Names, Light Nouns, and Countability

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It is a standard assumption that proper names for entities of different types have the very same semantics, denoting well-individuated entities and thus classify as count nouns. It has moreover become a standard view in philosophy of language that names are rigid designators standing for the same entities in different circumstances in virtue of the causal-historical change to which they belong on a given use. A view that is less standard, argued for by philosophers such as Geach (1957) and Dummett (1973), is that names involve a sortal, as a requirement for a speaker to be able to use them to refer to an entity. This paper presents syntactic evidence from German for the presence of sortals in names, and argues that different types of names may involve sortals of different kinds and in different ways.

One manifestation of that is a surprising division into mass and count among names in German. Names for places as well as what I will call ‘productive names’ for times, numbers, and expression types in German show diagnostics for mass rather than count (diagnostics not available in English). Making use of Kayne’s (2005, 2010) silent-noun theory, the paper will argue that this is due to the silent presence of mass light nouns in such names, in particular THING, PLACE, and TIME. THING, PLACE, and TIME also behave as mass nouns when they are overt or silent parts of light quantificational or pronominal NPs in German or English, for example everything or its German counterpart alles. By contrast, the light noun PERSON classifies as count, being a silent part of names for people and an overt or silent part of light quantificational or pronominal NPs such as everybody (or German jeder) and many. The classification of German names as count when they contain the silent noun HOUSE further supports a mass-count distinction among light nouns.

Names for people and places as well as productive names for times, numbers, and expression types are to be distinguished as type 1 names (as I will call them) from type 2 names such as the Hudson River or the Parthenon. Type 2 names, which in German include names for mountains, lakes, temples, and famous stones, do not involve a light noun. Rather, they come with a more specific overt or silent sortal and the definite determiner and as a consequence classify as count.
In addition to arguing for the involvement of light nouns in names, the paper will shed new light on light quantifiers such as *something* and *everything*, which play a significant role in philosophically relevant contexts.

The paper will first establish a range of generalizations about light nouns as part of quantificational and pronominal NPs in English and German. It will then present the empirical generalizations about German type 1 names that are indicative of a mass-count distinction among light nouns and, more briefly, discuss the role of sortals in type 2 names. An appendix will critically review a potential alternative explanation of the mass behavior of the relevant German names, namely the predicativist theory of names, on which names as common nouns could divide into mass and count.

1. Light nouns and light quantifiers

This section will present a range of syntactic and semantic generalizations about light nouns, regarding their characteristic syntactic properties, the ability of the light noun THING to stand for absolutely everything, mass or count, and the selection of different light nouns by different quantifiers or determiners in English and German.

Light nouns play a particular role in certain types of quantificational NPs and pronouns. In English, these include *everybody, everything, someplace*, and *sometime*. Here *-body, -thing, -place* and *-time* are light nouns, overt versions of the light nouns PERSON, THING, PLACE, and TIME (Kayne 2005).\(^1\) *Where* in *everywhere* may seem like a light version of PLACE as well; however, following Kayne (2010, chap. 5), *where* is better regarded a determiner combining with the silent noun PLACE or THING (more on that later). In English ‘bare’ occurrences of *little, much, more* and *a lot* as well as the pronoun *that* contain silent THING.\(^2\) There are also quantifiers that select PERSON rather than THING, for example bare occurrences of *many* and *few*, on a non-anaphoric use, as in *Many / few believe in god*. Quantifiers and pronouns thus may (or may not) select particular overt or silent light nouns. In some languages, light nouns never appear overtly in light quantifiers. This is the case in German (*jeder* ‘everybody’,

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\(^1\) *Everyone, noone, someone* etc involve a numeral *one*, again not a noun. Note, however, that *one* in that context appears to carry the feature [+human], which suggests that *one* has come to act as a realization of the light noun PERSON.

\(^2\) For some reason, *a little bit* does not easily take silent restrictions. *John said a little bit* is quite bad (as opposed to *John said only little*). However, *John ate a little bit* is fine.
alles ‘everything’, nichts ‘nothing’). Everybody, everything, someplace, sometime, little, and much thus can be called light quantifiers.

Light nouns form a special class of nouns in that they belong to the functional rather than the lexical part of grammar. As such they have various special syntactic properties. Most importantly, light nouns can stay silent in the absence of an antecedent (Kayne 2005). By contrast, full NPs can be silent only through ‘deletion under identity’, that is, in the presence of a linguistic antecedent or possibly a salient object in the discourse. The difference between light NPs and full NP in that respect can be illustrated by the different readings of many and too much in many believe in god, John bought many, and John bought too much, which differ in the kind of silent nouns they contain as below:

(1) a. Many PERSON believe in god.
   b. John bought many N.
   c. John bought too much THING.

Many in (1a), which involves the light noun PERSON, ranges over human beings in general, not requiring an antecedent. Many in (1b) by contrast, requires an antecedent in the preceding discourse (e.g. in the question Did John buy any books?), and thus involves a deleted full noun. Too much in (1c) does not require an antecedent and involves the light noun THING.

In addition to not requiring an antecedent, NPs headed by light nouns, light NPs (DPs), tend to display different syntactic movement behavior, often having to move to a higher position (SPEC) position, when full NPs can stay in place (Collins 2005, Kayne 2005). Finally, light nouns do not display the syntactic features of full nouns; in particular they lack gender features (see below) and show a peculiar behavior with respect to number. Yet, as we will see, they display the mass-count distinction.3 Semantically, the functional status of light nouns means that their range and content should not vary across languages, but rather is part of a universal inventory, being constitutive of the core of grammar.

Light nouns may come with homophonic full nouns. Though there are generally semantic and perhaps historic connections between the two, the light noun and the corresponding full noun need not share their meaning or even their syntactic features. Thus, the light noun -body,

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3 On one view, the mass-count distinction consists in a distinction in functional projection, the presence of absence of a classifier (Borer 2005). This view would be untenable if light nouns display a mass-count distinction, yet are unable to participate in functional projections (Collins 2005). On the more standard view, nouns are specified as mass or count in the lexicon.
an instance of the light noun PERSON, contrasts with the full noun body. The difference between light nouns and homophonic full nouns is particularly striking with the nouns –thing, the overt version of the light noun THING, and thing, the full noun. The light noun –thing permits only postnominal adjectival modifiers, but not so the full noun thing:

(2) a. something nice
   b. some nice thing

There are a range of semantic differences between the full noun thing and the light noun –thing. Thing is a count noun, which applies to an entity by way of contextually given individuation conditions (which is why it is often called a ‘dummy sortal’, Griffith 1977). Thing applies only to inanimate enduring objects, in fact usually material objects. The light noun -thing applies to individuals as well as stuff, and thus, seems to act both as a count noun and a mass noun (I will return to that in Section 4).

(3) a. John ate something, an apple.
   b. John ate something, brown rice.
   c. John drank something, lemonade.

   b. Mary bought a nice thing, an art book / * bath salt / * chocolate.

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4 It has been argued that –thing in (1a) has moved to a higher syntactic position, leaving a prenominal adjective in place (Kishimoto 2000). See, however, Larson/Marusič (2004) for arguments that the adjective is in fact in postnominal position.

5 The overt light noun thing displays a syntactic count feature not shared by THING, which explains why thing can appear with every and is excluded in *littlething, *morething. This, however, is an uninterpreted syntactic feature. In section 4, we will see that –thing always applies as a mass noun, even if it introduces a countable domain.

6 A referee has pointed out that certain count NPs are possible in such contexts, for example those with present and drink as head nouns:

(i) a. Mary bought a nice present for her mom, bath salt.
   b. Mary drank a drink she likes, lemonade.

Those count NPs are also possible in predicative position with mass NPs in subject position, on a generic, type-referential reading:

(ii) a. Bath salt is a nice present for girl.
   b. Lemonade is a drink that I would not offer in the evening.
Furthermore, -\textit{thing} applies to abstract objects of all sorts and not just material entities:

(5) a. John admired something about the stone, its color.
    b. John admires something particularly, namely courage and integrity.

