WHAT DO CONNECTIVES AND PLURALS HAVE IN COMMON?
The linguistic expression of ad hoc categories*  

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The aim of this paper is to raise new questions for linguistic research, taking into account the linguistic expression of a particular type of categorization process, namely the construction of ad hoc categories. It will be shown that, based on a preliminary set cross-linguistic data, the strategies used to refer to ad hoc categories are mobilized from a variety of different grammatical areas, ranging from connectives to special plural forms and derivational affixes. It will be argued, however, that the selection of the grammatical strategies is not random, but is rather connected to the more general function of constructing sets, which is naturally close to the construction of categories. Finally some remarks on the role of context and on the role of exemplars in the construction of ad hoc categories are made.

1. INTRODUCTION

The main purpose of this paper is to draw attention to the great cross-linguistic variation attested in coding of a basic cognitive and communicative process, namely the construction of so-called ad hoc categories. The discussion will be based on data from a preliminary cross-linguistic survey, which constitutes the first step of a new research project on the linguistic coding of ad hoc categories, comprising a typological, a diachronic and a corpus-based perspective.\(^1\) Being a preliminary study, this survey does not aim to be neither exhaustive nor complete, but its goal is to show a new perspective on a number of different linguistic phenomena that have not been jointly analyzed until now, showing that, despite great formal differences, they all serve as tools for the same function, namely the construction of ad hoc categories.

The identification of ad hoc categories is traced back to the work of the psychologist Lawrence Barsalou (1983, 1991, 2003, 2010), who coined the term and conducted several experiments aimed at unfolding the internal structure of these categories. According to Barsalou (2010: 86), ad hoc categories are novel categories constructed spontaneously to achieve goals relevant in the current situation (e.g., constructing "tourist activities to perform in Beijing" while planning a vacation). They are constructed spontaneously because they do not reside as knowledge structures in long-term memory. Ad hoc categories are contrasted with numerous well-established categories associated with familiar words (e.g., cat, eat, happy). Barsalou (1983) showed that ad hoc categories are highly context-dependent, but once constructed, they function as coherent categories with internal structures and typicality gradience, much like stable categories. In his most recent paper on this topic (2010: 87),

\(^*\) I would like to thank Andrea Sansò and Mira Ariel for crucial discussions on data and their interpretation, and Giorgio Francesco Arcodia for helping me with the glosses of Chinese and Japanese examples.

\(^1\) The LEAdhoC project (Linguistic Expression of Ad hoc Categories) has been submitted as a grant proposal to the Italian Ministry of University and Research, and is currently under examination. The main collaborating partner is Andrea Sansò (Insubria University).
Barsalou argues that "much further study is needed to understand the role of ad hoc categories in cognition" and an important issue to explore is "how productive conceptual and linguistic mechanisms produce ad hoc categories".

However, while in psychology a number of further experimental studies has followed Barsalou's theory of ad hoc categories, his findings had only a small echo in linguistics. The aim of this paper is to show that the linguistic expression of this special type of categories, whose main distinguishing property is the dependence on context for their construction, deserves attention, because it may shed new light on the communicative role of such categories and on their functional properties, thus providing insights also to psychological research in this domain.

This paper is structured as follows. In section 2 the notion of ad hoc category is discussed and contextualized in the current literature, and some methodological remarks concerning the language sample and the identification of the relevant constructions are made. Section 3 is devoted to the discussion of data, with the aim to exemplify the attested variation: first cross-linguistic data are presented and organized according a scale of decreasing morphological integration (3.1), then some remarks are made on the different degrees of context dependence and different roles that exemplars may play in the construction of ad hoc categories (3.2). Finally, section 4 contains some conclusive remarks and the prospects for future research.

2. AD HOC CATEGORIES: DEFINITIONS AND METHODOLOGY

Many of our cognitive categories are stable, others are ad hoc. Crucially, ad hoc categories are context-dependent and people construct them to achieve their communicative goals. For example, constructing the category "activities one can perform on a sunny Sunday afternoon" can be instrumental to achieving the goal of inviting a friend to spend the Sunday afternoon together. Cognitive psychologists (Barsalou 1983 and onwards) have shown that, for ad hoc categories, the category concepts, concept-to-instance associations, and instance-to-concept associations are much less established in memory than for common categories (e.g., "fruit", "furniture"). In addition to these differences, however, ad hoc categories have been shown to possess graded structures (i.e., typicality gradience) as salient as those structuring common categories. This appears to be the result of a similarity comparison process that imposes graded structure on any category regardless of type (Barsalou 1983).

Stable categories can typically be expressed by fairly short conventional linguistic means (e.g., 'queen', 'eagle', etc.). Ad hoc categories, instead, do not come with ready-made linguistic labels (words [e.g. furniture, clothing], or small phrases [e.g. grocery stores, vegetarian food]), and are often described by means of complex expressions (e.g., 'tourist activities to perform in Rome', 'clothing to wear while house painting', etc.). Their identification in discourse nonetheless crucially depends on verbalization, i.e. the linguistic strategies that speakers systematically employ to refer to the process of ad hoc category building, as exemplified in (1) where and so on leads the hearer to go on constructing the category 'activities to perform in Rome'.

(1) We are in Rome for the weekend. We have plenty of things to do, you know: [visit the Colosseum, stroll through the Gardens of the Villa Borghese, go to the Trevi fountain, and so on… ] everything in two days! But we’d love to meet you for a coffee.

Despite the central role played by verbalization in the process of ad hoc categories construction, little attention has been devoted to the linguistic constructions that are
systematically employed to convey this process. Taylor (2003), in his study on linguistic categorization, does not even consider this type of categorization.

The notion of ad hoc categories has recently been employed in research on lexical pragmatics, within Relevance Theory (Wilson & Carston 2007, Carston 2010), accounting for why the meanings of words must be pragmatically adjusted and fine-tuned in context, so that their contribution to the proposition is different from their lexically encoded sense. They thus focus on the semantic processes of narrowing and broadening that underlie the normal interpretation of words. The Relevance Theoretic approach crucially shows how the interpretation of potentially every word is dependent on context, thus ultimately suggesting that every abstract category conveyed by lexicon is necessarily translated into a more concrete category, anchored in the situational context. Though closely connected to Wilson and Carston’s research, the process at issue in this study focuses on a different phenomenon: we are concerned with the linguistic strategies specifically encoding, i.e. overtly signaling, this process, rather than with the cognitive mechanisms underlying the interpretation of lexicon. Furthermore, the construction of ad hoc categories starts from the context and requires an abstraction over concrete exemplars, rather than going from an abstract category and looking for its actualization in the context.

The linguistic coding of ad hoc categories has been addressed in the study of vagueness in language by Channel (1994) and Overstreet (1999, 2014, Overstreet & Yule 1997), where so-called ‘general extenders’, e.g. and stuff like that, have been identified as strategies constructing vague categories. Channel and Overstreet have underlined how the categories built through such constructions do not define a precise set and may therefore be useful tools to be vague in discourse.

