Name Agreement Norms for a Set of 260 Pictures in Kannada for Children

Wasim Ahmed, MASLP, Anusha N Murthy, Aditi Gargeshwari, and Nikitha M

Abstract

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. 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.

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.

A total of 100 subjects within the age range of 5-16 years participated in the study. All were native Kannada speakers and approximately equal number of males and females served in task. Stimuli consisted of 260 pictures, developed by Snodgrass and Vanderwart (1980). All were instructed to identify each picture with the first name that came to their mind which may consist of more than one word. 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.

Results of this study provided a positive indication that these pictures can be utilized to fulfill various experimental needs pertaining to Kannada speaking children, 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, Kannada, Children, Line Drawings.

**Introduction**

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 et al., 1997; Lachman, Shaffer, & Hennrikus, 1974; Paivio, et al., 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 Turennout, 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 for children in Kannada 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 Kannada. 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 children.

Method

A total of 100 subjects within the age range of 5-16 years participated in the study. All were native Kannada speakers and approximately equal number of males and females served in task. Stimuli consisted of 260 pictures, developed by Snodgrass and Vanderwart (1980). Subjects above 9 years of age were given a questionnaire containing not more than 12 drawings in each page and were instructed to write the names within the space provided. Whereas, subjects below 8 years of age were presented with flash cards depicting individual drawings and oral responses were recorded by the authors. All were instructed to identify each picture with the first name that came to their mind which may consist of more than one word. For the picture of an object that was unknown to them, subjects performing oral task mentioned it verbally whereas the ones filling up the questionnaire wrote the symbol (✘) i.e., don't know object [DKO]. Similarly, if the object was known but the name was unknown, they were to respond (✔) i.e., don't know name [DKN]. 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. Information statistic H is same as U, the measure of codability of stimulus (Snodgrass and Yuditsky, 1996). Greater importance was given to H statistics because it
captures more information than just percentage agreement scores (Snodgrass & Vanderwart, 1980). 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; Pompéia et al., 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. All the appendices consist of the actual response in Kannada script and the corresponding International Phonetic Alphabet (IPA) transcripts using a web link: http://people.w3.org/rishida/scripts/pickers/ipa/ of 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).

Appendix A provides information about the ‘dominant name’ or high name agreement responses (name most frequently provided by the subjects) which have low H value and high percentage scores. Appendix B and C provide information regarding those pictures that received misnomers. Appendix B describes the pictures which received locally substituted names as dominant responses, whereas, Appendix C tabulates the pictures that received ambiguous names as the dominant response. Appendix D consists of information on pictures with low naming responses i.e., those pictures that generated numerous alternate names or DKO or DKN or TOT responses. Appendix E encompasses the list of pictures which obtained two equally dominant correct responses.

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

<table>
<thead>
<tr>
<th></th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td>0.099</td>
</tr>
<tr>
<td>Median</td>
<td>0.073</td>
</tr>
<tr>
<td>SD</td>
<td>0.063</td>
</tr>
<tr>
<td>Skewness</td>
<td>1.76</td>
</tr>
<tr>
<td>Range</td>
<td>0.301</td>
</tr>
<tr>
<td>Minimum</td>
<td>0.046</td>
</tr>
<tr>
<td>Maximum</td>
<td>0.347</td>
</tr>
<tr>
<td>Percentiles 25th</td>
<td>0.05</td>
</tr>
<tr>
<td>Percentiles 75th</td>
<td>0.12</td>
</tr>
</tbody>
</table>
As it is evident from table 1 the distribution of H values had a low mean (0.099) and was positively skewed (1.76), indicating that concepts have a high name agreement overall. Out of the 260 pictures, 197 concepts had high name agreement indicating that these pictures can be utilized for clinical and research purposes concerning Kannada speaking children between the age range of 5 – 16 years. Among these 197 pictures some also had a dominant alternate name (Appendix E) 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\textsuperscript{th} percentile (0.12) were accepted as having high name agreement. Lower name agreement was observed for 63 of the concepts where each of the concepts had H value greater than the 75\textsuperscript{th} percentile and low percentage scores. Most of these concepts received misnomers which were further classified as:

(a) Ambiguous Pictures [Appendix C]: 4 (anchor misinterpreted as plough), 9 (artichoke as flower), 10 (ashtray as stove), 11 (asparagus as stick), 13 (baby carriage as cycle), 18 (barrel as tabla), 45 (cannon as bullock cart), 58 (cigar as pencil), 61 (clothes pin as nail cutter), 77 (door knob as wheel), 92 (flute as stick), 97 (fork as spoon), 106 (glove as hand), 110 (grasshopper as mosquito), 117 (harp as gate), 135 (lemon as orange), 142 (lobster as scorpion), 152 (nail file as knife), 163 (peach as tomato), 166 (pear as papaya), 178 (pocket book as bag), 194 (salt shaker as bottle), 206 (skunk as squirrel), 219 (stove as washing machine), 229 (tennis racket as bat), 230 (thimble as tumbler), 231 (thumb as finger), 248 (violin as guitar), 249 (wagon as basket).

