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Linguistic Theory Evaluation and Comparison Based on a Universal Database of Ungrammatical Sentences: The Framework

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1. Introduction¹

It is well known in linguistics that some strings of words can be accepted, whereas others cannot. This can be illustrated, using even the same set of words as in (1a-b) (an asterisk* indicates that a given string of words cannot be accepted).

- (1) a. the boy chased the girl
 - b. *boy the girl chased the

The string of words in (1a) is judged as *acceptable* or *grammatical* by native speakers of English, while that in (1b) is as *unacceptable* or *ungrammatical*.² The fact of ungrammaticality has led to the recognition that it is necessary to construct a valid theory of *syntax*, i.e., word combinations to create grammatical sentences only (e.g., Chomsky, 1957). Consequently, linguists have advanced their theorizing of human language by observing, describing, and explaining ungrammatical sentences. Ungrammatical sentences such as (1b) have been regarded as particularly important because we can infer from them what part of our knowledge of language in the individual mind/brain, which is called *I-language* ("i" for *i*ndividual, *i*nternal, and *i*ntensional, compared to extensional) (Chomsky, 1986), is responsible to the fact that a given string of words is not acceptable. In other words, ungrammatical sentences can be interpreted as the result of the violation of some grammatical rules or principles in our head.

The task of linguists within any particular theoretical framework is to observe ungrammatical sentences as in (1b), describe what rules or principles govern the fact of ungrammaticality, and explain why those rules or principles exist at all in human language. Another way of saying it is that a comprehensive model/theory of language, if any, should be able to generate all the grammatical sentences in any particular language, excluding all the ungrammatical ones. Whatever your theory of language is, it must account for every single ungrammatical sentence. In other words, it has to predict which strings of words are unacceptable.

There are (at least) two problems with pursuing the ideal theory. One is that in the previous research, a database of ungrammatical sentences available to any researchers has rarely been explored. As a result, it has been likely that linguists create their own sentences for their analyses. This causes a common criticism that in spite of being said "scientific," linguistics lacks data reliability (see Sprouse & Almeida, 2012 for a review).

One reason is that the acceptability of a sentence can be *gradient* from speaker to speaker (see, e.g., Fanselow, Féry, Vogel, & Schlesewsky, 2006). Consider the following pair of sentences, for instance:

(2) a. *Who do you expect stories about to terrify John (Chomsky, 1973: 249, (94b))
b. Of which car did they believe the driver to have caused a scandal? (cf. Chomsky, 2008: 153)

In (2a-b), *wh*-phrases (i.e., *who* and *of which car*) are extracted from the embedded subjects (i.e., *stories about* and *the driver*). Although both sentences were used as the illustration of a linguistic analysis called *subject island* from which an element cannot be extracted, a speaker, Chomsky, judged the sentence in (2a) as unacceptable and the sentence in (2b) as acceptable.³ In order to present a linguistic analysis falsifiable by further data, it is ideal to use such a sentence that every native speaker judges as ungrammatical.⁴

Another problem has to do with the fact that there are a variety of linguistic theories based on different aspects of human language. Theories of language rely on (and are interested in) different sets of data as the empirical bases for their analyses, as is often the case with generative grammar and cognitive linguistics. Generative grammar (see, e.g., den Dikken, 2013; Carnie, Sato, & Siddiqi, 2014) deals with highly formal or abstract properties as the "core" aspect of language, putting aside figurative expressions as the "peripheral" aspect of language. On the other hand, cognitive linguistics (see, e.g., Geeraerts, 2006; Geeraerts & Cuyckens, 2007) bases its theorizing on the figurative nature of language, for instance, metaphors and metonymy. Hence, it is highly difficult to compare linguistic theories and decide which is the most valid.

The goal of the current study is to resolve these two problems by exploring a database of sentences whose ungrammaticalness is to be quantitatively justified by the sufficient number of native speakers of particular languages, and establishing the theoretical framework within which linguistic theories can be compared and evaluated in terms of how each of them explains ungrammatical sentences. The subsequent sections are organized as follows. In Section 2, I propose a universal database of ungrammatical sentences for theory evaluation and comparison. In Section 3, as a demonstration of theory evaluation, generative grammar and cognitive linguistics are compared in terms of how they account for the ungrammaticality relating to anaphora and the so-called *that*-trace effect. Section 4 discusses the theoretical implications of the current study, and Section 5 concludes the paper.

2. Proposal

The database to be explored in the current study is *universal* for the following three reasons. A first reason is that ungrammatical sentences can be collected from any particular languages such as Japanese and English. Thus, we can create databases of ungrammatical sentences in any languages like the Ungrammatical Sentences in Japanese (USJ) database and the Ungrammatical Sentences in English (USE) database. A second reason is that the ungrammaticalness of each collected sentence can be experimentally examined by native speakers of any languages. To overcome the problem of data reliability, we can conduct quantitative experiments with native speakers, using psycholinguistic techniques such as questionnaire, self-paced reading, and eye-tracking reading (see, e.g., Ferreira, 2005). A final reason for why the database is universal is that its results can be made open to linguists for their analyses taking any approaches to human language. For example, generative

grammar and cognitive linguistics have constructed their theories on the basis of different sets of the empirical data, as pointed out above. However, ungrammatical sentences to be listed up in the database should be ones that have to be accounted for within any theoretical frameworks such as generative grammar, cognitive linguistics, simpler syntax, construction grammar, and so forth (see Borsley & Borjars, 2011; Carnie, Sato, & Siddiqi, 2014 for comprehensive summaries of those frameworks).

In what follows, I propose possible pieces of the information that should at least be included in the database.

Source

Source information such as author names, years of publication, article/book titles, cities of publication, publisher names/journal titles is included in the database as in (3).

(3) Example of source information

Chomsky, Noam (1973) Conditions on transformations. In: Stephen R. Anderson and Paul Kiparsky (eds.), *A Festschrift for Morris Halle*, pp. 232-286 New York Holt, Rinehart and Winston

This makes it easy for researchers to refer back to the article and book in question when they use the database for their analyses.

Sentences

Ungrammatical sentences collected from articles and books are listed up in the database with their individual numbers and page numbers in the articles and books as in (4).

(4) Example of sentence information

* Who do you expect stories about to terrify John (94b) p. 249

These kinds of information are useful for researchers to cite the sentences in their studies. If applicable, the names of phenomena are also helpful to sort out sentences of interest for analysis (e.g., Wh-*question* in the case of (4)). It is important to include the grammatical counterparts in the database as long as they are available in the articles and books under consideration. The reason is that we can obtain insights into the ungrammaticality by comparing ungrammatical sentences with their grammatical counterparts.

Experimental Results

The results of psycholinguistic experiments are included in the database in order to resolve the issue of data

reliability of each ungrammatical sentence. A variety of techniques such as questionnaire, self-paced reading, and eye-tracking reading are available to conduct experiments.⁵ For example, in the simplest case we can ask the experimental participants about their acceptability of a sentence, using a questionnaire with "yes" (i.e., acceptable) and "no" (i.e., unacceptable) answers. The results can be summarized in terms of the technique used, the number of participants, and the number of responses, for example, as in (5).

- (5) Example of experimental information
 - Questionnaire (*acceptable* versus *unaccepatble*) 30 participants 28 *unacceptable* responses

In addition to the experimental results in (5), the information about participants such as ages, genders, cities of birth, language experiences, and so on is also useful for researchers to judge whether or not the ungrammaticalness of the sentence in question is reliable for their analyses.

Including such kinds of information as seen in (3)-(5), a database can be constructed for any particular language. As a demonstration, I created a sample USE (Ungrammatical Sentences in English) database in Appendix below, collecting unacceptable strings of words (i.e., ungrammatical sentences) in English (and their grammatical counterparts, if available) from three books: Kayne, Leu, and Zanuttini (2014); den Dikken (2013); and Geeraerts and Cuyckens (2007).^{6,7,8} The first book deals with syntax in general, and the second and third ones are specifically about generative grammar and cognitive linguistics, respectively, which are the two linguistic theories to be evaluated and compared below. The procedure for constructing such a database as Appendix is as follows:

- (6) Steps to construct a database
 - i. To collect ungrammatical sentences (and their grammatical counterparts) from articles and books.
 - ii. To list up source information such as author names, years of publication, article/book titles, cities of publication, and publisher names/journal titles.
 - iii. To list up sentence information such as individual numbers and page numbers in the article and book in question and, if applicable, the names of phenomena.
 - iv. To conduct the relevant experimentation for data reliability, and list up the experimental results such as the techniques used, the numbers of participants and of responses.

