

**NAME AGREEMENT NORMS FOR A SET OF 260 PICTURES IN TAMIL**

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***Abstract:** Studies of memory and cognitive process have long relied on pictorial stimuli, typically simple, abstract line drawings. There has been a considerable rise in the number of studies using standardized picture sets with the norms for a multitude of variables known to affect the picture processing. Usage of such picture sets makes the studies comparable across centers and languages. The availability of a large corpus of standardized pictures in any language would be a strong asset to researchers and in the absence of such a picture stimuli corpus in Tamil language; a strong necessity to develop a standardized picture set was identified. For this purpose, the overwhelmingly used Snodgrass and Vanderwart (1980) picture set was selected, which would be standardized based on the major variables affecting the picture naming performance in Tamil. This paper presents the first phase of the standardization process. Results of this study provided a positive indication that these pictures can be utilized to fulfill various experimental needs pertaining to Tamil speaking population, though standardization based upon rest of the variables namely image agreement, visual complexity, concept familiarity and age of acquisition are necessary and will facilitate the experimenters to select pictures efficiently to suit their needs.*

***Key Words:** Standardized Picture Set, Tamil, Name agreement, Line Drawings.*

**Introduction**

The utility of picture naming is beyond dispute, yet, it has become evident to us that cross linguistic comparisons using this technique are limited by the absence of comparable naming norms across the languages. As there are many different ways to depict an object in a picture, each one can elicit a different response. Also, the degree to which each picture possesses the characteristics that affect the process under investigation is unknown (Snodgrass and Vanderwart 1980). To be able to compare studies that used picture naming, it is important to have norms of the pictorial stimuli that are used in these studies. A few of the widely used picture sets for which norms have been provided are Snodgrass and Vanderwart 260 picture set (1980), Peabody Picture Vocabulary Test - Revised (Dunn & Dunn, 1981).

The most frequently used picture set in norming studies is the one developed by Snodgrass and Vanderwart (1980). These authors standardized 260 pictures on following variables: name agreement, image agreement, familiarity, age of acquisition (AoA) and visual complexity. These variables are known to have very high theoretical importance in studies of

picture naming. Each of these variables are postulated to play a critical role at individual stages of processing involved in the picture naming task. Visual complexity and image agreement have an influence at the visual recognition system. Similarly, imageability at the level of semantic system, the age of acquisition and word frequency act at the lexical system and the name agreement has an effect between the semantic and lexical systems Alario, Ferrand, Laganaro, New, Frauenfelder, and Segui (2004).

Name agreement refers to the degree to which participants agree on the name of the picture. Name agreement is measured by assessing the number of different names given to a particular picture across participants. Pictures that elicit many different names have lower name agreement than do those that elicit a single name. Name agreement is also a robust predictor of naming difficulty. Pictures with a single dominant response are named more quickly and accurately than those with multiple responses (Barry, Morrison, and Ellis, 1997; Lachman, Shaffer, & Hennrikus, 1974; Paivio, Clark, Digdon, & Bons, 1989; Snodgrass & Yuditsky, 1996; Vitkovitch & Tyrrell, 1995). More importantly, name agreement affects naming latencies independently of the effects of correlated attributes such as word frequency and rated age of acquisition (Lachman et al., 1974; Vitkovitch & Tyrrell, 1995).

There exists overwhelming evidence in the literature to show the extent to which these pictures have been utilized in various languages with an appreciable impact factor. Ever since the days of Cattell (1886), picture naming has been a widely used technique in various domains of psychological research. It has been used to investigate a number of components of language production such as lexical access and phonological encoding (e.g., Levelt, Schriefers, Vorberg, Meyer, Pechmann, & Havinga, 1991; Santiago, MacKay, Palma, & Rho, 2000; Starreveld, 2000). Picture naming has also been used in fMRI studies (e.g., Hernandez, Martinez, & Kohnert, 2000; Rutten, Ramsey, van Rijen, & van Veelen, 2002; Spitzer et al., 1998; Damasio, Grabowski, Tranel, Ponto, Hichwa, & Damasio, et al., 2001; Hernandez, Dapretto, Mazziotta, & Bookheimer, 2001), event-related brain potentials or ERP studies (Schmitt, Münte, & Kutas, 2000; van Turenout, Hagoort, & Brown, 1997, 1998, 1999; Wicha, Bates, Moreno, & Kutas, 2000; Hauk, Rockstroh, & Eulitz, 2001; Schiller, Bles, & Jansma, 2003; Schmitt, Schiltz, Zaake, Kutas, & Munte, 2001) and studies of bilingualism (e.g., Costa, Miozzo, & Caramazza, 1999; Francis & Sáenz, 2007; Gollan, Montoya, Notestine, & Morris, 2005).