Ariel and Mauri (2014), based on corpus data of spoken American English, identify the construction of a higher-level, frequently ad hoc category as the most frequent function of or in discourse, as exemplified in (2):

(2) HAROLD: And then like, .. r- rural areas, or, like, you know, central Iowa and stuff, .. had like ... ten percent or less, ... of the males, .. had been infected. (SBC: 002)

Ariel and Mauri provide an explanation for this example: Harold had been talking about the alarmingly high rate of HIV positive males in the Bay area in California, and he then contrasts this rate with that of rural areas, or, central Iowa and stuff. What he has in mind is a category like ‘places remote from the major urban population centers’, which include rural areas, but also small cities. In other words, he is building an ad hoc category, which is useful for his communicative goals, depends on the contextual knowledge of demographic properties of central Iowa, and is not likely to be stored as a stable, established set in the interlocutors’ memory.

The mentioned studies on vague language and on the discourse functions of or explicitly recall the concept of ad hoc category and use it as a descriptive tool, useful to account for the distributional properties of specific strategies. Yet, none of them singles out the process of ad hoc category construction as the object of analysis. Furthermore, they all take into account
data from English, completely ignoring cross-linguistic variation – which, as will be argued in section 3.1, surprisingly shows that it is not all about general extenders (e.g. English and stuff), but some languages employ more synthetic strategies, such as specific non-exhaustive connectives (e.g. Japanese –yai, see section 3.1.4), dedicated plurals (e.g. similitative plurals, Daniel 2000, section 3.1.1), derivational affixes (see section 3.1.2) and special types of reduplication (discussed in section 3.1.3).

Before moving to some necessary methodological remarks, let us provide a clear definition of the process and the phenomena under exam. We define as construction of ad hoc category the process through which speakers construct categories for specific communicative goals along an exemplar-driven inferential path. We can describe the process as follows:

(3) i) speakers invite hearers to take one or more mentioned exemplars of the category as a starting point to make associative inferences,

ii) hearers adopt a context-based, similitative reasoning to infer further potential alternatives to the mentioned exemplars, resulting in the construction of a category comprising both the mentioned and the inferred exemplars;

iii) the category itself is more relevant in discourse than the mentioned exemplar(s).

The construction of ad hoc categories may be driven from exemplars of any kind, i.e. objects, properties, activities, situations. As will be argued in section 3.1.6, it is likely to identify formal correlations between the exemplar type (and as a consequence, the category type, i.e. an ad hoc category of objects, properties, activities of situations) and the degree of morphological integration of the linguistic strategy employed to convey the category.

The distinguishing property of ad hoc categories is the dependence on context for their construction and interpretation, which is not shared by common categories, whose denotation is stable enough to include a core of exemplars inferable without accessing to the speech situation. Given the centrality of context in the definition of the object of analysis, it is worth dwelling on the various respects under which the construction of ad hoc categories may be analyzed as being an intrinsically pragmatic phenomenon. First of all, it lies at the intersubjective discourse level, where the speaker guides the hearer in the interpretation of the mentioned exemplar(s) mainly as arrows to the category, rather than as bearing an independent (and discourse relevant) reference. To do this, the speaker uses overt, dedicated strategies, which are the object of our research and can be analyzed as bearing a clearly procedural value. Second, the associative inferences through which the category may be constructed are necessarily anchored in and dependent on the specific speech situation, including knowledge relative to the interlocutors, to the temporal and spatial conditions of the speech event, and to the shared background. The hearer has to have access to such contextual information in order to identify the correct similitative associations that lead to inferring further potential members of the category.

The pragmatic component is inserted into a more basic cognitive function, such as the ability, which is at the same time a necessity, to categorize the world, i.e. to consider jointly and aggregate into sets entities and situations that have something in common. Only, the reasons to collect explicit and implicit exemplars into the same set are not semantic in nature, nor connected to their frequent association in everyday life, but rather depend on highly specific and contextual goals.

In order to analyze how languages encode this function, we will take a cross-linguistic perspective, complemented by a glance into intra-linguistic variation as it is attested in corpus data. Cross-linguistic data constitute the core of the analysis, while the discourse perspective is, for the purpose of this paper, limited to the discussion of some relevant examples taken
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from Italian and English. The language sampling procedure aims to be compliant with current standards in typological research. Due to the highly discursive nature of the phenomenon, descriptive grammars will be integrated by a metalinguistic questionnaire for language experts, a context/translation questionnaire for educated native speakers, and wherever possible by the analysis of naturally occurring texts. At this preliminary stage, the study is based on a convenience sample consisting of 30 languages. Due to their heterogeneous nature, linguistic strategies encoding ad hoc categories are not generally addressed in specific chapters of grammatical descriptions. This limitation, however, does not prevent the cross-linguistic identification of the relevant phenomena: modern comprehensive grammars often contain a more or less large corpus of (mostly oral) texts, in which the relevant structures can be identified; moreover, the existing literature, though episodic, provides hints as to the areas of grammars that are most likely to provide means for encoding ad hoc categories (number, morphological processes such as reduplication, connectives, discourse particles, etc.). In the absence of significant data (but also in order to complement limited data sets) resort to language experts has been (and will be) essential to the aims of this research.

3. THE LINGUISTIC EXPRESSION OF AD HOC CATEGORIES

Being the internal structure of ad hoc categories based on typicality gradience (Barsalou 1983), the linguistic strategies expressing them often involve the explicit naming of one or more exemplars, that the addressee processes as pointers for conjuring up an ad hoc category (cf. also Ariel and Mauri 2014).

A preliminary cross-linguistic survey shows great variation in the types of strategies that may be used with this function. Constructions encoding ad hoc categories indeed range from more transparent discourse-level strategies such as English *or stuff like that*, to synthetic, less transparent means such as the Japanese non-exhaustive connective *-ya*, dedicated plurals (so-called associative and similative plurals, see Daniel 2000 and Moravcsik 2003), derivational affixes or special types of reduplication (e.g. Turkish *m*-reduplication). Morphosyntactic variation is the object of section 3.1 below. In section 3.2 it will be argued that some variation can also be observed in the role played by exemplars and in the degree of context dependence characterizing the process of ad hoc category construction.

3.1. A preliminary cross-linguistic survey

3.1.1 Special plurals

There are languages where the construction of ad hoc categories may be achieved through a morphological strategy that has been classified in the literature as being a special type of plural. Corbett (2000: 101-111) and Daniel (2000) name this special form *associative plural*, when it applies to animate referents, and *similative plural*, when it applies to inanimate referents. Great terminological variation can be observed in the (rather poor) literature: elliptical dual (Delbrück 1893: 137), approximative plural (Jespersen 1965: 192), *representativnaja množestvennost’* (representative plural). Daniel and Moravcsik (2005) argue that “associative plural constructions consist of a noun X (typically of human reference, usually a person's name or a kin term) and some other material, most often an affix, a clitic, or a word. The meaning of the construction is ‘X and other people associated with X’.”

