Naming times and standardized norms for the Italian PD/DPSS set of 266 pictures: Direct comparisons with American, English, French, and Spanish published databases

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The present study provides Italian normative measures for 266 line drawings belonging to the new set of pictures developed by Lotto, Dell'Acqua, and Job (in press). The pictures have been standardized on the following measures: number of letters, number of syllables, name frequency, within-category typicality, familiarity, age of acquisition, name agreement, and naming time. In addition to providing the measures, the present study focuses on indirect and direct comparisons (i.e., correlations) of the present norms with databases provided by comparable studies in Italian (in which normative data were collected with Snodgrass & Vanderwart's set of pictures; Nisi, Longoni, & Snodgrass, 2000), in British English (Barry, Morrison, & Ellis, 1997), in American English (Snodgrass & Vanderwart, 1980; Snodgrass & Yuditsky, 1996), in French (Alario & Ferrand, 1999), and in Spanish (Sanfeliu & Fernandez, 1996).

It is unquestionable that the standardization of pictorial stimuli, such as that carried out in their seminal work by Snodgrass and Vanderwart (1980), had a positive effect on studies of object processing. Such stimuli have been used for research purposes in several fields of experimental psychology, with the obvious benefit of being readily available for selection according to the number of object characteristics that were obtained following their validation for an American sample. This standardized set of pictorial stimuli has been used in experiments with adults that focused on the difference in speed between reading words and naming pictures (e.g., Lotto, Rumiati, & Job, 1996; Snodgrass & McCullough, 1986; Vanderwart, 1984) and in perceptual identification and recognition experiments (e.g., Snodgrass, 1984; Snodgrass & Corwin, 1988; Snodgrass & Poster, 1992). In priming experiments, these stimuli have also been modified in order to study the effect of the prior exposure of fragmented pictures (e.g., Feenan & Snodgrass, 1990; Snodgrass & Feenan, 1992) or fragmented words (Snodgrass & Poster, 1992) on processing of subsequent stimuli. Furthermore, in order to adapt the material to populations of different ages, the same set of stimuli has been

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standardized for 5- to 6-year-old American children (Berman, Friedman, Hamberger, & Snodgrass, 1989), and for 8- to 10-year-old American children (Cycowicz, Friedman, Rothstein, & Snodgrass, 1997).

The widespread need for standardized pictorial material has recently motivated a series of studies in which normative data have been collected in different linguistic contexts, using Snodgrass and Vanderwart's (1980) set of pictures. This has been the case for British English (Barry, Morrison, & Ellis, 1997), French (Alario & Ferrand, 1999), Spanish (Sanfeliu & Fernandez, 1996), Dutch (Martein, 1995), and Italian (Nisi, Longoni, & Snodgrass, 2000). More or less generally across these studies, the rated object dimensions concerned the familiarity of the concepts represented by the pictures, the codability of the stimuli, such as the agreement on the names or on the images elicited by the pictures, the complexity of the visual structure of the pictures, and the age at which the concepts represented by the pictures were first processed and/or coded into memory. In two previous studies, measures of the time it took to name the pictures were also obtained (Barry et al., 1997; Snodgrass & Yuditsky, 1996).

The scope of the present work is twofold. First, this work provides norms for a set of 266 pictures standardized for an Italian sample. We deviate from the commonly adopted procedure of using Snodgrass and Vanderwart's (1980) pictures. Instead, we presented, to a sample of Italian subjects (N=178), a new set of pictures (Lotto, Dell'Acqua, & Job, in press) that were extracted from sources other than previously published databases (i.e., adapted from dictionaries and books). These pictures are available in PCX bitmapped format (downloadable both as a zipped archive and as single items; http://olpss.psy. unipol.it/psychdata.htm). Furthermore, in order to invite

researchers operating in different linguistic communities to use the present set of pictures, we provide both indirect and direct comparisons between the present normative data and those from previous studies that have used Snodgrass and Vanderwart's set of pictures for standardization purposes. In doing this, we propose a method by which to estimate the relative influence of cultural factors (e.g., linguistic factors and/or those modulated by the different cultural contexts) and visual factors (i.e., factors modulated by the visual dissimilarity among our and Snodgrass & Vanderwart's pictures) on the distribution of the values reported across the studies that we examine.

METHOD

Subjects

A total of 178 students at the University of Padova volunteered to participate in this study. The age of the subjects ranged from 20 to 30 years. All the subjects had normal or corrected-to-normal vision. All the subjects in the naming experiment had normal hearing.

Material

A set of 266 black line drawings of real objects was generated for the present study. Some of the line drawings were created anew, and some were adapted from illustrations in dictionaries and books. The objects belonged to 13 distinct semantic categories (i.e., birds, buildings, clothes, flowers, furniture, fruits, housewares, mammals, musical instruments, receptacles, vegetables, vehicles, and weapons). An additional ad hoc category (i.e., mixed) was created by including objects belonging to different semantic categories for which only a few exemplars were available. The number of objects in each category varied from 11 to 32. A file format version of each picture was obtained by importing picture hard copies on a computer via scanner. When displayed on the monitor of the computer (background luminance, 28 cd/m²) in the naming experiment, each picture (about 25 cd/m²) could be inscribed in a square with a side of less than 5° of visual angle, at a viewing distance of about 60 cm. For the rating procedure, the set of 266 picture hard copies was divided into two sublists, with the constraint that all the elements of a given semantic category were grouped in one sublist. This constraint did not apply to the pictures in the mixed category. For each sublist, a booklet was created in which each picture was reported in the center of a separate sheet, together with the name of the picture semantic category (above) and an n-point scale (see below), with n depending on the rated dimension. For the pictures included in the mixed category, the semantic categories reported above the pictures were work tools (for sickle, scissors, hammer, brush, rake, palette, pincers, and drill), personal effects (for umbrella, pipe, and razor), habitations (for teepee), sweets (for candy), excursion tools (for hammock, binoculars, compass, map, and backpack), house objects (for antenna, candle, globe, radio, faucet, and clock), measurement tools (for hourglass and scale), sport articles (for helmet), toys (for skittle), jewels (for earrings), natural objects (for leaf), space objects (for planet), and plants (for cactus, palm tree, and ivy).

Rating Procedure

Within-category typicality. Thirty subjects took part in the present rating task, 15 for each type of sublist. Each subject was instructed to judge, with no pressure as to speed, how typical each picture was within the corresponding category by marking a value on the scale $(1 = not \ typical; 7 = highly \ typical)$.

Familiarity. Thirty subjects took part in the present rating task, 15 for each type of sublist. None participated in the typicality-rating task. Each subject was instructed to judge, with no pressure

as to speed, how familiar the object depicted in each picture was, based on his/her own personal experience (1 = not familiar; 7 = highly familiar).

Age of acquisition. For the present rating task, each picture in the booklets was replaced with the corresponding name. Thirty subjects took part in the present rating task, 15 for each type of sublist. None participated in the typicality- and familiarity-rating tasks. Each subject was instructed to indicate, with no pressure as to speed, how old he/she was when he/she first encountered or received information about each word, using the 9-point scale reported below the picture (1 = 2 years or younger, 2 = 3 years, 3 = 4 years, 4 = 5 years, 5 = 6 years, 6 = 7/8 years, 7 = 9/10 years, 8 = 11/12 years, and 9 = 13 years or older).

Speeded Naming Procedure

Two different experimental sessions were required for the naming data collection. A list of 220 objects was presented in the first session. A list of 168 objects was presented in the second session. In each session, 44 subjects took part in the naming task. The experiment was carried out in a soundproof room, with the constant presence of a research assistant for response-scoring purposes. The pictures were displayed on the monitor of the computer (resolution, 640×480 ; cathode ray tube), and the vocal responses were recorded through a cardiod microphone. The monitor and microphone settings were controlled by a 166-MHz CPU and MEL software.

Each session consisted of three phases, each preceded by the presentation of written instructions on the monitor of the computer. The first phase was devoted to adjustment of microphone settings. Each subject was instructed to read, as fast and accurately as possible, a list of 10 words referring to abstract concepts, presented 1 at a time at the center of the monitor. An interval of 3 sec elapsed between the presentation of 2 successive words. This phase was repeated if a single failure in detecting the subject's vocal response occurred. At each repetition, the sensitivity threshold of the microphone was lowered. The second phase was devoted to practice for the actual naming experiment. On each of eight trials, a fixation point was presented in the center of the monitor, which disappeared when the research assistant pressed a start button (the space bar on the keyboard of the computer). After pressing the space bar, an interval of 400 msec elapsed before the presentation of a warning signal (a 1000-Hz pure tone) for 100 msec. At tone offset, an interval of 700 msec elapsed before the presentation of a picture in the center of the monitor. The subjects were instructed to name each picture as fast and accurately as possible, trying to avoid the production of undesired noise (cough, hesitations, etc.). Each picture remained in view until a vocal response was detected. An interval of 2 sec elapsed between response detection and the beginning of the next trial. The third phase was dedicated to data collection. Before the beginning of the third phase, the instructions stressed the importance of speed and accuracy during the whole experiment. Some rest during the experiment was allowed upon request of the subject. The order of picture presentation was fully randomized across subjects.

During the experiment, each response was scored by the research assistant, using the following scoring rule. A response could be *correct* (i.e., the name produced by the subject corresponded to the name assigned a priori to each picture), *alternative* (i.e., the name produced by the subject did not correspond to the assigned name), or *invalid*, reflecting microphone triggering by vocalizations that were not name productions.

RESULTS

Trimming of the Naming Time Distribution

The data from 2 subjects in each naming session were discarded because of software malfunctioning or because

the rate of invalid responses exceeded the rate of both correct and alternative responses. Valid naming data were thus collected from 84 subjects. The analyses of the naming times (RTs) concentrated on correct responses. RTs were first screened for outliers, using a modification of the procedure proposed by Van Selst and Jolicœur (1994). The RTs for each picture were sorted, and the most extreme observation was temporarily excluded from consideration. The mean and standard deviation of the remaining values were then computed. Cutoff values were established, using the following equations:

$$V_{\text{low}} = X - C_n * SD$$

and

$$V_{\text{high}} = X + C_n * SD.$$

The smallest and largest observations were then checked against the cutoff values, V_{low} and V_{high} . If one or both fell outside the bounds, these observations were excluded from further consideration and were defined as outliers. This algorithm was then applied anew to the remaining data. The value of C depended on the sample size, n, so that the estimated final mean was not influenced by sample size. For samples of 100 or larger, C is 3.5, and the value of C is increased nonlinearly as sample size decreases, to a maximum of 8.0 for a sample size of 4. Note that, with this algorithm, outliers were calculated on the basis of the RT distribution for a given picture, not that for a given subject. This had the important implication of avoiding the elimination of RTs to difficult-to-name pictures, which obviously tended to fall into the slowest portion of the subject's RT distribution (see Snodgrass & Yuditsky, 1996, for a discussion of this problem). The application of the outlier elimination procedure resulted in a total loss of 3.8% of the available RT data.

Normative Data Description

An Excel-formatted version of the normative data is available on line (http://olpss.psy.unipol.it/psychdata. htm). The complete list of the normative data is reported in Appendix A. The first 2 columns of the list in Appendix A present the pictures' names (correct and alternative), in both Italian and English. Each alternative name (in lowercase, preceded by a right-pointing arrow) is associated with the percentage of subjects (in parentheses) who produced the alternative response. Each picture is associated with the following indexes. In the 3rd column (labeled CAT), a three-letter abbreviation of the semantic category of each picture is reported (i.e., BIR, birds; FRU, fruits; VEH, vehicles; VEG, vegetables; MIX, mixed; WEA, weapons; BUI, building; FOR, furniture; INS, musical instruments; MAM, mammals; FLO, flowers; CLO, clothes; REC, receptacles; HOU, housewares). Number of letters and number of syllables of the pictures' names are reported in the 4th and 5th columns (labeled LET and SYL), respectively. Frequency values (log-transform of 1 + number of occurrences over one million) of the printed pictures' names are reported in the 6th column

(labeled FRO). The source of the frequency values was Stella and Job's (in press) database. In the 7th column (labeled S), the number of the session in which the picture RTs have been collected is reported (1, first session; 2. second session). Mean familiarity values are reported in the 8th column (labeled FAM), together with the relative standard deviations in the 9th column (labeled SD). Mean typicality values are reported in the 10th column (labeled TYP), together with the relative standard deviations in the 11th column (SD). Mean age of acquisition values are reported in the 12th column (labeled AoA), together with the relative standard deviations in the 13th column (SD). Mean naming times are reported in the 14th column (labeled RT). Name agreement and concept agreement values are reported in the 15th (labeled NA) and 16th (labeled CA) columns, respectively. NA and CA values are reported in the form of the percentages of subjects who produced the correct name (for NA) or the correct name plus synonyms (CA). Synonyms of the correct name (i.e., those whose NA value contributed to the computation of the CA value) are marked with an asterisk. When an NA value associated with a correct name is not the modal value (i.e., the correct name is not the most frequently produced name), all of the more frequent alternative names are marked with the symbol @, H values (computed by using the equation described by Snodgrass & Yuditsky, 1996) are reported in the 17th column (labeled H). A strict criterion (Snodgrass & Vanderwart, 1980) was adopted to compute the H statistic for each item, so that all names that were not identical to the correct name were considered in the computation.

Stepwise Multiple Regression

The matrix of partial correlation among the measures for the Italian sample is reported in Table 1A, and the results of the multiple regression analysis are reported in Table 1B. The overall equation for the multiple regression was significant [R = .71; F(10,255) = 25.82, p <.0001]. As can be seen from the results of the multiple regression analysis, the measures of CA and TYP and the H statistic resulted in reliable predictors of the RT distribution. AoA figured as a significant predictor of the picture RTs in a separate regression in which CA values were temporarily excluded from consideration. This separate analysis was motivated by the possible masking effect on the potential reliability of AoA in accounting for the RT distribution, owing to the strong negative correlation between AoA and CA values, as is evidenced in the partial correlation matrix (see Edwards, 1979).