(6) a. John added two to eight, so he added something to eight.
    b. ‘Rouge’ means something, namely ‘red’.

The light quantifier \textit{something} can even range over pluralities, thus acting as a genuine plural quantifier, which means a (syntactically) singular quantifier ranging over pluralities (as many):\textsuperscript{7}

(7) a. John ate something, the ten cookies.
    b. I brought you something, a cup, a plate and a fork.

In fact, -\textit{thing}-quantifiers can be used so as to range over absolutely everything and are typically used in statements of absolute generality (Rayo/Uzquiano 2007):

(8) a. Are there quantifiers ranging over absolutely everything?
    b. Nihilists doubt the existence of everything there is.
    c. The world is everything there is. (Wittgenstein)

In certain contexts -\textit{thing} is restricted to inanimate objects (?? John saw something, namely Mary). This can be explained as a blocking effect, given the availability of the more specific \textit{somebody} in the very same sentential context. That is, if for an expression X, the language contains an expression Y with a more specific meaning than that of X, then the choice of X

\textsuperscript{7} The existence of plural quantifiers in natural language has, incorrectly, been put in question by some philosophers (Linnebo SEP, online).
instead of Y indicates that X is to be understood with a meaning complementary to that of Y. The light noun THING thus is the most general noun, applying to anything whatsoever.

There are certain argument positions in which only light NPs, not full NPs may appear. Some of them are of considerable interest philosophically, in particular the complement position of certain attitude verbs (say, think, claim) and that of copula verbs and intensional transitive verbs:

(9) a. John said something nice / * some nice thing.
   b. Mary thought / assumed something / * some thing.
   c. John became something admirable, a hero / * some admirable thing.
   d. John is looking for something, an assistant / * for some thing, an assistant.

For that reasons such quantifiers have been considered non-nominal quantifiers (Rosefeldt 2008). While that label is obviously incorrect syntactically, the syntactic category distinction between light NPs and full NPs is yet to be explored for the semantics of nonreferential complements.

It has been proposed that light nouns come with no syntactic features or functional projections (Collins 2004). This certainly holds for gender features. Light nouns lack the gender features of full nouns, as can be seen in the absence of gender agreement of the apparent feminine light noun with the adjective in French (quelque chose de bon / * de bonne) and Italian (qualcosa du buono / * di buona), as well as in the obligatory neuter gender of adjectives modifying PERSON light NPs in German (niemand interessantes / * interessanter / * interessante ‘noone interesting (neut) / interesting (masc) / interesting (fem)’). Given that light nouns are not marked for gender, a modifying adjective needs to take neuter, that is, unmarked gender.

Light quantifiers ranging over locations have the syntactic peculiarity of not requiring or even allowing a spatial preposition in particular cases:

(10) John worked (*at) someplace.

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8 See Moltmann (2003, 2013a) for a discussion and semantic analysis of light quantifiers as ‘special’ or ‘nominalizing’ quantifiers with the various sorts of intensional predicates with which they may occur.
In the literature, this is generally accounted for by having *someplace* move to SPEC(P), allowing the P to stay empty (Collins 2005, Kayne 2005, Terzi 2010a, b). This means that *where, when, somewhere, every* etc. are PPs, not NPs.

There are pronouns corresponding to light quantifiers, namely *that, what, who, where,* and *when.* *That* and *what* are pronominal counterparts of *something,* which means they are able to in principle stand for anything whatsoever. This is most obvious in the use of *what* in questions, which allow as answer the mentioning of anything whatsoever, as long as permitted by the presuppositions of the predicate:

(11) What did John see? He saw Mary.

*That, what, who, where* are best not considered light nouns themselves, though. Thus, Kayne (2010, chap. 5) has argued that *where* is in fact a determiner combining with the silent noun PLACE or THING, so that (11a) is in fact (11b):

(12) a. John went where Mary went.
    b. John went where-PLACE Mary went.

Similarly, there will be *there-PLACE, what what-THING, that that-THING,* and *when when-TIME* respectively.9

In German, the counterpart of *where, wo* is more obviously able to combine with THING: in relative clauses modifying THING-NPs, *wo* rather than *was* (as a relative pronoun, see below) appears with prepositions (in fact, postpositions then) (Noonan 2017):

(13) a. alles / nichts, wovon / womit / worüber / * von was / * mit was / * über was
    ‘everything / nothing / something / that what of / of what of which
    b. etwas / das, wovon / * was von / * von was / ?? von dem

Similarly, *da* appears as counterpart of *das* ‘that’ with pепositions (*davon ‘of that’, *darüber ‘about that’, *damit ‘with that’). *Where* and *wo/da* thus are determiners able to combine with both light nouns PLACE and THING.

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9 PLACE will also be part of somewhere since *where* here is not a light noun either (and so for German *irgendwo* ‘somewhere’).
As was mentioned already, in contrast to English, German light quantifiers do not involve an overt light noun. *Alles, etwas, nichts* are THING-quantifiers, and thus their actual structure will be *[alles THING], [etwas THING], and [nichts THING]); *jeder, niemand, jemand* are PERSON-quantifiers. *Alles* as a THING-quantifier is as potentially unrestricted as English *everything*. Light nouns, in their overt or silent versions, thus are selected by particular quantifiers or pronouns.

2. W-pronouns in German

German light quantifiers and pronouns show a peculiarity that is particularly important in the context of this paper. This concerns the choice among two sorts of relative pronouns:

[1] *w-pronouns*, which consist of the neuter pronouns *was* and *wo*

[2] *d-pronouns*, which consist of the gender-marked pronouns *der* (masc), *die* (fem), and *das* (neut).

There are some contexts for which the choice of D-pronouns and w-pronouns varies among speakers and there are subtle semantic parameters that seem to be at play. However, the following generalizations capture stable intuitions (Brandt/Fuss 2017, 2019). In general NPs with full nouns as head chose D-pronouns, illustrated below just with a neuter noun (*Objekt*), as *was* is neuter:

\[ \text{11} \]

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10 The choice among d-pronouns and w-pronouns has been described by various early German grammarians, such as Behagel, Curme, and Cutting; see Brandt/Fuss (2017, 2019) for detailed references.

11 Nominalized superlative adjectives also take w-pronouns rather than w-pronouns:

(i) das Beste, was / * das
    ‘the best that’

Brandt/Fuss(2017) argue that this is due to an implicit *alles* (which selects w-pronouns) in superlatives (the best = better than everything).

For at least a range of speakers, including myself, mass NPs that are not definite also select or at least prefer d-pronouns:

(ii) etwas / alles Wasser (mass, neut.), was / ?? das mit Rosenöl vermischt ist,
    ‘some / all water that is mixed with rose oil’

For such speakers, NPs such as *all das Wasser* ‘all that water’ permit both w-pronouns and d-pronouns, with the former obviously being selected by *all* and the latter by *das*:

(iii) all das Wasser, was / das er trinkt
    ‘all that water that he drinks’

However, since those judgments are not represented in the corpus study of Brandt/Fuss (2017), I will leave the issue aside.
(14) Maria nahm jedes / ein / kein Objekt, das / * was sie fand.
   ‘Mary took every / some / no object that she found.’

By contrast, neuter light quantifiers and pronouns such as alles ‘everything’, das ‘that’, nichts ‘nothing’, etwas ‘something’, viel ‘much’, das meiste ‘most’ select w-pronouns:12

(15) a. Alles, was / * das Hans besitzt, ist schoen.
   ‘Everything / Nichts / That, which John owns is beautiful.’

b. Etwas, was / * das Hans aergert, ist der Laerm.
   ‘Something that bothers John is the noise.

c. Nichts, was / * das Hans sagte ist wahr.
   ‘Nothing that John said is true.’

d. Hans sagte mir nichts, wovon / ?? von dem ich nicht schon wusste’.
   ‘John told me nothing of which I did not know already.’

e. Das meiste, worüber / ?? über das er sprach, war uninteressant.
   ‘Most, which / about which he talked was uninteresting.’