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Associative plural constructions are identified by two semantic properties: referential heterogeneity and reference to groups.

Referential heterogeneity distinguishes between associative plurals and additive plurals. An example of additive plural is girls: it denotes a set where every member is a girl and therefore the set is argued to be referentially homogeneous (every referent of the plural is also a referent of the stem). An example of associative plural is Japanese Tanaka-tachi: it denotes a heterogeneous set, because it does not refer to more than one person named Tanaka, but rather to a group of people only one of whom is named Tanaka. According to Daniel e Moravcsik (2005), referential heterogeneity is a property that characterizes also the so-called similative plural (e.g. Telugu puligili ‘tigers and such’), which denotes “a class of objects sharing similar features, rather than a group of closely related associates”. The second semantic property characterizing associative plural is reference to groups, in that it denotes sets with a clear internal cohesion, which can be described as groups of individuals. Under this respect, associative and similative plurals are connected to collective plurals (see also section 3.1.2 on derivation), which are however usually referentially homogeneous.

From a morphosyntactic point of view, Daniel and Moravcsik (2005) analyzed as associative plurals dedicated affixes, clitics, determiners, plural markers and pronouns, connectives and constructions with plural verb forms. Such a formal variety questions whether the very label of ‘plural’ is appropriate and suggests that a re-examination of the constructions classified as associative plurals may ultimately lead to the identification of a larger class of strategies employed for ad hoc categories.³ Let us now provide some examples and then focus on the relation between associative plurals and ad hoc categories.

(4) Hungarian
   a. János-ék
      János-ASSOC
      ‘János and the others’
   b. János-ok
      János-PL
      ‘more than one person called János’

   ibe     ya-e-w yo, isu mbe nie mbe bawie
   market go-AOR-2SG if fish PL oil PL buy.IMP.2SG
   ‘if you go to the market, by fish, oil and other such things.’

In examples (4) and (5) we can see a case of associative plural and a case of similative plural, respectively. The suffix –ék in Hungarian may only follow animate nouns, preferably proper nouns, while the plural marker mbe in Dogon may follow inanimate objects. It has to be noticed that in (5), reference to ‘other such things’ is only conveyed through the repeated plural marker mbe and there is no analytic strategy comparable to the English one. In example (6) from Diu, the marker tud has the function of additive plural if it occurs before the noun it refers to (6a), while it has a similative plural value if it occurs in post-posed position (6b):

(6) Diu (Indo-Portuguese, Cardoso 2009)
   a. mĩ tud amig
      1SG.POSS PL friend

³ A re-examination of allegedly associative plural forms is planned in the LEAdhoC project.
‘my friends’

b. el t-iŋ vay nə ū jungle pu traz-e koys, aros tud
   3S IPFV-PST go.INF LOC one jungle PURP bring-INF thing rice SIML
   ‘He went to the jungle to bring certain things, rice and so on.’

Examples (5) and (6b) denote highly similar situations: in both cases there is a subject that reaches a place (market or jungle) where he can find a specific type of objects. In order to interpret the simulative plural construction, and thus to identify the type of objects the speaker has in mind, it is necessary to use the mentioned exemplars (fish and oil in (5), rice in (6b)) as starting points for an inferential reasoning based on similarity. The context allows for the identification of further potential alternatives to the mentioned items, and thus to the construction of a goal-derived, ad hoc category.

The construction of an ad hoc category may appear less straightforward in (4), given the presence of a proper name: how can we construct a category taking a proper name as the main exemplar? For associative plurals it is indeed the case that more than a heterogeneous category, we are constructing a set of referents including the exemplar (János) and other persons having in common some relationship with the exemplar. Yet, the type of relationship and the associative inferences leading to the correct identification of the set are completely context-dependent.

Interestingly, the role played by the exemplar in associative plurals is slightly different than in simulative plurals. In associative plurals the exemplar is the pivot of the set and can be also analyzed as a ‘property’ shared by all the other members (János is a member of the set, but also what all the others have in common: they may be János’ friends, relatives, colleagues, etc.: what the other members share is that they entertain the same relationship with János). Daniel and Moravcsik (2005) call it the focal referent, as opposed to the associates. In simulative plurals, on the other hand, the exemplar(s) (fish, oil and rice in the examples above) cannot be analyzed as a property shared by the other members, but simply as examples, that the speaker considers sufficiently relevant to allow for the abstraction of an ad hoc category. As we will see, a similar opposition is also attested in certain types of derivational strategies.

3.1.2 Derivational strategies

Some of the strategies attested to convey the process of ad hoc categories construction can be analyzed as derivational. Let us start by looking at example (7) from Kuuk Thaayorre. As argued by Gaby (2006), “speakers may add the suffix =yuk ‘STUFF’ to a noun in order to speak in general terms about a ‘kind of thing’, or to generalise their reference to include things normally associated with the denotatum of the noun in question, or to indicate reference to type rather than token (i.e. ‘not a specific bull’ in (7d), and ‘not a particular dance’ in (7e)):

(7) Kuuk Thaayorre (Australian, Pama-Nyungan)
   a. minh ulp ngancnhan reeka-rr, ngat=yuk reeka-rr
      meat(ACC) DEM:ADR.PRX 1sg:EXCL give-PL.PF fish(ACC)=STUFF give-PL.PF
      ngancnhan
      1sg:excl
      ‘[they] gave us some meat and fish or whatever’
   b. kuta=yuk yuuw yat
      dog(NOM)=STUFF far go:PL.PF
‘there were no people, even the dogs not there’ (lit. ‘dogs and stuff had gone off’)

c. *pormp=-yuk* koop thiik-nhan
   house(ACC)=STUFF all break-GO&:NPST
   ‘all the houses and things will be broken [in a cyclone]’

d. *bull=-yuk* thaangk-m peln
   bull(ACC)=STUFF climb-PL.IPV 3PL(NOM)
   ‘they would ride bulls [in the rodeo]’

e. *ngancn wuuc=-yuk* thowol-nam ulp nhangun
   1sg(NOM) dance=STUFF perform-PL.PF DEM:ADR 3sgDAT
   Jesus-ak
   Jesus-DAT
   ‘We were doing those dances for Jesus [at Christmas]’

Let us take a look at the diachrony of this morpheme. Etymologically, =*yuk* is derived from the generic noun *yuk* (Gaby 2006: 642), which denotes the class of trees and stick-like objects (e.g. cigarettes), but also a somewhat eclectic collection of (typically elongated) ‘things’ (including cyclones, planes, microphones, etc.). It has an intrinsically classificatory value, which may be the feature that favored its reinterpretation as a type/category marker, since the very notion of type and category is connected to the ability to classify.