Comparisons With Previous Studies

Indirect comparisons with previous naming time studies. Although several studies in this field have reported standardized norms for different languages (see the forthcoming section), picture RTs have been collected in only two normative studies in which large samples of pictures (N > 200) were employed. In this section, we focus on an indirect comparison between the multiple

Table 1A

Matrix of Partial Correlations Among the Italian Measures

Measures	RT	LET	SYL	FRQ	FAM	TYP	AoA	NA	CA
LET	n.s.	•							
SYL	.164	.852							
FRQ	406	345	313						
FAM	249	n.s.	n.s.	.236					
TYP	231	121	n.s.	.343	.457				
AoA	.472	n.s.	.181	519	502	321			
NA	634	165	236	.422	.220	.134	492		
CA	671	n.s.	182	.426	.238	n.s.	540	.933	
Н	.538	n.s.	.172	279	148	n.s.	.323	798	714

Note—RT, naming time; LET, number of letters; SYL, number of syllables; FRQ, frequency; FAM, familiarity; TYP, typicality; AoA, age of acquisition; NA, name agreement; CA, concept agreement; n.s., nonsignificant.

regression results obtained in the present study and the results reported by Snodgrass and Yuditsky (1996, Experiment 1) and Barry et al. (1997). It is perhaps worth noting that RTs in these different studies have been trimmed according to different criteria for the elimination of outliers. Whereas Snodgrass and Yuditsky applied a criterion that is formally similar to the criterion adopted in the present study, Barry et al. used a reciprocal transformation of each picture's mean RT, following the elimination of RTs that were either shorter than 200 msec or longer than 3,000 msec. Although it is generally accepted that 3,000 msec is a reasonable constraint to adopt for the exclusion of what the authors treated as "major instances of word-finding difficulties," as was concluded by Snodgrass and Yuditsky, this may not be a viable method by which to prevent the possibility of systematically eliminating (informative) RTs to difficult-to-name pictures.

A summary of the multiple regression results from the present study and the two other studies mentioned is reported in Table 2A. The letter x is reported for those measures that resulted in reliable predictors of the RT distribution in each of the studies. When a measure did not enter into the regression equation in a given study, the measure is reported as nonsignificant (n.s.). When a partic-

Table 1B
Results of the Multiple Regression Analysis

Measure	β	SE	t	р
LET	127	.088	1.451	.148
SYL	.116	.087	1.329	.185
FRQ	095	.058	1.650	.100
FAM	002	.056	0.030	.976
TYP	124	.053	2.356	.019
AoA	.077	.064	1.192	.234
	(.138)	(.065)	(2.118)	(.035)*
NA	.156	.147	1.060	.290
CA	598	.132	4.529	.000
H	.163	.075	2.183	.030

Note—For each measure, beta weight (β) , standard error (SE), t statistic value (t), and level of probability (p) are reported. LET, number of letters; SYL, number of syllables; FRQ, frequency; FAM, familiarity; TYP, typicality; AoA, age of acquisition; NA, name agreement; CA, concept agreement. *AoA results after the temporary exclusion of CA values from the stepwise regression.

ular measure was not considered in a study, the measure is reported as nonavailable (n.a.).

Table 2A highlights both the similarities and the differences among the studies. The first important difference is represented by the fact that the TYP measures were collected and treated as an independent factor only in our normative study. This difference is all the more striking in light of the evidence that TYP is a relevant cognitive dimension when concepts must be categorized (Rosch, 1975) and that TYP plays a significant role in modulating picture RTs (see, e.g., Jolicœur, Gluck, & Kosslyn, 1984), as well as other behavioral dependent measures (e.g., Malt & Smith, 1984). Convergent with this earlier empirical evidence, the results of the stepwise multiple regression that we performed on our data set support the notion that TYP must be considered in studies in which RTs are used as a dependent variable or, more generally, in studies in which pictures are used as experimental stimuli.

Table 2A also shows that measures of NA consistently resulted in reliable predictors of the RT distribution. It is somewhat surprising that, contrary to all other studies, NA, in the form of the percentage of subjects who produced a given name in response to a particular picture, was not an element of the regression equation in the present study. In our view, this finding may reflect the fact that, in quite a large proportion of the cases in the present study, alternative names that were produced were "good" lexical substitutes (i.e., synonyms) of the correct names. This had the likely consequence that variations in the percentage of NA (which decreases as the number of alternatives increases) could not be directly reflected in the RT distribution. Additional information about the role of stimulus codability, however, is provided by the significant weight associated with both the H statistic (considered in all the studies) and measures of CA (considered only by Snodgrass & Yuditsky, 1996) in accounting for the RTs collected in the present study. As has been convincingly argued by many investigators (e.g., Alario & Ferrand, 1999; Lachman, 1973; Lachman, Shaffer, & Hennrikus, 1974; Snodgrass & Vanderwart, 1980; Snodgrass & Yuditsky, 1996), both H and CA measures can

Table 2A
Summary of the Results of Multiple Regression Analyses Performed in the Present
Study and in Two Previous Studies (S&Y: Snodgrass & Yuditsky, 1996; BM&E:
Barry, Morrison, & Ellis, 1997) in Which Picture-Naming Times Were Considered

Study	LET	SYL	FRQ	FAM	TYP	AoA	NA	CA	H
Present	n.s.	n.s.	n.s.	n.s.	х	x	n.s.	x	<u>x</u>
S&Y	n.s.	n.s.	x^*	x *	n.a.	x	X	x	x
BM&E	n.s.*	n.a.	x	n.s.	n.a.	x	x	n.a.	x

Note—LET, number of letters; SYL, number of syllables; FRQ, frequency; FAM, familiarity; TYP, typicality; AoA, age of acquisition; NA, name agreement; CA, concept agreement; n.s., non-significant; n.a., nonavailable; x, significant beta weight; x^* , negligible beta weight. *Picture name length measures as number of phonemes.

be taken as better indexes of stimulus codability with respect to the raw percentage of correct denominations. The H statistic is computed by taking into account the number of alternatives produced following the presentation of a particular picture. H differs for pictures having the same percentage of NA but different numbers of alternative names produced by subjects. Furthermore, CA estimates reflect the degree of semantic appropriateness of alternative denominations—that is, CA varies as a function of whether alternative names are synonyms of the correct names or names referring to semantically distinguishable concepts. Given two pictures with the same percentage of NA and the same number of alternative names, CA is higher if one picture elicits more synonyms than does the other.

Table 2A indicates that a significant role for AoA measures was found in all of the three studies. Furthermore, AoA turns out to be a better predictor of RTs than are both FAM (nonsignificant or negligible in all the studies) and FRQ (significant in Barry et al.'s, 1997, work only). It should be noted that, while it might be theoretically relevant to ponder the higher reliability of AoA in predicting picture RTs as compared with FAM (see Morrison, Ellis, & Quinlan, 1992, for details on this issue), our impression is that the discussion about the rather variable weight of FRQ in the three regressions examined in the present context may be limited to the choice of the different FRQ count databases. Specifically, as Snodgrass and Yuditsky (1996; see also Snodgrass & Vanderwart, 1980) did in their study, we used an FRQ count database of written words (Stella & Job, in press). Barry et al. reported results that were referred to a FRO count database of spoken words. The latter was, reasonably, a choice more compatible with the vocal responses subjects had to produce in all the studies (i.e., naming) and may account for the fact that FRQ had a significant weight only in Barry et al.'s study.

Table 2A shows also that word length measures (number of letters, phonemes, or syllables) did not play a significant role in determining the RT distribution in any of the three studies.

Direct comparisons with previous normative studies. One potential confound in the comparison described in the foregoing section resides in the fact that the number of independent variables entering into the different regression equations was necessarily limited. For this reason, it is important to note that the list of these variables (e.g., FAM, AoA, etc.) constitutes only a subset of all the variables that might potentially affect object naming. In each normative study listed in Table 2A, the choice of the independent variables hypothesized to account for the RT distribution was substantially determined by three factors—namely, by previous evidence that demonstrated the effective role of a particular independent variable in influencing object naming, by theoretically grounded predictions about the possible role that an independent variable might play in object processing, or by the need to select a set of independent variables common to the majority of studies, with the aim of estimating their relative weight in affecting performance on objects across cultures.

Concerning the latter point, with the view of providing a direct comparison between the present norms and norms standardized for different populations, a potential confound may be represented by the difference in the drawings used for data collection. For the sake of clarity, suppose that we have two different pictures of the same concept—say, a pitcher—and suppose that each picture has been associated with a different NA value following a rating procedure carried out by presenting one picture to Italian subjects and the other picture to American subjects. As a matter of fact, it is impossible to assess whether this difference is due to a pure cultural difference in the subjects' population or to a structural difference in the pictures submitted to the subjects' judgment (or to an interaction between these two factors). It might be that, for example, the picture presented to the Italian subjects was less detailed than the American picture, and this, in turn, might have been reflected in a higher degree of uncertainty about its identity (Is it a pitcher or a mug?). Similar examples can be offered for the other independent variables considered in our normative study, with all the examples pointing to the same problem—that is, the impossibility of distinguishing between cultural and structural factors in determining the values assigned to the rated dimensions.

Fortunately in our case, this problem can be solved by taking advantage of the presence, in the literature, of Italian norms from a study in which Snodgrass and Vanderwart's (1980) stimuli were used (Nisi et al., 2000) and for which data were collected for a subset of measures

that were also included in our study (i.e., for FAM, AoA, and NA). Furthermore, a fair number of concepts (N =105, reported in Appendix B) were common to our study and that of Snodgrass and Vanderwart. The method we propose to use to disentangle cultural and structural influences on the measures provided for our new stimuli hinges on the following logic. We assume that the correlation coefficient between our measures and the measures collected by Nisi et al. for the common set of concepts provides the benchmark of the influence of structural factors on the distribution of the rating values across the stimuli. That is, given that our subjects and Nisi et al.'s subjects can be thought of as having been taken from the same population (Italian university students), our hypothesis is that any deviation from the perfect correlation between our measures and those of Nisi et al. can be reasonably accounted for by a difference in the stimuli used in the respective normative studies. Our next step is to compare each of these correlation coefficients with the correlation coefficients between our measures and the measures collected for American, French, and Spanish and to interpret any significant difference among these correlation coefficients as indicators of the effective influence of cultural differences on the distribution of the rating values across the stimuli.3

A list of the correlation coefficients for the measures from the different studies is reported in Table 2B. Several comments are in order. The first comment is related to the influence of structural factors on the distribution of the values for the measures collected on the two Italian samples. Evidence concerning this point can be derived from the observation of the correlation coefficients between the measures collected in our study and those collected in Nisi et al.'s (2000) study. These correlation coefficients are reported in bold in Table 2B. As is clear, although FAM and AoA measures are highly correlated in the two studies, the degree of correlation between NA

Table 2B
Correlation Coefficients Between a Subset of the Present
Measures and the Measures From a Different Italian Sample
Collected Using Snodgrass and Vanderwart's Pictures
(Nisi, Longoni, & Snodgrass, 2000), From an American Sample
(Snodgrass & Vanderwart, 1980, for Familiarity, Frequency,
and H measures, and Snodgrass & Yuditsky, 1996,
for Age of Acquisition Measures), From a French
Sample (Alario & Ferrand, 1999), and From a
Spanish Sample (Sanfeliu & Fernandez, 1996)

Measures From Present Study	Italian	American	French	Spanish
FAM	.72	.68	.71	.46*
AoA	.91	.80*	.87	n.a.
H	.51	.28*	.36	.23*
FRO	1.00	.67*	.74*	.74*

Note—FAM, familiarity; AoA, age of acquisition; H, H statistic: FRQ, name frequency; n.a., nonavailable. *p < .05. The table provides indications on the results of z tests performed by comparing the correlation coefficients between the present measures and the Italian NL&S's measures (in bold) to the correlation coefficients between the present measures and, in turn, the American, French, and Spanish measures.

measures, although substantial, is somewhat lower than that for the other measures. Although a systematic investigation of this issue is beyond the scope of the present work, we think we have already provided hints for an explanation for this relatively low correlation between NA measures. The framework we have adopted in the present section leads us to suspect that the interpretation resides in a difference in the material used for data collection, with NA values being a function of the number and/ or the quality of the details reported for the pictures used in the different studies. It is perhaps worth noting that our sample, in general, showed less variability in the number of alternative names produced in response to the presentation of the pictures than Nisi et al.'s sample did [t(104)]6.91, p < .001]. Furthermore, this result also suggests that, whereas NA is influenced by structural information, as was suggested by Sanfeliu and Fernandez (1996), FA and AoA values are produced directly by the concept represented by a given picture.

Cultural differences emerge by comparing the magnitudes of the correlations between the two Italian samples with those between our measures and those of the foreign samples. At first blush, the pattern of correlations among the values provided by our sample and the "foreign" values seem to reflect the pattern of correlations between the values from the two Italian samples. As is evident for each sample, correlations are higher for FAM and AoA values and lower for NA values. This pattern of results was expected, on the assumption that NA values depend on language more than do the other measures. Similar results have been reported basically by all the studies in which formally equivalent comparisons have been performed (e.g., Alario & Ferrand, 1999; Sanfeliu & Fernandez, 1996). Significant differences between these correlation coefficients are marked with asterisks in Table 2B. Focusing first on the results of the z tests performed on the correlation coefficients among NA measures, the results in Table 2B suggest that cultural differences play a significant role only in the comparison between the Italian values (r = .51) and both the American English and the Spanish values (r = .28 and .23, respectively). The correlation between the Italian and the French values do not reflect any cultural difference on the distribution of NA values, with the correlation coefficient between our values and the French values (r = .36)being statistically comparable with the correlation coefficient between the two Italian samples. A cultural difference is also evident in the results for the FAM measure. Whereas the correlation between our Italian values and both the American and the French values (r = .68)and .71, respectively) is high and comparable with the correlation for the Italian-Italian values (r = .72), the significant difference of the Italian–Spanish correlation coefficient (r = .46) suggests that that two populations differ in the degree of FAM with the same concepts. As to the AoA measures (collected only in the American and French studies), the results reported in Table 2B indicate that, contrary to the correlation between the Italian and the French values (r=.87), the correlation between the Italian and the American values (r=.80) is significantly different from the Italian-Italian correlation coefficient and suggest that the distribution of AoA values across the same set of stimuli is effectively influenced by cultural factors. Finally, name FRQ measures were assumed to be perfectly correlated between the two Italian studies. This likely caused the z test among all the other correlation coefficients to be highly sensitive to any deviations from r=1. Table 2B shows that all the comparisons between the Italian-Italian correlation coefficients for frequency and the Italian-foreign correlation coefficients, although quite high (r>.67) in all cases, consistently resulted in a significant difference.

