.15	1.433	53

ID	Words	Mean	SD	Number of Ratings
139	خورشید	3.02	1.631	60
140	خون	2.77	1.489	53
141	دادگاه	1.92	1.266	52
142	دارو	1.46	0.779	52
143	داروساز	4.29	1.151	62
144	داماد	4.63	0.864	52
145	دانش آموز	4.15	1.387	59
146	دانشگاه	2.27	1.425	60
147	دایناسور	3.92	1.452	53
148	دایی	4.54	0.825	57
149	دختر	4.88	0.325	51
150	دخمه	1.32	0.551	50
151	دستپخت	2.51	1.310	53
152	دستگاه تهویه	1.36	0.689	59
153	دسر	2.06	1.292	53
154	دلدار	3.57	1.566	60
155	دلقک	4.56	0.873	52
156	دندانپزشک	4.42	1.151	53
157	دودکش	1.33	0.787	57
158	دوست	4.76	0.619	51
159	دوست پسر	4.40	1.149	53
160	دوست دختر	4.80	0.535	50
161	دوشیزه	4.03	1.414	62
162	دیپلم	1.16	0.418	51
163	دینام	1.27	0.598	52
164	دیو	3.74	1.361	53
165	ذغال	1.41	0.779	51
166	راسو	4.08	1.357	60
167	راکت	1.44	0.886	61
168	راهزن	4.32	1.173	53
169	ربات	2.03	1.183	61
170	رستوران	2.02	1.312	62
171	رفیق	4.92	0.277	49
172	رنگین کمان	2.31	1.466	62
173	روح	3.13	1.546	60
174	روسپی	4.25	1.220	61

ID	Words	Mean	SD	Number of Ratings
175	ریواس	2.06	1.353	62
176	زباله	1.21	0.520	61
177	زخم	1.85	1.162	60
178	زمرد	1.54	0.959	52
179	زمین	3.55	1.671	53
180	زن	4.71	0.645	59
181	زنبور	4.82	0.478	51
182	زنگار	1.27	0.635	51
183	زهر	1.47	0.838	59
184	ژیمینازیوم	1.72	1.116	53
185	ساحره	3.47	1.564	53
186	ساقه	3.05	1.498	62
187	ساکسیفون	1.45	0.891	60
188	ستاره	3.17	1.564	60
189	ستاره دریایی	3.97	1.438	60
190	سحابی	1.87	1.221	62
191	سرباز جنگ	4.18	1.255	60
192	سرنگ	1.28	0.590	57
193	سگ	5.00	0.000	49
194	سنگ	1.83	1.237	60
195	سنگ قبر	1.34	0.717	50
196	سوپ	1.75	1.159	60
197	سوپرمارکت	1.75	1.174	60
198	سوزن	1.39	0.894	62
199	سوسک	4.48	0.980	52
200	سوسیس	1.33	0.629	60
201	سوشی	1.47	0.782	57
202	سولاریوم	1.32	0.567	60
203	سیاره	2.70	1.383	61
204	سیاهچاله	2.08	1.439	53
205	سیل	2.21	1.419	53
206	سینما	2.16	1.416	62
207	سینه	2.92	1.591	53
208	شبح	2.27	1.311	59
209	شریت	1.68	1.128	62
210	شعبده باز	4.00	1.468	53