A slightly different derivational strategy is attested in Italian, where the affix –*ame* may be attached to a variety of roots (inanimate, animate, see Poletto and Penello 2005, and even proper nouns, see examples (8) and (9) below) to derive collective nouns. When it follows proper nouns, the meaning of the collective is very close to that of associative plurals discussed above. Let us see some examples.\(^4\)

(8) \(^a\) Dire che la Boldrini è uguale a Mastella, al figlio di Bossi o al **berlusconame** è una violenza ideologica che non porta da nessuna parte
   ‘to say that Boldrini is the same as Mastella, as Bossi’s son or as ALL THOSE PERSONS HAVING TO DO WITH BERLUSCONI (INCLUDED BERLUSCONI HIMSELF) / BERLUSCONI & CO. is an ideological violence that does not lead anywhere’
   (http://forum.gamberorosso.it/viewtopic.php?f=6&t=155954&start=100)

\(^b\) [penso] che la principale esigenza del paese sia in questo momento liberarsi politicamente di berlusconi e sradicare il **berlusconame** dalla società
   ‘[I think] that the most important need for the country in this moment is to get rid of Berlusconi at the political level and to eradicate THE WAY OF ACTING AND THINKING THAT BERLUSCONI INTRODUCED from the society’
   (http://forum.bbfc.it/index.php?topic=4465.35;wap2)

(9) *Io non sarei d'accordo, loro, il **grillame**, invece dovrebbero esserne molto felici: quando parlano dicono solo stupidaggini o cose insensate.*
   ‘I wouldn’t agree, while they, GRILLO & CO., should be very happy about it: when they speak they always say stupid things or nonsense.’

(10) *Io non ero abituata a tutto quel **bambiname**, e soprattutto non conoscevo nessun gioco*

\(^4\) Examples (8), (9) and (10) do not have glosses, because glosses are not relevant for the discussion, centered around the interpretation of the derived forms.
‘I was not used to all those CHILDREN AND SO ON (ALL THE THINGS CONNECTED TO CHILDREN), and above all I didn’t know any games’ (R. Calabrò Di matrigna ce n’è una sola)

In example (8), the derived noun berluscon-ame refers to two distinct types of sets. In (8a) it behaves as a collective noun denoting the set of ‘people having to do with Berlusconi’, functioning in a similar way as associative plurals. In (8b), instead, the collective noun denotes a heterogeneous set comprising persons, situations, attitudes that share Berlusconi as a common denominator. We could paraphrase (8b) as ‘Berlusconi and everything that goes with it’, meaning to include also parties, luxury dinners, corruption, a specific way of talking to people in TV, etc. In the two cases at issue, the noun Berlusconi plays two different roles: in (8a) it is what Daniel and Moravcsik (2005) called the focal referent for associative plurals, and the category it allows to construct is restricted to animate members; in (8b) Berlusconi has to be taken as an exemplar of a heterogeneous category including persons, situations and attitudes, but also as a property shared by all members of the set. In both cases, knowledge concerning Italian politics and access to the Italian context is required in order to identify the simulative relations to infer, in order to correctly abstract the category.

Example (9) is similar to example (8a), in that B. Grillo, the leader of a political movement called Movimento Cinque Stelle, receives the suffix –ame in order to derive a collective noun meaning ‘Grillo & co.’, ‘Grillo and associates’, just like an associative plural. Example (10) shows instead a different case, where the root denotes an animate entity (‘children’) but not a proper noun. In this example bambiname is a collective noun means ‘children and so on’, referring to an ad hoc category including children, what children usually do, laughing, screaming, playing, generating disorder etc. In other words, it denotes a heterogeneous set of persons and situations having to do with children, whereby the specific types of associative inferences allowed are determined by the context.

The derivational strategy with –ame may have a pejorative reading, as in (8) and (9), but may also be neutral, as in (10). It may also apply to inanimate entities, as in scatolame ‘set of boxes of various types’, or legname ‘set of pieces of wood of various dimensions’. It shows many parallels to associative and similative plurals, especially as far as the role played by the named exemplar is concerned.

3.1.3 Reduplication

A number of languages employ so-called echo word formation to construct ad hoc categories. It is a special type of reduplication in which the reduplicated segment does not completely coincide with the original word or phrase. Let us see an example from Turkish, where m-reduplication is commonly employed to generalize the concept denoted by a specific word or phrase in order to include similar objects, events or states of affairs. It is attested especially in colloquial Turkish. It may applied to animate, inanimate (11a) and proper nouns (11b), but also to phrases (11c):⁵

(11) Turkish (Göksel and Kerslake 2005: 91-92)
   a. Eve çat kapı bir alıcı geldi, odaları modaları dolaştı.
      ‘Today a potential buyer came without notification, and looked at the ROOMS, ETC.’
   b. Soner’i moneri görmedim.
      ‘I didn’t see SONER OR OTHERS.’

⁵ Again, examples in (11) do not have glosses, because they were not available in the source.
'I don’t care if he is a HISTORY TEACHER OR ANYTHING ELSE. I know more about French history than him.'

A similar construction is attested in Tamil and Hindi, where “the semantics of ‘echo reduplication’ involves a notion of generality or at least indefiniteness” (Keane 2005: 241). As can be observed in example (12), a category of possible nonsense utterances has to be construed in order to understand the speaker’s aim. However, in order to imagine potential alternatives, the hearer has to have access to the context and to some shared background on what could be a possible lie in that specific situation.

(12) Tamil (Dravidian)
\[kumarukku kuțutteen-ηηu kimuarukku kuțutteen-ηηu poi kollaatee\]
Kumar.DAT give.PST.1SG-QUOT echo lie say.NEG.IMP
‘Don’t lie that you gave it to Kumar OR SOME SUCH NONSENSE.’

According to Keane (2005: 240), reduplication is a common strategy to convey ad hoc categories in South East Asian languages. In Hindi (Indo-Aryan), for instance, from aam ‘mango’ it is possible to derive aam vaam to denote ‘mango and similar fruit’. In Kannada from kannu ‘eye’ it is possible to derive kannu ginnu ‘eyes and so on’.

Let us now examine the case of Lao (Tai-Kadai, Kam-Tai). According to Enfield (2007: 306), “echo formation typically involves four syllables […] The idea is to take a V-N sequence and repeat it, substituting the N in the repeated phrase with something semantically related (usually, a synonym or antonym). The result is that the first and third syllables are the same verb, and the second and fourth syllables are semantically related nouns.” Example (13) is a simple statement in which we take the song5 ‘trousers’ to refer to nothing other than its conventional referent, ‘trousers’. The semantic effect of the echo formative in (14) is to put song5 ‘trousers’ together with sùa4 ‘shirt’, broadening the reference of both expressions, beyond the literal conjunctive reading ‘trousers and shirts’ and to a generalized notion of ‘clothes’, i.e., things of the kind that trousers and shirts are prototypical examples.