CONCLUSIONS

The main goal of the present work was to present Italian normative measures for a new set of 266 pictures that have been standardized for NA, FRQ, TYP, and RT. These pictures can thus be directly used in research with Italianspeaking subjects. It is our opinion that these pictures will be useful for researchers involved in different fields of experimental psychology, such as attention, memory, perception, and language. The regression analyses presented in this work have documented the significant role that a subset of the rated object dimensions has in determining subjects' naming performance on these objects. Concerning this point, the present results indicated that a particular dimension, TYP, which has never been taken into consideration in previous normative studies, plays a determinant role in object naming, with pictures of more typical elements being named faster than pictures of less typical elements. An indirect comparison with previous naming studies has indicated both similarities and differences, across the Italian, American, and English samples, in the type and number of object dimensions that affect picture RT. For instance, whereas the H statistic and CA seem to be robust predictors of the RT, a substantial fluctuation in weight has been evidenced for name FRQ and FAM across the studies considered in the present work.

Furthermore, with the view of (1) making apparent the discrepancies between the present normative measures and the measures provided for linguistically different samples (collected by using Snodgrass & Vanderwart's, 1980, pictures) and (2) encouraging the use of the present set of pictures in order to expand research potentialities, a set of comparisons has been carried out, in order to show the relative weight of structural and cultural factors in generating such differences. An estimate of the weight of structural factors on the values reported in the present work has been provided through the correlation between the present measures and a subset of Italian measures collected by using Snodgrass and Vanderwart's pictures. This gave us the opportunity, by performing a

series of z tests on the correlation coefficients between the present measures and the measures provided for non-Italian samples, to separate the influence of structural from cultural factors in the rated dimensions.

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NOTES

- 1. As an alternative to the retrospective method used in the present context to obtain estimates of age of acquisition (AoA), several more direct (and arguably more objective) methods may be proposed. For instance, Ellis and Morrison (1998) recently reported AoA measures based on the actual naming performance of children of different ages, which is probably the best candidate among these new proposals. Our choice of the particular method described in this section, however, is to be thought of as constrained by the main focus of the paper, which is to devise a direct comparison with previously published work in the normative field. For this reason, we had to commit to the tradition of (1) using retrospective judgments of AoA, (2) submitting to subjects, in the AoA rating session, a verbal representation of the concepts considered (i.e., words), and (3) stressing, in the instructions, the importance of focusing on the concept each word referred to.
- 2. Part of the material presented in the first session was also presented in the second session. The second session served the purpose of presenting new objects that were made available by the time the first session had already began. In an attempt to counterbalance the number of items presented across sessions, new objects were intermixed with objects presented in the first session, whose NA percentage value was greater than 90%.
- 3. In order to apply the method described in the present section, all the scores (reported in Appendix B) were transformed into standard z scores. Each correlation coefficient was then transformed into Fisher's z, and a z test was carried out to estimate the difference between two correlation coefficients. If the difference was greater than 1.96, the difference was taken to be significant with .95 probability.

APPENDIX A List of the Stimuli and Normative Measures Used in the Present Study (See the Text for Details)

INALIATI		Į	Ŀ	20	EDO TO EAM	V L	-	0.77	00	٧٥٧	5	Ė		1	
		5	-	215	3	2			-	Ş	-	_	Ş	-	
AEREO	AIRPLANE	핕	2	4	2.86	2 5.7	1.3	5.4	2.0	3.5	1.3	611	86	86	0.00
AGLIO	GARLIC	VEG	2	2	2.07	2 5.8	3 1.8	3.9	1.6	4.7	2.0	1542	25	52	1.28
-> cipolla (14)	-> onion														
-> fico (14)	-> fig														
-> sacco (5)	-> sack														
-> zucca (7)	-> pumpkin														
ALBICOCCA	APRICOT	FRU	6	4	1.00	2 5.3	3 1.8	5.6	1.5	3.1	1.4	1183	20	20	1.21
> noce (5)	-> walnut						!				· 				
-> pesca (14)	-> peach														
-> prugna (10)	-> plum														
-> susina (7)	> plum					į									
AMACA	HAMMOCK	XIW	5	3	1.08	1 4.5	5 2.2	3.0	2.1	5.3	1.3	997	95	92	0.00
AMBULANZA	AMBULANCE	VEH	6	4	1.60	2 5.3	3 2.0	3.9	1.6	5.1	1.4	765	95	95	0.00
ANANAS	PINEAPPLE	FRU	9	ဗ	1.36	1 4.9	1.9	6.1	1.3	4.5	1.7	717	100	100 100	0.00
ANATRA	DUCK	BIR	9	3	1.41	2 5.2	1.4	3.9	1.9	3.9	1.0	966	90	09	0.91
-> oca (19)	-> goose														
-> papera (19)	> gosling														
ANGURIA	WATERMELON	FRU	7	3	1.08	2 5.9	4.1	1 6.7	0.8	3.2	1.2	9/9	98	83	0.27
-> cocomero (7)*	> watermelon														
ANTENNA	ANTENNA	MIX	7	3	1.93	1 5.4	1.9	4.5	2.3	5.0	1.3	871	95	95	0.00
APECAR	THREE-WHEELED VAN	VEH	9	3	0.01	2 6.0	1.4	3.5	2.0	6.9	1.5	1137	45	59	1.09
-> camioncino (10)	-> small truck														
-> furgoncino (7)*	-> small van														
-> furgone (5)	-> van														
-> motocarro (7)*	-> tricar						İ								
AQUILA	EAGLE	BIR	9	က	2.28 2	2 4.1	1.8	6.3	1.0	4.1	1.6	906	71	7	0.71
-> falco (24)	-> hawk														
-> rapace (5)	-> rapacious														
ARANCIA	ORANGE	FRU	7	က	1.75 2	2 5.7	7 1.4	9.9	0.5	2.7	0.9	836	83	83	0.43
-> limone (5)	-> lemon														
> mandarino (5)	-> tangerine														
ARCO	BOW	WEA	4	7	2.49	1 2.0	1.3	3.4	1.8	4.1	1.3	787	5	9	0.0
ARCO	ARCH	B	4	8	2.49	2 4.0	1.6	3.4.5	2.1	6.7	1.3	934	79	73	0.27

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	LET	SYL	FRQ S FAM SD	SFA	MS	D TYP	DS d	AoA	as 1	H	NA	S	Ξ
-> tempio (7)	-> temple														
ARMADIO	WARDROBE	FOR	7	က	2.14	2 6.5	\vdash	0.8 7.0	0.0	2.9	1.0	827	83	83	0.22
-> libreria (5)	> bookcase														
ARPA	HARP	INS	4	7	1.40	1 3.9		1.6 4.4	1 2.1	1 5.7	1.4	775	100	100	0.00
ASCIA	AXE	WEA	'n	7	1.26	2 2.8		1.8 2.5	5 1.7	2.0	1.8	675	69	8	0.85
-> accetta (12)*	-> hatchet														
-> martello (7)	-> hammer														
-> mazza (5)	-> staff														į
ASINO	DONKEY	MAM	2	က	1.85	2 5	5.5	1.2 5.3	3 1.7	7 2.5	0.9	788	9	9	0.74
-> cavallo (31)	-> horse								ļ ļ						
> mulo (5)	-> mule									i					
ASPARAGO	ASPARAGUS	VEG	8	4	0.70	2 5.7	├─	1.7 3.8	3 2.0	5.1		1.7 1127	69 2	69	0.58
-> bastone (12)	-> stick														
-> ramo (5)	-> branch														
ATTACCAPANNI	CLOTHES-STAND	FOR	12	2	1.23	2 4	4.5	2.0 4.5	5 1.8	3 4.2	1.7	874	62	91	0.37
-> appendiabiti (12)*	-> hat-rack														
AUTOMOBILE	CAR	VEH	10	5	2.60	1 7	7.0 0	0.0 7.0	0.0	2.8	1.3	804	40	100	1.34
-> auto (9)*	> automobile										i				:
-> macchina (51) @*	-> motorcar														
AVVOLTOIO	VULTURE	BIR	6	4	1.28	2 3	3.3	1.6 3.2	2 1.8	9 5.1	1.2	935	5 29	65	1.13
> aquila (10)	-> eagle	 													
-> condor (36) @*	> condor														
> falco (7)	-> hawk														
BALESTRA	CROSSBOW	WEA	8	3	1.18	2 1	1.5 0	0.8 3.3	3 1.7	7 6.1		1.4 1144	4 52	52	0.52
> arco (31)	-> bow													:	
BANANA	BANANA	FRU	9	3	1.68	1 6	6.0 1	1.4 6.8	8 0.6	5 2.3	0.7	592	100	100	0.00
BARCA	BOAT	VEH	5	2	2.60	1 4	4.7 2	2.1 3.0	0 1.6	5 2.2	0.8	849	93	98	0.22
-> barchetta (5)*	-> small boat														ĺ
BASTONE	STICK	WEA	7	က	2.36		2.7	1.8 1.4	4 0.9	9 2.2		0.8 1023	3 55	79	0.85
-> clava (12)*	-> club														
-> legno (7)*	-> piece of wood	г													
-> mazza (5)*	-> staff									ļ					
BATTERIA	DRUMS	INS	80	ဗ	1.72	2 5	5.1	1.5 5.9	9.1	5 5.1	1.2	745	93	93	0.00

APPENDIX A (Continued)

BICCHIERE GLASS BICICLETTA BICYCLE -> bici (5)* -> bike BILANCIA SCALE BINOCOLO -> telescope BINOCOLLO -> telescope BIRILLO SKITTLE -> caffettiera (7) -> mocha coffee- -> teiera (71) -> mocha coffee- -> porraccia (7) -> mate- BOMBA -> mocha coffee- -> granata (5)* -> mocha coffee- -> cavoli (31) -> mocha coffee- -> cavolo (31) -> cabbage BUSSOLA -> cabbage -> calzino (19) -> sock CALZE -> calzino (19) -> collant (14)	ee-maker e e ade	MIX MIX	ი	3	3	l	ł	L	t			-		l	ł	
ETTA BIC (5)*	ee-maker le le ade	/EH			2.53	7	7.0 (0.0	6.1	1.3	1.8	9.0	630	8	9	0.00
1A	ee-maker ee-ade	XXX	2	4	2.45	-	6.9	0.4	5.3	1.8	2.3	0.8	631	95	100	0.22
NA SC/ DLO BIN DRE SK ORE KE Striera (7) -> at (71) @ -> at (7) (-> att (7) (-> att (7) (-> att (14) (-> att (14) (-> at (14)	ee-maker ee	XX														
DLO DCChiale (24) DRE DRE SKI SKI ORE A (71)	ee-maker e e ade	XIIV	8	3	2.20	2 3	3.3	1.6 3	3.9	2.1 3	3.4	1.1	719	100	100	0.00
DORE DORE DORE DORE DORE DORE DORE DORE			8	4	1.43	2	4.9	1.8	5.9	1.2 4	4.9	1.4	774	71	71	0.49
SKI ORE SKI SITION													1			
accia (7) -> a (71) @ -> a (71) @ -> a (71) @ -> ba (7) -> a (7) BAF a (7) -> bio (31) @ -> bio		×Ψ	7	က	0.78	1	3.1	1.5 3	3.5	2.3 2	2.9	1.2	222	93	93	0.00
a (71) @ -> a (71) @ -> a (71) @ -> BOI accia (7) -> ata (5)* -> a (7) -> a (7) BR BOI ILIA BR OLL BR(1) @ -> BR OLL COI OR S COI S S COR S COR S COR S COR S COR COR S COR		REC	6	4	0.70	2	3.3	1.8	3.4	1.8 5	5.9	1.5	885	14	14	0.62
accia (7) @> accia (7)> ata (5)*> a (7)> a (7)> a (7)> a (7)> b (1.1A BAF bilore (31) @> bilo (31) @ -																
accia (7) -> lata (5)* -> lata (5)* -> lata (7) -> lata (7) BAF BOUL OLI Milore (31) @ -> lot (31) @ -> lot (31)			i										į			
accia (7) -> ata (5)* -> a (7) BAF BAF CLI A CLI BR(OLI BR	ottle	WEA	5	2	2.58 2		1.3	0.8	5.3	1.9 4	4.7 0	0.9 1037	_	79	84	0.75
ata (5)* -> a (7) ->	enade															
a (7)																
LIA BAF																
ILIA BO OLI BR(OLI BR(OLI BR(OLI BR(Interest and broad) Olio (31)	4	REC	2	2	1.84 2		3.8	1.5 4	4.3	1.8 3	3.9	1.1	749	93	93 (0.00
OLL BR(biffore (31) @ -> loo (31) @ -> LA LA COI agio (5) -> S CA(S) Ino (19) -> etti (7) -> mr (14) -> mr (14) ->	<u> </u>	REC	6	3	2.40	2 6	6.3	0.6 5	5.9	1.6	1.9	0.8	699	98	98	0.00
blo (31) @ -> blo (31) @ -> blo (31) @ -> blo (31) @ -> col sgio (5) -> col sino (19) -> etti (7) -> mrt (14) ->	/	VEG	8	3	1.18	2 5	5.3	2.1 4	4.9	2.0 6	6.1	1.7 1	1241	10	10	1.05
LA COl ogio (5) -> ogio (5) -> S S Sino (19) -> etti (7) -> onio (14) -> onio (14) -> onio (14) ->	er															
LA COI 29jo (5) -> S CA(SC CA(SC CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC CA(SC)CA(SC)CA(SC)CA(SC)CA(SC CA(SC)CA(SC)CA(SC)CA(SC CA(SC)CA(SC)CA	j															
S CA(S) -> SO(A) S		XIM	7	3	1.67	2 3	3.6	2.0 5	5.9	1.8 5	5.3	8.0	925	95	92 (0.22
S CA(SO(19) -> etti (7) -> int (14) ->																
ino (19) -> STC		FLO	9	2	1.43	2 4	4.9	2.2	4.5	1.8 5	5.2	1.2	742	93	93	0.00
ino (19) -> STC etti (7) -> Int (14) ->	0	CLO	r2	2	1.32	2 4	4.9	1.8 4	4.9	1.9 2	2.7 1	1.4	738	92	92	0.46
etti (7) -> int (14) ->																
^ ^		CLO	2	2	2.02	-	4.9	1.8 4	4.9	1.9	3.7	2.2 1002	<u> </u>	20	20	1.17
1	ks															
	9.															
-> calzini (26)																
CALZINI SOCKS	0	CLO	7	3	1.51	1 5	5.9	1.7 5	5.1	1.6	2.4 0	0.7	704	25	97	0.89
-> calze (33)*																
-> calzetti (12)* short socks	ks						İ			ŀ						
		CLO	7	3	0.85	2	5.9	1.7 5	5.1	1.6	2.9	1.1	909	86	88	0.00
CAMICIA	<u>J</u>	CLO	7	က	2.62	2	6.1	1.1	6.7	0.6	2.9	1.2	724	86	86	0.00