### **Need for the study**

Taking these factors into account and in the absence of such a picture stimuli corpus in Tamil language, a strong necessity to develop a standardized picture set was identified. For this purpose, the overwhelmingly used Snodgrass and Vanderwart (1980) picture set was selected, which would be standardized based on the major variables affecting the picture naming performance in Tamil. This paper presents the first phase of the standardization process.

### **Aim of the Study**

To standardize a set of pictures based on the name agreement variable for Tamil speaking adults

### Method

A total of 60 subjects within the age range of 16-70 years participated in the study. All were native Tamil speakers belonging to Chennai city and approximately equal number of males and females served in task. Stimuli consisted of 260 pictures, developed by Snodgrass and Vanderwart (1980). Subjects were given a questionnaire containing not more than 12 drawings in each page and were instructed to write the names within the space provided. They were instructed to identify each picture with the first name that came to their mind which may consist of more than one word. Specific instructions, designed to elucidate the sources of naming failures, were also given. Subjects were instructed to respond (✖) if the picture was of an object unknown to them i.e., don't know object [DKO]. If the object was known but the name was unknown, they were to respond (✓) i.e., don't know name [DKN]. And, finally, if they knew the name but it was momentarily irretrievable, they were to respond (O) i.e., tip-of-the-tongue [TOT]. The collected data was suitably tabulated and was subjected to descriptive statistical treatment along with information statistic 'H' and with percentage agreement scores for each picture. The three categories of naming failures DKO (don't know object), DKN (don't know name) and TOT (tip-of-the tongue) were eliminated when computing H but not when computing percentage agreement scores.

### Results and Discussion

The name agreement was computed using the liberal criteria suggested by Snodgrass and Yuditsky (1996). For the name agreement task, both H value and the percentage agreement scores were calculated. However, more importance was given to H statistics because it captures greater information than just percentage agreement scores (Snodgrass & Vanderwart, 1980). For example, consider two pictures having equal percentage agreement scores – say 60% - for their respective dominant names and suppose they have varying numbers of non-dominant names, i.e., the first one has four alternative names and the second has only one, then, the second concept will have a lower H value, indicating a higher name agreement (which is the actual case) compared to the first concept, even when both have equal percentage agreement scores.

While calculating H values, the three categories of naming failures (don't know object – DKO, don't know name – DKN, & tip-of-the-tongue – TOT) were eliminated. But, while calculating the percentage agreement scores, these naming failures were also included. Hence, a picture with H value of 0.0 can have percentage agreement score less than 100 because the picture may have produced naming failures in some participants. Therefore, while selecting pictures, it is wise to consider both the H value as well as the percentage agreement to select the best suitable pictures as per the demands of the designed study.

If a picture elicited the same name from every subject, then the concept of that picture will have an H value of 0.0, indicating a perfect name agreement. A picture of a concept that elicited exactly two different names with equal frequency would have an H value of 1.00. Therefore, in simple terms, increasing H value indicates decreasing name agreement (Snodgrass & Vanderwart, 1980; Pompeia, Miranda & Bueno 2001).

The normative data has been provided in the appendix which maintains the same order as originally given by Snodgrass and Vanderwart (1980) and even the serial numbers provided by the authors have been kept unaltered for cross reference. The appendix consists of the actual response in Tamil script and the corresponding International Phonetic Alphabet (IPA) transcripts for each picture along with two measures of name agreement: the information statistic H and the percentage name agreement (i.e., the percentage of subjects giving the most common name). The IPA transcripts were done using the link <http://software.nhm.in> developed by new horizon media Pvt Ltd. Chennai.

**Table 1: Summary statistics for name agreement [H]:**

		H
<b>Mean</b>		<b>0.17</b>
<b>Median</b>		<b>0.15</b>
<b>SD</b>		<b>0.12</b>
<b>Skewness</b>		<b>0.10</b>
<b>Range</b>		<b>0.37</b>
<b>Minimum</b>		<b>0.00</b>
<b>Maximum</b>		<b>0.37</b>
<b>Percentiles</b>	<b>25<sup>th</sup></b>	<b>0.06</b>
	<b>75<sup>th</sup></b>	<b>0.29</b>

As it is evident from table 1 the distribution of H values had a low mean (0.17) and was positively skewed (0.10), indicating that concepts have a high name agreement overall. Out of the 260 pictures, 200 concepts had high name agreement indicating that these pictures can be utilized for clinical and research purposes concerning Tamil speaking adult population between

the age range of 16-70 years. Among these 200 pictures some also had a dominant alternate name and hence it is suggested that either of them can be considered as a correct response. The concepts were grouped based on the percentile scores for H values. All the pictures which had H value less than the 75<sup>th</sup> percentile (0.29) were accepted as having high name agreement. Lower name agreement was observed for 60 of the concepts where each of the concepts had H value greater than the 75<sup>th</sup> percentile and low percentage scores. Most of these concepts received misnomers which were further classified as:

(a) Ambiguous names: 9(Artichoke misinterpreted as |pū| which means flower), 10 (Ashtray as |aṭuppu| which refers to gas stand), 11 (asparagus as |kampu| that is jowar), 117(Harp as |kēṭ| means gate), 230(thimble as |ṭam|ar| meaning tumbler), 194(saltshaker as |pāṭṭil| meaning bottle), 219(stove as |tuvaikkumentiram| meaning washing machine).