(13) \[man2 pajo sùù4 song5\]
3.B DIR.ABL buy trousers
‘He (went and) bought trousers.’

(14) \[man2 pajo sùù4 song5 sùù4 sùa4\]
3.B DIR.ABL buy trousers buy shirt
‘He (went and) bought CLOTHES (lit. TROUSERS AND SHIRT AND SO ON).’

There is also a generic, probably default echo-formative strategy, in which the complement element of the repeated phrase is replaced by the indefinite inanimate pronoun ñang3 meaning ‘something, what, whatever’. For example, example (14) above might be expressed as follows:

(15) \[man2 pajo sùù4 song5 sùù4 ñang3\]
3.B DIR.ABL buy trousers buy INDEF.INAN
‘He (went and) bought TROUSERS AND SO FORTH.’
3.1.4 Connectives

Another strategy that is attested across languages to convey ad hoc categories is what can be safely labeled *non-exhaustive connectives*. Haspelmath (2007: 24) briefly mentions this type of connectives and calls them ‘representative conjunction’. According to him, “in this construction, the conjuncts are taken as representative examples of a potentially larger class”. Stassen (2000: 5) calls them ‘enumerative coordinators’, while the label ‘non-exhaustive’ is well established in the literature on East Asian languages (Chino 2001, Zhang 2008). What distinguishes these connectives is the restriction to occur only in open-ended lists, i.e. non-exhaustive sets. In (16a) an example from Koasati shows the use of the non-exhaustive connective -ó:t to construct the ad hoc category ‘humid places’, starting from the two exemplars ‘rivers’ and ‘swamps’:

(16) Koasati (Muskogean, Haspelmath 2007: 24)

a. akkámmi-t ow-i:sá-hci hahci-f-ó:t oktaspi-f-ó:t kámmi-fa
   be.so-CONN LOC-dwells.PL-PROG river-in-EX swamp-in-EX be.so-in
   ‘So they live in rivers and in swamps AND IN SUCHLIKE PLACES.’

b. [asá:l-o:t] talibo:li-t sco:pa-t
   basket-EX make-CONN sell-CONN
   ‘She made and sold THINGS LIKE baskets.’

In (16b) the same connective occurs after the first and only overt exemplar ‘basket’. One may wonder where lies the difference between such a one-slot connective construction and the simulative plural in (6b) or the derivational strategy in (7c). Actually, the difference is not functional, and even structurally we observe a comparable [exemplar-MARKER] scheme. Actually, the difference lies in the synchronic distributional properties of the marker, which lead the authors of the grammars to classify them as plural affixes, derivational markers or connectives, respectively. It does not come as a surprise, indeed, that a closer look at data shows frequent diachronic links between the different types of strategies. Let us see the case of Hakha Lai in (17):

(17) Hakha Lai (Sino-Tibetan, Kuki-Chin)

a. làwthlawpaa=ni’ vok-teè-pool ‘a-tsook
   farmer=ERG pig-COLL 3SG.SBJ-buy2
   ‘The farmer bought pigs AND SUCH (e.g. other domesticated animals).’

b. làwthlawpaa=ni’ vok-teè ‘aàr-tee tsoo-tee ‘a-tsook-hnaa
   farmer=ERG pig-COLL chicken-COLL cow-COLL 3SG.SBJ-buy2-PL.OBJ
   ‘The farmer bought pigs, chicken, cows AND SUCH (e.g. other domesticated animals).’

As argued by Peterson and VanBik (2004: 351), the nominal suffixes - teè and –pool are used in constructions having the semantics of what Haspelmath (2004) calls ‘representative conjunction’. However, their value is not clear (due to law text frequency) and they should probably be analyzed as collective markers. More examples on the diachronic connection between the various types of constructions are provided in section 3.1.5.
Example (18) provides an instance of the correlative coordinators -a...-a in Mandarin Chinese, which can only be used in non-exhaustive lists, as seen in (18a) and (18b). “If the conjuncts do not form an open set, as in (18c), the coordinators may not be used” (Zhang 2008: 137).

(18) Mandarin Chinese
   a. Shu-a, baozhi-a, bai-man-le zhengge shujia.
      ‘Books and newspapers, AMONG OTHER THINGS, occupied the whole bookshelf.’
   b. Tamen tiao-a chang-a, huanqing shengli.
      they dance-and sing-and celebrate victory
      ‘They sang, danced, AMONG OTHER ACTIVITIES, to celebrate the victory.’
   c. Yin-(*a) yang-(*a) duili.
      yin-and yang-and opposite
      ‘Yin and yang are opposites.’

Japanese has an extremely rich system of non-exhaustive connectives (Chino 2001, Tanimori 1994: 121-122, 265). Ya in (19) implies that the linked items are examples taken from a larger group of items. By contrast, to implies that the items stated are the only ones under consideration. Ya is often combined with nado (“and such”, see below) reinforcing its basic meaning, and can only be used at the nominal level. With verbs the suffix -tari is attested, as exemplified in (20). Again, as we observed for Koasati, -tari may also be attested after a single exemplar, as in (20b).

    I DET room in TOP computer and stereo SBJ place-SUSP be-POL.NPST
    ‘In my room there is a computer, a stereo AND OTHER SIMILAR THINGS.’ (Chino 2001: 41)

   a. Nichiyōbi wa taitei tomodachi to tenisu [o shi-tari eiga o mi ni it-tari]
      Sunday TOP usually friend with tennis OBJ do-and film OBJ see to go-and
      shimasu
      do.POL.NPST
      ‘On Sundays I usually do SUCH THINGS AS play tennis with my friends or go to see movies.’
   b. Tenki no warui hi ni wa, ie de [ ongaku o kii-tari]
      weather DET bad-NPST day on TOP home at music OBJ listen-and
      shimasu.
      do.POL.NPST
      ‘On days when the weather is bad I listen to music and do OTHER SUCH THINGS at home.’

Recently, also Italian developed a non-exhaustive connective, which is still restricted to the colloquial variety, namely piuttosto che (cf. Bazzanella and Cristofoli 1998, Brucale 2012, Mauri and Giacalone 2011). This originally preferential construction (meaning ‘rather than’) is nowadays attested both with its source value and with a disjunctive ‘or’ meaning. However, with the latter it can only be used when the speaker’s aim is to name some potential
Exemplars of a non-exhaustive list, as in (21) and (22), in order to construct (or imply) an ad hoc category (‘customizations you may wish to have’ in (21), ‘pills to lose weight’ in (22)). Disjunctive *piuttosto che* cannot occur in alternative questions aimed at a choice, which by definition imply an exhaustive list of alternatives.