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	LET	SYL	FRQ S	SFAM	OS W	TYP (as	AoA	as	H	¥	\ S	I
CAMINO	CHIMNEY	BQI	9	၉	2.15	2 5.3	3 1.6	5 3.3	2.1	3.5	1.5	707	93	93	0.22
-> fumo (5)	-> smoke														
CAMION	TRUCK	VEH	မ	7	2.29	1 6.2	2 0.9	9 5.9	1.0	3.1	1.6	747	93	93	0.22
-> furgone (5)	-> van									! 					
CAMMELLO	CAMEL	MAM	۵	ო	1.53	2 3.1	1.7	3.6	2.0	3.9	1.3	686	93	93	0.27
-> dromedario (7)	> dromedary														
CAMPANILE	BELL-TOWER	BUI	6	4	2.00	2 5.1	1.5	5 4.5	1.6	3.4	1.6	890	98	86	0.43
-> chiesa (5)	-> church														
-> torre (5)	-> tower														
CANCELLO	GATE	BG	ھ	က	1.93	1 4.9	9 1.2	2.6	1.7	2.8	1.2	778	95	95	0.0
CANDELA	CANDLE	×	7	က	1.98	1 6.3	3 1.1	1 2.5	1.5	2.7	1.0	899	100 100		0.00
CANE	DOG	MAM	4	2	2.78	1 6.6	6.0	6.7	0.5	6 .	0.7	929	100	8	0.00
CANGURO	KANGAROO	MAM	7	က	0.95	1 3.7	7 2.1	1 4.9	1.8	3.9	1.9	730	86	98	0.00
CANNONE	CANNON	WEA	2	ဇ	1.98	1.7	7 1.0	0.40	2.2	4.6	1.4	712	92	95	0.00
CANOTTIERA	SINGLET	CLO	10	4	1.15	1 5.9	9 1.1	1 5.5	1.9	2.7	1.0	841	81	88	0.87
> canotta (7)*	> singlet														
-> maglietta (12)	-> T-shirt														
CAPPELLO	нат	CLO	8	က	2.58	1 2.	8 1.7	7 4.9	1.5	2.5	6.0	574	100	100	0.00
CARAFFA	PITCHER	REC	2	3	1.08	2 5.1	1.7	7 5.5	1.6	4.9	1.7	1016	38	22	1.17
-> bottiglia (5)	-> bottle														
> brocca (17)*	=> jug														
-> vaso (29)	> vase														
CARAMELLA	CANDY	¥	6	4	1.32	1 6.3	3 0.8	9.9	9.0	1.6	9.0	699	5	9	0.00
CARCIOFO	ARTICHOKE	VEG	8	3	1.81	2 6.0	0 1.8	9 5.3	1.5	4.1	1.3	892	81	81	0.00
CAROTA	CARROT	VEG	9	3	1.72	1 6.7	7 0.8	9 6.3	1.1	2.9	1.4	682	100	100	0.00
CARRETTO	CART	VEH	8	3	1.51	2 3.9	9 2.1	1.5	0.7	3.8	1.4	628	71	85	0.76
-> carriola (12)	-> wheel barrow														!
-> carro (14)*	-> wagon														
CARRIOLA	WHEELBARROW	VEH	8	3	1.08	2 5.1	1.8	9 1.2	9.0	3.7	1.4	804	100 100		0.00
CARROZZA	CARRIAGE	VEH	8	3	2.34	1 2.7	7 2.1	1.7	1.0	3.7	0.8	1116	90	90	0.00
CASA	HOUSE	BOI	4	2	3.94	1 6.3	3 1.3	3 6.2	1.9	1.7	0.9	290	100	100	0.00
CASCO	HELMET	¥	2	2	1.52	1 4.6	6 1.8	9 4.1	2.5	4.7	1.5	682	5	8	0.00
CASSETTO	DRAWER	FOR	8	က	2.20	1 6.3	3 0.8	9 3.4	2.1	2.8	0.9	629	93	93	0.22

APPENDIX A (Continued)

1441		1	1	[[į	֓֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	74 0						_	=
NEIN	ENGLION	5		315	THE STAM SOLITE	2	ة آ	<u> </u>	30	HOA	30		Ž	5	_
-> scatola (5)	> box														
CASTAGNA	CHESTNUT	FRU	8	က	1.53	5 2	5.9	1.4 4.6	3.1.8	3.3	1.2	927	98	98	0.55
-> cipolla (10)	-> onion														
-> noce (5)	-> walnut														
CASTELLO	CASTLE	BGI	æ	က	2.72	1	3.9	2.0 5.4	1.8	2.9	1.0	834	8	35	0.22
-> rocca (5)*	-> rock														
CAVALLO	HORSE	MAM	7	3	2.94	1 5	5.7	1.0 5.9	9.0	2.6	1.1	657	100	100	0.00
CERNIERA	ZIPPER	CLO	8	3	1.54	2 5	5.9	1.5 2.7	1.9	4.0	1.8	1052	29	91	0.73
-> lampo (12)*	-> zipper	,													
-> zip (12)*	-> zip														
CERVO	DEER	MAM	2	2	1.99	2 4	4.9	1.6 4.8	3 1.5	3.9	1.8	716	79	62	0.33
> alce (10)	-> moose														
CETRIOLO	CUCUMBER	VEG	8	3	1.04	7	5.7 1	1.6 3.8	3 2.1	4.2		1.8 1103	09	09	0.37
-> zucchina (12)	-> zucchini												; 		
CHIESA	сниясн	BOI	9	2	3.22	1 5	5.2	1.3 5.8	3 1.1	2.9	1.4	802		100 100	0.00
CHITARRA	GUITAR	INS	8	3	2.04	1 6	6.0	1.6 7.0	0.0	4.3	1.6	773	100	100	0.00
CIABATTA	SLIPPER	CLO	8	3	0.70	2 4.1		2.2 3.1	2.1	2.7	0.0	820	20	90	96.0
-> pantofola (40)*	-> slipper														
-> sandalo (5)	-> sandal														
> scarpa (5)	-> shoe											!			
CIABATTE	SLIPPERS	CLO	8	3	1.18	1 4	4.1 2	2.2 3.1	1.2.1	2.6	0.7	784	20	94	0.52
-> pantofole (44)*	-> slippers														
CICLAMINO	CYCLAMEN	FLO	6	4	0.48	2 4	4.4 2	2.2 3.9	9 2.4	4.9		1.6 2071	19	19	0.95
-> fiore (14)	> flower														
-> foglie (5)	-> leaves														
-> viola (10)	-> violet														
CICOGNA	STORK	BIR		3	1.48 2		3.3 1	1.8 3.3	3 1.2	3.1		1.1 2042	14	14	1.80
-> airone (12)	-> heron												-		
-> fenicottero (7)	-> flamingo														
-> gru (12)	-> crane														
-> pellicano (12)	-> pelican														
-> uccello (17)	-> bird														
CIGNO	SWAN	BIR	5	2	1.71	1 2	5.5	1.1 3.5	5 1.5	3.5	1.1	980	93	93	0.27

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	131	SYL	FRO IS FAM SO TYP	SFA	78 1	Δ		SO AoA	SD	F	₹ V	Ş	Ī
-> oca (7)	-> doose														
CILIEGIA	CHERRY	FRU	80	က	1.04	2 6.1	1.2	6.3	0.9	2.9	1.2	803	18	18	0.37
-> mela (12)	> apple														
CINTURA	BELT	CLO	7	3	2.12	1 5.9	1.0	4.1	2.0	3.7	1.4	627	06	95	0.22
-> cinta (5)*	-> waistband														
CIPOLLA	ONION	VEG	7	က	1.96	2 6.1	1.6	5.1	1.6	3.5	1.2	1026	83	83	0.33
-> aglio (10)	-> garlic														
CLARINO	CLARINET	SNI	7	ဗ	0.30	2 4.1	1.9	5.0	2.2	0.9	1.3	98	92	56	0.87
-> flauto (60) @	-> flute														
-> oboe (5)	-> opoe														
-> piffero (5)	-> pipe														
CLESSIDRA	SAND-GLASS	¥	တ	ო	0.78	1 3.4	1.6	2.7	1.9	6.1	1.4	798	92	35	0.00
COLOMBA	DOVE	BIR	7	3	1.69	2 4.3	3 1.9	3.9	2.0	3.9	1.4	1071	53	29	4.47
-> gallina (10)	-> hen									!					!
-> pavone (7)	-> peacock														
-> piccione (12)	-> pigeon														
-> tacchino (7)	-> turkey														
-> tortora (12)	-> turtle-dove														
-> uccello (10)	-> bird			ĺ								i			
COLTELLO	KNIFE	HOU	80	ဗ	2.40	2 6.9	0.4	6.3	1.0	2.3	1.1	574	100	100	0.00
CONIGLIO	RABBIT	MAM	æ	က	2.07	1.6.1	0.8	4.8	1.0	2.8	0.9	715	83	93	0.00
COPERCHIO	LID	НОП	6	က	1.85	2 6.7	9.0	4.9	2.2	3.0	0.9	841	81	81	0.27
-> pentola (7)	-> pot														
CORNAMUSA	BAGPIPE	INS	6	4	0.30	2.9	9 2.1	3.2	1.7	5.6	1.3	1014	9	9	0.37
-> zampogna (12)	-> bagpipe											ĺ			
CRAVATTA	TIE	CLO	8	ო	2.20	1 3.3	3 2.0	4.3	2.0	3.9	1.0	929	86	86	0.00
CUCCHIAIO	SPOON	HON	6	3	2.02	2 6.8	3 0.8	6.5	0.9	2.0	1.2	632	100	100	0.00
CUPOLA	CUPOLA	BUI	9	ဗ	1.88	2 4.0	1.8	4.3	2.0	6.1	1.3	850	98	98	0.00
DAMIGIANA	DEMIJOHN	REC	6	4	09.0	2 4.1	1.6	3 4.5	1.6	4.9	1.4	1029	22	22	0.73
-> botte (14)	-> barrel														
-> fiasco (10)	-> flask							ļ							
DIRIGIBILE	DIRIGIBLE	VEH	10	5	0.85	2 2.3	3 1.9	1.8	0.9	6.2	1.5	961	52	29	0.64
-> aerostato (7)*	> aerostat														

ITALIAN	ENGLISH	CAT	CAT LET	SYL	FRQ S FAM SD	SF	4M		TYP SD	D AOA	DS A		RT NA CA	2	I	
-> mongolfiera (12)	-> fire-balloon						֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓									1 1
DIVANO	СОПСН	FOR	9	က	2.22	-	6.7	9.0	6.9	0.4 2.5	_	1.1 764	93	93	0.0	
EDERA	IVY	FLO	5	က	1.60	2	5.7	1.4	4.9	2.0 4.9	├	1.1 894	4 74	74	0.58	m
-> foglia (5)	-> leaf															
-> foglie (12)	> leaves															
ELEFANTE	ELEPHANT	MAM	8	4	1.85	1 4	4.2	2.1 5	5.5	1.6 2.7		1.4 655	5 100	0 100	0.00	0
ELICOTTERO	HELICOPTER	VEH	9	2	2.15	1	4.8	1.9 4	4.3	1.8 4.0		1.5 708	88	86	0.00	0
FAGIANO	PHEASANT	BIR	7	က	1.08	0	3.5	1.8	3.5 1	1.8 5.3	3 2.1	1 1519	9 31	31	1.15	10
-> pavone (7)	-> peacock															
-> pernice (7)	-> partridge	,														
-> piccione (5)	-> pigeon															
-> uccello (14)	-> bird															
FALCE	SICKLE	MIX	2	2	1.67		2.3	1.3 4	4.2 2	2.1 5.1		1.6 777	7 71	71	0.22	N
-> accetta (5)	-> hatchet															
FARO	LIGHTHOUSE	B	4	8	1.72	-	3.1	1.9	3.3	2.0 3.9	 	1.7 998	8 8	8	0.00	6
FENICOTTERO	FLAMINGO	BIR	11	5	0.01	2	3.1	1.8	2.9	1.3 5.5	-	1.1 1677	77 43	43	0.87	
-> airone (5)	heron															
> gru (17)	-> crane															
-> uccello (5)	-> bird															
FIASCO	FLASK	REC	9	2	1.87	2	3.6	1.5 4	4.4 1	1.6 4.8	\vdash	1.5 798	8 50	20	1.14	4
-> botte (5)	-> barrel															
-> bottiglia (17)	-> bottle															
-> bottiglione (5)	-> big bottle															
-> damigiana (7)	-> demijohn														į	
FICO	FIG	FRU	4	2	1.79	2 4	4.8	1.9 5	5.0	1.4 3.7		1.4 1584	34 52	52	0.46	ဖြ
-> pera (19)	> pear															
FIONDA	SLING	WEA	9	7	1.11	2 2	2.7	1.4	2.7	1.9 4.4		1.2 882	2 90	06 (0.00	0
FISARMONICA	ACCORDION	INS	11	2	1.38	2 4	4.2	2.0	3.6 2	2.0 4.8	-	1.3 978	98 8	3 86	0.22	N
-> armonica (5)	-> harmonica															
FLAUTO	FLUTE	INS	9	2	1.90		5.5	1.7	4.7	2.3 4.7		1.0 913	3 93	3 93	0.22	8
-> clarino (5)	-> clarinet															
FOGLIA	LEAF	MIX	2	7	2.17	2	6.3	1.2	6.7 0	0.5 1.9		0.7 808		90 90	0.27	~
-> edera (7)	-> ivy															