Not all light NPs select w-pronouns, though. Those with the light noun PERSON, in particular, don’t:

(16) a. Jeder / niemand / jemand, der / * was mich kannte, kam.
   ‘Everybody / nobody / somone, who / what knew me came.’

b. Jeder, von dem / * wovon / * von was Maria gesprochen hatte, kam.
   ‘Everyone, of whom / where / what Mary had talked about, came.’

12 Light adverbial pronouns and quantifiers involving TIME and PLACE such as dann ‘then’ and irgendwo ‘somewhere’ chose w-pronouns:

(i) a. Hans kommt dann, wenn er will / zu dem er will.
   John comes then, when : at which he wants
   ‘John will come when we wants.

b. Maria ist irgendwo, wo / * an dem die Sonne schein.
   ‘Mary is there, where / in which the sun is shining.’
The difference between light nouns and full nouns is evident also when contrasting neuter pronouns with silent light noun and silent full noun in the example below from Brandt/Fuss (2017, p. 212):

(17) a. Das Bild, das Peter gekauft hat, war teurer als das N, das Maria gekauft hat.
   ‘The picture that Peter has bought is more expensive than that that Mary has bought.’
   b. Das Bild, das Peter gekauft hat, war teurer als das THING, was Maria gekauft hat.
   ‘The picture that Peter has bought is more expensive than what Mary has bought.’

(17a) compares the picture Peter bought to the picture Mary bought; (b) compares it to the things Mary bought.

The standard view about the choice relative pronouns in German is that the choice of w-pronouns is subject by an elsewhere conditions: w pronouns are chosen just in case the conditions for d-pronouns are not met, namely that the head noun be gender-marked ([+masculine], [+feminine], [+ neuter] (= [- masculine, - feminine])) (Brandt / Fuss 2017, 2019 and references therein). The latter is the case for full nouns as well as jeder/jemand/niemand etc. This view poses difficulties for the view that light nouns, as was said, do not carry gender features. THING, TIME, and PLACE not being marked for gender leads to a default classification as neuter. But this does not apply to PERSON, which selects d-pronouns. I will argue that what distinguishes PERSON from the other light nouns is its status as noun ranging over a countable domain. This requires a modification of the elsewhere condition on w-pronouns as follows:

(18) **Condition on the choice of German relative pronouns (d-pronouns and w-pronouns)**

   D-pronouns appear with head nouns carrying the feature [+masculine], [+feminine], [+ neuter], or [+count], W-pronouns appear elsewhere.

I will turn to the count/non-count status of light nouns after a discussion of a related phenomenon, the support of plural anaphora.

### 3. Plural anaphora in English and German

The selection of w-pronouns by light nouns goes along with a failure to support plural anaphora. This requires a few words about plural anaphora in German and in English and an
important difference among them. The plural anaphor *sie* in German generally requires antecedents that are syntactically plural, as in (19a, b). By contrast, English *they* allows for antecedents that are syntactically mass, though semantically plural, namely in particular conjunctions of mass NPs, as illustrated by the acceptable English translations of (19a, b):

(19) a. Hans hat Mehl und Reis gekauft. Er hat *sie / ok es / das / ok beides bezahlt.
   ‘John bought flour and rice. He paid for them / it / that / both.’

   b. Maria hat das Silber und das Gold betrachtet. Sie hatte *sie / ok es noch nicht
gesehen.
   ‘Mary has looked at the silver and the gold. She had not seen them / it before.’

   c. Der Regen und der Schnee, Maria hat beides / das / *sie gesehen.
   ‘The rain and the snow, Mary has seen both / that / them.’

Instead of the plural pronoun *sie*, German allows only for *es ‘it’, das ‘that’ or beides ‘both’, which is syntactically singular (mass), yet behaves like a plural semantically.\(^{13,14}\)

Let us assume that plural pronouns are in fact determiners, as suggested in Kayne (2010), following Postal (1966). Then plural determiners *they / sie* select semantic plurality in English, but syntactic plurality in German. Below this is made more precise, using the notion of an integrated whole (Simons 1987, Moltmann 1997), a notion of unity of entities that is independent of syntactic singularity:

(20) a. For a discourse context c and a NP X, [they X]^c is defined only if an utterance of X is part of c and the semantic value of X is a plurality of integrated wholes.

   b. For a discourse context c and a NP X, [sie X]^c is defined only if X is part of c and [+plural].

Referents of singular count NPs are generally integrated wholes, but also referents of definite mass NPs are, such as the silver. The silver is an integrated whole in the sense that it is the maximal entity (in the context) whose parts share the property of being silver (Simon’s 1987 notion of an FF-integrated whole, see also Moltmann 1997).

\(^{13}\) See Moltmann (ms.) on beides.

\(^{14}\) Somewhat colloquial German also allows for die ‘the / they’ in the contexts (19a, b). Die is homophonous with the plural determiner and also acts as a demonstrative without linguistic antecedent. I take die to be a plural demonstrative, referring to a contextually given plurality, not a pronoun. It is thus not subject to the condition on pronouns in German below.
Why do English and German differ with respect to the antecedents of plural anaphora? This appears related to the fact that gender features are determined syntactically in German and semantically in English. In German, gender as a syntactic feature of nouns is fixed in the lexicon, rather than being based on the nature of the referent, as in English.\footnote{Uses of she / her for ships in English may be set aside as peculiarities of the individuation of certain artifacts.} German personal pronouns (er ‘he’, sie ‘she’, es ‘it’) and determiners (der, die, das), moreover, require syntactic agreement with the gender of the relevant NP. (20b) is then part of a more general condition according to which German pronouns select NPs based on syntactic features of the corresponding antecedents.\footnote{As a referee pointed out, they/them may take someone / a student as antecedent in colloquial, recent English. On this use, they/them seems to have lost its plural feature, exploiting the fact that the plural does not come with gender in English.}

\begin{enumerate}
\item [(21)] \textbf{Condition of English and German anaphoric pronouns}
\begin{enumerate}
\item For an English pronoun \(p\), an NP \(X\), and a discourse context \(c\), \([p \ X]^c\) is defined only if an utterance of \(X\) is part of \(c\) and the semantic value of \(X\) satisfies the features of \(p\).
\item For a German pronoun \(p\), an NP \(X\), and a discourse context \(c\), \([p \ X]^c\) is defined only if an utterance of \(X\) is part of \(c\) and \(X\) agrees in syntactic features with \(p\).
\end{enumerate}
\end{enumerate}

What is important in the present context is the observation that conjunctions of light NPs that select w-pronouns also fail to support plural anaphora, as seen in (22a, b):\footnote{Bare mass nouns as names of kinds in German also require w-pronouns (for the relevant range of speakers, see Fn 5.):}

\begin{enumerate}
\item [(i)] a. Magnesium, was / ??? das lebenswichtig ist, ist ein wichtiges Metal.
   ‘Magnesium, which is essential for life, is an important metal.’
\item [(ii)] a. Gold und Silber werden zum Schmuckherstellen verwendet. * Sie glänzen.
   ‘Gold and silver are used to make jewelry. They are shiny.’
\item [(iii)] a. Brauner Reis, was / ??? der gesünder ist als Weizen, ist nicht teuer.
   ‘Brown rice, which is healthier than wheat, is not expensive.’
\end{enumerate}

Moreover conjunctions of bare mass nouns in their kind-referring use do not support the plural anaphora:

\begin{enumerate}
\item [(i)] a. Magnesium, was / ??? das lebenswichtig ist, ist ein wichtiges Metal.
   ‘Magnesium, which is essential for life, is an important metal.’
\item [(ii)] a. Gold und Silber werden zum Schmuckherstellen verwendet. * Sie glänzen.
   ‘Gold and silver are used to make jewelry. They are shiny.’
\item [(iii)] a. Brauner Reis, was / ??? der gesünder ist als Weizen, ist nicht teuer.
   ‘Brown rice, which is healthier than wheat, is not expensive.’
\end{enumerate}

Bare mass nouns remain mass NPs even if they refer to a unique, well-individuated kind. Note that even kind-referring mass NPs of feminine or masculine gender take w-pronouns (for the relevant range of speakers), as see in the inflection of the adjectival modifier below:

\begin{enumerate}
\item [(i)] a. Magnesium, was / ??? das lebenswichtig ist, ist ein wichtiges Metal.
   ‘Magnesium, which is essential for life, is an important metal.’
\item [(ii)] a. Gold und Silber werden zum Schmuckherstellen verwendet. * Sie glänzen.
   ‘Gold and silver are used to make jewelry. They are shiny.’
\item [(iii)] a. Brauner Reis, was / ??? der gesünder ist als Weizen, ist nicht teuer.
   ‘Brown rice, which is healthier than wheat, is not expensive.’
\end{enumerate}
(22) a. Hans kann sich an das erste und das zweite erinnern, was Maria gesagt hat. Max kann sich daran / * an sie auch erinnern.