(b) Pictures named with common local substitute: 1 (accordion was named as |hārmōṇiyam| that is harmonium), 33 (bow as |rippaṇ| meaning ribbon), 79 (dresser as |ṭivi ṭepil| that is TV table), 137 (lettuce as |ilaik kōcu| refers to cabbage), 142 (lobster as |tEl| meaning scorpion), 144 (mitten as |pāksiṅ kiṭavus| that is boxing gloves), 152 (nail file as |katti| referring to knife), 166 (pear as |curaikkāy| meaning pear), 258(wine glass as |kōppai| that is cup), 259 (wrench as |spēṇar| which refers to spanner), 127 (kettle as |ṭṭjak| means tea jug), 29(blouse as |caṭṭai| which is shirt), 99 (French horn as |ṭrampēṭ| that is trumpet), 125 (jacket as |kōṛṭ| refers to court), 189 (roller skate as |uruḷumceruppu| which means skating shoe ), 229 (tennis racket as |rākkēṭ maṭṭai| means racket bat), 247 (vest as |kōṛṭ| which refers to court), 67 (couch as |cōpā| refers to sofa), 101 (frying pan as |tavā| meaning tava).

(c) For five of the pictures it was decided to accept two dominant names, as both names were synonymous and referred exactly to the same concept. In these pictures either of the dominant names can be accepted as a correct response. These pictures were: 10 (|addupu| which means gas stand), 11 (|kampu| refers to jowar), 31 (|pūṭs| means boots), 51 (|kīrai| that is spinach), 79 (|ṭivi ṭepil| refers tv table).

(d) For two pictures categorical name (51 celery as |kīrai| that is spinach) and (163 peach as |paḷam| means fruit) Even though the participants had to provide the names for the concepts in Tamil, a few concepts received the English version of the concept as the dominant responses, for example pictures 31 (boot), 32 (bottle), 38 (brush), and 47 (car). These were accepted as the dominant responses as they were consistently provided by majority of the participants.

## Conclusions

Results of this study provided a positive indication that these pictures can be utilized to fulfill various experimental needs pertaining to Tamil speaking adult population, though standardization based upon rest of the variables namely image agreement, visual complexity,

concept familiarity and age of acquisition are necessary and will facilitate the experimenters to select pictures efficiently to suit their needs. Furthermore, it is advised to the experimenters who desire to use this picture set to avoid the list of pictures that have a greater potential to generate ambiguous responses as they may hamper the experimental results. Also, it may be noted that care must be taken while selecting the pictures which have lower name agreement scores.