(21) [parlando di desktop] c’e’ il vantaggio che ti puoi customizzare la macchina come vuoi, in relazione alle tue esigenze (grafica, *piuttosto che* sviluppo, *piuttosto che* giochi...) development piuttosto che games

‘[talking about desktop] there is the advantage that you may customize the machine (pc) as you prefer, depending on your needs (graphics, development, videogames OR SIMILAR THINGS...’

(22) [talking about diets] ti dico la verità io sono contraria a pastiglie in generale ex. kalo *piuttosto che*... però forse perché non le ho mai provate ex kalo piuttosto che but maybe because NEG CLIT have.1SG never tried

‘I’ll tell you the truth I am against pills in general, ex. kalo OR STUFF LIKE THAT... but maybe it’s because I’ve never tried them’ (discussion in a forum: http://forum.alfemminile.com/forum/fitness1/__f1443_fitness1-Messaggio-a-bionda-73.html)

Non-exhaustive connectives appear as a frequent, though little studied, strategy to construct ad hoc categories in discourse. The notion of non-exhaustivity indeed implies reference to potential further members of a given set, in addition to the ones explicitly mentioned. It thus implies abstraction over the explicit members through a context-determined similarity reasoning, leading to the construction of an ad hoc category.

3.1.5 General extenders

When speakers compose non-exhaustive lists, they frequently recur to so-called general extenders, especially when no dedicated connective (of the type described in the previous section) is attested in their language. There is great terminological variation when referring to this construction type and true cross-linguistic perspective is lacking (with English and French holding a monopoly in the literature): Dubois (1993) calls them *extension particles*, Dines (1980) *set marking tags*, Aijmer (1985) *utterance-final tags*, Channel (1994) *vague category identifiers*, Overstreet (1999) *general extenders*. The latter is the most widespread label.

Overstreet (1999: 3) calls these expressions “[…] ‘general’ because they are non-specific, and ‘extenders’ because they extend otherwise grammatically complete utterances”. According to her, “the general extender has been treated as a form that indicates additional members of a list, set, or category. The general assumption has been that these expressions combine with a named exemplar (or exemplars), […], some non-specific form of reference” (1999: 11; cf. also Channel 1994, who calls such constructions *vague category identifiers*, distinguishing them from approximators ‘kind of, sort of...etc.’).

Most constructions analyzed in the literature are analytic, with a structure like the
following: [connective + proform (+ similarity)], as shown in Table 1. Analytic general extenders are transparent with respect to the operations underlying their function, which consists of linking exemplars of a category (through connectives, e.g. and, or) and referring to further potential members (through preforms, e.g. something, stuff, what...), which are associated to the one(s) mentioned explicitly by virtue of some context-dependent similarity (frequently denoted by similarity markers, e.g. of the like, similar, so...).

<table>
<thead>
<tr>
<th>Conjunctive general extenders</th>
<th>Disjunctive general extenders</th>
</tr>
</thead>
<tbody>
<tr>
<td>and stuff (like that)</td>
<td>or something (like that)</td>
</tr>
<tr>
<td>and all (that)</td>
<td>or anything (like that)</td>
</tr>
<tr>
<td>and everything (like that)</td>
<td>or what</td>
</tr>
<tr>
<td>and blah blah blah</td>
<td>or whatever</td>
</tr>
<tr>
<td>and that</td>
<td>or what have you</td>
</tr>
<tr>
<td>and the like</td>
<td>or anyone (like that)</td>
</tr>
<tr>
<td>and such</td>
<td>or somebody (like that)</td>
</tr>
<tr>
<td>and so on</td>
<td>or someplace (like that)</td>
</tr>
<tr>
<td>and so forth</td>
<td>or somewhere (like that)</td>
</tr>
</tbody>
</table>

Table 1: Conjunctive and disjunctive general extenders in English (Overstreet 1999: 4, adapted).

A cross-linguistic perspective as the one adopted here, however, shows that general extenders may also be synthetic strategies. Example (23) from Hausa shows the morpheme kàzà, that Jaggar (2001: 356) analyses as a “non-specific pro-form used to express similarity, substituting for an implied noun or hypernym with a similar meaning to preceding nouns”, attested only for inanimate nouns. Kàzà is analyzed as a post-head modifier with a non-specific ‘such-and-such’ value (23a). The construction dà + kàzà in (23b) thus consists of the additive connective dà ‘and’ followed by the non-specific pro-form kàzà:  

(23) Hausa (Jaggar 2001: 356)

a. zà tà tàfì jàmi‘à kàzà  
   ‘she’s going to SUCH AND SUCH a university’

b. yà jë Kanò, dà Zàriyà, dà Kàdùna, dà kàzù dà kàzà  
   ‘he went to Kano, Zaria, Kaduna, AND SO ON AND SO FORTH.’

Synthetic general extenders may derive from originally analytic strategies: etcetera is the result of a univerbation process from Latin et cetera ‘and the remaining (similar) things’. A similar expression is found in Dutch, where enzovoorts derives from en zo voorts (cf. Eng. and so forth).

Crucially, general extenders need not occur in a true list, but may follow a single exemplar, just like one-slot connectives in (20b) and (22), or the already discussed cases of special plurals and derivational strategies, which by definition do not involve any list. From a purely structural point of view, in all these cases we are faced with one exemplar and some dedicated marker encoding reference to further, similar elements, generating a process of abstraction leading to the relevant ad hoc category. As already mentioned, in some cases it is possible to identify some diachronic link between the strategies described.

First, non-exhaustive connectives that allow for a one-slot construction (such as piuttosto che in Italian or –tari in Japanese) may be analyzed as connectives that reached a more advanced stage of pragmaticalization, developing the function of general extenders.

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For example (23) glosses are not provided in the source.
Another frequent diachronic source for synthetic general extenders are interrogative or other indefinite pronouns, meaning ‘what, whatever’. In (24) two examples from Galo are provided, where joò ‘what’ (24a) first developed a ‘whatever’ value and then what Post (2007: 344-346) analyzes as “universal pro-form ‘etcetera; and all that sort of thing; and so on'” (24b):

(24) Galo (Tibeto-Burman, Western Tani, Post 2007: 344-346)

a. əәrap=əәm agùm akə=əә akə=əә bare
    door=ACC exterior DST.ABL.SLEV=TOP who CJEC
    niî=əә com jöo=əә com ciî-na'
    person=COP.IPV GUES what=COP.IPV GUES slap-MOVE.1
cii-bó-kâa
    slap-MOVE.2-PF
    ‘Someone...who could it be? Is it a person OR WHAT?...knocked on the door.’ (Post 2007: 45)

b. hottûm-hora' ri-kû-nam ri-nam=əәm dó-pàk-là(a)
    bear-boar do-CMPL-NZR:RLS do-NZR:OBJ=ACC eat-RID-NF
    jöo-là(a) and.so.on-NF
    ‘All that we in the end produced was eaten up AND ALL by wild animals.’ (Post 2007: 345)

A similar path is attested in Mandarin Chinese, where the interrogative pronoun shenme ‘what’ “is grammaticalized as an indefinite pronoun and indefinite adjective meaning ‘and so on, etcetera, or something’” Hsieh (1997: 108):

(25) Mandarin Chinese (Sino-Tibetan, Chinese)

ranhou bir u shuo wo gei ta de you yixie huikuei huo-shi-shuo ah ta bushi buhui saijau ah shenme shenme de
    ‘Then, for instance, I gave her some feedback that she can't... she doesn't know how to show femininity, WHAT AND WHAT (= AND OTHER SUCH THINGS).’