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	LET	SYL	FRO	S FAM	as V	ΤYΡ	as	AoA	as	128	V ¥	8	Ī
FORBICE	SCISSORS	XIW	7	က	1.53	1 5.9	1.1	4.8	1.9	3.0	1.0	618	100	100	0.00
FORCHETTA	FORK	HOC	6	က	1.67	2 6.8	0.8	6.2	1.2	1.8	9.0	565	100	100 0	0.00
FRAGOLA	STRAWBERRY	FRU	7	3	1.56	1 6.0	1.6	6.7	0.5	2.5	0.7	700	100 100	-	0.00
FRECCIA	DART	WEA	7	2	1.59	1.7	1.0	3.8	1.6	3.6	1.4	710	100 100	$\overline{}$	0.00
FRUSTA	WHIP	WEA	9	2	1.40	2 1.5	0.9	2.1	1.4	4.3	1.6	896	98	98	0.33
-> canna da pesca (10)	-> fishing-rod												,		
FUCILE	RIFLE	WEA	ဖ	ო	2.20	1.9	1.8	6.8	0.4	3.6	1.5	797	95	95	0.00
FUNGO	MUSHROOM	VEG	5	2	2.02	1 6.1	1.8	3.4	1.8	2.9	1.3	735	93	93 0	0.00
GABBIANO	SEA-GULL	BB	80	3	1.79	2 5.1	1.1	6.4	1.3	3.1	1.4	1180	21	21	1.18
> colomba (36) @	-> dove														
-> piccione (5)	-> pigeon														
> uccello (17)	-> bird														
GALLINA	HEN	BIR	7	3	2.10	2 5.8	1.4	3.5	1.8	2.4	1.2	722	86	98	0.00
GALLO	ROOSTER	BIR	5	2	2.29	2 6.4	0.0	2.6	1.5	2.5	1.3	673	93	93	0.27
-> gallina (7)	-> hen														
GAROFANO	CARNATION	FLO	8	4	1.99	2 5.5	1.3	5.4	1.5	4.9	1.7	1145	45 '	45 0	0.49
-> fiore (24)	-> flower														
GATTO	CAT	MAM	2	2	2.58	1 6.5	1.6	6.1	1.2	2.0	1.1	673	98	95 C	0.00
GHIANDA	ACORN	FRU	2	2	0.70	2 3.9	2.1	2.7	1.6	4.3	1.4	1060	69	69	0.43
-> noce (17)	-> walnut														
GIACCA	JACKET	CLO	9	2	2.47	1 4.5	1.9	6.4	0.7	3.3	1.8	821	98	38 0	0.00
GIRAFFA	GIRAFFE	MAM	7	3	1.00	2 4.0	1.9	4.8	1.8	2.9	1.5	559	86) 86	0.00
GIRASOLE	SUNFLOWER	FLO	8	4	1.56	2 6.1	1.1	4.9	1.7	3.7	1.5	863	69) 69	0.48
-> fiore (5)	-> flower														
-> margherita (7)	-> daisy														
GONDOLA	GONDOLA	VEH	7	3	1.18 2	2 3.7	2.1	2.2	1.7	4.8	2.0	835	62) 62	0.43
-> canoa (5)	-> canoe														
-> nave (5)	-> ship										:				
GONNA	SKIRT	CLO	5	2	2.17	1 4.0	2.1	5.7	1.6	2.5	1.1	738	86	86	0.00
GRATTACIELO	SKYSCRAPER	Ē	11	4	1.66	2 3.7	1.4	6.1	1.6	4.9	1.0	703	92	95	0.00
GRATTUGIA	GRATER	원	6	3	0.70	2 6.9	0.4	5.2	1.7	4.2	1.5	989	92	95	0.00
GUANTI	GLOVES	CLO	9	2	2.11	1 5.3	1.8	4.3	1.5	3.1	1.3	633	50	9	0.00
GUANTO	GLOVE	OTO	9	2	1.76	2 5.3	1.8	4.3	1.5	5.9	1.2	920	100 100		0.00

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	LET	SYL	FRO	FRQ S FAM	OS W	J TYP	as o	AoA	as	Æ	Ϋ́	\ S	I
GUFO	OWL	BIR	4	2	1.90	2 4.1	1 1.9	9 4.2	2.0	4.1	1.5	708	6	06	0.33
> civetta (10)	-> little owi														
IGLOO	IGLOO	BUI	5	2	1.11	1 1.9	9 1.2	2 2.9	2.1	5.7	1.3	872	93	93	0.00
IMBUTO	FUNNEL	НОП	9	3	1.38	2 6.7	9.0 2	6 4.3	1.9	3.8	1.2	826	100	100	0.00
IPPOPOTAMO	HIPPOPOTAMUS	MAM	10	5	0.95	2 2.9	9 1.8	8 3.9	2.1	4.0	1.2	898	83	83	0.22
-> rinoceronte (5)	-> rhinoceros														
KIWI	KIWI	FRU	4	2	1.38	2 5.5	5 1.8	8 5.5	1.6	5.3	1.8	026	69	69	0.43
-> mango (5)	-> mango														
> pesca (5)	-> peach	,													
LAMPADA	LAMP	FOR	7	ო	2.19	2 5.	5 1.3	3 5.3	1.3	2.9	1.0	717	81	86	0.43
-> abat-jour (17)*	-> lampshade														
LEONE	LION	MAM	5	3	2.61	1 4.3	2	3 5.9	1.1	2.4	0.8	683	100	100	0.00
LETTO	BED	FOR	2	2	3.01	1 6.7	2 0.6	6 6.7	0.6	1.8	0.4	620	100	100	0.00
LIBRERIA	BOOKCASE	FOR	8	4	2.54	2 6.3	3 0.8	9.9	0.5	4.3	1.8	168	45	62	1.58
> armadio (17)	-> wardrobe														!
-> mensola (5)	-> console														
-> scaffale (10)*	-> shelf														
-> scaffali (7)*	-> shelves														
-> scrivania (10)	-> desk														
LIMONE	LEMON	FRU	6	က	2.10	1 5.1	1 1.9	9 4.9	2.0	2.7	1.2	1064	95	95	0.00
LOCOMOTIVA	LOCOMOTIVE	VEH	10	5	1.79	2 5.7	7 1.8	8 4.7	1.7	3.9	1.2	835	31	31	0.39
-> treno (67) @	-> train														
MAGLIONE	SWEATER	CLO	8	3	1.62	2 6.7	2 0.6	6 6.5	0.7	2.6	1.2	611	93	93	0.00
MAIALE	PIG	MAM	6	3	2.08	1 5.4	4 1.5	5 4.5	1.6	2.5	1.2	778	98	98	0.00
MANDOLINO	MANDOLIN	INS	9	4	06.0	2 3.	5 1.6	6 4.1	1.8	6.3	1.4	1149	62	62	0.51
-> chitarra (26)	-> guitar														
MANETTE	HANDCUFFS	MIX	7	8	1.58	1 2.1	1 1.8	8 1.4	0.8	5.1	1.1	761	98	86	0.00
МАРРА	MAP	MIX	5	2	2.18	2 3.9	9 2.0	6.4	1.1	5.7	1.3	805	71	85	0.40
-> cartina (14)*	-> map														
MAPPAMONDO	GLOBE	MIX	10	4	0.95	1 5.7	7 1.7	7 3.2	2.1	4.9	1.5	737	98	98	0.00
MARGHERITA	DAISY	딘	10	4	2.18	2 6.4	4 1.6	6 6.8	0.4	2.8	1.6	920	74	74	0.40
-> fiore (14)	-> flower														
MARTELLO	HAMMER	MIX	8	ဗ	1.62	-	3.9 2.0	6.3	1.0	3.7	1.2	672	92	92	0.00

ITALIAN	ENGLISH	CAT	E	SYL	FRQ S FAM	SFA	as N	TYP	as	AoA	as	FT	NA A	₹ S	Ī
MAZZA	STAFF	WEA	2	2	1.71	2 1.4	0.8	2.7	2.1	5.3	1.9	933	8	8	0.33
-> arma (10)	-> weapon														
MELA	APPLE	FRU	4	2	2.27	1 6.3	3 1.6	6.9	0.3	1.7	0.5	240	100	100	0.00
MELANZANA	EGG-PLANT	VEG	6	4	1.28	2 6.4	1.1	5.3	1.8	4.1	1.8	954	36	95	0.00
MELOGRANO	POMEGRANATE	FRU	6	4	0.70	2 4.4	2.3	4.5	2.0	4.7	1.5	1587	64	64 0	0.27
-> cipolla (7)	> onion														
MELONE	MELON	FRU	9	3	1.46	2 4.3	1.8	4.2	2.1	3.9	1.1	1380	43	43 1	1.03
-> anguria (10)	-> watermelon														
-> cocomero (5)	-> watermelon														
-> frutto (5)	-> fruit														
-> zucca (7)	-> pumpkin														
MESTOLO	LADLE	ПОН	4	3	0.95	2 6.9	0.4	6.2	1.4	4.1	1.0	854	38	38 0	0.88
-> cucchiaino (12)	-> small spoon														
-> cucchiaio (48) @	-> sboon														
MITRA	LIGHT MACHINE GUN	WEA	ည	2	2.03	2 1.3	9.0	6.2	1.6	5.3	1.3	1037	17	17 1	1.32
-> fucile (31) @	-> rifle														
> mitragliatrice (7)	-> machine gun														
-> pistola (31) @	un6 <-														
MITRAGLIATRICE	MACHINE GUN	WEA	14	2	1.46	2 1.2	9.0	2.0	2.3	5.6	1.2	1017	6	40	1.18
-> binocolo (10)	-> binocular														
-> macchina fotografica (7)	-> camera														
-> mitraglietta (5)	-> little machine gun														
-> telescopio (12)	-> telescope														
MONGOLFIERA	FIRE-BALLOON	VEH	11	4	1.23	2 3.1	1.8	1.7	0.8	5.2	1.1	827	83	83 0	0.00
MORA	MULBERRY	FRU	7	3	1.23	2 4.5	5 1.8	5.1	1.8	4.4	1.7	1532	22	57 1	1.16
-> lampone (7)	-> raspberry														
-> mirtillo (5)	-> bilberry														
-> ribes (5)	-> red current														
-> uva (19)	-> grapes														
MOTOSCAFO	MOTORBOAT	VEH	6	4	1.52	2 4.9	9.1	3.7	4.1	4.3	1.5	1.5 1073	83	33	0.91
-> barca (55) @	-> boat														
-> nave (5)	-> ship														
-> zattera (5)	-> raft														

APPENDIX A (Continued)

			,												
ITALIAN	ENGLISH	CAT	LET	SYL	FRQ S FAM	S F/	OS W	O TYP	as a	AoA	as	RT	NA	CA	I
MUCCA	cow	MAM	2	2	1.70	-	6.1 1.2	2 5.5	1.6	2.4	1.2	870	96	95	0.00
MULINO	WINDMILL	B	9	ო	2.10	2	2.0 1.2	2 2.9	1.9	3.9	4.1	2	92	92	0.00
NACCHERE	CASTANETS	INS	æ	က	0.70	2	3.5 2.2	2 2.8	3 1.4	5.6	1.3	1267	81	81	0.22
-> maracas (5)	-> maracas														
NARCISO	NARCISSUS	FLO	7	က	1.48	2 5	5.0 1.6	6 5.9	1.1	5.9	6.0	0.9 1150	2	5	0.67
-> fiore (19)	-> flower														
> iris (5)	-> iris														
NAVE	SHIP	VEH	4	2	2.79	2	4.5 2.3	3 4.5	3.1.6	3.0	1.2	747	6	93	0.27
-> barca (7)	-> boat														
NINFEA	WATERLILY	FĽO	9	က	0.90		4.3 2.4	4 3.7	2.3	6.2	⊢	1.7 1853	33	33	0.54
-> ninfa (7)	-> nymph														
-> orchidea (7)	-> orchid														
NOCE	WALNUT	FRU	4	2	2.30	1 5	5.1 1.6	6 4.6	3 1.6	3.4	1.4	822	92	92	0.00
OCA	GOOSE	BIR	3	2	2.65	2 5	5.0 1.7	7 3.4	1.2	3.1	1.3	974	71	78	0.90
> anatra (12)	-> duck	L,													
-> papera (7)*	-> gosling														
-> uccello (7)	-> bird						į								
OLIERA	OIL CRUET	REC	9	3	0.01	2 3	3.3 1.6	9.6	3 1.7	5.2	1.5	1624	31	50	1.73
-> acetiera (5)*	-> vinegar cruet														
-> ampolla (14)*	-> cruet														
-> boccetta (7)	-> small bottle	,													
-> bottiglia (12)	-> bottle														
-> caraffa (5)	-> pitcher	•													
-> vaso (7)	-> vase														
OMBRELLO	UMBRELLA	ΧIM	8	3	1.85	1	6.1 1.	1.0 2.9	1.5	2.9	1.3	592	86	86	0.00
ORCHIDEA	ORCHID	5.0	8	4	1.34	2 4	4.1 1.	1.9 4.3	3 2.3	5.7	1.5	1874	17	17	1.07
-> fiore (19)	-> flower														
-> giglio (5)	> lily														
-> iris (14)	> iris														
ORECCHINI	EARRINGS	MIX	9	4	1.80		4.3 1.5	5 5.7	7 1.7	4.0	1.8	926	93	93	0.00
ORGANO	ORGAN	INS	9	3	2.43	2 4	4.3 2.1	1 3.9	3 2.0	5.3	1.9	895	98	98	0.22
-> pianoforte (5)	-> piano														
ORSO	BEAR	MAM	4	2	2.36 1	1	3.6 2.0	0 5.2	1.7	2.8	1.4	786	86	86	0.0