## References

- Alario, F. X., Ferrand, L., Laganaro, M., New, B., Frauenfelder, U. H., & Segui, J. (2004). Predictors of picture naming speed. *Behavior Research Methods, Instruments, & Computers*, 36(1), 140-155.
- Barry, C., Morrison, C. M., & Ellis, A.W. (1997). Naming the Snodgrass and Vanderwart pictures: Effects of age of acquisition, frequency, and name agreement. *Quarterly Journal of Experimental Psychology*, 50A, 560-585.
- Cattell, J. M. (1886). The time it takes to see and name objects. *Mind*, 11, 63-65.
- Costa, A., Miozzo, M., & Caramazza, A. (1999). Lexical selection in bilinguals: Do words in bilingual's lexicon compete for selection? *Journal of Memory and Language*, 41, 381-391.
- Damasio, H., Grabowski, T. J., Tranel, D., Ponto, L. L. B., Hichwa, R. D., & Damasio, A. R. (2001). Neural correlates of naming actions and of naming spatial relations. *NeuroImage*, 13, 1053-1064.
- Dunn, L. M., & Dunn, L. M. (1981). Peabody picture vocabulary test revised. Circle Pines, MN: American Guidance Service.
- Francis, W. S., & Sáenz, S. P. (2007). Repetition priming endurance in picture naming and translation: Contributions of component processes. *Memory & Cognition*, 35(3), 481-493.
- Gollan, T. H., Montoya, R. I., Notestine, C. F., Morris, S. K. (2005). Bilingualism affects picture naming but not picture classification. *Memory & Cognition*, 33(7), 1220-1234.
- Hauk, O., Rockstroh, B., & Eulitz, C. (2001). Grapheme monitoring in picture naming: An electrophysiological study of language production. *Brain Topography*, 14, 3-13.
- Hernandez, A. E., Dapretto, M., Mazziotta, J., & Bookheimer, S. (2001). Language switching and language representation in Spanish-English bilinguals: An fMRI study. *NeuroImage*, 14, 510-520.
- Hernandez, A. E., Martinez, A., & Kohnert, K. (2000). In search of the language switch: An fMRI study of picture naming in Spanish-English bilinguals. *Brain and Language*, 73, 421-431.
- Kaplan, E., Goodglass, H., & Weintraub, S. (1983). *The Boston Naming Test*. Philadelphia: Lea and Febiger.
- Lachman, R., Shaffer, J. P., & Hennrikus, D. (1974). Language and cognition: Effects of stimulus codability, name-word frequency, and age of acquisition on lexical reaction time. *Journal of Verbal Learning & Verbal Behavior*, 13, 613-625.
- Levelt, W. J. M., Schriefers, H., Vorberg, D., Meyer, A. S., Pechmann, T., & Havinga, J. (1991). The time course of lexical access in speech production: A study of picture naming. *Psychological Review*, 98, 122-142.
- Paivio, A., Clark, J. M., Digdon, N., & Bons, T. (1989). Referential processing: Reciprocity and correlates of naming and imaging. *Memory & Cognition*, 17, 163-174.
- Pompéia, S., Miranda, M. C., & Bueno, O. F. A. (2001). A set of 400 pictures standardized for Portuguese Norms for name agreement, familiarity, and visual complexity for children and adults. *Arq Neuropsiquitar*, 59(2-B), 330-337.
- Rutten, G. J. M., Ramsey, N. F., van Rijen, P. C., & van Veelen, C. W. M. (2002). Reproducibility of fMRI-determined language lateralization in individual subjects. *Brain and Language*, 80, 421-437.

- Santiago, J., MacKay, D. G., Palma, A., & Rho, C. (2000). Sequential activation processes in producing words and syllables: Evidence from picture naming. *Language and Cognitive Processes, 15*, 1–44.
- Schiller, N. O., Bles, M., & Jansma, B. M. (2003). Tracking the time course of phonological encoding in speech production: An event-related brain potential study. *Cognitive Brain Research, 17*, 819–831.
- Schmitt, B. M., Münte, T. F., & Kutas, M. (2000). Electrophysiological estimates of the time course of semantic and phonological encoding during picture naming. *Psychophysiology, 3*, 473–484.
- Schmitt, B. M., Schiltz, K., Zaake, W., Kutas, M., & Münte, F. (2001). An electrophysiological analysis of the time course of conceptual and syntactic encoding during tacit picture naming. *Journal of Cognitive Neuroscience, 13*, 510–522.
- Snodgrass, J. G., & Vanderwart, M. (1980). A standardized set of 260 pictures: Norms for name agreement, familiarity and visual complexity. *Journal of Experimental Psychology: Human Learning & Memory, 6*, 174–215.
- Snodgrass, J.G., & Yuditsky, T. (1996). Naming times for the Snodgrass and Vanderwart pictures. *Behavior Research Methods, Instruments, & Computers, 28*, 516–536.
- Spitzer, M., Kirschka, U., Guckel, F., Belleman, M. E., Kammer, T., Seyyedi, S., et al. (1998). Functional magnetic resonance imaging of category-specific cortical activation: Evidence for semantic maps. *Cognitive Brain Research, 6*, 309–319.
- Starreveld, P. A. (2000). On the interpretation of onsets of auditory context effects in word production. *Journal of Memory and Language, 42*, 497–525.
- van Turennout, M., Hagoort, P., & Brown, C. (1997). Electrophysiological evidence on the time course of semantic and phonological processes in speech production. *Journal of Experimental Psychology: Learning, Memory, & Cognition, 23*, 787–806.
- van Turennout, M., Hagoort, P., & Brown, C. (1998). Brain activity during speaking: From syntax to phonology in 40 milliseconds. *Science, 280*, 572–574.
- van Turennout, M., Hagoort, P., & Brown, C. (1999). The time course of grammatical and phonological processing during speaking: Evidence from event-related brain potentials. *Journal of Psycholinguistic Research, 28*, 649–676.
- Vitkovitch, M., & Tyrrell, L. (1995). Sources of disagreement in object naming. *Quarterly Journal of Experimental Psychology, 48A*, 822–848.
- Wicha, N. Y. Y., Bates, E., Moreno, E., & Kutas, M. (2000). Grammatical gender modulates semantic integration of a picture in a Spanish sentence. *Psychophysiology, 37* (Suppl. 1). S104.

