Specifying why a doctor isn’t Mary

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Abstract

This paper offers a discourse-pragmatic account of the constraint on indefinite DPs as subjects of specificational copular clauses (*a doctor is Mary). Building on Mikkelsen’s (2004) proposal that specificational subjects are topics, I argue that they must contain but not wholly be contrastive topics. I show that this can account for the absolute ban on simple indefinite subjects, and allow for more complex indefinites to be subjects. Finally, I discuss the syntactic analysis that would be predicted given my pragmatic analysis, and the puzzles that arise from it.

1 Introduction

The specificational clause is one of the varieties of copular clauses identified by Higgins (1973), characterized by a predicative DP in subject position (DP1) and a referential DP in post-copular position (DP2). They contrast with predicational copular clauses in which DP1 is referential and DP2 is predicational.¹

(1) a. Specificational

My favourite book is War & Peace.

b. Predicational

War & Peace is my favourite book.

In predicational clauses, DP1 can be any referential DP and DP2 can be any DP predicate (modulo Milsark’s (1974) restriction). In specificational clauses (SCs), there is a restriction on indefinite DP1’s (hereafter SC subjects).²

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¹Higgins (1973) identifies two other classes of copular clauses: Identificational clauses like (i), in which DP1 is a demonstrative and DP2 is a referential nominal, and equational clauses like (ii), in which both DP1 and DP2 are referential nominals.

(i) That (book) is War & Peace.
(ii) War & Peace is “Война и мир”.

²This paper is about a particular structural position within a particular class of clause. I refer to the clauses as specificational clauses, or SCs for short, and the structural position as the subject of those clauses. Although this terminology is commonly associated with Higgins (1973), it’s use in this paper is not to be taken as an endorsement of the analysis of copular clause contained therein, nor any other analysis. Rather, I use these terms because they are standard terminology in work of these types of copular clauses (see, for instance, Béjar and Kahunmuyipour 2013; Heycock 2012; Mikkelsen 2005).
a. **Specificational**

   *A book is *War & Peace*.

b. **Predicational**

   *War & Peace* is a book.

The restriction on indefinite SC subjects, which this paper addresses, presents a puzzle for any syntactic or semantic analysis of SCs because it is not an absolute ban on indefinite DPs in subject position. Rather, as I will discuss in section 2, the fact that some indefinite DPs are able to act as SC subjects, as demonstrated below in (3), means that, before we can adduce the indefinite restriction as evidence for or against a particular analysis of SCs, we must first understand its provenance.

(3) a. (i) *A doctor is Mary.
   
   (ii) A newly-minted doctor is Mary.

b. (i) *A linguist is Eric Lenneberg.
   
   (ii) An underrated linguist is Eric Lenneberg.

c. (i) *A building is Robarts.
   
   (ii) A building no-one likes is Robarts.

In the remainder of this paper I develop and defend a hypothesis that the indefinite restriction is pragmatic in nature. Specifically, I propose that there is a requirement that SC subjects contain both “new” and “old” information. It is important to note that this claim is not only about *indefinite* SC subjects, but SC subjects in general. As such, I will present evidence that definite DPs also meet this requirement. In section 3, I introduce some of the theoretical machinery required for my analysis and in section 4, I present my main claim and the arguments in its favour. In section 5, I suggest a syntactic analysis based on Constant (2014) and discuss a puzzle that arises from it, and in 6, I conclude.

## 2 The place of the indefinite restriction in linguistic theory

Though rarely discussed in much depth, the restriction on indefinite SC subjects is often exploited for evidence in the debate over the proper syntactic/semantic analysis of SCs. As such, I will briefly outline the

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3It is also discussed by Halliday (1967), Heggie (1988), Heycock (1994), Higgins (1973), Mikkelsen (2005), and Williams (1997), among others.
analyses and how indefinite subjects fit into them.

The inversion analysis is argued for explicitly by Mikkelsen (2005) and Moro (1997), and states that that predicative copular clauses and SCs have identical underlying structures. According to this analysis, the two sentences in (4) are each derived from the same small clause structure, given in (5), and differ in which constituent of the the small clause is raised. Predicative clauses surface when the argument raises, and SCs surface when the predicate raises.

(4)  
   a. Ian is my favourite singer.  
   b. My favourite singer is Ian.

(5)  
   **Base Structure**

```
be
    /\   /
   Arg Pred  
  Ian     my favourite singer
```

a. **Predicational Clause**

```
Arg
  Ian be  
    ⟨Arg⟩ Pred  
  my favourite singer
```

b. **Specificational Clause**

```
Pred
   be  
     /\   /
    Arg ⟨Pred⟩  
  Ian
  my favourite singer
```
Semantically, this analysis requires that SC subjects be construed as predicates (type \langle e, t \rangle or higher) rather than arguments (type e).