‘John can recall the first thing and the second thing Mary said. Max can recall them / that.’

b. Hans kann sich an das erste und das zweite Ding erinnern. Max kann sich an sie auch erinnern.

‘John can recall the first thing and the second thing. Max can recall them too.’

(23) Hans hat etwas gebaut und Maria hat etwas gezeichnet. Peter hat (das) beides / * sie bewundert.

‘John has built something and Mary has drawn something. Peter has admired (that) both / them.’

(22a) contrasts with (22c), with the full noun Ding, which goes with d-pronouns and supports plural anaphora.

Light nouns that select w-pronouns thus fare with mass nouns in their failure to support plural anaphora. This indicates that the light noun THING sides with mass nouns, rather than with count nouns, or, more carefully, have ‘non-count status’. In the next section we will further arguments for the non-count status of THING as well as of the light nouns TIME and PLACE. This will then play an important role in explaining the behavior of German names with respect to relative pronoun selection and plural anaphora support.

3. The non-count status of the light nouns THING, TIME, and PLACE

Light nouns do not come with a syntactic mass-count distinction that with full nouns is to an extent arbitrary, reflecting at best ‘grammaticized individuation’ (English shoes – footwear, rice grains - rice) (Rothstein 2017). Rather the status of a light noun as count or non-count is strictly determined by semantic criteria. Given such criteria, PERSON obviously classifies as count, but not so THING, TIME, and PLACE.

First of all, we have seen that there are both mass and apparent count uses of THING. Though the light noun –thing contrasts with the full noun thing, which only has a count use,
there are apparent count use of \textit{-thing} as well. \textit{-thing} in fact comes with a plural, as in \textit{several things}. \textit{Several things} can appear in context in which only light NPs can appear, such as the object position of a verb of saying:

(24) a. He said something nice.
   b. ??? He said some nice thing.
   c. He said several nice things.

Syntactically, though, the plural \textit{things} behaves like the full noun \textit{thing}, with the adjective preceding the noun. German, which lacks an overt version of the light noun \textit{THING}, forms a plural of \textit{THING} using the plural of the full noun \textit{Ding}, but with the light-noun meaning of \textit{THING}:

(25) a. Er hat etwas / * ein Ding gesagt.
    ‘He said something / a thing.’
   b. Er hat mehrere Dinge gesagt.
    'He said several things.'

Like the English plural \textit{things}, 'Dinge' as in (21b) syntactically remains a full noun, selecting d-pronouns.\(^{18}\)

THING-quantifiers in German also appear to have singular count uses, as is apparent with cardinal or ordinal numerals in \textit{eines} ‘one’, \textit{das eine} ‘the one thing’, and \textit{das erste} ‘the first’:

(26) a. Hans hat eines vergessen, dass er ein Visum braucht.
    ‘John forgot one thing, that he needs a visa.’
   b. Das eine, was Hans vergessen hat, ist, dass er ein Visum braucht.
    ‘The one thing that John forgot is that he needs a visa.’
   c. das erste, was Maria gesagt hat'
    ‘the first thing Mary said’

\(^{18}\) Other languages do not seem to display a syntactic difference between singular and plural of \textit{THING}. For example, the French light noun \textit{chose} and the Italian noun \textit{cosa} have count uses and a plural from the same paradigm (\textit{plusieurs choses} ‘several things’, \textit{molte cose} ‘many tings’). This indicates that light nouns do not as such lack number, but that only silent \textit{THING} does so.
Thus, THING, in English and in German, has both mass and count versions and a plural borrowed from the full noun homophone.

There is something special, however, about the count use of THING, and that is that THING, on that use, does not need to pick up on any inherent countability of an entity, unlike the singular full count nouns *thing* and *Ding*. Rather, THING, on a count use, may impose countability on things that are not as such countable, e.g. the referents of mass or plural NPs. This is illustrated in the examples below, which also give the contrast to the full noun *Ding*:  

(27) a. Hans hat eines / ??? ein Ding nicht gegessen, die Bohnen (plur) / den Reis (mass).
   ‘John failed to eat one thing, the beans / the rice.’
   b. Das eine / ??? Das eine Ding, was Hans nicht mag, sind Bohnen (plur) / Reis (mass).
   ‘The one thing John does not like is beans / rice.’

On such a count use, the light noun THING can even count a plurality of two entities as one, unlike the full noun *Ding*:

(28) a. Das eine / einzige / ??? eine Ding / ??? einzige Ding, was Maria vergessen hat, waren
die zwei Taschen.
   ‘The one / only thing that Mary forgot were the two bags.’
   b. Ich habe Maria an das eine / das einzige / ??? eine Ding / ??? einzige Ding erinnert, das
   sie vergessen hatte, die beiden Taschen im Schrank.
   ‘I reminded Mary of the one thing / the only thing she forgot, the two bags in the
   closet.’

THING contrasts in that respect with the light singular count noun PERSON, which cannot be used to refer to a plurality of people, as the impossibility of the collective predicate below makes clear:

(29) ??? Everyone / Someone met in the room.

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19 The ‘reifying’ function of THING can certainly be related to the nominalizing function of THING-quantifiers when they occur in place of nonreferential complements, such as *that*-clauses, predicative complements, and complements of intensional transitive verbs, as discussed in Moltmann (2013).
On such singular count uses, THING acts like a numeral classifier in classifier languages, on a view such as that of Rothstein (2017), mapping a domain not specified for countability onto a countable one. That is, THING imposes countability by picking up on a distinguishing property of elements of the domain, whether they are stuff or things. THING is then both mass and count in the sense that it applies to a domain not specified for countability and may map it onto one that is. Given that, the selection of w-pronouns by THING-quantifiers can be attributed to the mass status (on one side) of (singular) THING.20

Apart from the behavior of THING with mass nouns, there are general philosophical reasons to regard the light noun thing as a mass noun: generally, counting requires a sortal, giving the identity conditions of the things being counted (Frege 1884). Given that view, there could not be a count predicate for everything there is. This appears to be reflected also in the fact that count quantifiers such as many, few, and a few do not allow for THING as restriction, but only for the light count noun PERSON, or else a deleted full noun, requiring an antecedent (Section 1.).

The light noun TIME is clearly non-count semantically, as its overt counterpart time is a mass noun. There are a number of reasons to consider it a non-count noun [+count]. First of all, its manifest version as in someplace does not come with a plural (Collins 2007). Yet someplace / somewhere can appear in contexts where a plural would be strongly preferred. Thus, if John and Mary live in different places in Europe, (30a) is still acceptable, but not so (30b), as opposed in (30c):

(30) a. John and Mary live somewhere in Europe.
   b. John and Mary live in some place in Europe.
   c. John and Mary live in some places in Europe.

The light noun PLACE satisfies standard semantic criteria for mass nouns (Pelletier/Schubert 1989, 2003): it is cumulative (the sum of two places is again a place as well as divisive: a part of a place is a place again). Even apart from standard extensional mereological criteria for mass nouns, there are fundamental ontological differences between places and individuals, which rank places below the level of individuals in terms of degrees of individuation and motivate a classification of PLACE as non-count. Thus, Strawson (1959) distinguishes a

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20 There is also a view on which the mass-count distinction is a binary distinction, but may involve various criteria (Kulkarnik/Rothstein/Treves 2020). Different criteria may then fail to classify THING and PLACE together with the count noun PERSON.
conceptually (and perhaps developmentally) earlier stage of the use of language, namely as a feature-placing language. A feature-placing language does not involve reference to individuals, but only the placing of a feature (quality) at a location. Locations thus are prior, conceptually and possibly developmentally, to individuals. Individuals that are material objects are individuated in terms of persistence conditions across different locations and at different times. Locations form a basis for the individuation of individuals, but not conversely.  