An interesting diachronic path can be observed in the development of Modern Japanese general extender nado ‘etcetera, and so on’. Synchronically, it is an independent morpheme occurring at the end of non-exhaustive lists. This form, however, was attested in Classical Japanese as –nado (see example (26) below) and had the function of a simulative plural (representative plural, Vovin 2003:40), opposed to the additive plural form –domo. As can be observed in (26b), the locative suffix has scope over the simulative plural, and thus over the potential referents of the ad hoc category. In the history of the Japanese system, we are then faced with a path going from morphology to lexicon, from grammar to pragmatics, along what has been called deggrammaticalization (Ramat 1992): a bound morpheme that was part of the number paradigm (C. Japanese -nado) has become an independent, non obligatory morpheme characterized by syntactic flexibility and pragmatic function (M. Japanese nado).

(26) Classical Japanese (Vovin 2003: 40)

a. wabi-uta-nado kak-ite
    grieve-song-REPR write-SUB

7 For example (25) glosses are missing in the source.
“He wrote grieving songs AMONG OTHER THINGS”
b. *tani-no soko-nado-ni fa*
valley-GEN bottom-REPR-LOC TOP
“at the bottom of valleys AND OTHER PLACES LIKE THAT”

3.1.6 A preliminary assessment: sets and categories

The preliminary cross-linguistic survey described in the previous sections reveals on the one hand some degree of variation, but on the other hand it can be described on the basis of a restricted number of recurring features, both at the formal and at the semantic level. As already pointed out, the language sample will be expanded and the results achieved so far are to be treated as intermediate, if not initial findings, whose main purpose is to unveil the complexity underlying the linguistic expression of ad hoc categories. The preliminary assessment described below has therefore a heuristic value.

At the structural level, the strategies attested to convey the process of ad hoc category construction can be located along a continuum, based on the degree of morphological integration with the mentioned exemplar(s). As can be observed in Table 2, at the left-hand side of the continuum we find inflectional morphemes, such as associative, simulative and collective plurals (discussed in section 3.1.1), characterized by a high degree of morphological integration with the root to which they apply. Moving towards the right-hand side of the continuum, we encounter derivational strategies (mainly deriving collective nouns) and echo-word formation, which share with inflectional markers a certain degree of morphological integration with the exemplar, but crucially pertain to the processes of word formation, and as such do not belong to obligatory paradigms (see sections 3.1.2 and 3.1.3 for examples). Typically, inflectional and derivational constructions take only one exemplar as the starting point for the construction of an ad hoc category. Furthermore, inflectional and derivational strategies appear to correlate with ad hoc categories denoting sets of entities (be they animate or inanimate), rather than categories of activities and situations, and this is probably due to their being inherently nominal strategies. Categories of activities and situations may instead be constructed with the strategies characterized by the lowest degree of morphological integration, at the right-hand side of the continuum. Here we find non-exhaustive connectives and general extenders (discussed in section 3.1.4 and 3.1.5), which are syntactic in nature and usually occur within lists, operating at the discourse level. The members of the ad hoc category may in these cases be entities as well as activities or states of affairs (cf. (24b) and (25) among others, see also the restriction of Japanese –tari to verbs).

<table>
<thead>
<tr>
<th>High morphological integration</th>
<th>&lt;----------------------------------------------------------------------------------&gt;</th>
<th>Low morphological integration</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL INFLECTION (E.G. SPECIAL PLURALS)</td>
<td>DERIVATIONAL STRATEGIES</td>
<td>ECHO-WORD FORMATION / REDUPLICATION</td>
</tr>
<tr>
<td>Inflectional</td>
<td>CONNECTIVES, GENERAL EXTENDERS (LISTS)</td>
<td>Syntactic</td>
</tr>
</tbody>
</table>

Table 2. Inflectional-to-syntactic continuum of the strategies expressing ad hoc categories.

This continuum is not meant to be a semantic map (cf. Haspalmath 2003), although it is likely that, once more data are available, a representation in terms of functional contiguity may
fruitfully describe the synchronic and diachronic patterns of multifunctionality of the strategies at issue. For example, there is some evidence for recurrent diachronic patterns deriving general extenders from dedicated plurals and non-exhaustive connectives. Yet, more research is needed to draw a semantic map and, as the language sample grows, it is likely that more strategy types will be included in the study. For now, it suffices to point out the fact that the cognitive and communicative process under exam is expressed through the mobilization of strategies at different levels (inflectional paradigms, word formation and syntax) and with different degrees of obligatoriness and morphological integration with the mentioned exemplar.

At the functional level, we may observe that the strategies encoding the construction of ad hoc categories are synchronically and diachronically connected to a number of functions involved in the creation of (mainly heterogeneous) sets. The notion of plurality is a prerequisite for the construction of any set, except for one-member sets, which are however marginal cases. Word formation strategies are typically linked to the necessity to create new labels for sets/types of entities, properties of activities, which are perceived as salient enough to require specific words to name them. Connectives encode and realize the connection between entities, and the consequence of such connections is construction of sets, whatever the specific relation between the members may be. In particular, non-exhaustive connectives, in addition to establishing relations, also encode a specific property of the set, namely its openness. Finally, general extenders typically occur at the end of lists to contribute to the (non-)delimitation of the set, encoding its open-ended nature and referring to further potential members beyond the ones explicitly mentioned.

The connection between the construction of ad hoc categories and notions involved in the creation of sets (such as plurality, connections between entities, (non-)exhaustivity) is not surprising, since a category IS a set. Only, ad hoc categories are sets whose members are not identified on the basis of natural or frequently occurring associations as in common categories, but rather on the basis of specific communicative goals. As a consequence, the ad hoc set frequently (though not necessarily) comprises heterogeneous members (cf. berlusconame in example (8b), which includes persons, attitudes, situations, etc.) and is typically open-ended, i.e. open to enrichments by the hearer.

In the next section we will briefly address the semantic and functional diversity characterizing ad hoc categories, making some remarks concerning the role of context and exemplars in the construction of the category.