ITALIAN	ENGLISH	CAT	LET	SYL	FRQ S FAM	SFA	as V	TYP	as	AoA	as	FT	N A	Ą	Ξ
PAGODA	PAGODA	BUI	9	3	1.18 2	2 1.8	1.5	3.1	2.1	7.5	1.1	686	24	24	1.68
> albero di natale (10)	-> christmas tree														
-> casa (5)	-> house														
-> costruzione (5)	-> building														
-> cupola (5)	-> cupola														
-> tempio (5)	> temple														
-> tetto (7)	-> roof														
> torre (5)	-> tower														
PALMA	PALM TREE	FLO	သ	2	2.18	2 4.1	2.1	4.5	2.1	5.1	1.8	750	95	95 0	0.00
PANNOCCHIA	CORN	VEG	10	က	1.08	2 5.4	1.6	3.3	1.6	4.4	1.6	828	67	88	0.47
-> mais (21)*	-> panicle														
PANTALONI	PANTS	CLO	6	4	2.39 1	1 6.8	0.4	6.7	0.5	2.3	9.0	929	93	98 0	0.22
-> calzoni (5)*	-> trousers														
PANTOFOLA	SLIPPER	CLO	6	4	0.70	2 4.7	2.1	3.0	1.6	3.3	1.4	911	31	55 1	1.02
-> ciabatta (24)*	> slipper														
> scarpa (40) @	-> shoe														
PANTOFOLE	SLIPPERS	CLO	6	4	1.73 2	2 4.7	2.1	3.0	1.6	3.3	1.4	1.4 1065	45	65 1	1.01
-> ciabatte (23)*	-> slippers														
-> scarpe (30)	-> shoes														
PAPAVERO	РОРРУ	FLO	8	4	1.11	2 5.6	1.7	6.1	1.3	4.1	1.6	1241	48	48	0.71
-> fiore (24)	-> flower														
-> garofano (5)	-> carnation														
PAPPAGALLO	PARROT	BIR	10	4	1.67	1 4.9	1.7	5.3	1.5	3.5	1.1	1095	8	0 06	0.27
-> nccello (7)	-> bird														
PAVONE	PEACOCK	BIR	6	3	1.34	1 4.1	2.0	3.6	1.7	4.5	1.2	806	86	98	0.00
PECORA	SHEEP	MAM	6	3	1.89	1 5.3	1.3	4.5	2.0	2.8	1.1	1045	86	98	0.00
PELLICANO	PELICAN	BIR	9	4	0.30	2 3.7	1.9	3.5	1.7	5.4	1.5	1074	45	45 0	0.85
-> cicogna (7)	-> stork														
-> fenicottero (5)	-> flamingo														
-> uccello (12)	-> bird											:			
PENNELLO	ввизн	×Ψ	8	3	1.83	1 3.2	1.7	5.1	1.5	3.9	1.5	1050	93	93 0	0.22
-> spazzola (5)	-> clothes-brush														
PENTOLA	POT	НОП	7	3	1.95	2 7.0	0.0	6.7	0.5	2.7	0.8	744	86	0 86	0.00

APPENDIX A (Continued)

DEDDER LINGEST	4	710		2		200		200	KOK	2		2	₹ 5	_
				ŀ	ŀ	L	╂	L	t			-	╋	
	מ	4	1.56	-	6.4	1.1	2.6	1.5 4	4.3	1.3	1103	95	95 0	0.00
PEAR	4	N	1.75	-	5.8	1.8	6.7	0.6	2.1 6	9.0	696	100	100	0.00
PEACH	5	7	2.12	2	6.2	1.1	6.1	1.4 2	2.4	0.7 1	1144	88	88	0.27
> apricot		 												
PLANET	7	က	2.42	2	3.5	1.8	6.9	0.4	5.9	1.7 9	935	45 7	78 0	96.0
-> world]]	[]												
-> satellite														
-> satum														
PIANO	5	4	2.31	2	5.4	2.1	5.1	1.6 4	4.3	1.5	674 1	100	100	0.00
WOODPECKER	~	7	0.70	2	4.3	2.0	5.6	1.8 4	4.3	1.2.1	1140	98	98	0.48
> humming-bird								<u> </u>						
-> bird														
PIGEON	8 8	3	1.43 2		5.7	1.9	4.7	2.1 3	3.7	1.3 1280		45	55 1	1.15
-> dove														
-> dove														
-> bird														
PAJAMAS	7	က	1.51	F	6.1	1.4	2.5	1.5 2	2.3	0.7	848	86	0 86	0.00
PENGUIN	8	က	1.26	-	3.6	2.2	3.2	2.3	3.3	1.4	8	95	95	0.00
PIPE	4	ત	1.84	=	2.7	2.3	4.3	1.9	3.6	1.7 7	737	100	100	0.00
PYRAMID	8	4	2.06	-	5.6	1.5	2.3	1.6	4.7	1.0	878	86	98	0.00
SWIMMING POOL BUI	7	က	2.35	-	4.6	1.2	4.7	1.9	3.4	1.0	1041	93	93 0	0.00
PEAS	7	က	1.81	2	6.2	1.1	6.7	9.0	3.3	1.3 1010		71 7	71 0	0.76
-> beans											İ			
> runners														
-> bean														
GUN	A 7	ဗ	2.50	1	1.7	1.6	6.7	0.6 3	3.3	1.0	662	100	100	0.00
ARMCHAIR	8	က	2.58	=	6.3	0.7	6.2	1.7 2	2.7 0	0.7 7	742	88	88	0.43
-> couch														
-> chair														
TOMATO	8	4	2.25	-	6.7	1.0	2.7	1.7 2	2.7 6	18.	0.8 1025 100 100	9		0.00
BRIDGE		2	2.82	-	-		-	Ш				_	\vdash	0.00
LEEK		2	1.46	2			_			_				1.49
-> stick														
ii.	- (5)		က က	2 2	5 2 2.82 1	5 2 2.82 1 3.9 5 2 1.46 2 3.6	5 2 2.82 1 3.9 1.7 5 2 1.46 2 3.6 2.1	5 2 2.82 1 3.9 1.7 3.2 5 2 1.46 2 3.6 2.1 5.1	5 2 2.82 1 3.9 1.7 3.2 2.2 5 2 1.46 2 3.6 2.1 5.1 1.9	5 2 2.82 1 3.9 1.7 3.2 2.2 3.5 5 2 1.46 2 3.6 2.1 5.1 1.9 6.5	5 2 2.82 1 3.9 1.7 3.2 2.2 3.5 0.9 5 2 1.46 2 3.6 2.1 5.1 1.9 6.5 1.4	5 2 2.82 1 3.9 1.7 3.2 2.2 3.5 0.9 1050 5 2 1.46 2 3.6 2.1 5.1 1.9 6.5 1.4 1758	5 2 2.82 1 3.9 1.7 3.2 2.2 3.5 0.9 1050 93 5 2 1.46 2 3.6 2.1 5.1 1.9 6.5 1.4 1758 2	5 2 2.82 1 3.9 1.7 3.2 2.2 3.5 0.9 1050 93 93 5 2 1.46 2 3.6 2.1 5.1 1.9 6.5 1.4 1758 2 2

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	LET	SYL	CAT LET SYL FRO S FAM SD TYP SD AOA	SFA	N S	TYI C	as c	AoA	as	RT	¥	CA	I
-> legno (5)	-> piece of wood														
-> ramo (45) @	-> branch														
-> ramoscello (5)	-> little branch														
> sedano (7)	-> celery														
PORTICO	COLONNADE	BUI	7	ဗ	1.79	2 4	4.7 1.9	1.7	1.1	5.1	2.1	1081	55	93	0.87
-> archi (26)*	-> arches														
-> porticato (12)*	-> arcade														
POZZO	WELL	BUI	5	2	2.18	1 3	3.1 1.8	8 6.4	9.0	3.9	1.2	806	95	92	0.00
PUGNALE	DAGGER	WEA	7	3	1.58	2	1.5 1.0	5.1	1.4	4.2	1.4	733	29	59	0.37
-> coltello (69) @	-> knife														
RADIO	RADIO	XIW	2	2	2.98	1 6.	9 0.	4 5.3	1.4	3.3	1.1	778	100	100	0.00
RAPA	TURNIP	VEG	4	7	0.70	2	4.1 2.4	4.9	1.9	5.3	1.6	1450	20	20	1.32
-> cipolla (10)	-> onion														
-> patata (17)	-> potato														
-> ravanello (10)	-> radish														
-> verdura (5)	> vegetable						l							Ì	
RASOIO	RAZOR	MIX	9	3	1.67	2 3	3.4 2.4	4 3.4	2.1	5.1	1.6	1057	62	62	1.16
-> antenna (5)	> antenna														
-> lametta (10)	-> razor-blade														
-> martello (14)	-> hammer														
-> rastrello (5)	-> rake														
RASTRELLO	RAKE	MIX	6	3	0.95	1	3.5 2.0	0 5.2	1.7	3.9	1.4	870	93	93	0.00
RIBES	RED CURRENT	FRU	5	2	0.70	2 5	5.3 2.	.2 5.2	1.6	5.5	2.1	612	12	12	0.32
> uva (74) @	-> grapes														
RINOCERONTE	RHINOCEROS	MAM	11	5	1.77	2 2	2.7 2.0	0 3.7	1.9	4.6	1.2	750	93	93	0.27
-> ippopotamo (7)	-> hippopotamus														
RONDINE	SWALLOW	BIR	7	3	1.36	2 6	6.2 0.	0.7 6.7	0.0	4.0	1.2	834	93	93	0.00
ROSA	ROSE	FLO	4	2	2.61	2 6	6.9 0.3	3 6.7	0.8	2.5	1.1	607	100	100	0.00
ROULOTTE	TRAILER	VEH	æ	ဗ	1.51	2 5	5.1 1.	1.8 3.1	1.6	5.3	1.5	898	79	98	0.54
-> camper (7)	-> camper														
-> caravan (7)*	-> caravan					ŀ	ł								
RUBINETTO	FAUCET	¥	တ	4	1.79	1 6	6.7 0	0.7 5.5	2.0	3.1	1.5	781	93	93	0.00
SANDALI	SANDALS	CLO	7	3	1.63	- 3	3.9 2.1	1 3.9	1.6	3.0	1.2	1102	83	83	0.58

ITALIAN	ENGLISH	CAT		SYL	FRQ S FAM	SE	AM S	TIGS	TYPIS	SDIA	AoA S	Spl	RT	NA	L	
-> ciabatte (12)	slippers	-]			1		1	1		4	J	7	-]]
> scarpe (5)	-> shoes															
SANDALO	SANDAL	CLO	7	က	1.18	0	3.9	2.1 3	3.9	1.6	4.1	1.9 8	822 7	79 79	\vdash	0.58
-> ciabatta (12)	-> slipper														-]
-> scarpa (5)	shoe															
SASSOFONO	SAXOPHONE	INS	6	4	0.85	2	4.5	1.9 5	5.7	1.3 5	5.9	1.6	912 7	74 74	\vdash	99.0
-> clarinetto (10)	-> clarinet															
-> tromba (10)	-> trumpet															
SCALINATA	STAIRWAY	BQI	6	4	1.48 2		5.3	1.8 3	3.3 1	1.3 2.	2.0	0.8	695 4	40 99	\vdash	1.03
-> scala (26)*	-> stair							}]
-> scale (33)*	-> stairs	<u> </u>														
SCARPA	SHOE	СГО	9	2	1.97	2	5.6	1.6	6.1	1.4 2	2.1 0	0.8 6	627 1	100 100		0.00
SCARPE	SHOES	CLO	9	2	2.74	-	5.6	1.6	6.1	1.4	1.9	0.7 6	684	100 100	-	0.00
SCATOLA	BOX	REC	7	က	2.46	2	5.3	1.2 5	5.5	1.8	2.1	0.7 6	625 1	100 100	↓	0.00
SCIARPA	SCARF	CLO	7	7	1.79	-	6.3	0.8 5	5.9	1.2	2.5	1.0 7	717 10	100 100		0.00
SCOIATTOLO	SQUIRREL	MAM	2	4	1.04 40.1	2	4.5	1.7 4	4.1	1.8	2.9	1.1	705	93 93	\leftarrow	0.00
SCOPA	вкизн	НОП	2	2	1.40	2	6.9	0.3 6	6.0	1.5 2.	2.7	1.2 6	611	98 98	 - -	0.00
SCRIVANIA	DESK	FOR	6	4	2.48	2 6	6.2	1.1 5	5.7	1.7 3.	3.9 1	1.4	833 8	83 83		0.33
-> tavolo (10)	-> table															
SECCHIO	BUCKET	REC	7	2	1.48	2	1.8	1.4 6	6.1 0	0.8 2.	2.8	1.1	761 9	95 95	⇤	0.00
SEDANO	CELERY	VEG	9	က	1.63	2	6.0	1.3 4	4.9 2	2.1 4	4.5	1.2 10	1071	92 92	-	0.48
-> finocchio (7)	-> fennel															
-> prezzemolo (5)	-> parsley															
SEDIA	CHAIR	FOR	5	2	2.41	-	6.8	0.4 6	6.3	1.0	2.0	0.8	555 1(100 100		0.00
SGABELLO	STOOL	FOR	æ	ဗ	1.65	2	4.7	1.9	1.1	1.6 3.	3.1	1.5 7	736 7	79 79		0.43
> sedia (5)	-> chair															
-> seggiolino (5)	-> seat															
SLITTA	SLED	VEH	9	2	1.51	0	3.3	2.1	1.9	1.1	3.3	1.7 8	849 8	88 88	 	0.00
SOMMERGIBILE	SUBMARINE	VEH	12	5	40.	2	1.8	1.7 2	2.1	1.4 5.	5.5	1.3 12	1270 6	64 71	1 -	0.60
-> dirigibile (10)	-> dirigible															
-> sottomarino (7)*	-> submarine															
SPADA	SWORD	WEA	2	7	2.35	-	1.7	1.2 4	4.7 2	2.0 2.9		1.1 8.	821 9	95 95	-	0.00
STIVALE	воот	CLO	7	3	1.20	2	4.3	2.0 4	4.3 2	2.0 3.	3.5	1.4	651 1(100 100	1	0.00
			:	1				1								