Firstly, we collect ungrammatical sentences from articles and books of linguistics. Secondly, source information is listed up in the database as *Author(s)*, *Year*, *Title*, *City of Publication*, *Publisher/Journal Title* show in Appendix. In addition, sentence information should be also included as seen in *Sentence*, *Number*, and *Page* in Appendix. Finally, we should design the relevant experiments to guarantee the data reliability, and list up the experimental results in the database. The simplest possibility is acceptability judgments only with "yes" and "no" answers. That is, we would ask the experimental participants to judge whether the sentences in Appendix are acceptable or not.

3. Theory Evaluation and Comparison⁹

In this section, I demonstrate how to evaluate and compare two linguistic theories, using an USE database as in Appendix. The two linguistic theories are the Chomskyan *Generative Grammar* within the Minimalist Program (Chomsky, 1995 et seq.) and *Cognitive Linguistics*, a term covering cognitively-oriented approaches such as Cognitive Grammar (Langacker, 1987 et seq.) and the Mental Space theory (Fauconnier, 1994). In this paper, we focus on two out of many phenomena in Appendix, anaphora and the so-called *that*-trace effect, which will be explained below, for the evaluation and comparison of the two theories. In what follows, I first summarize the underlying assumptions of the two linguistic theories (§ 3.1 and § 3.2), and then evaluate and compare those theories in terms of how their assumptions account for the ungrammaticality relating to anaphora and the *that*-trace effect (§ 3.3).

3.1. The underlying assumptions of the Minimalist Program

As the underlying assumptions of Generative Grammar within the Minimalist Program (henceforth, MP), we adopt the following technical machinery (see, e.g., Boeckx, 2011; den Dikken, 2013; Carnie, Sato, & Siddiqi, 2014):

- (7) Technical machinery in the MP
 - a. recursive free Merge (or Merge α)
 - b. interface conditions
 - c. natural laws

The most fundamental assumption of the MP is that the domain-specific faculty of language is hard-wired in human biology. Recursive free Merge (we call it "Marge α ") in (7a) takes two syntactic objects, X and Y, and forms a set, {X, Y}, containing them without linear order. Merge α is assumed as an only one operation included as virtual conceptual necessity in the initial state of the language faculty (often called Universal Grammar, or UG for short) because such simplest combinatorial operation should be included in every computational system like human language. However, interface conditions in (7b) are imposed on the outcome of Merge α from two language-external systems (sensorimotor and conceptual-intentional) for "sounds" and meanings (these two interfaces are also virtual conceptual necessity in terms of the human mind/ brain). Furthermore, the MP assumes that natural laws in (7c) such as Minimal Computation restrict the application of Merge α as well as its outcome.

3.2. The underlying assumptions of Cognitive Linguistics

As the underlying assumptions of Cognitive Linguistics (hereafter, CL), we adopt the following technical machinery among others (see, e.g., Geeraerts, 2006; Geeraerts & Cuyckens, 2007):

- (8) Technical machinery in the CL
 - a. construal
 - b. categorization

- c. analogy (or metaphor)
- d. figure and ground
- e. mental spaces

The approaches within CL do not assume in advance anything domain-specific to human language, but language is assumed as an interaction of human cognitive ability. Those listed up in (8) are instantiations of the cognitive ability and all domain-general in that they can be used not only in language but also in other cognitive activities such as vision, memory, information processing, and so forth. Construal in (8a) is an ability to view things from different perspectives (e.g., active versus passive voices), categorization in (8b) is an ability of grouping things, and analogy or metaphor in (8c) is an ability to find the similarities between or among things. The figure/ground distinction in (8d) is that humans can perceive things in terms of the distinction between foreground and background, and metal spaces in (8e) are the conceptual regions of information that humans can form freely.

3.3. Evaluation and comparison of the MP and CL: A demonstration

In this paper, as a demonstration, I pick up two phenomena in Appendix and examine how the generative and cognitive linguistic assumptions in (7)–(8) above account for them. The two phenomena are anaphora in (9) and the so-called *that*-trace effect in (10a-b).

- (9) *I saw me (in the mirror). (cf. Chomsky, 1973: 241, (42a))¹⁰
 - cf. I saw myself (in the mirror).
- (10) a. *Who do you think that will win the prize?
 - b. Who do you think will win the prize? (cf. Kayne, Leu, & Zanuttini, 2014: 391, (88a-b))

In (9), in the same clause the personal pronouns like *me* cannot be used if they refer back to the subject. Instead, the reflexive pronouns like *myself* have to be used if they have co-reference with the subject. In (10), if *wh*-phrases like *who* is extracted from the embedded subject position, the complementizer *that* has to be deleted as (b) shows; otherwise, the sentence in question becomes unacceptable as seen in (a).

As for anaphora in (9), the MP assumes an interface condition such as that pronominals like *me* cannot be linked locally with their antecedent DPs (Determiner Phrases) like I due to their lexical features, excluding the sentence in (9) as ungrammatical. CL, on the other hand, assumes two metal spaces for *me* (being reflected in the mirror) and I (being physically in front of the mirror) and, interestingly, does not exclude the sentence in (9) as ungrammatical in the relevant contexts (Fauconnier, 1994). This option is impossible in the "standard" Binding Theory (Chomsky, 1981) in which the reflexives like *myself* and the pronominals like *me* are in complementary distribution as seen in (9).

For the *that*-trace effect as in (10), the MP assumes Minimal Computation as a natural law, imposed on computational systems like human language, to restrict the computational domain called a *phase* (assumed as (at least) v^*P (little verb Phrase) and CP (Complementizer Phrase)).¹¹ The ungrammaticality of the sentence in (10a) is accounted for by the existence of the complementizer *that* as the phase head, C, because due to it, *who* is forced at this embedded CP phase to *transfer* to the interfaces and becomes inaccessible to the next

phase, resulting in the computational crash. The grammaticality of the sentence in (10b) is explained by the deletion of the complementizer because thanks to it, there is no problem with derivation by phase (Chomsky, to appear).¹² On the other hand, CL would assume that the complementizer *that* is not meaningless, as generally assumed in the MP, but indeed meaningful, and that the meaning of *that* blocks the question formation in the sentence in (10a). Without *that*, the question formation would be assumed as possible in the sentence in (10b). This kind of appeal to the meaning of *that* is dubious even if the meaning in question would be any sort.¹³

4. Discussion

In this paper, I have proposed the theoretical framework to (i) construct a universal database of ungrammatical sentences in human languages and (ii) to evaluate and compare linguistic theories in terms of how they can explain each ungrammatical sentence listed up in the database. First, the conception of a universal database has theoretical implications for future research. As demonstrated in English, a database can be constructed for any particular languages, using the procedure summarized in (6) above. A universal database, if any, in which ungrammatical sentences in every language are listed up would be useful to researchers for their analyses because the ungrammaticalness of each sentence in the database would be attested empirically for the problem of data reliability. As pointed out in Section 1 above, it is highly difficult to compare theories of human language because they rely on different sets of data as the empirical evidence for their analyses. For this problem, a universal database can be used as the common measure, and we can compare and evaluate linguistic theories by examining whether each of them accounts for every single ungrammatical sentence. In addition to such between-theory evaluation, we can do within-theory evaluation, and obtain insightful information as to how the theory under consideration should be revised to capture the nature of human language more comprehensively.