## Appendix

ic no	Actual name	Tamil Responses	IPA transcript	H	Percentage
1	Accordion	ஹார்மோனியம்	hārmōṇiyam	0.36	26.6
2	Airplane	விமானம்	vimāṇam	0.03	96.6
3	Alligator	முதலை	Mutalai	0.06	93.3
4	Anchor	நங்கூரம்	naṅkūrām	0.24	63.3
5	Ant	எறும்பு	eṟumpu	0.02	96.6
6	Apple	ஆப்பிள்	āppi	0.02	98.3
7	Arm	கை	Kai	0	100
8	Arrow	அம்பு	Ampu	0.14	76.6
9	Artichoke	பூ	Pū	0.37	30
10	Ash tray	அடுப்பு	aḷuppu	0.29	13.3
11	Asparagus	கம்பு	Kampu	0.24	10
12	Axe	கோடாரி	kōṭāri	0.07	90
13	Baby carriage	குழந்தை தள்ளு வண்டி	kuḷantai taḷḷu vaṇṭi	0.33	53.3
14	Ball	பந்து	Pantu	0	100
15	Balloon	பலூன்	palūṇ	0.12	86.6
16	Banana	வாழைப்பழம்	vāḷaippaḷam	0	100
17	Barn	வீடு	vīṭu	0.19	73.3
18	Barrel	பீப்பாய்	Pīppāy	0.25	55
19	Baseball bat	மட்டை	maṭṭai	0.32	50
20	Basket	கூடை	Ūṭai	0.06	91.6
21	Bear	கரடி	karaḷi	0	100
22	Bed	கட்டில்	kaṭṭil	0.11	88.3
23	Bee	தேனி	tēṇi	0.14	83.3
24	Beetle	கரப்பான்பூச்சி	karappāṇpūcci	0.15	68.3
25	Bell	மணி	maṇi	0	100
26	Belt	பெல்ட்	peḷṭ	0.19	78.3
27	Bicycle	மிதிவண்டி	mitivaṇṭi	0.06	93.3
28	Bird	குருவி	Kuruvi	0.11	88.3
29	Blouse	சட்டை	caṭṭai	0.06	93.3
30	Book	புத்தகம்	Puttakam	0	100
31	Boot	பூட்ஸ்	pūṭs	0.35	58.3
32	Bottle	பாட்டில்	pāṭṭil	0.26	66.6
33	Bow	ரிப்பன்	rippaṇ	0.35	23.3



34	Bowl	கிண்ணம்	kiṇṇam	0.13	80
35	Box	பெட்டி	peṭṭi	0.08	86.6
36	Bread	ரொட்டி	roṭṭi	0.24	71.6
37	Broom	துடப்பம்	tuṭappam	0.32	50
38	Brush	பிரஸ்	Piras	0.35	36
39	Bus	பேருந்து	pe:runtu	0	100
40	Butterfly	வண்ணத்துப் பூச்சி	vaṇṇattup pūcci	0	100
41	Button	பட்டன்	paṭṭan	0.31	58.3
42	Cake	கேக்	Kēk	0.25	70
43	Camel	ஓட்டகம்	oṭṭakam	0	100
44	Candle	மெழுகுவர்த்தி	meḷukuvartti	0.08	91.6
45	Cannon	பீரங்கி	pīraṅki	0.25	63.3
46	Cap	தொப்பி	Toppī	0.16	78.3
47	Car	கார்	Kār	0.15	50
48	Carrot	கேரட்	kēraṭ	0.23	55
49	Cat	பூனை	pūṇai	0	100
50	Caterpillar	புழு	puḷu	0.25	55
51	Celery	கொத்தமல்லி	Kottamalli	0.31	8.3
52	Chain	சங்கிலி	caṅkili	0.15	83.3
53	Chair	நாற்காலி	nāṅkāli	0.11	88.3
54	Cherry	செர்ரி	Cerri	0.37	31.6
55	Chicken	கோழி	koḷi	0	100
56	Chisel	உலி	Uli	0.36	28.3
57	Church	தேவாலயம்	Tēvālayam	0.24	66.6
58	Cigar	சுருட்டு	curuṭṭu	0.26	60
59	Cigarette	சிகரெட்	cikerāṭ	0.25	66.6
60	Clock	கடிகாரம்	kaṭīkāram	0	100
61	Clothespin	கிளிப்	kiḷip	0.29	61.6
62	Cloud	மேகம்	Mēkam	0.15	83.3
63	Clown	கோமாளி	kōmāli	0.11	61.6
64	Coat	கோர்ட்	kōṛṭ	0.29	41.6
65	Comb	சீப்பு	Cīppu	0.03	88.3
66	Corn	சோளம்	cōḷam	0.08	91.6
67	Couch	சோபா	Cōpā	0.23	73.3
68	Cow	மாடு	māṭu	0	100
69	Crown	கிரிடம்	kiriṭam	0.18	78.3