To summarize, light nouns come with a mass-count distinction which is strictly grounded in semantic or ontological properties of their denotations, with only PERSON having the status of a count light noun (as well as the light noun HOUSE, as we will see in the next section).

4. Type 1 names in German: names for people, buildings and places

German names exhibit a remarkable pattern in the selection of w-pronouns and plural anaphora, displaying a sharp divide between person names on the one hand and place names on the other. In addition, ‘productive’ names for times, numbers and expressions side with names for places.

There are two types of proper names that need to be distinguished, for German as well as English and similar languages: type 1 names and type 2 names, as I will call them. Type 1 names take the form of simple nouns in argument position (English John or London). Type 2 names require a determiner in argument position (English the Hudson, the Parthenon).

In German, type 1 names for people and type 1 names for places (cities, villages, countries, and continents) differ with in two respects:
1. selection of relative pronouns: d-pronouns (der, die, das) or w-pronouns (was, wo)
2. plural anaphora support by a conjunction of proper names as antecedent.

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21 The full noun place is a count noun of the sort fence, wall, and entity, nouns that satisfy mereological criteria for mass nouns, yet are count (Moltmann 1997, p. 22, Rothstein 2017). With the full noun place, it is the contextually given boundary or integrity of a place that ensures countability.

22 I will not make any particular assumptions about the syntactic structure of type 1 names. See Longobardi (1994) and subsequent work for a discussion of the syntax of type 1 names. On Longobardi’s view, names move to D position (possibly only at LF). Head movement to D will no longer be available on the view developed here on which type 1 names come with a silent light noun that forms the head of the DP. However, movement of the light NP (name-light noun) to SPEC(D) will. See later in this Section.
The choice of d-pronouns strictly goes along with support of plural anaphora, whereas the choice of w-pronouns goes along with the failure to support plural anaphora.  

Here are the relevant generalizations regarding person names. Proper names for people (and animals) select d-pronouns:

(31) a. Hans, der / * was
    ‘John, who’

b. Maria, die / * was
    ‘Mary, who’

Not only masculine or feminine names select d-pronouns, also diminutive names, which are syntactically neuter, do so:

(32) a. Er zeigte uns Fritzchen, das / * was wir noch nicht gesehen hatten.
    ‘He showed us little Fritz, whom we have not seen.’

b. Mariechen, das / * was wir sehr gerne mögen, kann uns helfen.
    ‘Mariechen, whom we like a lot, can help us.’

There are also proper names for inanimate objects that select d-pronouns, for example proper names for castles and churches:

(33) a. Sanssouci, das / ?? was kleiner ist als Versailles
    ‘Sanssouci, which is smaller than Versailles’

b. Zarskoe Selo, das / ?? was grösser ist als Pavlovsk
    ‘Zarskoe Selo, which is bigger than Pavlovsk’

c. Notre Dame, das / ?? was beinahe durch ein Feuer zerstört wurde
    ‘Notre Dame, which was almost destroyed by fire’

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23 The generalizations hold at least for standard German spoken in Southern Germany. For some German speakers the choice of d-pronouns and w-pronouns is interchangeable for place names as well as in other contexts.

A certain regional and colloquial German allows for definite determiners with names (der Hans ‘the Hans’, die Maria ‘the Mary’). However, there does not seem to be a correlation of the use of definite determiners with names and relative pronoun choices. There is nothing colloquial about the choice of one relative pronoun over another.
Names for castles and churches are syntactically neuter. This is shown by the fact that a definite determiner that is required by an adjectival modifier of the name must be neuter (and that regardless of the gender of a suitable sortal noun (Kirche ‘church’ is feminine and Palast ‘palace’ masculine):

(34) a. das / * die schöne Notre Dame
‘the beautiful Notre Dame’
b. das / * der erstaunliche Zarskoe Selo
‘the amazing Zarskoe Selo’

Neuter gender here is chosen based on the nature of the referent.

Names for places, cities, countries, and continents select w-pronouns, not d-pronouns:24

(35) a. München, was / ???. das ich sehr gut kenne
‘Munich, which I know very well’
b. Ich kenne Berlin, was / ???. das du ja nicht kennst.
‘I know Berlin, which you do not know.’
c. Ich liebe Italien, was / ???. das dir ja auch gut gefällt.
‘I love Italy, which pleases you too.’

(36) a. Ich kenne Australien, was / ???. das du ja nicht kennst.
‘I know Australia, which you do not know.’
b. Asien, was / ???. das weit grösster also Europa ist
‘Asia, which is by far bigger than Europe’.

The same contrast holds for complex relative pronouns of the sort wovon ‘of which’, as opposed to von dem ‘of which’:

(37) a. Berlin, womit / ???. mit dem ich mich schon seit langem befasse, ist ein interessantes

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24 There is one type of exception to the generalization for those speakers and that is plural country names such as die Niederlande ‘the Netherlands’, which selects d-pronouns:

(i) die Niederlande, die
‘the Netherlands, which’

Here the sortal appears overt (-lände), and the name may better be classified as a type 2 names, which come with a definite determiner (Section 6).
Thema für eine Konferenz.
‘Berlin, with which I have occupied myself for a long time, is an interesting topic for a conference.’

b. England, von dem er eine Stunde lang sprach
‘England, of which he spoke for an hour’

c. Afrika, über das wir uns lange unterhalten haben
‘Africa, which we talked about for a long time’

Turning then to plural anaphora, in German, as in English, conjunctions of proper names for people are unproblematic as antecedents for plural anaphora sie:

(38) Anna mag Hans und Franz. Bill mag sie auch.
‘Ann likes Hans and Franz. Bill likes them too.’

The same holds for names for churches and palaces:

(39) a. Ich kenne Notre Dame und Sainte Chapelle. Sie sind beide sehr schön.
‘I know Notre Dame and Sainte Chapelle. They are both very beautiful.’

‘Zarskoe Zelo and Pavlovsk, they are located in the environment of Saint Petersburg.’

By contrast, conjunctions of German names for places do not support plural anaphora. Rather, for the purpose of anaphoric reference to a conjunction of place names, a definite plural NP with a sortal head noun needs to be chosen:25

(40) a. Ich kenne Berlin und München. Anna kennt sie / ok diese Städte auch.
‘I know Berlin and Munich. Ann knows them / those cities too.’

b. Ich mag Frankreich und Italien. Marie mag sie / ok diese Länder auch
‘I like France and Italy. Mary likes them / those countries too.’

Conjunctions of close appositions with place sortals as head nouns do support plural anaphora, as expected:

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25 Again, die in the relevant colloquial German is possible in (40a, b) as well. See Fn 14.
Ich kenne die Stadt Berlin und die Stadt München. Maria kennt sie auch.
‘I know the city of Berlin and the city of Munich. Mary knows them too.’

The conditions on plural anaphora support are different in English. Conjunctions of English place names are unproblematic as antecedents for plural anaphora:

(42) a. I know Berlin and Munich. Mary knows them too.
    b. I like France and Italy. Mary likes them too.
    c. I would like to visit Australia and Africa. Mary would like to visit them too.

Only in certain larger constructions can German place names go with d-pronouns and support plural anaphora. One of them is close appositions, where the d-pronoun is selected by the full head noun, with which it agrees in gender:

(43) a. die Stadt München, die /* was ich gut kenne
    ‘the city of Munich which I know well’
    b. Die Städte München und Berlin, ich kenne sie gut.
    ‘The cities Munich and Berlin, I know them well.’