(b) Twenty pictures were named with a common local substitute [Appendix B]: 1 (accordion was named as harmonium), 33 (bow as tape), 124 (ironing board as table), 137 (lettuce as cauliflower), 144 (mitten as gloves), 159 (ostrich as stork), 177 (plug as switch), 179 (pot as cup), 183 (raccoon as cat), 184 (record player as compact disc), 192 (ruler as scale), 207 (sled as skate board), 210 (snowman as doll), 221 (suitcase as bag), 240 (truck as lorry), 246 (vase as pot), 247 (vest as shirt), 251 (water-can as jug), 256 (windmill as fan), 259 (wrench as spanner).

For fourteen of the pictures it was decided to accept two dominant names [Appendix E], 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: 35 (box), 37 (broom), 44 (candle), 53 (chair), 64 (coat), 78 (dress), 80 (drum), 101 (pan), 107 (goat), 108 (gorilla), 132 (lamp), 158 (orange), 173 (pineapple), 195 (sandwich).

Even though the participants had to provide the names for the concepts in Kannada, a few concepts received the English version of the concept as the dominant responses, for example pictures 36 (bread), 39 (bus), 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 Kannada speaking children, 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 mentioned in Appendix C which have a greater potential to generate ambiguous responses and may hamper the experimental results. Also, it may be noted that care must be taken while selecting the pictures mentioned in Appendix B and Appendix D.

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**APPENDIX A**

Pictures with High Name Agreement scores

<table>
<thead>
<tr>
<th>Pic No</th>
<th>Actual Name</th>
<th>Dominant response</th>
<th>IPA transcript</th>
<th>H</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Airplane</td>
<td>ವಿಮಾನ</td>
<td>[vimaːna]</td>
<td>0.07</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>Alligator</td>
<td>ಮೊಸಳೆ</td>
<td>[mosa[el]</td>
<td>0.06</td>
<td>78</td>
</tr>
<tr>
<td>5</td>
<td>Ant</td>
<td>ಇರುವೆ</td>
<td>[iruve]</td>
<td>0.05</td>
<td>89</td>
</tr>
<tr>
<td>6</td>
<td>Apple</td>
<td>ಸೆೇಬು</td>
<td>[se:bu]</td>
<td>0.05</td>
<td>95</td>
</tr>
</tbody>
</table>

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<td>ಕೆ</td>
<td>[kai]</td>
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<td>92</td>
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<tr>
<td>12</td>
<td>Axe</td>
<td>ಕಡಲಿ</td>
<td>[koɖali]</td>
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<td>62</td>
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<td>14</td>
<td>Ball</td>
<td>ಬೆಂಜಿ</td>
<td>[ʃeɳɖu]</td>
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<td>70</td>
</tr>
<tr>
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<td>Balloon</td>
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<td>63</td>
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<tr>
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<td>[ba[eɭaː]</td>
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<td>90</td>
</tr>
<tr>
<td>17</td>
<td>Barn</td>
<td>ಮನೆ</td>
<td>[mane]</td>
<td>0.05</td>
<td>97</td>
</tr>
<tr>
<td>19</td>
<td>Baseball bat</td>
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<td>[bæt]</td>
<td>0.12</td>
<td>29</td>
</tr>
<tr>
<td>20</td>
<td>Basket</td>
<td>ಬುಟ್ಟಿ</td>
<td>[bɔʈi]</td>
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<td>46</td>
</tr>
<tr>
<td>21</td>
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<td>24</td>
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<td>26</td>
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<td>27</td>
<td>Bicycle</td>
<td>ಸೆೈಕಲ್ಟ</td>
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<td>28</td>
<td>Bird</td>
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<td>31</td>
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<td>[ʃuːz]</td>
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<td>64</td>
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<td>32</td>
<td>Bottle</td>
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<td>Pronunciation</td>
<td>Rating</td>
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<td>---------------</td>
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<td>65</td>
<td>Comb</td>
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<td>hasu</td>
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<td>Crown</td>
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<td>45</td>
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<tr>
<td>70</td>
<td>Cup</td>
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<td>loːʈa</td>
<td>0.08</td>
<td>46</td>
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<tr>
<td>71</td>
<td>Deer</td>
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<td>ʤiːنكೆ</td>
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<td>86</td>
</tr>
<tr>
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<td>37</td>
</tr>
<tr>
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<td>Dog</td>
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<td>239</td>
<td>Traffic light</td>
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<td>[ˈtræfɪkˌlaiˈt]</td>
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<td>[ˈaːme]</td>
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<td>[ˈʃətər]</td>
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<td>[ˈwɔːtərˈmɪnəl]</td>
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<td>253</td>
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<td>[ˈbæːv]</td>
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### APPENDIX B

Pictures with misnomers (Local Substitutes)