The equational analysis, as presented by Heycock and Kroch (1999), says that both DPs in SCs are type e and the copula serves to equate them. In (4-b), then, my favourite singer and Ian each refers to an individual, and the copula says that they refer to the same individual. Heycock and Kroch (1999) use the restriction on indefinite subjects to argue that SC subjects cannot be construed as predicates. If SC subjects were inverted predicates, the argument goes, we would expect all predicative phrases, including indefinite descriptions, to be acceptable.

As I will describe in more detail in section 2.1, Mikkelsen (2005) proposes that pragmatic factors are responsible for the indefinite restriction. Specifically, SC’s have a fixed information structure, requiring their subjects to be topics, a role which indefinites are not well-suited for. Heycock (2012), responds to Mikkelsen’s analysis and data by arguing that, rather than a requirement that SC subjects be topics, the indefinite restriction is actually a restriction on weak indefinites (i.e., DPs headed by weak determiners) as SC subjects.

The restriction on indefinites, then is a fact that must be explained or allowed for in any syntactic/semantic analysis of SCs.

2.1 Mikkelsen (2005)

Line Mikkelsen’s dissertation (published as Mikkelsen 2005) contains one of the only attempts to define the restriction on indefinite SC subjects. Though she admits that her attempt falls short of a proper explication of the restriction, the attempt itself provides an excellent starting point for my attempt.

After arguing in favour of a predicate inversion analysis of SC, Mikkelsen considers the restriction on indefinites and concedes that, as Heycock and Kroch (1999) argue, it is not predicted by the inversion analysis. She does not concede, however, that it represents a strong argument against the inversion analysis. The restriction on indefinites would only be strong evidence against an inversion analysis if it were a categorical restriction, which it is not.

Mikkelsen demonstrates the non-categorical nature of the restriction with the following examples

(6) A philosopher who seems to share the Kiparskys’ intuition on some factive predicates is Unger (1972) who argues that …

(7) Another speaker at the conference was the Times columnist Nicholas Kristof, who got Wilson’s

\footnote{Delacruz (1976, p. 195 fn8) cited by Mikkelsen (2005, p. 117)}
permission to mention the Niger trip in a column.\(^5\)

(8) **One Iraqi émigré who has heard from the scientists’ families** is Shakir al Kha Fagi, who left Iraq as a young man and runs a successful business in the Detroit area.\(^6\)

(9) **A doctor who might be able to help you** is Harry Barcan.\(^7\)

Since the restriction is not categorical, she argues, it is not due to a semantic type mismatch, rather it must be pragmatic in nature.

Mikkelsen points out (following, among others, Halliday 1967) that, unlike predicational clauses, SCs have a fixed information structure. As demonstrated in (10), SCs are infelicitous in contexts that focus the initial DP, while predicational clauses are more flexible.

(10) a. Q: Who is the winner?  
    A1: The winner is JOHN. \[Specificational\]  
    A2: JOHN is the winner. \[Predicational\]

b. Q: What is John?  
    A1: #The WINNER is John. \[Specificational\]  
    A2: John is the WINNER. \[Predicational\]

(Mikkelsen 2005, p. 195)

Mikkelsen argues that this fixed information structure of SCs follows from SCs being inversion structures. Following Birner (1994, 1996), she assumes that the discourse function of inversion is to mark the inverted material as linking a clause to previous discourse. The inverted material, then, must be more discourse-familiar than the post-verbal logical subject. Mikkelsen then shows that these discourse familiarity considerations can explain the acceptability of (6)-(9).

This pragmatic account, while sufficient to explain the acceptability of (6)-(9), does not explain why the restriction on simple indefinites (i.e., DPs of the form \(\text{DP}\ a(n)\ N\)) as SC subjects, as shown in (3), seems to be categorical. That is, even if the material in a simple indefinite is familiar, the indefinite cannot be the subject of an SC.

(11) Bill is a doctor. #A doctor is John (too).

Mikkelsen suggests that the discourse familiarity requirement of inverted material clashes with the Novelty Condition on indefinites (Heim 1982). She points out, however, that this cannot be the entire story, since the


\(^7\)Mikkelsen 2005, p. 118.
Novelty Condition only requires that indefinites introduce new discourse referents. This means that, since the two instances of *a doctor* in (11) do not share a discourse referent, the Novelty Condition does not rule out the indefinite subject.

Mikkelsen also suggests that those instances of familiar yet unacceptable simple indefinite SC subjects might be infelicitous because there is a general ban on repeating indefinites, as in the example below.

(12) Sally is a doctor. #A doctor came to dinner last night.