70	Cup	கோப்பை	Kōppai	0.2	75
71	Deer	மான்	māṇ	0.03	96.6
72	Desk	மேஜை	Mējai	0.12	86.6
73	Dog	நாய்	Nāy	0	100
74	Doll	பொம்மை	Pomma	0.08	78.3
75	Donkey	கழுதை	kaḷutai	0.02	80
76	Door	கதவு	Katavu	0.02	95
77	Doorknob	கைப்பிடி	kaippiti	0.28	63.3
78	Dress	கவுன்	kavuṇ	0.23	66.6
79	Dresser	டிவி டெபிள்	ṭivi ṭepi	0.34	16.6
80	Drum	மேளம்	mēlam	0.37	40
81	Duck	வாத்து	Vatu	0	100
82	Eagle	கழுகு	kaḷuku	0.11	86.6
83	Ear	காது	Kātu	0	100
84	Elephant	யானை	yāṇai	0	100
85	Envelope	கடிதம்	kaṭitam	0.18	80
86	Eye	கண்	kaṇ	0	100
87	Fence	வேலி	ve:li	0.28	63.3
88	Finger	விரல்	Viral	0	100
89	Fish	மீன்	mīṇ	0	100
90	Flag	கொடி	koṭi	0.06	93.3
91	Flower	பூ	Pū	0	100
92	Flute	புல்லாங்குழல்	pullāṅkuḷal	0.36	30
93	Fly	ஈ	Ī	0.08	90
94	Foot	கால்	Kal	0.02	90
95	Football	பந்து	Pantu	0.35	50
96	Football helmet	தலைக்கவசம்	Talaikkavacam	0.27	66.6
97	Fork	முல் கரண்டி	mul karaṇṭi	0.26	65
98	Fox	நரி	Nari	0.05	91.6
99	French horn	ட்ரம்பெட்	ṭrampeṭ	0.36	40
100	Frog	தவளை	tavaḷai	0	100
101	Frying pan	தவா	tavā	0.36	40
102	Garbage can	குப்பைத் தொட்டி	kuppait toṭṭi	0.08	56.6
103	Giraffe	ஒட்டகச்சிவிங்கி	oṭṭakacciviṅki	0.15	83.3
104	Glass	கண்ணாடி டம்ளர்	kaṇṇāṭi ṭamḷar	0.17	81.6
105	Glasses	மூக்குக் கண்ணாடி	mūkkuk kaṇṇāṭi	0.05	95

106	Glove	கையுரை	kaiyurai	0.26	66.6
107	Goat	ஆடு	āṭu	0.11	88.3
108	Gorilla	மனிதகுரங்கு	maṇitakuraṅku	0.18	80
109	Grapes	திராட்சை	tirāṭcai	0.07	90
110	Grasshopper	வெட்டுக்கிளி	vettukkiḷi	0.16	70
111	Guitar	கிட்டார்	kiṭṭār	0.2	76.6
112	Gun	துப்பாக்கி	tuppākki	0.08	91.6
113	Hair	முடி	muṭi	0.13	83.3
114	Hammer	சுத்தி	cutti	0.17	81.6
115	Hand	கை	kai	0.12	86.6
116	Hanger	ஹேங்கர்	hēṅkar	0.27	66.6
117	Harp	கேட்	kēṭ	0.33	18.3
118	Hat	தொப்பி	toppi	0.18	80
119	Heart	ஹார்ட்டின்	hāṛṭṭiṅ	0.06	93.3
120	Helicopter	ஹெலிகப்டர்	helikapṭar	0.33	51.6
121	Horse	குதூரை	kūturai	0	100
122	House	வீடு	vīṭu	0.06	93.3
123	Iron box	இஸ்திரிப்பெட்டி	istirippettī	0.15	83.3
124	Ironing board	ஈஸ்திரிமேஜை	īstimējai	0.36	33.3
125	Jacket	சர்ட்	caṛṭ	0.35	38.3
126	Kangaroo	கங்காரு	kaṅkāru	0.15	83.3
127	Kettle	டீஜக்	ṭījak	0.37	35
128	Key	சாவி	cāvi	0	100
129	Kite	காத்தாடி	kāttāḍi	0	100
130	Knife	கத்தி	katti	0.25	68.3
131	Ladder	ஏணி	ēṇi	0.08	91.6
132	Lamp	இரவு விளக்கு	iravu viḷakku	0.2	76.6
133	Leaf	இலை	ilia	0.03	96.6
134	Leg	முன்னங்கால்	muṇṇaṅkāḷ	0.02	95
135	Lemon	எலுமிச்சைபழம்	elumiccaipaḷam	0.24	63.3
136	Leopard	சிறுத்தை	ciṛuttai	0.12	78.3
137	Lettuce	இலைக் கோசு	ilaik kōcu	0.28	41.6
138	Light bulb	பல்ப்	paḷp	0.27	66.6
139	Light switch	சுவிச்	cuvic	0.33	51.6
140	Lion	சிங்கம்	ciṅkam	0	100
141	Lips	வாய்	vāy	0	100