APPENDIX A (Continued)

144 144		140	t			1	3		<u> </u>	[90		-		
	בואמרומם	3	-	316			_	-4	-	YOY	_	_	ž	_	
STIVALI	BOOTS	CLO	7	3	5.08	1 4.3	1 2.0	4.3	2.0	3.3	0.8	209	90	100	0.00
STRUZZO	OSTRICH	BIR	7	2	1.28	2 3.3	1.9	2.9	1.2	4.9	1.1	1012	83	83	0.00
SVEGLIA	CLOCK	¥	7	2	1.93	1 6.9	0.3	6.0	1.1	3.6	1.2	710	06	06	0.27
-> orologio (7)	-> watch										•				
TAMBURO	DRUM	SN	7	က	1.86	1.4.3	3 1.7	5.1	1.4	3.3	1.3	790	95	95	0.00
TANICA	JERRY CAN	REC	ဖ	ო	0.70	2 4.1	1.8	4.5	1.9	6.0	1.3	853	9/	9/	0.22
-> botte (5)	-> barrel														
TAVOLO	TABLE	FOR	9	က	2.99	1 6.9	0.3	9.9	0.5	2.1	0.7	609	86	86	0.00
TAVOLOZZA	PALETTE	ΧIX	6	4	1.52	2 3.1	1.8	3.3	2.1	5.9	1.4	1155	20	22	0.49
-> tagliere (24)	-> chopping-board														
TAZZA	CUP	ПОН	2	2	2.17	2 7.0	0.0	6.3	1.0	2.5	1.1	685	8	8	0.00
TEIERA	TEAPOT	REC	9	က	1.32	2 4.7	1.6	3.7	1.6	5.1	1.5	857	62	62	0.48
-> caraffa (7)	-> pitcher														
-> vaso (5)	-> vase														
TENAGLIA	PINCERS	XIX	80	က	1.34	2 3.7	1.8	0.9	1.4	5.7	1.6	815	25	25	0.53
-> pinza (33)	-> pliers														
	TENT	MIX	5	2	1.95	1 3.5	5 2.3	1.8	1.0	3.4	1.1	925	93	86	0.22
-> teepee (5)*	-> teepee														
TIGRE	TIGER	MAM	2	2	2.17	2 4.1	2.4	5.7	1.6	3.0	1.4	099	95	95 (0.00
TOPO	MOUSE	MAM	4	7	2.59	1 5.5	3.1.6	2.5	1.4	2.6	1.1	920	86	86	0.00
TORRE	TOWER	B	ഹ	2	2.58	1 3.9	1.4	4.7	1.5	3.9	1.4	808	8	8	0.27
-> castello (7)	-> castle														
TRAM	TRAM CAR	νЕн	4	١	2.13	2 4.9	1.8	4.6	2.0	4.9	2.1	993	29	9 (0.51
> treno (26)	-> train														
TRAPANO	DRILL	MIX	7	3	1.40	1 3.3	3 2.1	6.2	0.0	4.1	1.6	825	92	95 (0.00
TRATTORE	TRACTOR	VEH	8	3	1.20	1 5.5	5 1.9	3.1	1.4	3.0	1.6	787	92	95 (0.00
TRENO	TRAIN	VEH	2	2	2.78	1 6.5	1.4	6.1	1.2	2.5	1.1	836	100	100	0.00
TRICICLO	TRICYCLE	VEH	8	3	1.08	1 5.3	1.9	2.7	1.9	2.2	1.4	839	98	98	0.00
TROMBA	TRUMPET	INS	9	2	1.88	1 4.5	5 2.1	5.5	1.7	3.4	1.4	814	92	92 (0.00
TUCANO	TOUCAN	BIR	9	ဗ	0.85	2 3.3	3 2.2	4.9	2.0	6.1	2.1	1371	90	09	0.54
> pappagallo (7)	-> sparrow														
-> pellicano (7)	-> pelican														
TULIPANO	TULIP	딘	8	4	0.85 2	2 6.1	1.4	6.1	0.7	4.6	1.7	1.7 1160 71		7	0.48

APPENDIX A (Continued)

ITALIAN	ENGLISH	CAT	LET	SYL	CAT LET SYL FRO S FAM SD TYP SD A0A	SF	AM	T 0	P SI	Ao/	ds A		RT NA CA	CA	Ξ
-> fiore (5)	-> flower														
-> rosa (7)	-> rose														
UVA	GRAPES	FR	က	~	2.28 2		6.4	1.5 6	6.3 0.9	9 2.6	1.2	2 577	7 93	100	0.27
-> grappolo (7)*	-> bunch														
VESTITO	DRESS	O C C	7	က	2.41	2	3.5	2.1 5	5.7 1.8	9 2.0	0.8	3 700	83	97	0.40
-> abito (14)*	-> garment														
VIOLA	VIOLET	FLO	2	2	1.76 2		4.6	2.2 5	5.9 1.4	4 3.6		1.7 1196	96 29	34	1.02
-> ciclamino (12)	-> cyclamen														
-> fiore (17)	> flower														
> violetta (5)*	-> little violet														
VIOLINO	VIOLIN	SNI	7	က	2.15 2	2	4.5	1.6 6	6.3	1.0 4.5	6.0	9 763	3 86	98	0.33
-> chitarra (10)	-> guitar														
ZAINO	BACKPACK	×Ψ	2	7	1.93 2		4.8	1.7 6	6.6 0.7	7 4.5		1.2 1307	20	6	0.00
ZATTERA	RAFT	VEH	7	ო	1.23 2		2.8	2.0 1	1.3 0.6	6.4.8	9.0	894	93	63	0.0
ZEBRA	ZEBRA	MAM	5	2	1.20		3.8	1.7 4	4.8 1.9	9.8	3 1.4	192	1 95	95	0.22
> giraffa (5)	-> giraffe														
ZUCCA	PUMPKIN	VEG	5	2	1.41	2	5.7	1.5 4	4.7 2.0	0 4.8	1.9	962	5 86	98	0.22
-> pomodoro (5)	-> tomato														

APPENDIX B
List of the Stimuli Common to Our Study and That of Snodgrass and Vanderwart (1980) (See the Text for Details)

LANG	LANGUAGE		FAM	MILIARITY	 <u>≻</u>		AGE	OF AC	AGE OF ACQUISITION	NO		HS	STATISTIC	<u>ပ</u>			FREQUENCY	ENCY	
ITALIAN	ENGLISH	FAM	FAMI	FAMa	FAMf	FAMS	AoA	AoAi	AoAa	AoAf	Ξ	₹	Е	Ξ	H _s	FRO	FROa	FROF	FROs
FISARMONICA	ACCORDION	4.20	2.17	2.15	1.63	1.55	4.80	5.65	_	3.08	0.22	0.43	0.18	0.00	0.16	1.38	0.30	0.73	0.95
0	AIRPLANE	5.73	3.22	3.78	2.63	2.43	3.47	4.03	3.49	1.92	0.00	69.0	1.77	0.29	0.00	2.86	1.08	1.71	1.91
	APPLE	6.33	4.32	3.98	4.40	4.33	1.73	2.15	2.55	1.46	0.00	0.00	0.16	0.00	0.02	2.27	1.00	1.50	1.38
CARCIOFO	ARTICHOKE	9.00	3.30	2.29	2.13	2.44	4.07	5.07	6.28	3.04	0.00	0.00	1.54	0.23	0:30	1.81	0.00	0.39	0.48
ASPARAGO	ASPARAGUS	2.67	2.60	2.68	2.37	2.63	5.13	6.25	6.03	3.19	0.58	0.64	1.27	0.16	0.58	0.70	0:30	0.42	0.30
ASCIA	AXE	2.80	2.37	2.28	1.57	1.86	5.00	5.95	4.97	2.64	0.85	1.48	0.53	0.00	0.04	1.26	1.11	1.01	1.18
BANANA	BANANA	00.9	4.05	3.65	3.87	3.84	2.33	2.53	2.76	1.58	0.00	0.00	0.00	0.00	0.00	1.68	0.70	0.57	0.85
BOTTE	BARREL	3.80	2.17	2.02	1.27	2.16	3.87	4.80	5.37	3.15	0.00	0.36	0.00	0.79	1.01	1.84	1.40	1.04	0.90
ORSO	BEAR	3.60	1.82	1.98	1.60	1.51	2.80	3.88	3.56	1.62	0.00	0.32	0.53	0.00	0.04	2.36	1.76	1.05	1.67
LETTO	BED	6.73	4.77	4.72	4.93	4.78	1.80	2.15	2.42	1.24	0.00	0.48	0.00	0.51	0.04	3.01	2.11	2.31	2.62
CINTURA	BELT	5.93	4.30	4.12	4.13	4.43	3.67	3.95	3.95	2.42	0.22	1.31	0.16	0.41	0.13	2.12	1.48	1.41	1.67
BICICLETTA	BICYCLE	6.87	3.80	3.78	3.37	3.61	2.27	3.45	3.74	1.80	0.22	0.00	0.53	0.41	0.18	2.45	0.78	0.73	1.41
STIVALE	воот	4.33	3.80	3.38	3.73	4.08	3.53	3.55	3.75	2.04	0.00	1.44	69.0	0.40	90.0	1.20	1.15	1.35	1.00
BOTTIGLIA	BOTTLE	6.33	4.60	3.72	4.20	3.88	1.87	2.92	3.58	1.92	00'0	0.00	0.28	0.00	0.00	2.40	1.89	1.62	5.06
SCATOLA	вох	5.33	3.72	2.88	2.97	3.49	2.13	3.70	5.69	1.65	0.00	0.00	0.80	0.26	0.00	2.46	1.85	1.73	2.08
SCOPA	впизн	6.93	4.00	3.80	4.23	3.98	2.67	3.38	3.08	1.77	0.00	0.27	0.88	0.15	0.18	1.40	1.65	1.01	1.23
CANDELA	CANDLE	6.33	3.42	3.08	3.60	4.84	2.73	3.78	4.10	1.96	0.00	0.00	0.00	0.00	0.00	1.98	1.28	1.28	1.74
CANNONE	CANNON	1.67	1.70	1.52	1.07	n.a.	4.60	4.55	n.a.	3.08	0.00	0.00	0.49	0.16	n.a.	1.98	0.90	1.66	n.a.
AUTOMOBILE	CAR	7.00	4.27	4.70	4.53	4.43	2.80	3.50	2.73	1.40	1.34	1.48	1.08	0.15	90.0	2.60	2.44	2.08	2.48
CAROTA	CARROT	6.73	3.55	3.55	3.90	3.33	2.93	3.80	3.16	1.58	0.00	0.00	0.00	0.00	0.02	1.72	0.30	0.62	1.04
GATTO	CAT	6.47	3.85	4.22	3.63	3.06	2.00	2.45	2.50	1.35	0.00	0.16	0.00	0.00	0.00	2.58	1.38	1.65	2.15
SEDANO	CELERY	9.00	3.15	3.40	2.00	2.73	4.53	5.35	2.00	3.46	0.48	1.35	0.83	0.65	1.27	1.63	0.70	0.21	0.30
SEDIA	CHAIR	6.80	4.57	4.58	4.93	2.10	2.00	2.65	2.92	1.38	0.00	0.00	0.00	0.00	0.00	2.41	1.83	1.92	2.12
CILIEGIA	CHERRY	6.13	3.50	3.38	3.13	3.06	2.93	3.17	3.79	2.00	0.37	0.16	0.52	0.29	0.09	40.1	0.85	0.90	n.a.
GALLINA	CHICKEN	5.80	2.67	2.42	2.30	2.45	2.40	3.10	3.13	1.50	0.00	0.48	1.35	0.47	0.09	2.10	1.58	1.36	1.58
CHIESA	СНИВСН	5.20	3.25	3.38	2.97	3.49	2.87	3.25	3.85	2.27	0.00	0.00	0.44	0.15	0.00	3.22	2.54	2.25	2.34
SVEGLIA	CLOCK	6.93	4.17	4.38	4.73	3.82	3.60	3.72	3.47	2.69	0.27	0.78	0.16	1.01	0.10	1.93	1.32	1.17	2.16
PANNOCCHIA	CORN	5.43	3.12	3.50	3.10	2.43	4.40	5.30	3.50	2.60	0.47	1.48	0.88	0.56	0.21	1.08	1.54	0.93	1.46
DIVANO	сопсн	6.67	4.35	4.40	4.40	4.45	2.47	4.00	3.63	2.16	0.00	0.16	0.92	0.34	0.28	2.22	1.11	1.00	1.83
MUCCA	cow	6.13	2.70	2.42	2.63	3.63	2.40	3.10	3.11	1.60	0.00	0.35	0.44	0.00	0.00	1.70	1.48	1.56	1.40
TAZZA	CUP	7.00	4.40	4.40	4.83	3.75	2.47	3.78	2.68	2.16	0.00	1.35	0.44	0.15	60.0	2.17	1.66	1.35	1.67
CERVO	DEER	4.93	0.75	2.25	1.87	1.51	3.93	4.85	3.98	2.88	0.33	0.75	1.44	0.29	0.56	1.99	1.15	0.68	0.95
SCRIVANIA	DESK	6.20	4.47	4.32	4.60	4.80	3.87	5.20	3.92	2.65	0.33	0.48	0.32	0.00	0.14	2.48	1.82	2.03	1.46
CANE	000	9.60	4.20	4.60	3.80	4.00	1.87	2.05	2.23	1.19	0.00	0.00	0.00	0.00	0.00	2.78	1.88	2.09	2.35
ASINO	DONKEY	5.47	1.82	1.88	2.07	1.88	2.53	3.78	4.35	2.08	0.74	0.16	0.87	0.00	0.18	1.85	0.30	1.37	1.57
VESTITO	DRESS	3.53	3.60	3.62	3.40	3.76	2.00	3.88	3.32	1.46	0.40	0.87	0.00	0.00	0.11	2.41	1.83	2.00	2.23