ID	Words	Mean	SD	Number of Ratings
211	شکارچی	3.82	1.408	61
212	شکاف	1.58	0.936	52
213	شکر	1.58	0.986	59
214	شکلات	1.79	1.306	53
215	شکوفه	3.91	1.181	53
216	شناگر	4.27	1.177	60
217	شهر	2.64	1.533	53
218	شوره	1.79	1.183	53
219	شوهر	4.64	0.776	50
220	شیرینی	1.65	0.926	52
221	شیطان	3.53	1.488	53
222	صبحانه	1.87	1.256	53
223	صدا	2.55	1.455	60
224	صفرا	2.17	1.236	53
225	صیاد	3.98	1.312	62
226	طبل	1.27	0.598	52
227	طفل	4.69	0.612	52
228	طوطی	4.65	0.606	60
229	ظرف غذا	1.43	0.831	60
230	عرق نعناع	1.56	0.904	61
231	عروس	4.80	0.530	51
232	عسل	2.02	1.323	53
233	عشق	3.60	1.498	53
234	عفونت	2.11	1.354	53
235	عقاب	4.87	0.397	52
236	عکس	2.58	1.584	62
237	عنبیه	2.83	1.503	53
238	غذا	2.05	1.360	62
239	غزال	4.09	1.458	53
240	غول	3.34	1.593	53
241	فاحشه	4.38	1.180	53
242	فاشیست	2.70	1.526	53
243	فاضلاب	1.48	0.918	52
244	فردوس	2.15	1.388	61
245	فرشته	3.55	1.338	53
246	فرمانده	4.34	1.130	62
247	فضانورد	4.47	0.992	53

ID	Words	Mean	SD	Number of Ratings
248	فلامینگو	4.73	0.603	51
249	فوتبال	2.40	1.485	53
250	فیروزه	2.31	1.511	59
251	فیل	4.73	0.528	52
252	فیلم	2.68	1.661	53
253	فیله	2.28	1.364	53
254	قارچ	2.91	1.548	53
255	قایق	1.81	1.257	53
256	قایق موتوری	1.29	0.649	58
257	قبر	1.22	0.541	51
258	قصر	1.74	1.227	62
259	قفس	1.44	0.873	52
260	قلب	4.25	1.239	53
261	قلعه	1.30	0.678	50
262	قهوه	1.87	1.172	52
263	قوچ	4.53	0.833	51
264	گُلر	1.39	0.635	51
265	کاخ	1.69	1.154	62
266	کاراته	2.09	1.458	53
267	کارامل	1.50	0.874	52
268	کاکائو	1.85	1.183	53
269	کالسکه	1.74	1.211	53
270	کامپیوتر	2.04	1.454	53
271	کانگورو	4.77	0.469	52
272	کت شلوار	1.34	0.664	58
273	کتیبه	1.64	1.162	53
274	کدوسبز	2.05	1.320	60
275	کرم کدو	3.58	1.639	60
276	کروکی	1.29	0.617	59
277	کریستال	1.31	0.735	51
278	کلوچه	1.59	0.938	61
279	کمپانی	1.94	1.200	53
280	کمک	3.00	1.468	53
281	کنسرت	2.30	1.514	53
282	کوپن	1.25	0.560	51
283	کودک	4.84	0.468	50
284	کوکاکولا	1.54	0.896	52

ID	Words	Mean	SD	Number of Ratings
285	کوکائین	1.58	0.969	53
286	کوکی	1.29	0.729	51
287	کوه	2.66	1.568	62
288	کیست	2.36	1.302	53
289	کیک	1.72	1.099	53
290	کیک یزدی	1.81	1.128	53
291	کیهان	3.23	1.601	53
292	گانگستر	3.97	1.254	62
293	گاو نر	4.78	0.541	51
294	گدا	4.65	0.716	51
295	گربه	4.82	0.478	51
296	گردباد	2.66	1.467	53
297	گرگ	4.60	0.771	58
298	گروگان	4.26	1.095	53
299	گلوکز	1.91	1.181	53
300	گلوله	1.85	1.307	53
301	گلوله برفی	2.13	1.443	60
302	گنج	1.87	1.301	53
303	گنجه	1.48	0.863	58
304	گهواره	1.98	1.366	53
305	گورستان	1.92	1.371	53
306	گوزن	4.56	0.742	61
307	گوشت	2.36	1.402	53
308	گوشت دنده	1.85	1.219	60
309	گوهر	1.91	1.334	53
310	گیتار	1.83	1.105	53
311	گیلاس	2.43	1.526	53
312	گیوتین	1.27	0.660	52
313	لازانیا	1.83	1.216	52
314	لاشه	1.70	1.137	53
315	لب	3.40	1.541	62
316	لباس	1.70	1.137	53
317	لپ تاپ	1.96	1.372	53
318	لخته	1.60	0.913	52
319	لعل	1.89	1.354	53
320	لکه	1.49	0.928	57
321	لگن	1.85	1.307	53