Second, the evaluation and comparison of the Minimalist Program (MP) and Cognitive Linguistics (CL) also has theoretical implications. Both the MP and CL have their own limitations to fully explain the fact of ungrammaticality. For the MP, *features* as the atomic elements of Merge α need to be assumed in order to explain, for example, the selectional restrictions on the two syntactic objects to be merged as seen in the case of anaphora in (9) above. A natural criticism is on how too abstract features such as unvalued features could be motivated empirically and incorporated into the MP assumptions in (7) (cf. Boeckx, 2015). As for CL, we have seen that highly formal or abstract properties are involved in the ungrammaticality as shown in the that-trace effect in (10a-b) above.¹⁴ A natural criticism is on how those properties could be captured only in terms of domain-general cognitive ability as in (8). The MP seeks the most minimal UG under the Strong Minimalist Thesis (SMT): Merge α (UG)+Interfaces=Language (see, e.g., Sauerland & Gärtner, 2007; Almutairi, 2014 for discussions on the SMT). It also pursues a principled explanation for human language by reducing technical stipulations to interface conditions and natural laws as the so-called "third factor." If Merge α is derived from human cognitive ability in the sense of CL, we could reach a more principled explanation for language beyond the SMT. In order to construct such a new theory of human language, we should critically compare and eventually unify generative and cognitive linguistic insights into the ungrammaticality. Along the same line, future research needs to evaluate and compare other linguistic theories such

as simpler syntax, construction grammar, and so on (for comprehensive summaries of those theories, see Borsley & Borjars, 2011; Carnie, Sato, & Siddiqi, 2014).

5. Concluding Remarks

The theoretical framework has been proposed for (i) the construction of a universal database and (ii) the linguistic theory evaluation and comparison based on ungrammatical sentences in the database. It leads us to explore a new approach to the linguistic theory evaluation and comparison, using the database of ungrammatical sentences as the common measure. For theory construction, the question is which theory is able to capture the largest number of ungrammatical sentences in the database. Although time-consuming, ungrammatical sentences should be collected more thoroughly from as many articles and books as possible to construct a universal database. Once constructed, the database will be available to all linguists for their further inquiry of particular languages and human language in general. Each ungrammatical sentence in the database to be offered in future research is a piece of intriguing puzzles of what human language is like and of what kind of creatures we humans are.

The followings are future issues and suggestions for further research.

Issue 1: What kinds of data should we analyze to construct a theory of human language?

As we have seen above, a single data such as anaphora in (9) can be analyzed differently from different perspectives such as the Minimalist Program (MP) and Cognitive Linguistics (CL). Thus, the following kinds of data are worth analyzing in further research:

- (11) The relevant kinds of data worth analyzing in future research within the MP and CL
 - a. The data explainable by the MP but not by CL, such as the *that*-trace effect in (10a-b) above.
 - b. The data explainable by CL but not by the MP.

(e.g., He sneezed the napkin off the table. (Geeraerts & Cuyckens, 2007: 758, (4)))

- c. The data explainable neither by the MP nor by CL.
- d. The data predicted as OK (grammatical) by the MP but as NG (ungrammatical) by CL.
- e. The data predicted as OK by CL but as NG by the MP, such as anaphora in (9) above.

We should discover those kinds of data in (11) in the database like Appendix and attempt to construct a comprehensive theory beyond (at least) the MP and/or CL.

Issue 2: What kind of model/grammar should be a valid theory of human language?

As the MP analysis suggests, we have to assume that the properties of "words" are involved in the un/ grammaticality. Since words (or features) are virtual conceptual necessity as the building blocks to create (grammatical) sentences, any linguistic theory should characterize them. As the CL analysis implies, the relevant context (or *usage*) influences the un/grammaticality even if it is intra-sentential. Thus, we have to explicate what kinds of conditions or constraints are imposed on the creation of sentences. Finally, as the data of *that*-trace effect in (10a-b) above show, we have to assume some formal or abstract properties in order to account for the ungrammaticality. In sum, the followings should be assumed, within any theoretical framework, as a valid theory of human language (or grammar):

- (12) The elements indispensable for the architecture of grammar
 - a. the properties of words (or features)
 - b. the context in which the sentence in question is created
 - c. some formal or abstract properties related to sentence structure

The conception of Merge α seems on the right track to account for the fact that we can create any sentences that have never been produced or comprehended. The simplest idea is that we humans can combine any two objects, X and Y, to create sentences. At the same time, however, we cannot ignore the properties of each object (=(12a)). Moreover, those properties can be influenced by the context in which they are used (=(12b)). Finally, even if (12a-b) are satisfied, the creation of sentences appears to be constrained by its mechanism, which we have called "syntax" (=(12c)). The intriguing questions for future research are whether more elements than (12a-c) have to be assumed for a valid theory of human language, and whether those elements in (12a-c) are innate or not (in other words, language-specific or not).

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Notes

- The current paper is an extended version of the manuscript (Yamada, 2015) presented at TL/MAPLL 2015 at Tsuda College on August 5th, 2015. I thank the audience for their valuable comments.
- 2. In this paper, I use the terms (*un*)acceptable and (*un*)grammatical interchangeably. See Sprouse, Schütze, and Almeida (2013) for the recent discussion on those terms.
- 3. Notice that what is extracted is different in (2a) and (2b) in that it is the complement of the prepositional phrase in the former, while it is the prepositional phrase as a whole in the latter. This may make a difference in judgment. I thank Janet Dean Fodor for her comments on this point during my presentation at TL/MAPLL 2015. Note, however, that I asked several native speakers of English (informally) about the sentence in (2b), and some of them judged it as unacceptable. This reflects the speaker-variability of ungrammaticality after all.
- 4. The I-language theory of Chomsky (1986 and subsequent work) suggests that our linguistic knowledge may be slightly different from individual to individual even in the same community of a particular language, for example, English. As a consequence, the sentence in (2b) is acceptable for some native speakers of English but unacceptable for others (see footnote 3). It might be the case that every native speaker of English has his/her own differently individualized knowledge of language, which is called *grammar*. However, it is also the fact that there are sentences that are excluded by English grammar without exception. The string of words in (1b) is an example of those sentences. Using such *unexceptionally ungrammatical* sentence, we would be able to present a falsifiable linguistic analysis. I thank Douglas Roland for his discussion on this issue with me during my presentation at TL/MAPLL 2015.
- 5. The way of asking the experimental participants to read ungrammatical sentences has to be well designed; otherwise, they would read sentences, including grammatical ones, always considering the issue of grammaticality, which hinders their normal reading. I thank Chunhua Bai for this point during my presentation at TL/MAPLL 2015.
- 6. Although the chapters in the three books are extracted from the papers of distinct authors, I specify the citations by the

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books' page numbers without reference to those authors (just for simplicity).

- 7. To construct a more comprehensive database, we have to collect ungrammatical sentences from much more books and articles. In this paper, however, I selected these three books just due to the space limitation.
- 8. Notice in Appendix below that, in the comparison of the data between the second and third books, generative syntax heavily depends on ungrammatical sentences as the empirical evidence for theory construction. This does not imply that a linguistic theory dependent on ungrammatical sentences is inherently superior to others independent on them. Nevertheless, it suggests that for generative grammar and cognitive linguistics, what is assumed as the "core" data is different.
- 9. In what follows, we focus on two linguistic theories, generative grammar and cognitive linguistics. This by no means suggests that other framework are not worth considering. For example, functional syntax, a kind of unification of generative and cognitive linguistic insights, may be promising (e.g., Kuno & Takami, 1993, 2007). We also focus on sentences in English as the empirical data. This never means that other languages are not appropriate for theory evaluation and comparison. Depending on the phenomena in question, other languages are much better because it may be the case that the relevant properties for analysis are difficult to surface (i.e., unobservable) in English sentences. This suggests that if the theoretical framework to be offered in the current paper is on the right track, we have to collect ungrammatical sentences in other languages as well in the spirit of a *universal* database. For now, this is, of course, left for future research.
- 10. This representative example was extracted from Chomsky (1973) instead of Appendix below.
- 11. See Chomsky (2001) for the framework of *derivation by phase*, and see also Chomsky (2013, 2014, 2015a, 2015b, 2015c) for Minimal Computation.
- 12. See Rizzi and Shlonsky (2007); Sobin (1987, 2002) for the exceptions to the *that*-trace effect as in (i-ii), where the insertion of an adverbial expression appears to blind the effect.
 - (i) a. *An amendment which they say that will be law next year
 - b. An amendment which they say that, next year, will be law
 - (ii) a. *Which doctor did you tell me that had had a heart attack during an operation?

b. Which doctor did you tell me that, during an operation, had had a heart attack?