This, however, does not seem to hold. Utterances, such as (12), that are barred because of repeated indefinites are made better if the first occurrence of the indefinite is modified. If the barred utterance has an SC with an indefinite subject, as in (11), then only changing the SC will improve it.

(13) I know many doctors.

a. #A doctor is Patrick.

b. A doctor came to dinner last night.

To sum up, Mikkelsen observes that there seems to be a requirement that SC subjects be topical. She attempts to use this requirement to explain the restriction on indefinite subjects, arguing that topics must be given, while indefinites tend to be novel, so indefinites are not good topics and, as a corollary, indefinites tend to make poor SC subjects. She notes, however, that this account runs into a problem in that even when simple indefinites can be made topical, they cannot be SC subjects.

### 2.2 Heycock (2012)

Addressing the indefinite restriction, Heycock (2012) begins with the information structure pattern shown in (10), which she frames as a restriction on focusing SC subjects. She notes that this is parallel to a fact about scrambling in German observed by Lenerz (1977).

(14) a. Wem hat Peter das Futter gegeben?
   who.DAT has Peter the.ACC food given
   “Who has Peter given the food?”

   (i) Peter hat der Katze das Futter gegeben.
       Peter has the.DAT cat the.ACC food given
       “Peter has given the cat the food”
       [Default order]

   (ii) Peter hat das Futter der Katze gegeben.
       Peter has the.ACC food the.DAT cat given
       “Peter has given the food to the cat”
       [Scrambled order]

b. Was hat Peter der Katze gegeben?
   what.ACC has Peter the.DAT cat given
“What has Peter given (to) the cat?”

(i)  Peter hat der Katze das Futter gegeben.
    Peter has the.DAT cat the.ACC food given
    “Peter has given the cat the food”  [Default order]

(ii) #Peter hat das Futter der Katze gegeben.
    Peter has the.ACC food the.DAT cat given
    “Peter has given the food to the cat”  [Scrambled order]

As (14) demonstrates the canonical order for ditransitive objects in German is DAT ≺ ACC. The scrambled order, ACC ≺ DAT, is unavailable when the accusative argument is focused, as shown in (14-b-ii). Just as SCs subjects cannot be focused in English, scrambled objects cannot be focused in German.

With this information structure parallel established, Heycock (2012) attempts to extend the comparison of English SC subjects with German scrambled objects to a semantic parallel. Following Hoop (1992) and Diesing (1992), Heycock assumes that scrambled DPs in German are necessarily interpreted as strong DPs. She claims that SC subjects are also restricted to strong interpretations. As evidence for this claim she presents another parallel. A property of weak indefinites, according to Milsark (1974), is that they cannot serve as subjects of Individual-Level predicates, as shown in (15)

(15)  I had been struggling with a complicated set of data . . .
    a. ?*A problem was particularly hard.
    b. One problem was particularly hard.
    c. {?A/one} problem that I came across was particularly hard.
    d. One of the problems was particularly hard.  (Heycock 2012)

Heycock argues that the same pattern holds for indefinite SC subjects as shown in (16).

(16)  a. ?*A problem was that we didn’t understand all the parameters.
    b. One problem was that we didn’t understand all the parameters.
    c. {A/one} problem that I came across was that we didn’t understand all the parameters.
    d. One of the problems was that we didn’t understand all the parameters.  (Heycock 2012)

Given these parallels, Heycock proposes that the indefinite restriction is actually a restriction on weak indefinites as SC subjects.

Assuming Heycock is using the terms weak and strong to refer to those DPs that do not, and and those DPs that do show Milsark’s (1974) Definiteness Effect, respectively, this proposal is problematic for two reasons. First, the terms weak and strong in this context, properly refer to interpretations rather than lexical items. A determiner is called strong if it is always interpreted as strong, while weak determiners
can be interpreted as either weak or strong depending on the context (Diesing 1992). So, supposing we take Heycock’s (2012) analysis to be correct, the question changes from “Why is the indefinite X a licit SC subject, while Y is illicit?” to “Why can X receive a strong interpretation, while Y cannot?”.

The second, and perhaps more compelling, argument against Heycock’s (2012) proposal is that it is not borne out by the data. Although most weak quantifiers are ambiguous between weak and strong, a(n) and sm (the reduced form of the strong quantifier some) do not seem to be. Despite not being strong though, a(n) and sm can head SC subjects.

(17) a. An UNDERrated figure in the history of generative grammar is Eric Lenneberg.
   b. Sm SIDE-effects are headache, blurred vision and sore throat.

DPs with strong quantifiers, however, do not seem to be able to function as SC subjects, as demonstrated below in (18).