3.2 Ad hoc categories in discourse: the role of context and the role of exemplars

The evaluation of the discourse relevance and discourse phenomenology of ad hoc categories allows to identify different ways in which ad hoc categories may be built in discourse, the function of the conversational move of creating an ad hoc category in various discourse situations, as well as the pragmatic mechanisms underlying such a move, both in terms of the speaker-hearer relationship and in terms of topic management. For the purpose of this paper, we will only briefly take into account two aspects concerned with the use of ad hoc categories in discourse: i) the degree of context dependence and the role played by the overt exemplar(s) in the construction of the ad hoc category, and ii) the possible motivations underlying the choice of an ad hoc category strategy in discourse. As already argued for cross-linguistic data, also in this case the discussion is not meant to be exhaustive nor complete, but only aims to provide a preliminary picture of the relevant questions to be addressed in future research.

First of all, we may observe that the degree of context-dependence may vary in the construction of ad hoc categories. For instance, building the category "things I usually do on
Sundays” through a non-exhaustive list ‘jogging, going to museums and things like that’ is highly context-dependent and could not be constructed without reference to shared knowledge regarding the speaker (it’s hard to determine what other members belong to the set without knowing me). On the other hand, constructing the category ‘people and situations revolving around Berlusconi’ through a derivational process like berlusconame (see example (8) above) does not require access to the specific speech situation, but more to a general cultural knowledge of Italian politics. Such a difference in the role played by context (and by the specific type of context necessary for the category to be constructed) tends to correlate with a difference in the strategy type. Especially in ad hoc categories conveyed through derivational strategies, the type of context that has to be accessed in order to construct the category tends to be broader and in some way less anchored to the specific speech situation. On the other hand, other strategies - lying more at the discourse level than at the lexical one - appear to be more flexible and allow for the construction of categories whose interpretation is heavily dependent on a specific knowledge of the interlocutors and of the speech situation (cf. examples (23b) and (25)).

Second, we observe some variation also in the role played by the mentioned exemplar in the construction of the category. In derivational strategies such as berlusconame, but also in some associative plurals (see for instance example (4)), the exemplar has to be interpreted as both a member of the category and a property that all the other potential members must share. This feature appears to be present when the exemplar is human, and even more systematically when it is a proper noun. In other words, in such cases the exemplar is the pivot of the set and is what the other members have in common: in the associative plural described in example (4), in addition to János, the category includes other members that entertain the same relationship with the pivot (János’ friends, relatives, colleagues, etc.). In grillame (example (9)) the category comprises Grillo (a political leader) and all the persons revolving around him: supporters and colleagues, basically. Crucially, in these cases there is just one named exemplar/pivot of the set. In those cases where the exemplar(s) denote non-human animate or inanimate referents, instead, they cannot be analyzed as a property shared by the other members, but simply as pointers to the category, i.e. as salient examples that the speaker considers sufficiently relevant to allow for the ad hoc abstraction.

Third, ad hoc categories may be constructed with different functions in discourse. For instance, there are cases where a ready-made linguistic label is available in the language, but speakers choose not to use it and rather to construct the category as ad hoc, in order to stress its context-dependence. Consider example (27) from Japanese:

(27) Japanese (Kuno 1973: 115)

[Biiru-ya sake-o] takusan nomimashita.
beer-and sake-ACC lots drank
‘[I] drank lots of beer and sake (AND STUFF LIKE THAT)’

In (27), the speaker uses the non-exhaustive connective -ya to link ‘beer' and 'sake'. By using this connective, the speaker implies that the list is not restricted to the mentioned exemplars, and makes reference to a more or less abstract category ‘alcoholic drinks that I could order at the restaurant’, that the addressee can construct based on the two mentioned exemplars. If the speaker wanted to refer only to ‘beer and sake’, she should have used the exhaustive connective -to instead of -ya (see section 3.1.4). Why does the speaker use a non-exhaustive list instead of using the label 'alcoholic drinks'? Because reference is made not to the common category, but to the particular set of alcoholic drinks that the speaker could have drank at the restaurant, thus requiring access to context and to the speaker's habits (e.g. never drinking
vodka). The category is thus constructed as ad hoc in order to anchor its interpretation to the specific speech situation.

As argued by Ariel and Mauri (2014, on the creation of higher-level categories through or), the choice to construct an ad hoc category instead of using common categories (when they are available) may be due to a necessity to narrow down the abstract concept and tailor it to the specific context. For example, Ariel and Mauri provide the following explanation for example (28). *Position* is a rather general concept, which may imply reference to money, to stability, to power, etc. Montoyo's mentioning of two exemplars of the category in (28) helps us not just to arrive at the ad hoc construction of the correct set, but it also narrows it down to something like 'power and authority over people'.

(28) **MONTOYO:** ... If I am,  
... for example,  
... the president (H) .. of .. a major labor union,  
.. or a major corporation.  
... the position,  
.. (H) as president of that entity,  
... gives me so much power. (SBC: 012)

In other words, ad hoc categories may not only satisfy a speaker or a hearer's need in abstracting over exemplars, but they may also help in the ever-necessary process of adjusting the linguistically expressed concept to the specific context (cf. lexical pragmatics, Wilson & Carston 2007, Carston 2010).

4. CONCLUSIVE REMARKS

The object of this paper is the linguistic reflections of a basic, prevalent cognitive process, namely the construction of ad hoc categories. After a definition of ad hoc category in purely cognitive and functional terms, the cross-linguistic variation observed in a preliminary typological survey based on 30 languages has been discussed and exemplified, revealing a great degree of formal and functional variation. However exploratory it may be, this is the first systematic account of the linguistic expression of ad hoc categories. It constitutes the first step of a wider project in which the typological perspective is planned to be complemented by a diachronic and a discourse analysis (LEAdhoC project, see footnote 1). A comprehensive picture of how languages encode (and speakers use) ad hoc categories may have a strong impact on the disciplines involved in the modeling of human conceptual processing, providing them with a theory on the role played by verbal communication in the construction and use of non-stable categories. More generally, the analysis of how ad hoc categorization is expressed and used across languages may lead to important anthropological considerations: a typological perspective indeed naturally tackles the question whether there is something universal in categorization processes or whether, and to what degree, the construction and communication of categories is affected by specific and local cultural and linguistic factors.

**ABBREVIATIONS**

| ABL = ablative | EX = exemplary conjunction | POL = polite |
| ACC = accusative | EXCL = exclusive | PROG = progressive |
| AOR = aorist | GUES = guess | PRX = proximal |
| ASSOC = associative plural marker | HON = honorific | PST = past |
REFERENCES

Aijmer, K. (1985) "What Happens at the End of Our Utterances?— The Use of Utterance-Final Tags Introduced by 'and' and 'or.'" Papers from the 8th Scandinavian Conference of Linguistics, Copenhagen, Institut for Philologie, Kopenhaven University, 366-389.
Ariel, M. & C. Mauri (2014) “To include or to exclude: Or, is that the question?” Submitted.


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