(cf. Kayne, Leu, & Zanuttini, 2014: 391, (83a-b), (84a-b))

- 13. Cf. Bolinger (1977) for the meaning of the complemetizer that.
- 14. Cf. Hasegawa (2003) for a syntax-phonology interface account of the that-trace phenomenon, which is consistent with CL.

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Appendix: A Sample USE (Ungrammatical Sentences in English) Database

Note that the sentences here were extracted (with the notations and italics) only from the numbered examples in the respective books, excluding both the data with no numbers in the main text and the data in notes. Also note that the grammaticality judgments depend on the author(s) of papers in question (an asterisk (*) stands for the unacceptability, a question mark (?) means that the sentence may be unacceptable, and a hash mark (#) means that the sentence is pragmatically infelicitous). The reliability of those judgments should be critically examined with more empirical or experimental evidence. I defer it to future research.

For the following references, the chapter information (underlined) is provided, only if the relevant data are presented in the chapter, instead of the author(s) of each chapter (i.e., paper).

The three books' information is listed up in Table 1. Sentences from Kayne, Leu, and Zanuttini (2014); den Dikken (2013); and Geeraerts and Cuyckens (2007) are listed up in Tables 2, 3, and 4, respectively below. In Tables 2-4, the column of *Phenomenon* is excluded because the relevant names are not available in some cases. The columns of *Expt. Technique*, # of *Informants*, and # of *Responses* are also excluded, but they should be included in the database eventually with the relevant experimentation in future studies.

Author(s)	Year	Title	City of Publication	Publisher/Journal Title
Kayne, Richard S., Thomas Leu, & Raffael- la Zanuttini (Eds.)	(2014)	An annotated syntax reader: Lasting insights and questions	West Sussex	Wiley-Blackwell
Den Dikken, Mercel (Ed.)	(2013)	The Cambridge handbook of genera- tive syntax	Cambridge, UK	Cambridge University Press
Geeraerts, Dirk & Herbert Cuyckens (Eds.)	(2007)	The Oxford handbook of cognitive linguistics	Oxford	Oxford University Press

 Table 1
 The three books' information

Table 2 Sentences from Kayne, Leu, and Zanuttini (2014)

Chapter 1I met the one who Lucille divorced $23a$ 17I met the man who Lucille divorced $23b$ 17I met the one $26a$ 17I met the man $26b$ 17I ate the one Schwartz gave me $24a$ 17I ate the apple Schwartz gave me $24b$ 17I ate the one $27a$ 17I ate the apple Schwartz gave me $24b$ 17I ate the one $27a$ 17I ate the small one $25a$ 17I bred the small lion $25b$ 17*I bred the one $28a$ 18I bred the lion $28b$ 18did you see us guys $36a$ 19who insulted you men $36b$ 19*did you see Bill, who is six feet tall $33a$ 19*he didn't like us Americans $36c$ 19he didn't eat the mango, which I bought for him yesterday34a19*he didn't write a novel, which was banned as obscene $34b$ 19none of you guys are any good $36e$ 19none of us professors is quitting $36f$ 19*none of the cars, which were Chevrolets, were any good $35b$ 19*none of the cars, which were Chevrolets, were any good $35b$ 19*none of the cars, which were Chevrolets, were any good $35b$ 19*none of the cars, which were Chevrolets, were any good $35b$ 19*none of the cars, which were Chevrolets, were any good $35b$ 19*none of the cars, which were first </th <th>Sentence</th> <th>Number</th> <th>Page</th>	Sentence	Number	Page
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For him to eat cabbage means nothing. 3b 27	For him to eat cabbage means nothing.	3b	27

This means that he is of low birth. *This means for him to be of low birth. They decided that their children were happy *They managed that their children were happy *They decided for their children to be happy They managed for their children to be happy *They decided their children's being happy *They managed their children's being happy *That they imagined it We {*believed/ inquired} whether he was there We { believed/*inquired} that he was there We { believed/*inquired} that he was there For him to eat cabbage means nothing=It means nothing for him to eat cabbage means that he will be sick That John eats cabbage implies that he likes cabbage The first statement implies the second statement The first statement is true implies the second statement Susie didn't tell {*that they had eaten/whether they had eaten} Susie didn't tell stories —but not necessarily to anyone. (Often I just spin a yarn for my own benefit.) *I always like to tell stories to someon —but not necessar- ily to anyone — which is overtly contradictory. *He was alone was obvious from the report	3c 3d 5 5 5 5 5 5 7 7 18 19 23 24 25 26 27 28 29 30	27 27 28 28 28 28 28 28 30 31 31 31 31 31 31 32 32 32 32
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?*What did John fall asleep [after Mary had bought]?	31	1
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*writes books	18a	1
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Who did you think that Cara would propose that we send to France?	33a	1
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(frankly/openly) talk (frankly/openly) to one's child/about the problem	35b	18
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*John are dinner the fork the ship sank (*to collect the insurance)/(*by the torpedo)	28a	2
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*John are dinner the fork the ship sank (*to collect the insurance)/(*by the torpedo) the ship was sunk (to collect the the [sic] insurance)/ (by the torpedo)		2
*John are dinner the fork the ship sank (*to collect the insurance)/(*by the torpedo) the ship was sunk (to collect the the [sic] insurance)/ (by the torpedo) *physics knows easily *the wall hits easily	28b 30a 30b	2 2 2
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*John destroyed the city into cinders	73c	315
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that Mary was right]	14	329
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on sand is a prerequisite	15a	330
??if it, is going to last, PRO, not (to be) built on sand is		
a prerequisite	15b	330
?? if it, is going to be obvious that we're the right people,		
PRO_i {to be/being} evident that we know what we're	15c	330
doing is important	100	
*if it, is going to be obvious that we're the right people,		
PRO_i {to seem/seeming} that we know what we're	15d	330
doing is important	ieu	
*its likelihood that Julia will arrive on time is a relief	16a	330
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Mary considers that {an island/*?Schiermonnikoog}	41	341
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I consider John in {??London/a good mood}	42b	342
I don't know who _i the culprit was t_i (if it wasn't Jennifer)	44 a	343
*I don't know [which student] _i the culprit was t_i	44b	343
*I don't know what, the cause of the riot was their	44.	242
announcement of t_i	44c	343
Ahab is the best man for the job, isn't he/*it?	46 a	343
The best man for the job is Ahab, isn't *he/it?	46b	343
The winners were Federer and Williams, {weren't they/		
*wasn't it}?	48 a	343
Federer and Williams were the winners, even though they		
don't look {*them/it}	48b	343
John guessed the winner of the Oscar for best actress	49 a	344
before I guessed {it/*her}		
John guessed the winners before the committee announ-	49b	344
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John is the one thing that I want a man to be-honest	50	344
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*John will show herself _i Sue _i (in the mirror)	66b	382
John will show Sue_i to $herself_i$	67a	382
??John will show herself _i to Sue_i	67b	382
the Italian invasion of Albania *the invasion Italian of Albania	93a 93b	390 390
Peter kissed [an extremely pretty girl]		390
*[Extremely pretty], Peter kissed a t _i girl	103a 103b	393 393
Peter kissed [a girl with red hair]	104a	393
*[With red hair] _i Peter kissed [a girl t_i]	104b	393
* Whose did you kiss sister	105a	393
* Who did you kiss-se sister?	105b	393
Whose sister did you kiss?	105c	393
*How _i do you think he is $[t_i \text{ dependent on his sister}]$? [How dependent on his sister] do you think he is?	133a 133b	400 400
[How heavily] _i do you think he is $[t_i \text{ dependent on his}]$		
sister]?	134a	401
[How heavily dependent on his sister] do you think he is?	134b	401
Chapter 12		
*John not sees Mary	13a	429
John does not see Mary	13b	429
John is usually often obliged to stay home	30a	436
*John is often usually obliged to stay home	30b	436
the book that, tomorrow, I will give to Mary	81a 81b	453
??the book that, to Mary, I will give tomorrow *this is the man who I think that will sell his house next		453
vear	82a	453
this is the man who I think that, next year, will sell his	0.2L	453
house	82b	455
*this is the man who I think that, his house, will sell next	82c	453
year		
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fearful of Bill	39a	473
*fearfully of Bill	39b	473
honestly I am unfortunately unable to help you *unfortunately I am honestly unable to help you	63a 63b	480 480
fortunately, he had evidently had his own opinion of the		
matter	63c	480
*evidently, he had fortunately had his own opinion of the	63d	480
matter		
clearly John probably will quickly learn French perfectly *probably John clearly will quickly learn French perfectly	63e 63f	480 480
probably he once had a better opinion of us	63g	480
once he probably had a better opinion of us	63h	480
he was then certainly at home	63 i	480
*he was certainly then at home	63 j	480
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John often kisses Mary	2 a	494
*John kisses often Mary	2b	494
*John did kiss Mary (<i>did</i> unstressed, non-contrastive)	5	495
Whom ₁ did John persuade t ₁ [to visit whom ₂]?	11a 11b	503
*Whom ₂ did John persuade whom ₁ [to visit t_2]? *there is likely [someone to be t in the room]	18a	503 505
*there is likely [someone to be t_{someone} in the room] there is likely [t_{here} to be someone in the room]	18a 18b	505 505
I expected [someone to be $t_{someone}$ in the room]	19a	506
*I expected $[t_1 \text{ to be someone in the room}]$	19b	506
Chapter 15 ("italics in the examples indicate that two the coconstrued" (n 516))))	erms are	to
be coconstrued." (p.516)))) * George loves him.	7	518
even Bill hates Bill's mother	13a	521
*crazy Bill hates (crazy) Bill's mother	13a 13b	521 521
*the man <i>who he</i> praised <i>t</i> left town	130 14a	522
??the man <i>who his</i> mother praised <i>t</i> left town	14b	522
the man who t praised his mother left town	14c	522
??his mother loves everyone	15a	522
everyone loves his mother	15b	522
John loves everyone. *Mary likes him/them too.	19a	523
the men [sic] love themselves/each other/*them	33a	529
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the men expected that they/?*each other/*themselves	33b	547
would be happy		
	33c	529