Another construction involves temporal modification:

(44) das Berlin der 20iger Jahre, das /* was ich nicht kenne
    ‘the (neut) Berlin of the 20ies which I do not know well’

Here the proper name, most plausibly, has undergone meaning shift from a name referring to a place to a noun expressing a sortal concept for temporal stages of the place. The sortal noun is count, allowing for the plural, as in die Berlins der verschiedenen Epochen ‘the different Berlins of the different periods’.

Why do place names in German select w-pronouns and fail to support plural anaphora?

Given the previous section, NPs that select w-pronouns and fail to support plural anaphora are those that involve as head a light noun that is non-count, such as THING.PLACE, we have seen likewise can be regarded as non-count. German place names themselves can hardly be considered non-count, since they stand for single, well-distinguished entities. Cities,
countries, and continents are clearly countable, or at least they are treated as such in the way we ordinarily think and talk about them. The classification of German place names as non-count, however, can be attributed to the presence of a silent PLACE. The light noun PLACE, like THING, is a mass noun, contrasting with PERSON. If silent light nouns form part of type 1 names, this explains the difference in count status between names for places and names for people in German. 26 A silent light noun thus should form the head of a type 1 name, as below, determining the count status of the entire DP:

(45) a. [Hans [PERSON]NlightNlightP]DP

English type 1 names will have the very same structures. English differs from German just in that English plural anaphora allow antecedents that are semantically, but not syntactically plural.

A syntactic question that arises for type 1 names is: why do type 1 names not come with the definite determiner? This question needs to be pursued properly somewhere else. Perhaps the answer may reside in the ability for type 1 names (as light DPs) to move to SPEC(D) position, allowing the determiner to stay unpronounced, as has been proposed for light DPs in general by Collins (2007).

Names for churches and palaces will involve a light noun that, like PERSON, classifies as a count noun. It is plausible that HOUSE is such a light noun. HOUSE in various languages functions as a bare NP, a syntactic role close to that of a light noun (Collins 2007), for example Italian (Sono a casa ‘I am home’, Vado a casa ‘I go home’) and French (à la maison ‘at home’). 27, 28 Thus, Sanssouci will have the structure [Sanssouci HOUSE]NlightP.

5. Productive names: names for times, addresses, numbers, and expression types

26 For the suggestion that light nouns are part of names see Kayne (2010, Chap 8, Appendix).

27 Collins (2007) has argued that home has a light noun use, involving PRO for the relevant possessor ([PRO home]). However, it is more plausible that home has in fact the underlying structure [PRO HOUSE]. Many languages, it seems, do not have a light noun home, but use the noun for ‘house’ instead (Italian a casa, German zu hause). Alternatively, some languages just use pronoun or name with a preposition (French chez soi ‘at (one’s) home’, chez Marie ‘at Mary’s home’).

28 Note that overt house can be used to refer to churches, e.g. English, house of god, German Gotteshaus ‘house of god’, Italian casa del Signore ‘the house of the lord’.
I will call *productive name* those names that are attributed not arbitrarily, based on some form of baptism or otherwise case-by-case, but instead by a scheme aligned with a productive formation of names applied to a particular domain of entities. Productive names generally take w-pronouns and do not support plural anaphora, which means they contain non-count light nouns.

Names for times (years, specific months, or dates) are productive names involving a combination of numerals and names for recurring periods of time in a certain order. German names for times take w-pronouns and do not support plural anaphora:

(46) a. 1968, was / ?? das interessanter ist als 1970
    ‘1968, which is more interesting than 1970’
    b. 1968, worüber / ?? über das ich einen Artikel geschrieben habe
    ‘1968, about which I have written an article’

A close apposition is required to make d-pronouns acceptable for names of times:

(47) a. das Jahr 1968, das interessanter ist als 1970, …
    ‘the year 1960, which is more interesting than 1970, …’
    b. die Jahre 1968 und 1970, über die ich einen Artikel geschrieben habe
    ‘1968, about which I have written an article’

German names for times also fail to support plural anaphora, unlike their English counterpart (as the translations of the examples below make clear):

    ‘I have thought about 1968 and 1970. Mary thought about them / those years too.’
    b. Anna schlug den dritten und den vierten August vor. Maria schlug * sie / ok diese Tage auch vor.
    ‘Ann proposed the third and the fourth of August. Mary proposed them / those days too.’

Names for years, days, or months as such could hardly classify as non-count, since they stand for well-individuated temporal units and are part of a conventionalized schema for naming them in a certain order. The non-count status of names for times, however, can be attributed
to the presence of the light mass noun TIME.\textsuperscript{29} TIME as part of a name does not tell whether the referent is a year, month, or day. However, the choice of a particular temporal unit as the referent of the name will be part of the naming scheme that goes along with the particular type of productive name.

Names for addresses are productive names referring to places. They select w-pronouns and fail to support plural anaphora:

\begin{itemize}
\item[(49)] a. 1600 Pennsylvania Avenue, \textit{was} / * das die Adresse des Weissen Hauses ist
\begin{quote}
‘1600 Pennsylvania Avenue, which is the address of the White House’
\end{quote}

b. 1600 Pennsylvania Avenue und 10 Downing Street, ich merke mir ??? sie / ok diese Adressen.
\begin{quote}
‘1600 Pennsylvania Avenue und 10 Downing Street, I will recall them / those addresses.’
\end{quote}
\end{itemize}

This is obviously due to the presence of the light mass noun \textit{PLACE} in names for addresses. Recall, by contrast, that names for buildings (churches, palaces) involve the light count noun \textit{HOUSE} and thus are not categorized as place names.

Names for numbers are also productive names, being formed by nominalizing the corresponding numeral adjective (or numeral quantifier). Number words such as \textit{two} can occur in argument position, as below, and thus can, at least syntactically, be used as names:\textsuperscript{30}

\begin{itemize}
\item[(50)] Two is smaller than four.
\end{itemize}

German names for numbers take w-pronouns and do not support plural anaphora:

\begin{itemize}
\item[(Moltmann 2013a, Chapter 4, 2013b):\textsuperscript{31}]
\item German number words may also enter the construction of type 2 names, which, as expected, go along with d-pronouns:
\end{itemize}

\begin{itemize}
\item[(i)] die Zwei, die / * was eine Primzahl ist
\begin{quote}
the (fem) two which is a prime number
\end{quote}
\end{itemize}

\textsuperscript{29} One might suggest that \textit{1968} is in fact accompanied by both \textit{TIME} and \textit{YEAR}. However, there is little plausibility that \textit{YEAR} is non-count. Note that the full noun \textit{year} has not just a count noun use, but also a use as a measure noun (as in \textit{for several years}).

\textsuperscript{30} Moltmann (2013a, b) and Hofweber (2006) take simple numerals to still have adjectival or quantificational meaning. But see Moltmann (2017) for arguments that their syntactic status is that of a name and no longer that of an adjective or quantifier.

\textsuperscript{31} German number words may also enter the construction of type 2 names, which, as expected, go along with d-pronouns:
(51) zwei, was / ?? das kleiner als vier ist, …
   ‘two, which is smaller than four, …’

(52) a. Hans addierte zehn und zwanzig. Maria addierte * sie / ok diese Zahlen auch.
   ‘John added ten and twenty. Mary added them too.’
   ‘Ten and twenty are divisible by two. They / Those numbers are not prime numbers.’

The non-count status of number names can be attributed to the presence of the light mass noun THING.\(^{32}\) Conjunctions of number words in English do support plural anaphora, as shown by the acceptability of the translations of (52a, b), due to the fact that plural anaphora in English require just semantic plurality, not syntactic plurality, for their antecedents.

Another productive type of name is pure quotations (in contexts in which they act as referential terms). Pure quotations are uses of expressions that appear to involve the formation of expression-referring names, at least in contexts such as the subject position in (53a) and the object position in (53b) (which allow replacement by an explicit expression-referring term of the sort the name Anna):\(^{33}\)

(53) a. ‘Anna’ ist zweisilbig.
   ‘Anna’ is disyllabic.’
   b. Hans buchstabierte ‘Anna’.
   ‘John spelled ‘Anna’.