ID	Words	Mean	SD	Number of Ratings
322	لگو	1.45	0.808	51
323	لیموزین	1.56	0.940	61
324	لیموناد	1.62	0.867	52
325	ماجراجو	3.94	1.307	53
326	مادر	4.87	0.468	60
327	مادرخوانده	4.23	1.266	53
328	مادمازل	3.77	1.509	62
329	مار	4.84	0.464	51
330	مار زنگی	4.66	0.608	58
331	ماساژور	3.40	1.573	62
332	ماست	1.57	0.840	58
333	ماکارونی	1.76	1.183	62
334	مامان	4.95	0.220	60
335	مامی	4.06	1.317	62
336	ماهیچه	2.95	1.372	62
337	مایو	1.33	0.659	58
338	مجرم	4.15	1.364	53
339	مجله	1.64	0.932	61
340	محفظه	1.40	0.891	52
341	مخترع	4.23	1.296	53
342	مخدر	1.61	1.005	61
343	مخمل	1.47	0.842	58
344	مدفوع	1.45	0.856	51
345	مربی	4.67	0.648	52
346	مرقد	1.41	0.833	59
347	مسافر	4.05	1.395	60
348	مستخدم	4.42	1.232	53
349	مشت	2.00	1.387	53
350	مشعل	1.98	1.185	53
351	مشق	1.33	0.766	51
352	معاهده	1.63	0.774	51
353	معشوقه	4.79	0.491	57
354	مقعد	2.26	1.342	62
355	مگنولیا	2.36	1.528	61
356	ملکه	4.50	0.873	60
357	منو	1.39	0.766	59
358	مهتاب	2.50	1.468	62

ID	Words	Mean	SD	Number of Ratings
359	مهدکودک	2.63	1.662	62
360	مهمان	4.65	0.770	51
361	موج	2.28	1.519	60
362	موزارلا	1.55	0.881	62
363	موش	4.63	0.717	59
364	مونث	4.39	0.802	51
365	میکروب	3.79	1.459	53
366	میوه	3.06	1.657	53
367	نُقل	1.64	1.194	53
368	نارگیل	2.06	1.350	53
369	نامزد	4.25	1.108	53
370	نان روغنی	1.60	0.877	58
371	ناو جنگی	1.67	1.052	60
372	نسکافه	1.60	1.132	53
373	نطفه	3.26	1.481	62
374	نعناع	2.32	1.469	62
375	نوزاد	4.92	0.272	51
376	نوشابه	1.41	0.726	51
377	نوشیدنی	1.87	1.301	53
378	نویسنده	4.62	0.671	58
379	نیکوتین	1.52	0.892	60
380	هایپرمارکت	1.70	1.183	60
381	هتل	1.54	0.896	52
382	هدیه	2.21	1.446	53
383	هروئین	1.58	0.957	52
384	هزارپا	4.23	1.325	53
385	هلو	2.32	1.400	62
386	همبرگر	1.77	1.103	53
387	همسر	4.74	0.613	57
388	هندوانه	2.42	1.533	60
389	هنرمند	4.32	1.200	60
390	هواپیما	2.08	1.466	53
391	هیزم	1.83	1.156	53
392	هیولا	3.52	1.479	62
393	والیبال	2.03	1.340	60
394	ورزشکار	4.88	0.325	51
395	وکیل	4.54	0.753	52

ID	Words	Mean	SD	Number of Ratings
396	ویدئو	1.78	1.151	60
397	ویروس	3.67	1.492	60
398	ویولن	2.14	1.395	59
399	یاقوت کبود	1.69	1.195	62
400	یخچال	1.34	0.772	50
401	یویو	1.37	0.723	57