the men expected me to love them/*each other/*them-	33d	529
selves	330	529
they/*themselves/*each other implicated themselves/ each other	33e	529
PRO_i to praise <i>himself_i</i> /* <i>him_i</i> /* <i>the guy_i</i> would upset John _i	37 a	531
PRO _i to praise * himself _i /him _i /the guy_i would upet John _i	37b	531
Mary saw a/*Bill's description of herself	40a	533
Melba thinks that she is smart	41a	534
Melba lifted her book	41b	534
*Melba forgave her	41 c	534
Paul praised himself /* him	56	541
Esther expects herself /* her to win	60a	542
Sam seems to himself /* him to be smart	60b	542
Parish praised himself /* him Thora thinks that she/* herself is smart	63a 63b	544 544
*Look! It's himself. (Accompanied, perhaps, by pointing	77	557
gesture)	79.0	550
* Alice introduced John to each other's accountant(s) Charlotte introduced Emily to their accountant	78a 78b	558 558
the boys expect each other to be honorable	86a	563
the boys read each other's/their/* themselves books	86b	563
	000	505
Chapter 16 *Kim _i seemed for Pat to believe \i to know the answer	8	579
Which artist _i do you admire paintings by \i ? ?/*Which artist _i do you expect paintings by \i to sell the	14a	580
best?	14b	580
it was easy for Jones to force Smith to leave	15a	580
Smith was easy for Jones to force to leave	15b	580
it was easy for Jones to expect Smith to leave	16a	580
*Smith was easy for Jones to expect to leave	16b	580
there is likely to be a riot	19	581
*there decided to be a riot	20	581
the governor decided to withdraw the resources from the program	23	582
*the crisis decided to withdraw the resources from the program	24	582
*the police's appearance (to the protesters) to stay calm	26 a	582
*Kim's consideration of Pat to be a good role model	26b	582
the police's intention to stay calm	27 a	582
the police's appeal to the protesters to remain calm	27b	582
Which senator did she persuade the staff of to give her an internship?	33a	583
*Which senator did she expect the staff of to give her an internship?	33b	583
the DA proved none of these defendants to be guilty	47 -	500
during any of the trials	47 a	588
*the DA proved that none of these defendants was guilty during any of the trials	47b	588
Mary _i said that her professor _j decided $\{*i/j}$ to apply for a grant	55a	593
Mary _i said that her professor _j wondered whether $\underline{}_{i/j}$ to	55b	593
apply for a grant	61	505
John prayed to Athena to take care of herself/*himself	61	595
Pat persuaded Kim to run the race Kim was persuaded by Pat to run the race	81a 81b	603 603
Kim promised Pat to run the race	82a	603
*Pat was promised by Kim to run the race	82b	603
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I expect Mary to come/*comes	6a	610
I hope that Mary comes/*come	6b	610
Mary is/was coming	7a	611
*Mary are/were comings	7b	611
Mary does not help	8a	611
*Mary do not helps		<i>(</i> 1
Does Mary help?	8b	611
*Do Mary helps? John helps and Mary does too	8c	611
*John helps and Mary do too		
five linguists are/*is in the room	13a	614

there are/??is five linguists in the room	13b	614
<u>five linguists seem</u> /*seems to be in the room	13c	614
there seem/??seems to be five linguists in the room	13d	614
*there seem to some linguists that agreement is a fascinat- ing topic (Compare: it seems to some linguists that agree-	16	616
ment is a fascinating topic)	10	010
there seem to be five linguists in the room	17a	616
*there seem that five linguists are in the room (Compare:		
it seems that five linguists are in the room)	17b	616
Mary is a linguist/*linguists	42a	631
they are linguists/*a linguist	42b	631
*John seems-has solved the problem	48a	636
John seems – to be have solved the problem	48b	636
it seems (that) John has solved the problem	48c 49a	636
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Little Red Riding Hood believed the wolf	65a	646
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the wolf was widely believed	65c	646
that it would rain was widely believed	65d	646
*it/there was widely believed the wolf	65e	646
it was widely believed that it will rain	65 f	646
that Chris will declare bankruptcy is unfortunate	67a 67b	648 648
*Chris to declare bankruptcy would be unfortunate (PRO) to declare bankruptcy would be unfortunate	67c	648
for Chris to declare bankruptcy would be unfortunate	67d	648
Chapter 18 (ec: empty category, or a trace)		
Who would you approve of my seeing <i>ec</i> ?	3a	658
*How intelligent do you have a <i>ec</i> sister?	3b	658
I spoke to the man who kissed Mary		
* Who did you speak to the man who kissed ec?	7a	660
I kissed Mary and Sue		
* Who did you kiss Mary and ec?	7b	660
that he kissed Mary was surprising * Who was that he kissed ec surprising?	7c	660
they had expected that they would find the treasure said	70	000
to have been buried on that island since 1932		
*they had expected that they would find ec since 1932 the	7d	661
treasure said to have been buried on that island	/u	001
he told me about a book which I can't figure out whether	8a	661
to buy <i>ec</i> or not		
he told me about a book which I can't figure out how to read <i>ec</i>	8b	661
he told me about a book which I can't figure out where		
to obtain ec	8 c	661
to obtain <i>ec</i> he told me about a book which I can't figure out what to do about <i>ec</i>	8c 8d	661 661
to obtain <i>ec</i> he told me about a book which I can't figure out what to do about <i>ec</i> he told me about a book which I can't figure out why he		
to obtain <i>ec</i> he told me about a book which I can't figure out what to do about <i>ec</i> he told me about a book which I can't figure out why he read <i>ec</i>	8d	661
to obtain <i>ec</i> he told me about a book which I can't figure out what to do about <i>ec</i> he told me about a book which I can't figure out why he read <i>ec</i> ? he told me about a book which I can't figure out	8d	661
to obtain <i>ec</i> he told me about a book which I can't figure out what to do about <i>ec</i> he told me about a book which I can't figure out why he read <i>ec</i> ? he told me about a book which I can't figure out whether I should read <i>ec</i>	8d 9a	661 661 661
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when	8d 9a	661 661
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when I should read ec	8d 9a 9b 9c	661 661 661 661
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when	8d 9a 9b	661 661 661
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when I should read ec Which books did he tell you {?whether/??when} he wanted to read ec?	8d 9a 9b 9c	661 661 661 661
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when I should read ec Which books did he tell you {?whether/??when} he	8d 9a 9b 9c 10	661 661 661 661 661
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when I should read ec Which books did he tell you {?whether/??when} he wanted to read ec? *Who was that he kissed ec surprising?	8d 9a 9b 9c 10 14a	661 661 661 661 661 664
to obtain ec he told me about a book which I can't figure out what to do about ec he told me about a book which I can't figure out why he read ec ? he told me about a book which I can't figure out whether I should read ec ??he told me about a book which I can't figure out when I should read ec Which books did he tell you {?whether/??when} he wanted to read ec? *Who was that he kissed ec surprising?	8d 9a 9b 9c 10 14a 14b	661 661 661 661 661 664 664
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668