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\(^{32}\) One might think that number names contain a silent light noun NUMBER. NUMBER, however, is less obviously mass since it comes with the plural, at least in English (enormous numbers of, Kayne 2005, p. 182).

\(^{33}\) Pure quotations as they occur in (53a, b) differ from pure quotations as small-clause predicates of verbs of calling and in as-phrases, where they act predicatively rather than referentially, see the Appendix.
German pure quotations in contexts as in (55a, b) take w-pronouns rather than d-pronouns:

(54) a. ‘Anna’, was / * das der Name dieser Frau ist, ist zweiseilbig.
   ‘Anna, which is the name of this woman, is disyllabic.’

   b. Hans buchstabierte ’ich’, was / * das ein Pronomen ist.
   ‘John spelled ‘I’, which is a pronoun.’

Moreover, conjunctions of pure quotations in German do not support plural anaphora:

(55) a. ‘Anna’ und ‘Marie’ sind zweiseilbig. ??? Sie sind nicht dreisilbig.
   ‘Anne’ and ‘Marie’ are disyllabic. They are not trisyllabic.’

   b. Hans schrieb ‘Ich’ und ‘Du’ an die Tafel. ??? Bill schrieb sie auch an die Tafel.
   ‘John wrote ‘I’ and ‘You’ on the blackboard. Bill wrote them on the blackboard too.’

German pure quotations thus pattern with mass NPs, which would be puzzling given the nature of expression types. However, the non-count status of pure quotations can be attributed to the presence of the light noun THING in pure quotations when they occur as expression-referring names.

As the translations of (55a, b) illustrate, conjunctions of pure quotations in English do support plural anaphora, which again is due to the fact that English plural anaphora require semantic plurality, not syntactic plurality.

6. Type 2 names in German: names for mountains, lakes, temples, and stones

Type 2 names display a different syntactic structure from type 1 names. Type 2 names involve a more specific, full sortal noun, which generally can appear overtly, as well as the definite determiner, which needs to agree with the sortal. German makes use of the construction of type 2 names for names for mountains, lakes, temples, and famous stones; other languages may make other choices. Below are examples with German names for mountains:

(56) a. der Mont Blanc, der

   b. die Zugspitze, die

   c. das Erzgebirge, das
In type 2 names for mountains, without explicit sortal, the masculine definite determiner matches the masculine gender of the German sortal Berg ‘mountain’ and obviously is indicative of its presence:

(57) a. der Fujiyama, der
    b. der Vesuv, der
    c. der Etna, der

The choice of type 2 names for mountains is rather strict. Just knowing that ‘Kailash’ is the name for a sacred mountain in Tibet, speakers have very firm intuitions that the name cannot occur on its own in argument position, but requires the masculine definite determiner: 34

(58) a. * Man darf Kailash nicht besteigen.
    ‘One is not allowed to climb Kailash.’
   b. * Kailash ist heilig.
    ‘Kailash is sacred.’
(59) a. Man darf den Kailash nicht besteigen.
    ‘One is not allowed to climb the Kailash.’
    b. Der Kailash ist heilig.
    ‘The Kailash is sacred.’

The definite determiner is not obligatory with type 2 names, though, when they are used as vocatives:

(60) (*Der) Kailash, endlich erbliche ich dich!
    ‘(The) Kailash, finally I see you!’

Also in the predicate position of small-clause complements of verbs of calling may type 2 names occur without determiner:

34 There are certain sorts of names for mountains that are exceptions to the generalization. Names for alps, for example, may be feminine (die Jungfrau, die Dent Blanche) or neutral (das Wiesmies) Such names should be considered idiomatic. There are also certain German names for places that come with a definite determiner and should similarly be considered idiomatic (die Camargue ‘The Camargue’, die Turkei ‘Turkey’).
Er nannte den Berg ‘Kailash’ / ‘den Kailash’.

‘He called the mountain Kailash / the Kailash.’

Whether a determiner appears depends on whether the calling act is directed toward the referent, involving a vocative use of the name, as in (62a), or whether it makes reference to it in the third person, as in (62b):

(62) a. Er wandte sich an den Berg als ‘Kailash’.

‘He addressed the mountain as ‘Kailash’.’

b. Er bezog sich auf den Berg als ‘der Kailash’.

‘He referred to the mountain as ‘the Kailash’’.

Examples of German names for lakes containing an explicit sortal (possibly from a different language) are der Bodensee, der Zuricher See, der Lago Maggiore. Other names for lakes require the masculine definite determiner, whose gender matches the gender of the sortal noun See ‘lake’. Again, names for lakes not familiar to a speaker trigger clear intuitions that they must go with the masculine definite determiner in argument position. Thus, just knowing that Mansarovar is a name for a lake (the lake next to mount Kailash, which is equally sacred), speakers know that the name can be used in argument position only with the masculine definite determiner:

(63) der Mansarovarsee / der Mansarovar / der See Mansarovar

‘the Mansarovar lake / the Mansarovar / the lake Mansarovar’

(64) a. I will * Mansarovar / ok den Mansarovar sehen.

‘I want to see Mansarovar / the Mansarovar.’

b. * Mansarovar / ok Der Mansarovar ist ebenso heilig wie der Berg Kailash.

‘Mansarovar is equally sacred as the mountain Kailash.’

In English, names for lakes and mountains are not type 2 names (Lake Garda / * the Gardalake, Mount Vesuvius / *the Vesuvius). This illustrates that the choice among type 1 and type 2 names for particular kinds of entities is language-specific.
Names for temples are type 2 names in both German and English. For a fairly familiar temple name, this is illustrated below: 35

(65) Wir haben * Parthenon / ok den Parthenon / ok den Parthenontempel besichtigt.
‘We have visited Parthenon / the Parthenon / the Parthenon temple.’

The masculine gender of the definite article indicates the silent presence of the sortal noun temple ‘temple’. 36

Unlike type 1 names, type 2 names always select d-pronouns and support plural anaphora:

(66) der Kailash, der heilig ist
‘the Kailash, which is sacred’

(67) Hans will den Kailash und den Mansarovar sehen. Maria will sie auch sehen.
‘John wants to see the Kailash and the Mansarovar. Mary wants to see them too.’

Concerning the syntactic structure of type 2 names, I will simply assume that the overt or silent full sortal noun forms the head of a compound as in (69a) and (69b):

(68) a. der [Mansarovar [see]N]NP
b. der [Mansarovar [e]N]NP

Such a compound structure is obligatory when forming new type 2 names whose sortal is not understood from the context, for example names for famous stones (der Hopediamand ‘the hopediamond’, der Rockefellersmaragd ‘the Rockefelleremerald’). 37

35 It is remarkable that names for churches and for temples are treated so differently in one and the same language. In German, names for churches are type 1 names, whereas names for temples are type 2 names. Names for temples are less integrated into German than names for temples, presumably because of the dominance of Christianity in German culture.

36 There are some yet to be explained differences between the construction with an overt sortal and the one with an unpronounced sortal. Thus the plural is possible in the former, but not the latter:

(i) a. die Tempel Houriaji und Toji
‘the temples Houriaji and Toji’
b. * die Houriaji und Toji
‘the (plur) Houriaji and Toji’

This suggests that a silent head noun must be singular and cannot be plural.

37 French uses close appositions instead: le diamond hope, l’emeraud Rockefeller.
The sortal in type 2 names can hardly be considered a light noun, given the variety and culture-specificity of the sortals they involve. This may present a difficulty for the generalization that only light nouns, not full nouns, can remain silent without antecedent (Kayne 2005). There is a plausible extension of the notion of antecedent, though, allowing an antecedent for a silent full noun to be found not just in the preceding discourse context, but also as an activated concept in the community that forms the background of the conversation.

Why do type 2 names select d-pronouns and support plural anaphora? There is a double reason for that: first the presence of the definite determiner and second the presence of the sortal head noun, which is clearly count, given its overt version.