(18) a. Each doctor is Mary, Bill, Sue, and John. (*Specificational)
   b. ?Most early generative grammarians are Chomsky and Halle. (*Specificational)
   c. ?SOME side-effects are drowsiness and blurred vision. (*Specificational)

Copular clauses with strong indefinite subjects, instead, are most naturally interpreted as identificational. Consider also, the minimal pair in (19), with only strong/weak varying between the two.

(19) a. ?SOME side-effects are drowsiness and blurred vision. (*Specificational)
   b. Sm side-effects are drowsiness and blurred vision.

Note that some in (19-a) is interpreted as a quantifier (paraphrasable as some, maybe all . . .), while sm in (19-b) seems to be roughly equivalent to a plural indefinite article.

The subject in (19-b) is a weak indefinite because it and others like it can be used in existential constructions.

(20) a. There is a building no-one likes on St George Street.
   b. a building no-one likes is Robarts.

(21) a. There are sm side-effects.
   b. Sm side-effects are headaches and dizziness.

Contrary to Heycock’s (2012) proposal, it is the weak counterpart that can be the subject of an SC. It seems, then, that the proposal that weak indefinites are barred from being SC subjects cannot stand.

Heycock (2012), further argues that what Mikkelsen (2005) cites as SCs with indefinite subjects, may, in
fact be predicate inversion constructions formed by A’ movement. According to Heycock, SCs and inversion structures can be distinguished in English by the agreement of the copula: In SCs, the copula agrees with the first DP, as in (22), while in inversion constructions, the copula agrees with the DP to its right, as in (23).

(22) My favourite team \{is/*are\} the Maple Leafs.

(23) A threat to the Habs’ dominance \{*is/are\} the Maple Leafs.

Indeed, using this diagnostic for SCs, we can construct SCs with indefinite DP1s. Consider the examples (24) and (25), each presented with their corresponding predicational clause, for contrast.

(24) A committee that I’d hate to present to is Sue, Jerry, and Alex.
    \(\text{(cf. Sue, Jerry, and Alex are a committee that I’d hate to present to.)}\)

(25) A team I’ve cheered for all my life is the Maple Leafs.
    \(\text{(cf. The Maple Leafs are a team I’ve cheered for all my life.)}\)

So, by this diagnostic, it seems that indefinite SC subjects are possible.

2.3 Summary

Each of the two approaches to explaining the indefinite restriction reviewed in this section has its own issues. The pragmatic approach of Mikkelsen (2005) covers a greater portion of the data but lacks a precise and cohesive account of it. The semantic approach of Heycock and Kroch (1999) and Heycock (2012) is more precise at the expense of its empirical coverage. In the following sections I will outline a pragmatic explanation of the indefinite restriction that increases not only the precision of Mikkelsen’s (2005) approach, but its empirical coverage.

3 Theoretical Background

What I refer to as Contrastive Topic here is closely related to what Jackendoff (1972) refers to as the B-accent in his now classic examples, reproduced here in (26).

(26) a. (What about FRED? What did HE eat?)

    FRED_B ate the BEANS_A.

b. (What about the BEANS? Who ate them?)

    FRED_A ate the BEANS_B. \(\text{(Jackendoff 1972, p. 261)}\)
Jackendoff identifies the A and B pitch accents with a falling contour and a rise-fall-rise contour, respectively, and addresses their discourse pragmatics. Since Jackendoff’s work, there has been research on the pragmatics, semantics, syntax, and prosody of these phenomena, some of which I outline in this chapter. In section 3.1, I discuss the theory of alternative semantics, first developed to model the interpretation of focus. In section 3.2, I introduce Roberts’ (2012) question under discussion model of discourse, which provides a preliminary analysis of the pragmatics of focus. Roberts’ model is further refined by Büring (2003), whose d-tree formalism I discuss in section 3.3. Finally, Constant (2014) revises Büring’s account of CT and develops a syntactic account of it which I discuss in section 3.4.

3.1 Alternative Semantics (Rooth 1992)

Alternative semantics, as developed by Rooth (1992), proposes that, in addition to ordinary interpretations \([\llbracket \cdot \rrbracket^O]\), sentences receive a focus interpretation \([\llbracket \cdot \rrbracket^f]\) which is derived from the ordinary interpretation and the focused constituent. Consider the following example.

(27)  

\[ \text{[Mary]}^f \text{ answered Sue.} \]

The ordinary interpretation of this sentence is the proposition it expresses

(28)  

\[ [\llbracket (27) \rrbracket^O] = \{ \text{answered}(m, s) \} \]

The focus interpretation is the set of propositions generated by replacing the focused material with a variable.

(29)  

\[ [\llbracket (27) \rrbracket^f] = \{ \text{answered}(x, s) | x \in D_r \} \]

Note that the focus semantics of (27) is equivalent to the ordinary interpretation of the question Who answered Sue? following Hamblin (1973). This relation between focus interpretation and question interpretation is key to the model of discourse I assume here.