*What did John {work/paint this picture} whistling ec? 24a *Which letter did John break a glass before/after writing 24b

*Which letter did John break a glass before/after writing	24b	668
ec?	2.	
Who do you think (that) John invited <i>ec</i> ? Who do you think (*that) <i>ec</i> invited Mary?	26a	669
	26b 27 a	669 669
Who would you prefer (for) John to invite <i>ec</i> ? Who would you prefer (*for) <i>ec</i> to invite Mary?	27a 27b	669
John will be invited	270 29a	670
Will John be invited?	29a 29b	670
*Be John will invited?	290 29c	670
John seems to be invited	30a	671
*John seems that it/there will be invited	30a 30b	671
How do you think that he behaved ec?	31a	671
* <i>How</i> do you wonder why he behaved <i>ec</i> ?	31b	671
<i>*How</i> don't you think that he behaved <i>ec</i> ?	31c	671
<i>*How</i> did he deny that he behaved <i>ec</i> ?	31d	671
* <i>How</i> do few people think that he behaved <i>ec</i> ?	31e	671
*How does only Mary think that he behaved ec?	31 f	671
it is to go home every evening that John prefers	39a	677
*it is to go home every evening that John seems	39b	677
*it is doubt that Desdemona was faithful that Othello did	39c	677
John likes Mary	47 a	683
Mary _i , John likes t_i	47b	683
*John _i , t_i likes Mary	47c	683
John, likes t,	50a	683
John likes himself	50u	683
nobody believes that this will happen	500 51a	684
that this will happen, nobody believes	51a 51b	684 684
*this will happen, nobody believes that	51c	684
John, said that Bill, likes pictures of himself $*_{ij}$	52a	684
John _i said that pictures of himself _{i(j)} , Bill _j likes	52a 52b	684
John _i said that Bill _j would never criticize himself $*_{ilj}$	520 53a	684
John _i said that criticize himself $*_{i j}$, Bill _j never would	53b	684
Chapter 19	550	004
*John read the long book and I read the short	1	702
	1	702
I didn't think there would be many linguists at the party,	3a	702
I didn't think there would be many linguists at the party, but there were/*was	3a	704
I didn't think there would be many linguists at the party,		
I didn't think there would be many linguists at the party, but there were/*was I didn't think there would be a linguist at the party, but	3a 3b	704 704
I didn't think there would be many linguists at the party, but there were/*was I didn't think there would be a linguist at the party, but there *were/was	3a	704
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*Which films did he refuse to see, and which ones did he		
	18a	709
agree? *these films he refused to see and those he agreed	18b	709
*I know the films he refused to see and those he agreed	18c	709
a movie executive refused to see every film, and an intern	18d	709
agreed $(\exists > \forall, *\forall > \exists)$		
John might seem to enjoy that, and Fred might do <u>too</u> *although we don't know what John might read, we do	20a	709
know what Fred might do	20b	709
*Injustices, he rights, but books he doesn't	21	710
*Emily was beautiful at the recital and her sister will,	23a	711
too	25a	/11
Emily was beautiful at the recital and her sister will be beautiful at the recital, too	23b	711
*Joe was murdered, but we don't know who [passive antecedent+active ellipsis site]	26a	712
*someone murdered Joe, but we don't know who by [active antecedent+passive ellipsis site]	26b	712
John didn't see anyone, but Mary did	27	713
···but Mary did see someone	27a	713
*but Mary did see anyone	27b	713
I could find no solution, but Holly might	29	713
$\neq \cdots$ but Holly might find no solution	29a	713
=but Holly might find a solution	29b	713
they arrested Alex _i , even though he _i thought they wouldn't $_$	30a	714
*they arrested Alex _i , even though he _i thought they wouldn't arrest Alex _i	30b	714
* Moby Dick was being discussed and War and Peace was being too	31a	714
Moby Dick was discussed and War and Peace was too	31b	714
*Mag Wildwood came to read Fred's story and I also came to	35	716
*You shouldn't play with rifles, because to is dangerous	36a	716
you shouldn't play with rifles, because it's dangerous	36b	716
to		
asked Sue what to	37a	716
John wants to go on vacation, but he doesn't know when	37b	716
to	570	/10
*Mary must be a successful student, and they say Frances	38a	716
must too	bou	
?Mary must be a successful student, and they say Frances may <u>too</u>	38b	716
· ·	58a	724
decorating for the holidays is easy if you know how		
decorating for the holidays is easy if you know how =how <to decorate="" for="" holidays="" the=""></to>	50 u	
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 = how 〈to decorate for the holidays〉 ≠ *how 〈decorating for the holidays〉 I'll try fix the car if you tell me how = how 〈to fix the car〉 ≠ *how 〈I'll fix the car〉 I remember meeting him, but I don't remember when = when 〈I met him〉 * they re jealous, but it is unclear who * Joe was murdered, but we don't know who * last night he was very afraid, but he couldn't tell us what they're jealous, but it sclear of who Joe was murdered, but we don't know by who last night he was very afraid, but he couldn't tell us of what * it was painted, but it wasn't obvious that * the Pentagon leaked that it would close the Presidio, but no-one knew for sure whether/if * Sue asked Bill to leave, but for would be unexpected * somebody stole the car, but they couldn't find the person who What did Ernie but? A banana. * Bert said that a banana. the poor deserve our help 	58b 58c 60a 60b 60c 61a 61b 61c 74a 74b 74c 74d 81A 81Ba 81Bb 84a	724 725 725 725 725 725 729 729 729 729 729 729 729 729 731 731 731 731
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 = how <to decorate="" for="" holidays="" the=""></to> ≠ *how <decorating for="" holidays="" the=""></decorating> I'll try fix the car if you tell me how = how <to car="" fix="" the=""></to> ≠ *how <f'll car="" fix="" the=""></f'll> I remember meeting him, but I don't remember when = when <i him="" met=""></i> * they re jealous, but it is unclear who * Joe was murdered, but we don't know who * last night he was very afraid, but he couldn't tell us what they're jealous, but it is clear of who Joe was murdered, but we don't know by who last night he was very afraid, but he couldn't tell us of what * it was painted, but it wasn't obvious that * the Pentagon leaked that it would close the Presidio, but no-one knew for sure whether/if * Sue asked Bill to leave, but for would be unexpected * somebody stole the car, but they couldn't find the person who What did Ernie but? A banana. * Bert said that a banana. the poor deserve our help * if you have money, you should help the poorer (than you) A : Look at the poor kitty stuck in the tree! 	58b 58c 60a 60b 60c 61a 61b 61c 74a 74b 74c 74d 81A 81Ba 81Bb 84a	724 725 725 725 725 725 729 729 729 729 729 729 729 729 731 731 731 731
 = how 〈to decorate for the holidays〉 ≠ *how 〈decorating for the holidays〉 TII try fix the car if you tell me how = how 〈to fix the car〉 ≠ *how 〈TII fix the car〉 I remember meeting him, but I don't remember when = when 〈I met him〉 * they re jealous, but it is unclear who * Joe was murdered, but we don't know who * last night he was very afraid, but he couldn't tell us what they're jealous, but it is clear of who Joe was murdered, but we don't know by who last night he was very afraid, but he couldn't tell us of what *it was painted, but it wasn't obvious that *the Pentagon leaked that it would close the Presidio, but no-one knew for sure whether/if *Sue asked Bill to leave, but they couldn't find the person who What did Ernie but? A banana. *Bert said that a banana. the poor deserve our help *if you have money, you should help the poorer (than you) 	58b 58c 60a 60b 60c 61a 61b 61c 74a 74b 74c 74d 81A 81Ba 81Bb 84a 84b	724 725 725 725 725 725 725 729 729 729 729 729 729 731 731 731 732 732