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<th>Actual Name</th>
<th>Local substitution</th>
<th>IPA transcript</th>
<th>H</th>
<th>Percentage</th>
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<td>1</td>
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<td>[ha:rmə:njam]</td>
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<td>33</td>
<td>Bow</td>
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<td>[tə:p]</td>
<td>0.24</td>
<td>9</td>
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<td>124</td>
<td>Ironing board</td>
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<td>[tebal]</td>
<td>0.09</td>
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<td>Lettuce</td>
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<td>[hu:ko:su]</td>
<td>0.14</td>
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<td>144</td>
<td>Mitten</td>
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<td>[ɡləvz]</td>
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<td>159</td>
<td>Ostrich</td>
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<td>[kokare]</td>
<td>0.18</td>
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<td>[svigʃ]</td>
<td>0.14</td>
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<td>Pot</td>
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<td>[bɔɾalu]</td>
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<td>[bɛkʊ]</td>
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<td>[siːqi]</td>
<td>0.2</td>
<td>13</td>
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### APPENDIX C

Pictures with misnomers (Ambiguous responses)

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<td>huː</td>
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<td>Ashtray</td>
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<td>gæs</td>
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<td>Asparagus</td>
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<td>k ɖ i</td>
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<td>tabala</td>
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<td>Pronunciation</td>
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<td>Position</td>
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<td>[soleŋ]</td>
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<td>[bæt]</td>
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<td>[loːʈa]</td>
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<td>[beraɭu]</td>
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## APPENDIX D

Pictures with Low Name Agreement scores

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<th>Percentage</th>
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<td>Cherry</td>
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<td>/seːbu/</td>
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<td>Cigarette</td>
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<td>/siɡarɛʈ/</td>
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<td>/siːhɔrs/</td>
<td>0.14</td>
<td>23</td>
</tr>
<tr>
<td>201</td>
<td>Seal</td>
<td>ಸೇಲ್</td>
<td>/siːl/</td>
<td>0.17</td>
<td>16</td>
</tr>
</tbody>
</table>

## APPENDIX E

Pictures with two dominant correct responses
<table>
<thead>
<tr>
<th>Pic No</th>
<th>Actual Name</th>
<th>Dominant Alternate Names</th>
<th>IPA transcript</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>Box</td>
<td>ಬಾಕ್ಸ್, ಡಬ್</td>
<td>[bɔks], [dəbi]</td>
<td>29,25</td>
</tr>
<tr>
<td>37</td>
<td>Broom</td>
<td>ಪೊರಕೆ, ಬರಲು</td>
<td>[porake], [baralu]</td>
<td>12,10</td>
</tr>
<tr>
<td>44</td>
<td>Candle</td>
<td>ಕಾಂಡಲ್ಟ, ದಿೇಪ</td>
<td>[kaːndl], [diːpa]</td>
<td>29,26</td>
</tr>
<tr>
<td>53</td>
<td>Chair</td>
<td>ಕುಚಿ, ಚೆೇರ್</td>
<td>[kəʧi], [ʧeːr]</td>
<td>50,45</td>
</tr>
<tr>
<td>64</td>
<td>Coat</td>
<td>ಕೆೊೇಟ್, ಅೆಂಗಿ</td>
<td>[koːʈ], [aŋi]</td>
<td>28,24</td>
</tr>
<tr>
<td>78</td>
<td>Dress</td>
<td>ಪೊರಕೆ, ಬರಲು</td>
<td>[porake], [baralu]</td>
<td>26,26</td>
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<tr>
<td>80</td>
<td>Drum</td>
<td>ತಮಟೆ, ಡೆಮ್</td>
<td>[tamaʈe], [ɖr m]</td>
<td>9,8</td>
</tr>
<tr>
<td>101</td>
<td>Frying pan</td>
<td>ತವ, ಪ್ಾಾನ್</td>
<td>[t ava], [pæn]</td>
<td>8, 7</td>
</tr>
<tr>
<td>107</td>
<td>Goat</td>
<td>ಆಡು, ಮೆೇಕೆ</td>
<td>[aːɖu], [meːke]</td>
<td>37, 30</td>
</tr>
<tr>
<td>108</td>
<td>Gorilla</td>
<td>ಗೊರಲಲ, ಚಿೆಂಪ್ಾಾನ್ಸ್</td>
<td>[gorila], [ʧɪmpænziː]</td>
<td>23, 22</td>
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<td>132</td>
<td>Lamp</td>
<td>ಬೆೆಡ್, ಸಾಾೆಂಡಿೆಚ್</td>
<td>[bræɖ], [sændviʧ]</td>
<td>19, 16</td>
</tr>
<tr>
<td>158</td>
<td>Orange</td>
<td>ಕಿತತಲೆಹಣ್ುು, ಮೊಸೆಂಬ</td>
<td>[kɪtalehəu], [mosambi]</td>
<td>18, 17</td>
</tr>
<tr>
<td>173</td>
<td>Pine apple</td>
<td>ಎಂಜೇಲಿೆ, ಮೆಂಜೇರೆಲಿೆ</td>
<td>[anaːnas], [pajəpəl]</td>
<td>34, 30</td>
</tr>
<tr>
<td>195</td>
<td>Sandwich</td>
<td>ಬ್ರೆಡ್, ಸಾಂಡ್ವಿಚ್</td>
<td>[braɛ], [sændvɪʧ]</td>
<td>22, 22</td>
</tr>
</tbody>
</table>

References


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