3.2 Discourse Pragmatics (Roberts 2012)

Roberts (2012)\textsuperscript{8} models discourse as a cooperative game, following Lewis (1979), the goal of which is to answer the questions under discussion (QUDs). Utterances are represented as moves, with questions being setup moves and assertions being payoff moves. At a given point in the discourse there is an immediate QUD, and discourse proceeds either by answering that question or by asking a subquestion (i.e. one whose answer is a partial answer to the QUD), which becomes the new immediate QUD. Roberts models the QUDs

\textsuperscript{8}Roberts synthesizes and formalizes a good deal of previous work from various authors. Of particular interest for this paper is Jackendoff (1972), Krifka (1992), Rooth (1992), and Stechow (1991).
as a stack structure, so new subquestions are pushed into the stack when asked, and the immediate QUD is popped off of stack upon being answered. A move is considered (ir)relevant based on the question at the top of the QUD stack.

Roberts’ model of a particular discourse is given below as a series of questions, subquestions, and answers.

(D0) Who ate what?

a. What did Hilary eat?
   i. Did Hilary eat bagels?
      Ans(a_i) = yes
   ii. Did Hilary eat tofu?
      Ans(a_{i')} = no

b. What did Robin eat?
   i. Did Robin eat bagels?
      Ans(b_i) = no
   ii. Did Robin eat tofu?
      Ans(b_{i'}) = yes

Note, that this discourse goes beyond the explicitness we see in natural speech. For example, when question (a) is asked, we don’t require that (a_i) and (a_{i'}) are asked so that we may answer yes or no. Instead we can answer with an assertion that includes a focused constituent that matches the wh-word of the QUD.

(30) A: a/\#b

B: Hilary ate \{bagels\}.

To ensure that an assertion is used felicitously, Roberts exploits the fact that focus interpretations of assertions are of the same type as question interpretations. An assertion, like that in (30) is felicitous if its focus interpretation is equal to the interpretation of the QUD (Roberts 2012, p. 31, generalizing from Stechow 1991).

(31) a. \{Hilary ate \{bagels\}\}_F = \{Hilary ate bagels.

b. \{What did Hilary eat?\}_O = \{Hilary ate bagels.

   Hilary ate tofu.\}

   (=31-a))

c. \{What did Robin eat?\}_O = \{Robin ate bagels.

   Robin ate tofu.\}

   (≠(31-a))
Roberts goes on to address contrastive topics, which she refers to as dependent focus, in much the same way as she treats focus. Structures with CT and focus are given focus interpretation, that is, they are interpreted as a set of alternatives under alternative semantics. An example of a CT-F utterance and its focus interpretation is given below in (32).

(32) a. [Hilary]$_{CT}$ ate [bagels]$_{F}$.
   b. \{x ate y|x, y \in D\}

This suggests that (32-a) presupposes the question in (32-b) (Who ate what?), a proposal that Roberts shows does not hold up to further scrutiny. This hypothesis predicts that (32-a) ought to have the same felicity conditions if its CT and F marking were reversed as in (33) below.

(33) a. [Hilary]$_{F}$ ate [bagels]$_{CT}$.
   b. \{x ate y|x, y \in D\}

Roberts suggests that, rather than only presupposing a QUD, CT-F structured utterances also presuppose “a possibly complex strategy of questions.” (Roberts 2012, p.50) As Roberts acknowledges, this is a very preliminary account of the pragmatics of CT which will require further empirical and theoretical investigation.

### 3.3 The discourse pragmatics of Contrastive Topics (Büring 2003, 2016)

Büring (2003) represents Roberts’ structured discourses as *d*(iscourse)-*t*rees. The discourse $D_0$, then is represented by the tree below.

(34)

```
    question
    Who ate what?
     / \          /
subquestion subquestion
     a           b
      /            /
subsubquestion subsubquestion
      a_i          a_{i1}
      |             |
     Ans(a_i)     Ans(a_{i1})
```

Büring also distinguishes between the focus value ($\vert::\vert_f$) and the CT value ($\vert::\vert_{ct}$) of an utterance and defines
an algorithm for determining the CT value, given below in (35).

(35) CT-value formation:

step 1: Replace the focus with a wh-word and front the latter; if focus marks the finite verb or negation, front the finite verb instead.

step 2: Form a set of questions from the result of step 1 by replacing the contrastive topic with some alternative to it. (Büring 2003)

Note, as demonstrated below, this algorithm generates a set of questions, which is a set of sets of propositions. This way, Büring (2003) is able to build into his representations the fact that a CT-F structure presupposes a QUD and a strategy for answering it.