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Cha	nter	20

Chapter 20		
yesterday John met the woman who was elected two years	7a	750
ago two years ago John met the woman who was elected	7b	750
yesterday yesterday John said that Mary was elected two years ago	8a	750
*two years ago John said that Mary was elected two years ago	8b	750
John played baseball when Mary played/*plays soccer	19	755
John _i will be late, he_i said	30a	760
*John _i would be late, he _i said	30b	760
he would be late, John said	30c	760
*a panda eats leaves at this very moment *the baby walks (as I speak)	35a 35b	762 762
*Sue reads a novel at this moment	35c	762
a panda eats leaves	36 a	762
Sue studies at the library	36b	762
the baby walks	36c	762
when the train arrived, Fred met Mary *when the train arrived, Fred meets Mary	42 a 42 b	765 765
*when the train arrived, Fred meets Mary	420 42c	765
*when the train arrived, Fred will meet Mary	43a	765
when the train arrived, Fred would meet Mary	43b	765
when the train arrives, Fred will meet Mary	43c	765
*when the train arrives, Fred would meet Mary	43d	765
Sue arrived when Fred left/*leaves/*will leave Sue plays the piano after Mary does a flute solo/*did a	52 a	768
flute solo	52b	768
John had been laughing	84a 84b	780
*John had had laughed Jack's wife can't be very rich 'it is not possible that Jack's		780
wife is very rich'	92a	783
Jack's wife <u>couldn't</u> be very rich		
'it is not possible that Jack's wife is very rich'	92b	783
*'it <u>was not possible</u> that Jack's wife was very rich' John could move his arm yesterday	102a	786
?*John might move his arm yesterday	102a 102b	786
*John should move his arm yesterday	102c	786
John left when he could/*can	103a	787
John left when he ??might/*may	103b	787
Chapter 21		
with no clothes is Sue attractive with no clothes Sue is attractive	1a 1b	794 794
With no clothes is Sue attractive, is/*isn't she?	10 2a	794
With no clothes Sue is attractive, isn't/*is she?	2b	794
with no clothes is Sue attractive, and/or Mary either/*too	3a	795
with no clothes Sue is attractive, and/or Mary too/*either	3b	795
we *(didn't) read <i>any</i> books	27 a	805
I have*(n't) been there <i>yet</i> I <i>need</i> *(n't) do that	27b 27c	805 805
I *(didn't) read the book, and John *(didn't) <i>either</i>	27d	805
nobody/*somebody lifted a finger	27e	805
I didn't drink some wine $(\exists > \neg; * \neg > \exists)$	30 a	807
I am (*not) rather ill	30b	807
*perhaps John read any books	39	809
*he read any of the stories to none of the children	45	814
Sam didn't read every child a story →>>>∀; →>∀>∃	46 a	814
Sam didn't read every child any story	46b	814
_>====================================		
$\frac{\neg > \exists > \forall ; \neg^* > \forall > \exists}{}$ John didn't see somebody *'John saw nobody'		
John didn't see somebody *'John saw nobody'	52a	817
John didn't see somebody *'John saw nobody' ✓'there is somebody John saw' I am (*not) rather ill	52b	817
John didn't see somebody *'John saw nobody' √'there is somebody John saw' I am (*not) rather ill they (*don't) possibly like spinach		
John didn't see somebody *'John saw nobody' ✓'there is somebody John saw' I am (*not) rather ill	52b	817
John didn't see somebody *'John saw nobody' √'there is somebody John saw' I am (*not) rather ill they (*don't) possibly like spinach Mary mustn't leave *'Mary doesn't have to leave'	52b 52c	817 817
John didn't see somebody *'John saw nobody' v'there is somebody John saw' I am (*not) rather ill they (*don't) possibly like spinach Mary mustn't leave *'Mary doesn't have to leave' v'it's obligatory that Mary leaves'	52b 52c	817 817
John didn't see somebody *'John saw nobody'	52b 52c 52d 5a 5b	817 817 817 830 830
John didn't see somebody *'John saw nobody'	52b 52c 52d 5a 5b 6a	817 817 817 830 830 830
John didn't see somebody *'John saw nobody'	52b 52c 52d 5a 5b	817 817 817 830 830

some student admires every professor and some adminis- trator does too	23b	838
*every professor, some student admires t, and every professor, John admires t,	24a	838
every professor, some student admires t_j and every professor, some administrator admires t_j	24b	838
an American flag was hanging in front of two buildings	28a	840
*five guards stood in front of two buildings	28b	840
each boy/every boy/*all the boys read a different book	29a	840
a different boy read every book/each book/*all the books	29b	840
all/each of/both the suspects have been arrested	45a	850
the suspects _i have (all/each/both) been arrested *all/* each/*both t_i	45b	850
all/each ofboth the children have arrived	46a	850
the children $_i$ have (all/each/both) arrived *all/*each/* both t $_i$	46b	850
the vegetables (all) will (all) have (all) been (*all) being (*all) roasted for an hour by the time you arrive	47	850
Chapter 23		
I explained to Bill the reasons why he shouldn't attend	18a	869
I explained to Bill the reinforcement resistance test	18b	869
?? I explained to Bill the test/the reasons	18c	869
*I explained to Bill them	18d	869
some people [who had been silent before] started laughing	21a	871
some people t _{CP} started laughing [who had been silent before]	21b	871
Q: (Did you see Dr Cremer to get your root canal?) A: (Don't remind me.) I'd like to STRANGLE the butcher. A: #(Don't remind me.) I'd like to STRANGE the BUTCHER.	26	874
Chapter 24		
he<*eats>often <eats>an apple</eats>	5b	906
*Eats he often an apple?	5 i	906
Chapter 26		
the boys heard Joe's stories about Africa	2a	982
*the boys heard Joe's about stories Africa	2b	982

Table 4 Sentences from Geeraerts and Cuyckens (2007)

Sentence	Number	Page
Chapter 1		
Mary is not happy. On the contrary, she is feeling really depressed.	10	67
#Mary is unhappy. On the contrary, she is feeling really depressed.	11	67
A: Few linguists still believe in transformations.		
B: So you think they won't be around much longer? B': #So you think they'll still be around for some time?	12	68
A: A few linguists still believe in transformations.	12	00
B : #So you think they won't be around much longer?		
B': So you think they'll still be around for some time?	13	68
Chapter 5		
The car crashed into the wall.	3	128
Milton Keynes is close to London.	4	128
?London is close to Milton Keynes.	7	129
The sugar is in the red jar.	5	128
The red jar contains sugar.	6	128
The wall was hit by the car.	8a	129
?The wall absorbed the motion energy of the car.	8b	129
*The wall received the car.	8c	129
the girl's neck	12a	133
*the neck's girl	12b	133
the cat's mat	13a	134
*the mat's cat	13b	134
the boy's bicycle	14a	134
*the bicycle's boy	14b	134
the man's problem	15a	134
*the problem's man	15b	134
Chapter 6		
?Arthur and his driving license expired last Thursday.	4	142
?Judy's dissertation is thought provoking and yellowed with age	5	143