Type 2 names differ syntactically from close appositions (Jackendoff 1984):

(69) the poet Goethe

Unlike in type 2 names, in close appositions the head noun is obligatory. Moreover, there are constraints on the head noun of close appositions not shared by type 2 names. For example, with person names, the head noun of a close apposition may not just be a sortal, but has to describe a professional role (??? the person Goethe). There is a natural explanation for that if a type 1 name occurs in a close apposition together with its silent light noun, so that (69) is in fact:

(70) the poet [Goethe PERSON]

It is a plausible general constraint that the head noun of a close apposition has to be a more specific sortal than the light noun that is part of the type 1 name. This is the case for nouns describing professional roles as in (70). Why then is the close apposition die Stadt Berlin ‘the city of Berlin’ is fine? That is because Stadt is more specific than PLACE, the light noun that is part of the type 1 name Berlin PLACE.

7. Conclusion

This paper has argued that the light nouns are that part of light quantifiers in English, German and other languages are also part of certain types of proper names, namely type 1 names, which in German include names for persons, places, houses, as well as productive names. Light nouns display a countability distinction, with THING, PLACE, and TIME siding with
mass (non-count) nouns and PERSON and HOUSE with count nouns. This distinction between the two sorts of light nouns explains puzzling differences in the behavior among type 1 names regarding the selection of relative pronouns and the ability to support plural anaphora.

Light nouns are not generally sortals, that is, nouns that convey the identity conditions of types of entities. In particular, THING and PLACE comprise a range of sortal concepts (material object, artifact, number, expression type, city, country, continent) and thus would only have the status of ‘dummy sortals’. Type 1 names are distinguished from type 2 names, which do not involve a light noun, but contain a specific silent or overt full sortal noun in a different syntactic structure.

What does the presence of light nouns in names mean for the semantics of names? One conclusions that can be drawn from the discussion of the role of light nouns in type 1 names is this. Since light nouns in type 1 names are not generally sortals, giving the identity conditions of the object the name stands for, they underspecify the type of entity being referred to and thus are not suited for the role of sortals that some philosophers took to be part of the meaning of names (Geach 1957, Dummett 1973). They contrast in that respect with the sortal nouns that are part of type 2 names. The function of light nouns in type 1 names thus is a somewhat different one. Note that the view about names that has become standard in philosophy of language generally does not make use of sortals; it simply says that names refer in virtue of a causal-historical chain involving previous uses of the name or else a referent-fixing schema that goes along with a productive process of name formation.

Appendix: The predicativist theory of names and the mass status of place names and productive names

This paper has presupposed the standard view about proper names: as referential terms they stand for the same individual in different circumstances of evaluation, based on a causal-historical chain (for non-productive names) and a conventional naming schema (for productive names). The mass status of German place names and productive names was then attributed to the mass status of the light nouns that make up a silent component of such name. There is an alternative to the semantics of names that has been discussed in the recent philosophical literature, namely predicativist theory (Fara 2011, 2015, Matushansky 2008). On the predicativist theory, names, when forming referential terms, act as part of a definite description with an unpronounced definite determiner, referring to the contextually unique
object bearing the property expressed by the name (being called ‘N’ or standing in a suitable contextually given naming relation to ‘N’). This theory appears to offer a simpler account of the mass status of place names in German. German place names would be based on common nouns that would themselves be mass rather than count, instead of being attributed to the mass status of the silent light noun that forms part of the name. There are a range of problems, though, for that view.

First of all, there is a general issue of linguistic plausibility for the predicativist view, which has been elaborated in the literature, in particular by Jeshion (2017) and Hinzen (2015).

Second, it is not clear how predicativism would explain the mass status of productive names. In fact it is not clear how the predicativist view applies to productive names in the first place.

Third, predicativism would have a hard time explaining why place names, if they are just common nouns, should classify as mass. Cumulativity and divisiveness, commonly considered defining characteristics of mass nouns in extensional mereological theories (Pelletier / Schubert 1989, 2003), certainly do not hold for place names: a neighborhood of Berlin is not called ‘Berlin’ again and if there was a city called ‘Berlin’ in the US, the German and the American cities would be ‘two Berlins’ and not form a single plurality called ‘Berlin’.

In fact, when names *are* used as common nouns (derivatively), they clearly are treated as count rather than mass (*the two Naples, a second Naples*). The problem does not arise on the present view, which traces the mass status of place names to the mass status of the silent noun PLACE rather than the name with its denotation by itself.

Fourth, there are linguistic differences between common nouns and names when used as predicates of small-clause complements of verbs of calling. Matushansky (2008) took it to be syntactic evidence for the predicativist theory that (1a) is syntactically parallel to the small-clause construction in (1b):

(1) a. Mary called John ‘Bill’.
   
   b. Mary called John a fool.

(1a) appears to require the name to make the same sort of semantic contribution as an ordinary predicate such as *a fool* in the small clause in (1b), namely attributing a property of the sort ‘being called ‘Bill’ (or ‘standing in a suitable contextually given naming relation R to the name ‘Bill’) (Matushansky 2008). Despite their similarities, however, (1a) and (1b) are not entirely on a par. Both (1a) and (1b) describe acts of attribution, but the acts are different
in type, involving different conditions of satisfaction and different roles of the small-clause predicates. These differences manifest themselves syntactically in German, namely in the choice of different proforms for the small-clause predicates. In German, predicational *nen nen* ‘to call’ as in (1a) goes along with the proforms *was* ‘what’ and *das* ‘that’ for the small-clause predicate, as seen in (2a, b), whereas appellative *nen nen* as in (1b) goes along with the proforms *wie* ‘how’ and *so* ‘so’, as seen in (3a, b):

(2) a. Hans nannte ihn einen Esel. Maria hat ihn das / *so* auch genannt.
   ‘John called him a donkey. Mary called him that too.’
   b. Was / *Wie* hat Maria ihn genannt? Sie nannte ihn einen Esel.
   ‘How / What did Mary call him? She called him a donkey’.

(3) a. Er nannte sie ‘Susi’. Er haette sie nicht so / *das* nennen sollen.
   ‘He called her Susi. He should not have called her so / that.’
   b. Wie / *Was* hat er sie genannt? Er nannte sie ‘Susi’.
   ‘How / What did he call her? He called her ‘Susi’.’

*Wie* and *how* are also the proforms to replace *als* (‘as’)-phrases, as below:

(4) a. Er sprach ‘Küsschen’ so aus.
   he pronounced ‘Küsschen’ so
   ‘He pronounced ‘Küsschen’ that way.’
   b. Wie sprach er ‘Küsschen’ aus?
   ‘How did he pronounce ‘Küsschen’?’

This indicates that names as small-clause predicates with verbs of calling do not contribute a property in the way ordinary small-clause predicates do. They may better be considered pure quotations, but now in a predicative function. The semantic parallelism between (1a) and (1b) then consists in that the act described by the verb of calling is one of attribution of a name (expression type) in (1a) and attribution of a property in (1b). The satisfaction conditions of the former consist in John having the name, those of the latter in John having the property. Predicative occurrences of names do not require a property-denotation for

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38 The predicativist theory is also motivated by ‘common noun’ occurrences of names as in several Marys or every Kennedy. But see Jeshion (2017) for an account of common noun uses of proper names in terms of meaning shift within the causal theory of names.
names, but can be treated as pure quotations. Note that pure quotations can also occur after
the preposition *as*, which is reserved for predicational uses of expressions. 39

(5) a. John treats Bill as a brother.
    b. John pronounced ‘Küsschen’ as ‘Kuchen’.

Predicative uses of names with verbs of calling thus motivate a more general account of
predicative quotation rather than a treatment of names as common nouns.

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39 In German, *call* itself may have to be translated by a verb taking an *as*-phrase, namely with adjectival
predicates:

(i) Er bezeichnete sie als klug.
    he called her as intelligent
    ‘He called her intelligent.’

*Nennen* ‘call’ only allows for NPs and names as small-clause predicates and not adjectives:

(ii) a. Sie nannte ihn einen Esel.
    ‘She called him a donkey’
    b. Sie nannte ihn ‘Johnny’.
    ‘She called him Johnny.’
    c. ?? Er nannte sie klug.
    ‘He called her intelligent.’
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