(36) a. $[\text{Hilary}]_{CT} \text{ ate } [\text{bagels}]_{F}$.

b. CT-value formation:

step 1: What did Hilary eat?

step 2: $\{\text{What did Hilary eat?}, \text{What did Robin eat?}\}$

c. $[[[\text{Hilary}]_{CT} \text{ ate } [\text{bagels}]_{F}]^{ct} = \{\{x \text{ ate } y | y \in D_{e}\} | x \in D_{e}\}$

Under this analysis of CT-value, the CT-F structure of an utterance is represented by the value. So the CT-value of (36-a) is distinct from that (37-a), below, which inverts the CT-F structure.

(37) a. $[\text{Hilary}]_{F} \text{ ate } [\text{bagels}]_{CT}$.

b. CT-value formation:

step 1: Who ate bagels?

step 2: $\{\text{Who ate bagels?}, \text{Who ate tofu?}\}$

c. $[[[\text{Hilary}]_{F} \text{ ate } [\text{bagels}]_{CT}]^{ct} = \{\{x \text{ ate } y | x \in D_{e}\} y \in D_{e}\}$

(\# \{36-a\}^{ct})

The nested nature of these CT-values, makes them directly translatable into d-trees which I provide below.

(38) a. $[[[36-a]]^{ct}$

<table>
<thead>
<tr>
<th>What did Robin eat?</th>
<th>What did Hilary eat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hilary ate bagels</td>
<td></td>
</tr>
</tbody>
</table>
D-trees provide a perspicuous way of representing various aspects of discourse structure in a way that leverages a vocabulary already used by generative linguists. They allow us to define pragmatic notions such as assertions, questions, alternatives, etc in terms of nodes, sisterhood, dominance, etc. For instance, assertions and questions are distinguished by the fact that the former are terminal nodes while the latter are non-terminal.

It should be noted that CT-F structures are used in a variety of discourse contexts to achieve subtly different conversational goals. Consider the following examples.

(39) A: When are you going to China?
    B: I’m going to [China]_{CT} in [April]_{F}.

(40) A: What did the pop stars wear?
    B: The [female]_{CT} pop stars wore [caftans]_{F}.

(41) A: Who’s a good psychiatrist?
    B: [My sister Monica]_{F} is a [psychologist]_{CT}.

All of these instances of CT-F structures signal what Büring calls implicit moves, each instance has a different sort of implicit move that can be easily represented by its d-tree. In (39) the assertion directly answers the question, but implies the existence of a relevant superquestion (When are you going to which place?). The d-tree in (42) shows this by marking the explicit moves in bold.

(42) When are you going which place?

When are you going to . . . ?  **When are you going to China?**

    April

The assertion in (40), on the other hand, does not answer the explicit question, but instead answers an implied subquestion (What did the female pop-stars wear). Again this can be represented clearly in the d-tree in (43).
What did the pop stars wear?

What did the male pop stars wear?  What did the female pop stars wear?

The female pop stars wore caftans.

Finally, the assertion in (41) answers neither the explicit question, nor an implied subquestion. Instead, it answers an implicit subquestion of a superquestion of the explicit question, as we can see in its d-tree in (44).

Who’s a good mental health professional?

Who’s a good psychiatrist . . .?  Who’s a good . . .?  Who’s a good psychologist . . .?  Monica

So, although a given CT-F structure can be mapped onto a single d-tree in a predictable way, the context in which it is uttered determines its place in and effect on the discourse. Implicit in Büring (2003) is an informal condition on CT felicity which I give in (45).

M is a move that uses a CT-F structure.

Q is a question.

M is felicitous in the context of the QUD Q iff the M defines a d-tree DT such that Q is represented in DT.

Though informal, this condition can effectively rule out several examples of infelicitous CT-F structures. The infelicity of the CT-Foc structures in (46) and (47) is predicted by the fact that the explicit question that they answer is not found in the d-trees they project.

(46)  
a. A:  Who ate bagels?
   B:  #|[Hilary]_{CT} ate [bagels].

b.  [[|Hilary]_{CT} ate [bagels]]^{ct}

   What did who eat?

   What did Robin eat?  What did Hilary eat?

   Hilary ate bagels

(47)  
a. A:  Who’s a good psychiatrist?
   B:  #|[My sister Monica]_{CT} is a [psychologist].
b. Who’s a good mental health professional?
   
   Monica’s a good mental health professional? Joe’s a good mental health professional?
   
   Monica’s a good psychologist
   
   ...  

3.4 The Topic Abstraction analysis of CT (Constant 2014)

In his thesis, Constant (2014) proposes and argues for a comprehensive revision of Büring’s theory of contrastive topic. This revision includes a more nuanced analysis of the syntax of CTs and a more precise description of the prosody associated with CTs in English. Which I will outline in turn in this section.