Judy's dissertation is still thought provoking although yellowed with age.	6	143
Chapter 11		
I need to put more soil/dirt/earth in the planter.	7 a	274
The soil/?dirt/?earth is slowly changing color.	7b	274
The bike is near the house.	10a	275
?The house is near the bike.	10b	275
Chapter 16		
I hear him sing(ing).	7 a	406
I hear that he sings/is singing.	7b	406
I hear that he sang/was to sing.	7c	406
*I hear him being to sing.	7d	406
She married and got pregnant.	12	407
She got pregnant after she married.	13a	407
He ran too hard so (that) he fell down.	13b	407
*So (that) he fell down he ran too hard.	13c	407
Chapter 18	~	460
Mud oozed onto the driveway.	5a 5b	468 468
?*The car oozed onto the driveway. The car started.	50 6a	468
?*Mud started.	6b	469
Tom pulled strings to get the job.	7a	469
*Tom pulled ropes to get the job.	7b	469
*Tom grasped strings to get the job.	7c	469
She spilled the beans.	8a	469
*She spilled the succotash.	8b	469
Judith danced.	38 a	496
Judith danced a kopanica.	38b	496
Judith slept.	39 a	496
*Judith slept bed. *Judith found.	39b 40a	496 496
Judith found a 20-dollar bill.	40a 40b	496
Rasselas dug his way out of the Happy Valley.	44a	502
The wounded soldiers limped their way across the field.	44b	502
?Convulsed with laughter, she giggled her way up the	44c	502
stairs.	440	502
Chapter 29		
He sneezed the napkin off the table.	4	758
The child resembles his father.	10a	766
?His father resembles the child.	10b	766
Mary exercises in the living room.	15a	767
*The living room is exercised in by Mary.	15b	767
That flea-bitten dog has slept in this bed again.	16a	767
This bed has been slept in again by that flea-bitten dog.	16b	767
Chapter 30		
We all wanted to stay at home.	1a	787
*We all wanted staying at home.	1b	787
*We all kept to play. We all kept playing.	2 a 2 b	787 787
She expected him to come.	7a	788
*She expected for him to come.	7a 7b	788
*She waited him to come.	8a	788
She waited for him to come.	8b	788
She was keen to go.	9	789
She was keen for him to go.	10a	789
*She was keen for herself to go.	10b	789
Chapter 31		
He walked for two hours.	27 a	813
?He walked a mile for two hours.	27b	813
?He walked in two hours.	28a	813
He walked a mile in two hours.	28b	813

?I am loving her. I am loving her more and more, the better I get to know		
I am loving her more and more, the better I get to know	31a	816
	31b	816
her.	010	0.10
Chapter 34 ("Italics are used to indicate coreference" (p.8	391))	
Near him, Luke saw a skunk.	1 a	891
His mother says John is a wonderful human being.	1b	891
*Near Luke, he saw a skunk.	1c	891
*He says John's mother is a wonderful human being.	1d	891
*He loves <i>John</i> 's mother.	4	896
I gave John his book.	6a	900
*I gave him John's book.	6b	900
Sally saw John at his sister's house.	6c	900
*Sally saw him at John's sister's house.	6d	901
Ralph showed Samantha a picture of her cat.	6e	901
*Ralph showed her a picture of Samantha's cat.	6 f	901
John put a handkerchief in his pocket.	10a	907
In his pocket, John put a handkerchief.	10b	907
*He put a handkerchief in John's pocket.	10c	907
*In John's pocket, he put a handkerchief.	10d	907
Sally thought Sam said she was right.	11a	907
*She thought Sam said Sally was right.	11b	907
Sam told <i>Sally</i> that she deserved a better job.	11c	907
*Sam told her that <i>Sally</i> deserved a better job.	11d	907
		908
John breeds tarantulas in his apartment.	13a	
* <i>He</i> breeds tarantulas in <i>John's</i> apartment.	13b	908
*In John's apartment, he breeds tarantulas.	13c	908
Mr. Green printed an entire book on his printer.	13d	908
*He printed an entire book on Mr. Green's printer.	13e	908
*On Mr. Green's printer, he printed an entire book.	13 f	908
Tom Cruise gets framed for murder in his latest movie.	14a	909
*He gets framed for murder in Tom Cruise's latest movie.	14b	909
Rosa is riding a horse in Ben's picture of her.	14c	909
*She is riding a horse in Ben's picture of Rosa.	14d	909
John is described as mild-mannered in his biography.	14e	909
*He is described as mild-mannered in John's biography.	14 f	909
*I handed him the contract outside Ralph's office.	18a	910
*Rosa tickled him with Ben's peacock feather.	18b	910
Outside Ralph's office, I handed him the contract.	18c	910
Rosa tickled <i>Ben</i> with <i>his</i> peacock feather.	18d	910
I saw John after he came back from work.	19a	910
	19a 19b	910 910
*I saw <i>him</i> after <i>John</i> came back from work.		
Alex called Sue when she was in Chicago.	19c	910
**** 11.1.7.1.6	19d	910
*Alex called her when Sue was in Chicago.		
John's worst fear is that he might have to sing in public.	22a	912
	22a 22b	912 912
John's worst fear is that he might have to sing in public.		
John's worst fear is that he might have to sing in public. *His worst fear is that John might have to sing in public.	22b 23a	912 912
John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him.	22b	912
John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him. [%: variable judgments, TY]	22b 23a 23b	912 912 912
John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him. [%: variable judgments, TY] * She joined a new organization, which paid Sally a lot	22b 23a	912 912
John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him. [%: variable judgments, TY] * She joined a new organization, which paid Sally a lot more money.	22b 23a 23b 24a	912 912 912 913
John's worst fear is that he might have to sing in public. *His worst fear is that John might have to sing in public. That he might have AIDS worries John. %That John might have AIDS worried him. [%: variable judgments, TY] *She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found	22b 23a 23b	912 912 912
John's worst fear is that he might have to sing in public. *His worst fear is that John might have to sing in public. That he might have AIDS worries John. %That John might have AIDS worried him. [%: variable judgments, TY] *She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found Sally to be absolutely delightful.	22b 23a 23b 24a 24b	912 912 912 913 913
John's worst fear is that he might have to sing in public. *His worst fear is that John might have to sing in public. That he might have AIDS worries John. %That John might have AIDS worried him. [%: variable judgments, TY] *She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found Sally to be absolutely delightful. *He found a new insurance company, which promised	22b 23a 23b 24a	912 912 912 913
John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him. [%: variable judgments, TY] * She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found Sally to be absolutely delightful. * He found a new insurance company, which promised Mark excellent benefits.	22b 23a 23b 24a 24b	912 912 912 913 913
John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him. [%: variable judgments, TY] * She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found Sally to be absolutely delightful. * He found a new insurance company, which promised Mark excellent benefits. He married a former dental hygienist, who clearly thinks	22b 23a 23b 24a 24b	912 912 912 913 913
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John's worst fear is that he might have to sing in public. *His worst fear is that John might have to sing in public. That he might have AIDS worries John. %That John might have AIDS worried him. [%: variable judgments, TY] *She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found Sally to be absolutely delightful. *He found a new insurance company, which promised Mark excellent benefits. He married a former dental hygienist, who clearly thinks Mark is the greatest guy on earth. Chapter 36 ("the conjunction while, which was previously")	22b 23a 23b 24a 24b 24c 24c 24d	912 912 912 913 913 913
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John's worst fear is that he might have to sing in public. * His worst fear is that John might have to sing in public. That he might have AIDS worries John. % That John might have AIDS worried him. [%: variable judgments, TY] * She joined a new organization, which paid Sally a lot more money. She joined a new organization, whose members all found Sally to be absolutely delightful. * He found a new insurance company, which promised Mark excellent benefits. He married a former dental hygienist, who clearly thinks Mark is the greatest guy on earth. Chapter 36 ("the conjunction while, which was previously meaning a length of time" (p.972)) *I was there the same while you were. *Tve been there many whiles.	22b 23a 23b 24a 24b 24c 24d y a noun 20 21	912 912 912 913 913 913 913 913 913 913 913 913 913 913 913 913 913 913 913