142	Lobster	தேல்	tEl	0.31	50
143	Lock	பூட்டு	pūṭṭu	0.03	96.6
144	Mitten	பாக்ஸிங் கிளவுஸ்	pāksiŋ kiḷavus	0.37	28.3
145	Monkey	குரங்கு	kuraŋku	0	100
146	Moon	நிலா	nilā	0.05	85
147	Motor cycle	மோட்டார் சைக்கிள்	mōṭṭār caikki	0.15	83.3
148	Mountain	மலை	malai	0	100
149	Mouse	எலி	èl	0	100
150	Mushroom	நாய்க்குடை	nāyḱḱuḱai	0.15	83.3
151	Nail	ஆணி	āṇi	0.08	88.3
152	Nail file	கத்தி	katti	0.08	91.6
153	Necklace	முத்துமாலை	muttumālai	0.17	78.3
154	Needle	ஊசி	ūci	0.08	91.6
155	Nose	மூக்கு	mūḱḱu	0.03	96.6
156	Nut	திருகு	tiruku	0.28	58.3
157	Onion	வெங்காயம்	veŋḱāyam	0.02	95
158	Orange	கமலாப்பழம்	kamalāppaḱam	0.32	55
159	Ostrich	நெருப்புக் கோழி	neruppuk kōḱi	0.18	75
160	Owl	ஆந்தை	āntai	0.06	93.3
161	Paint brush	வண்ணத்திட்டும்கோல்	vaṇṇamtiṭṭumkōl	0.32	55
162	Pants	கால்சட்டை	kāḱaṭṭai	0.23	73.3
163	Peach	பழம்	paḱam	0.34	18.3
164	Peacock	மயில்	mayil	0.02	95
165	Peanut	வேர்கடலை	veṛkaṭalai	0.09	90
166	Pear	சுரைக்காய்	cūraikkāy	0.37	28.3
167	Pen	பேனா	pēṇā	0	100
168	Pencil	பென்சில்	pencil	0.08	91.6
169	Penguin	பென்குயின்	pēṅkuyiṇ	0.31	60
170	Pepper	கொடைமிளகாய்	koṭaimiḱakāy	0.2	76.6
171	Piano	பியானோ	piyāṇō	0.36	36
172	Pig	பண்ணி	paṇṇi	0.12	86.6
173	Pineapple	அன்னாசிப்பழம்	aṇṇācippaḱam	0.05	95
174	Pipe	புகைபிடிக்குதல்	pukaipiṭṭikkutal	0.36	46.6
175	Pitcher	ஜார்	jār	0.28	41.6
176	Pliers	கோடாவேலி	kōṭāvēli	0.31	56.6
177	Plug	பலகு	palaku	0.32	56.6

178	Pocket book	கைபை	kaipai	0.08	91.6
179	Pot	பல்குண்டான்	palkuṇṭāṇ	0.36	33.3
180	Potato	உருளைக்கிழங்கு	uruḷaikkiḷaṅku	0.2	76.6
181	Pumpkin	பூசனிக்காய்	pūcaṇikkāy	0.09	90
182	Rabbit	முயல்	muyal	0.02	98.3
183	Raccoon	பூனுகுப்பூனை	pūṇukuppūṇai	0.31	60
184	Record player	கிராமபோன்	kirāmapōṇ	0.36	23.3
185	Refrigerator	குளிர்சாதனப்பெட்டி	kuḷircātaṇappetti	0.08	91.6
186	Rhinoceros	காண்டாமிருகம்	kāṇṭāmīrukam	0.18	80
187	Ring	மோதிரம்	mōtiram	0.06	93.3
188	Rocking chair	ஆடும்நாற்காலி	āṭumnārkaḷi	0.18	76.6
189	Roller skate	உருளும்செருப்பு	uruḷumceruppu	0.37	28.3
190	Rolling pin	உருளை	uruḷai	0.37	30
191	Rooster	சேவல்	cēval	0.08	91.6
192	Ruler	அளவுகோல்	aḷavukōl	0.09	90
193	Sailboat	பாய்மரக்கப்பல்	pāymarakkappal	0.15	83.3
194	Salt shaker	பாட்டில்	pāṭṭil	0.36	30
195	Sandwich	சான்விச்	cāṇvic	0.37	36
196	Saw	ரமபம்	ramapam	0.18	80
197	Scissors	கத்திரிக்கோல்	kattirikkōl	0.09	91.6
198	Screw	திருகாணி	tirukāṇi	0.22	70
199	Screw driver	திருப்புளி	tiruppuḷi	0.31	60
200	Sea horse	கடல்குதிரை	kaḷalkutirai	0.3	61.6
201	Seal	கடல்நாய்	kaḷalnāy	0.36	40
202	Sheep	செம்மறிஆடு	cemmarīāṭu	0.18	80
203	Shirt	சாட்டை	cāṭṭai	0.26	66.6
204	Shoe	சூ	cū	0.27	65
205	Skirt	பாவாடை	pāvāṭai	0.28	63.3
206	Skunk	அணில்	aṇil	0.15	83.3
207	Sled	சில்டு	cilṭu	0.27	41.6
208	Snail	நத்தை	nattai	0.06	93.3
209	Snake	பாம்பு	pāmpu	0	100
210	Snow man	பனிப்பொம்மை	paṇippomma	0.31	60
211	Socks	கால்உரை	kāḷurai	0.36	33.3
212	Spider	சிலந்தி	cilanti	0.19	76.6
213	Spinning wheel	ராட்டினம்	rāṭṭiṇam	0.23	73.3