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TAMBURO	DRUM	4.33	2.50	2.60	1.57	4.04	3.33	4.03	4.27	2.15	00.0	0.35	000	0 00	0.05	1 86	1 08	1 20	136
ANATRA	DUCK	5.20	2.65	2.75	2.50	2.41	3.87	3.53	2.93	1.85	0.91	1.47	0.28	0.29	0.04	1.41	1.00	1.15	1.04
AQUILA	EAGLE	4.07	1.80		1.50	1.82	4.07	4.85	5.08	2.73	0.71	1.07	1.14	0.54	0.12	2.28	0.78	1.09	1.48
ELEFANTE	ELEPHANT	4.20	2.10	2.35	1.40	1.43	2.67	3.72	3.66	2.04	0.00	0.00	0.00	0.00	0.00	1.85	06.0	06.0	1.28
FORCHETTA	FORK	6.80	4.50	4.78	4.90	4.35	1.80	2.60	3.03	1.42	0.00	0.00	0.00	0.00	0.00	1.67	1.18	0.84	1.1
GIRAFFA	GIRAFFE	4.00	2.07	1.80	1.30	1.53	2.87	4.05	4.21	2.12	0.00	0.16	0.32	0.00	0.00	1.00	0.00	0.34	0.48
BICCHIERE	GLASS	7.00	4.50	4.78	4.97	2.35	1.80	2.15	2.90	1.23	0.00	0.00	0.16	0.00	0.00	2.53	2.00	2.00	2.08
GUANTO	GLOVE	5.33	3.42	3.38	3.97	3.94	2.93	3.78	3.33	2.00	00.0	0.00	0.16	0.00	0.11	1.76	1.00	1.37	1.40
	GRAPES	6.36	3.92	3.65	3.60	2.31	2.60	3.17	3.50	2.04	0.27	0.71	0.38	0.29	0.30	2.28	06.0	1.10	1.26
CHITARRA	GUITAR	9.00	3.47	3.58	2.90	3.14	4.27	5.10	4.32	2.50	0.00	0.00	0.16	0.15	00.0	2.04	1.30	0.73	1.58
PISTOLA	BUN	1.73	1.77	2.68	1.53	151	3.33	4.32	4.05	2.81	0.00	0.27	1.09	0.73	0.19	2.50	2.08	1.36	1.71
ARPA	HARP	3.87	1.85	1.88	1.67	1.63	5.73	6.55	6.08	3.42	0.00	0.16	0.00	0.15	0.09	1.40	0.30	62.0	0.70
CAPPELLO	HAT	2.80	3.52	3.18	2.83	4.67	2.47	3.12	2.90	1.62	0.00	1.75	0.16	0.00	0.10	2.58	1.76	1.95	1.95
2	HELICOPTER	4.80	2.62	2.55	1.97	1.67	4.00	5.75	4.93	2.72	0.00	0.00	0.32	0.00	0.04	2.15	0.30	0.03	0.70
LO LO	HORSE	2.67	2.92	3.55	2.63	2.57	2.60	3.03	3.53	1.54	0.00	0.00	0.00	0.00	0.00	2.94	2.07	2.13	2.27
	HOUSE	6.33	3.50	4.38	4.47	4.36	1.67	1.92	2.41	1.38	0.00	0.43	0.32	0.00	0.13	3.94	2.77	2.71	3.25
CANGURO	KANGAROO	3.73	1.65	1.92	1.07	1.31	3.87	4.78	4.30	2.88	0.00	0.00	0.00	0.00	0.05	0.95	0.00	0.21	0.48
BOLLITORE	KETTLE	3.27	3.12	3.80	3.60	4.80	5.87	5.97	5.35	3.31	0.62	1.29	1.66	1.01	0.18	0.70	09.0	0.48	0.70
COLTELLO	KNIFE	6.87	4.72	4.45	4.97	4.69	2.33	3.17	3.18	1.65	0.00	0.16	09.0	0.00	0.13	2.40	1.89	1.52	1.68
ADA	LAMP	5.47	4.45	4.20	4.80	3.92	2.87	3.92	3.75	2.04	0.43	1.49	0.44	0.00	00.0	2.19	1.28	1.86	1.74
Υ	LEAF	6.27	3.90	4.30	3.60	3.96	1.93	2.58	2.75	1.54	0.27	0.79	0.53	1.09	60'0	2.17	1.11	2.02	1.86
J.	LEMON	2.07	4.10	3.25	3.63	3.71	2.73	3.33	3.60	1.88	0.00	0.00	0.00	0.00	0.00	2.10	1.28	0.78	1.08
LEONE	LION	4.33	1.87	2.00	1.50	1.53	2.40	3.58	3.75	1.69	0.00	0.00	0.37	0.00	0.00	2.61	1.26	1.28	1.75
TOPO	MOUSE	5.53	2.22	2.45	2.27	2.86	2.60	3.10	3.35	1.62	0.00	0.00	0.75	0.29	0.26	2.59	1.04	1.06	1.56
9	MUSHROOM	6.07	2.95	2.88	2.90	1.53	2.93	4.10	4.45	2.35	0.00	0.00	0.00	0.00	0.18	2.02	0.48	0.87	n.a.
CIPOLLA	ONION	6.13	3.42	3.32	2.87	3.29	3.53	4.53	4.08	2.58	0.33	0.29	0.00	0.33	90.0	1.96	1.20	0.85	1.56
ARANCIA	ORANGE	2.67	4.45	3.34	4.03	3.82	2.71	3.22	3.23	1.62	0.43	0.77	0.53	0.29	0.49	1.75	1.38	1.10	1.53
STRUZZO	OSTRICH	3.27	1.72	1.52	1.10	1.41	4.87	5.97	5.55	2.88	0.00	0.28	0.35	0.15	0.49	1.28	0.00	0.47	0.95
GUFO	OWL	4.07	2.05	2.22	1.67	1.82	4.07	4.47	4.08	2.48	0.33	0.71	0.00	0.52	0.19	1.90	0.48	0.63	1.38
PANTALONI	PANTS	6.80	4.75	4.55	4.87	4.88	2.27	2.92	2.83	1.54	0.22	0.00	0.53	0.15	0.21	2.39	1.00	1.47	1.79
PESCA	PEACH	6.20	3.80	2.90	2.87	3.65	2.40	3.45	3.74	2.12	0.27	1.12	1.19	1.12	0.68	2.12	09.0	1.12	n.a.
PAVONE	PEACOCK	4.13	1.85	2.05	1.37	1.73	4.47	5.28	4.90	3.08	0.00	0.00	0.81	0.00	0.07	1.34	0.48	9.70	0.48
PERA	PEAR	5.80	4.12	3.55	3.37	4.02	2.07	2.50	3.68	1.81	0.00	0.00	0.00	0.00	0.00	1.75	0.85	0.80	1.32
PINGUINO	PENGUIN	3.60	2.05	1.70	1.37	1.39	3.27	4.95	4.74	2.77	0.00	0.00	0.38	0.15	0.00	1.26	0.00	0.15	0.85
PEPERONE	PEPPER	6.40	3.42	2.92	2.47	3.06	4.33	5.07	4.78	3.23	0.00	0.22	1.07	0.00	0.14	1.56	1.15	0.18	0.85
PIANOFORTE	PIANO	5.40	2.75	3.42	3.10	2.16	4.27	5.00	4.28	2.00	0.00	0.84	0.70	0.00	0.10	2.31	1.59	1.61	1.79
MAIALE	PIG	5.40	2.27	2.18	1.83	2.27	2.53	3.38	3.15	1.76	0.00	0.27	0.60	0.60	0.07	2.08	0.95	1.28	1.54
ANANAS	PINEAPPLE	4.87	3.37	2.95	2.73	2.69	4.47	5.07	4.89	2.46	00.0	00.0	0.00	0.00	0.00	1.36	9.	0.32	0.85

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CARAFFA	PITCHER	5.07	3.97	3.50	3.97	3.98	4.87	4.85	4.82	3.65	1.17	0.91	0.54	1.34	0.11	1.08	1.34	0.20	1.20
ZUCCA	PUMPKIN	5.73	2.47	3.08	1.90	2.26	4.80	4.70	4.00	2.77	0.22	0.00	0.00	0.29	0.25	1.41	0.48	0.27	0.85
CONIGLIO	RABBIT	6.13	2.62	2.95	2.67	2.31	2.80	2.90	2.80	1.65	0.00	0.00	0.00	0.00	0.00	2.07	1.08	1.32	1.26
RINOCERONTE RHINOCEROS	RHINOCEROS	2.67	1.80	1.52	1.17	4.73	4.60	5.18	5.15	2.96	0.27	0.19	0.56	0.00	0.20	1.77	09.0	0.32	0.48
GALLO	ROOSTER	6.40	2.97	2.22	2.40	2.45	2.47	2.95	4.16	1.85	0.27	0.57	1.21	0.00	0.53	2.29	09.0	1.29	1.53
FORBICE	SCISSORS	5.93	4.10	3.98	4.07	1.43	3.00	3.88	3.79	2.00	0.00	0.70	0.16	0.34	0.12	1.53	0.30	0.92	1.00
PECORA	SHEEP	5.33	2.35	1.85	1.83	2.28	2.80	3.38	3.60	1.65	0.00	0.63	0.95	0.00	0:30	1.89	1.38	1.37	1.04
CAMICIA	SHIRT	6.13	4.50	4.56	4.37	4.69	2.93	3.72	3.00	2.04	0.00	0.77	0.00	0.00	0.07	2.62	1.45	1.68	2.09
SCARPA	SHOE	5.60	4.65	4.62	4.93	4.75	2.07	2.88	2.72	1.38	0.00	0.16	0.28	0.00	0.00	1.97	1.18	1.18	1.53
GONNA	SKIRT	4.00	3.60	3.64	3.23	3.75	2.53	3.00	3.84	1.65	0.00	0.32	0.16	0.00	0.05	2.17	1.34	1.36	1.88
SLITTA	SLED	3.27	1.70	2.80	1.90	3.75	3.27	4.93	4.68	2.81	00.0	1.09	0.00	0.26	0.59	1.51	0.00	0.13	n.a.
CALZINO	SOCK	5.93	4.30	4.52	4.97	4.51	2.87	3.05	2.44	1.58	0.00	0.83	0.00	0.00	0.00	0.85	0.70	0.95	0.85
CUCCHIAIO	SPOON	6.80	4.72	4.50	4.93	4.67	2.00	2.72	2.45	1.35	0.00	0.57	0.16	0.00	0.16	2.02	0.85	0.00	0.90
SCOIATTOLO	SQUIRREL	4.47	2.25	3.82	1.83	1.53	2.93	4.22	3.89	2.42	0.00	0.00	0.17	0.00	0.02	1.04	0.30	0.77	1.65
SGABELLO	STOOL	4.67	3.52	3.08	3.80	3.25	3.13	4.72	4.26	2.20	0.43	0.19	0.16	0.00	1.04	1.65	0.95	0.93	1.23
FRAGOLA	STRAWBERRY	9.00	3.62	3.20	3.20	3.37	2.53	2.97	3.68	1.81	0.00	0.00	0.17	0.00	0.00	1.56	0.00	0.85	0.95
CIGNO	SWAN	5.47	2.22	1.97	1.87	1.96	3.53	4.62	4.30	2.65	0.27	0.48	0.64	0.15	0.33	1.71	09.0	96.0	1.04
MAGLIONE	SWEATER	6.67	4.62	4.48	4.87	4.94	2.60	3.75	3.45	2.31	0.00	1.24	0.98	0.29	0.05	1.62	1.18	0.32	1.32
TAVOLO	TABLE	6.93	4.60	4.35	4.83	4.78	2.07	2.47	2.58	1.35	0.00	0.43	0.32	0.00	0.04	2.99	2.30	2.41	2.67
CRAVATTA	TIE	3.27	2.95	3.80	3.33	2.55	3.93	4.85	4.42	2.38	0.00	0.00	0.89	0.00	0.00	2.20	1.38	0.42	1.72
TIGRE	TIGER	4.07	2.07	2.10	1.30	3.24	3.00	4.32	3.95	2.31	00'0	0.16	0.33	0.00	0.40	2.17	0.90	0.80	1.18
POMODORO	TOMATO	6.67	3.80	3.78	4.27	4.04	2.67	2.80	3.47	1.65	0.00	0.00	08'0	0.15	0.04	2.25	0.70	0.65	1.08
TRENO	TRAIN	6.53	4.22	4.15	3.97	3.06	2.53	3.37	3.45	1.73	0.00	0.35	0.74	0.67	0.07	2.78	1.92	2.23	2.05
CAMION	TRUCK	6.20	2.72	4.02	3.23	3.43	3.07	4.03	3.08	1.62	0.22	1.11	0.53	0.00	0.04	2.29	1.76	1.35	1.41
TROMBA	TRUMPET	4.47	2.30	2.60	1.90	1.53	3.40	4.97	5.39	2.35	0.00	0.41	1.10	0.29	0.13	1.88	0.90	1.11	1.00
OMBRELLO	UMBRELLA	6.07	3.80	3.95	3.43	3.47	2.93	3.58	3.80	1.88	0.00	0.16	00.0	0.47	0.02	1.85	0.95	1.05	1.56
VIOLINO	VIOLIN	4.53	2.40	2.68	2.03	1.82	4.47	5.88	5.50	2.54	0.33	0.00	0.72	0.15	0.51	2.15	1.08	1.17	1.26
ANGURIA	WATERMELON	5.93	3.77	3.05	2.53	2.00	3.20	4.47	4.08	2.81	0.27	2.12	0.55	0.47	0.16	1.08	0.30	0.23	0.48
Pozzo	WELL	3.13	1.97	1.45	1.90	n.a.	3.87	4.97	n.a.	2.77	0.00	0.00	0.60	0.00	n.a.	2.18	2.95	1.39	n.a.
MULINO	WINDMILL	2.00	2.07	1.80	1.57	1.65	3.87	5.57	n.a.	2.31	0.00	0.88	0.16	0.00	0.09	2.10	0.30	1.28	1.57
ZEBRA	ZEBRA	3.80	1.92	1.60	1.07	n.a.	3.60	4.55	n.a.	2.46	0.22	0.00	0.00	0.00	n.a.	1.20	0.30	0.42	n.a.

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