Constant analyzes the pitch contour in terms of Pierrehumbert and Hirschberg’s (1990) ToBI formalism and shows that the characteristic rise-fall-rise contour of CTs is analyzable as a pitch accent (L+H*) followed by a low phrase tone (L-) and a high boundary tone (H%), as shown in (48) and (49).

(48) A: What about FRED? What did HE eat?
   B: FRED ... ate the beans.
   L+H* L-H%

(49) A: What about the BEANS? Who ate THEM?
   B: Fred ate the BEANS ...
   L+H* L-H%

Constant further notes that the pitch accent and boundary tones are associated to different things. The pitch accent, he argues, is associated with an F-marked constituent, while the boundary tone is associated with the right edge of the phrase that contains the f-marked. This can be seen in (50) and (51), where the placement of the L+H* accent depends on the discourse context, while the L-H% boundary tone is associated with the edge of the DP.

(50) A: What did the singers wear?
   B: The FEMALE singers ... wore caftans.
   L+H* L-H%

(51) A: What did the female performers wear?
   B: The female SINGERS ... wore caftans.
   L+H* L-H%

Based on this pattern (and other reasons), Constant proposes that what Büring calls CT-marking, is identical to F-Marking, and the distinction between CT and exhaustive focus (hereafter Exh, following Constant) is

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9The thesis also includes a proposed semantics CTs and an analysis of the Mandarin discourse particle -ne as a CT marker. These topics, however, are beyond the scope of this paper, so I will not address them.

10Constant (2014, pp. 14–16) provides a succinct description of the ToBI system, so rather than reproduce that description, I encourage interested readers to seek out this portion of the thesis and works cited therein.
due the structural configuration of those phrases that contain F-marked constituents.

In order to show capture the distinction between CT and Exh, Constant proposes an operator in the left periphery, CT-λ whose specifier is interpreted as a CT. So, CT phrases are raised, sometimes covertly, to the left periphery (in the sense of Rizzi (1997)) and the CT-λ operator cliticizes to the intonational phrase, yeilding the L-H% boundary tone. The proposed LF structure of (49), then, is given in (52), where a dashed arrow indicates covert movement.

(52)

Topicalization, as in (53), then occurs when CT Abstraction is overt, according to Constant.

(53) A: What about the BEANS? Who ate THEM?
    B: The BEANS ... Fred ate.
        L+H*  L-H%

3.5 Summary

In this section, I have outlined some basic properties of CTs which will be useful in the discussion of SC subjects. In semantico-pragmatic terms, CTs are interpreted as a nested set of alternatives, which imply a complex discourse structure. That is, if an utterance without a CT indicates a question-answer move in the discourse (either asking a question and expecting a complete answer, or giving a complete answer to a question under discussion), then an utterance with a CT indicates a question-subquestion-answer strategy. In syntactic terms, a CT is a phrase which (i) has an F-marked constituent, and (ii) is generated in, or moves, often covertly, to the specifier of a a phrase projected by a CT operator (CT-λ). Prosodically, the F-marking in a CT is realized as a rising pitch accent (L+H*) and the CT-λ operator, which cliticizes to the phrase in its specifier, is realized as a rising boundary tone (L-H%).
4 The Contrastive Topic requirement on SC subjects

I am now prepared to modify Mikkelsen’s (2005) analysis of SCs so that is properly captures the indefinite restriction. Recall that Mikkelsen argued that SCs have a fixed information structure, with the postcopular DP being focus and the subject being topic, as shown in (54) below, and that for Mikkelsen, topicality requires discourse familiarity.

(54) [My favourite singer]_{Top} is [Ian]_{F}.

I propose that SC subjects must be contrastive topic, in the sense of Constant (2014), but must not be wholly F-marked. I will show, in the remainder of this section, that this addition to Mikkelsen’s analysis effectively captures the indefinite restriction. Specifically, requiring SC subjects to properly contain an F-marked constituent will account for the fact that more complex/heavy indefinites (such as those in (6)-(9)) are more likely to be acceptable SC subjects as well as the fact that simple indefinites are almost never allowed as SC subjects.

(55) The Contrastive Topic requirement on Specificational Clauses

A clause of the form \(X \mathbf{be} Y\) is a licit specificational clause iff

a. \([X][Y]\) is defined,

b. \(Y\) is an exhaustive focus, (Mikkelsen 2005)

c. \(X\) is a contrastive topic, and

d. A F-marked constituent is properly contained by \(X\).

In the above definition, (55-a) restricts the requirement to possible SCs, and (55-b) incorporates Mikkelsen’s observation of the fixed information structure of SCs. The final two parts of the requirement, (55-c) and (55-d) are what I will argue for in the following two sections.