214	Spool of thread	நூலுருண்டை	nūluruṅṅai	0.34	53.3
215	Spoon	ஸ்பூன்	spūṅ	0.19	66.6
216	Squirrel	அணில்	aṅil	0.09	90
217	Star	நட்சத்திரம்	naṭcattiram	0.08	91.6
218	Stool	ஸ்டூல்	stūl	0.32	43.3
219	Stove	துவைக்கும்எந்திரம்	tuvaikkumentiram	0.3	61.6
220	Strawberry	ஸ்ட்ராபெரி	strāperi	0.2	76.6
221	Suitcase	சூட்கேஸ்	cūṭkēs	0.22	60
222	Sun	சூரியன்	cūriyaṅ	0	100
223	Swan	அண்ணம்	aṅṅam	0.14	85
224	Sweater	சுவட்டர்	cuvaṭṭar	0.31	50
225	Swing	ஊஞ்சல்	ūṅcal	0.18	80
226	Table	டெபிள்	ṭepil	0.15	83.3
227	Telephone	தொலைபேசி	tolaipēci	0.12	86.6
228	Television	தொலைக்காட்சி	tolaikkāṭci	0.03	96
229	Tennis racket	ராக்கெட் மட்டை	rākkeṭ maṭṭai	0.26	65
230	Thimble	டம்ளர்	ṭamlar	0.29	13.3
231	Thumb	கட்டைவிரல்	kaṭṭaiviral	0.02	96
232	Tie	டை	ṭai	0.27	66.6
233	Tiger	புலி	puli	0.03	93.3
234	Toaster	பிரட்டொஸ்டர்	piraṭṭostar	0.36	33.3
235	Toe	நகம்	nakam	0.21	58.3
236	Tomato	தக்காளி	takkāḷi	0.09	90
237	Tooth brush	பல்விளக்கும்பிரஸ்	palviḷakkumpiras	0.12	86.6
238	Top	பம்பரம்	pamparam	0.15	83.3
239	Traffic light	சிக்னல்	cikṅal	0.22	75
240	Train	புகைவண்டி	pukaivaṅṅi	0.06	93.3
241	Tree	மரம்	maram	0	100
242	Truck	லாரி	lāri	0.14	76.6
243	Trumpet	ட்ரம்பெட்	ṭrampeṭ	0.35	50
244	Turtle	ஆமை	āmai	0.12	86.6
245	Umbrella	குடை	kuṭai	0	60
246	Vase	பூச்செட்டி	pūcceṭṭi	0.32	51.6
247	Vest	கோர்ட்	kōṛṭ	0.34	18.3
248	Violin	வயலின்	vayaliṅ	0.25	60
249	Wagon	தள்ளுவண்டி	taḷḷuvaṅṅi	0.3	43.3

250	Watch	கைக்கடிகாரம்	kaikkaḷikāram	0.11	91.6
251	Water can	தண்ணீர்ஜாடி	taṇṇīrjāḍi	0.34	53.3
252	Watermelon	தர்பூசணி	tarpūcaṇi	0.02	98.3
253	Well	கிணறு	kiṇaru	0.02	98.3
254	Wheel	சக்கரம்	cakkaram	0	100
255	Whistle	விசில்	vicil	0.06	93.3
256	Wind mil	கற்றாளை	karrālai	0.34	53.3
257	Window	ஜன்னல்	jaṇṇal	0.29	61.6
258	Wine glass	கோப்பை	kōppai	0.36	25
259	Wrench	ஸ்பேனர்	spēnar	0.31	58.3
260	Zebra	வரிக்குதிரை	varikkutirai	0	100