I have framed this proposal as a condition on SCs in general rather than one on indefinite subjects of SCs for reasons of parsimony. While indefinite subjects play an important role in the discussion that follows, I intersperse SCs with definite subjects for ease of demonstration.

4.1 SC subjects must be contrastive topics

The first claim of my proposal that must be justified is that contrastive topichood, rather than givenness or aboutness topichood is the relevant notion for SC subjects. This claim can be further divided into three claims. First, CT-Exh structure is a licit information structure for SCs. Second, SC subjects cannot be entirely discourse given. Finally, SC subjects cannot be aboutness topics. In the following subsection I will
present evidence for each of these claims in turn. Following that, I will address the second component claim of my proposal, that SC subjects cannot be wholly F-marked

### 4.1.1 CT-Exh structure is compatible with SCs

English SCs are most naturally uttered with intonational stress on some part of their subject as shown in (56).

(56) a. A building on campus no-one LIKES is Robarts.
   b. A building on campus NO-ONE likes is Robarts.
   c. A building on CAMPUS no-one likes is Robarts.
   d. A building ON campus no-one likes is Robarts.
   e. A BUILDING on campus no-one likes is Robarts.
   f. ?A building on campus no-one likes is Robarts.

English intonational stress is associated with informational prominence, and since, as Mikkelsen shows, DP2 position in SCs is necessarily focused, the intonational stress in the subjects of (56) cannot be primary focus.

More precisely, the intonational stress in SC subjects is a rising pitch accent (L+H*) generally followed by a low phrase tone (L-). To show this I recorded an native speaker of Canadian English\(^{11}\) saying the SC in (57) in various three different discourse contexts.

(57) A book I would recommend is *Barometer Rising*.

The first context, designed to target *book* for F-marking, is given in (58), with ellipses indicating the target sentence (57). The resulting intonational contour\(^{12}\) is given in figure 1.

(58) A: I’m looking for a new TV show, can you recommend any?
   B: I don’t really watch TV, but . . .

---

\(^{11}\)The speaker is S— E—, a local actor and comedian. (name redacted for review process)

\(^{12}\)The pitch contour analysis was performed in Praat (Boersma and Weenink 2016). Letters with tildes below them indicate creaky voice.
The second context, designed to target the embedded subject I for F-marking, is given in (59). The resulting intonational contour is given in figure 2.

\[(59)\]

\[
\begin{align*}
\text{A:} & \quad \text{I'm looking for a new book. Everyone's telling me to read } \textit{Handmaid's Tale}. \text{ What do you think?} \\
\text{B:} & \quad \text{I didn’t really like it.} \ldots
\end{align*}
\]
Figure 2: The intonational contour of (57) in context (59)

The third context, designed to target *would* for F-marking, is given in (60). The resulting intonational contour is given in figure 3.

(60) A: (Hands B a list of books) Which of these would you recommend?
    B: I wouldn’t recommend any of those. . .
In all of these, we see the characteristic L+H* pitch accent followed by a L- phrase tone of a CT constituent. There is some variation in the presence of a H% boundary tone, that Constant (2014) associates with a cliticized CT-\lambda head. In the contour shown in figure 3, we see no rising pitch at the right edge of the SC subject, and furthermore, a second recorded speaker, whose context-contour pairs are given in an appendix (A), shows a complete lack of H% tones on SC subjects. I will set this variation aside for now, addressing it briefly in section 5. Boundary tones aside, though, the intonational contour associated with SC subjects seems to be that of a CT constituent.

Pragmatically, CT-Exh structures are characterized by association with a complex discourse strategy of a question and subquestion. SCs can indeed be associated with a question-subquestion strategy. Consider the example in (61).

(61) (Not many people like the Athletic Centre.)

A building on campus NO ONE likes is Robarts.

If DP2 is Exh F-Marked as an Exh, and the stressed constituent no one is CT F-Marked, then we can use Büring’s (2003) CT-value formation procedure to construct the d-tree associated with it.

(62) CT-value formation:

step 1: What’s a building on campus no one likes?
What’s a building on campus no one likes?
What’s a building on campus someone likes?

... 
What’s a building on campus everyone likes?

What is a building on campus who likes?

What is a building on campus no one likes? ... 
Is Robarts a building on campus no one likes? ... 
A building on campus no one likes is Robarts.

Similarly, we can see that the felicity conditions on the accent placement in SC subjects match the those of the canonical CT-Foc structures demonstrated in (46) and (47). So, the SCs in question need to imply a question and subquestion to which they provide a (partial) answer, and this question-subquestion-answer sequence must be congruent with the QUD. For instance, consider the infelicitous discourses in (64) and (65).

(64) Everyone likes Hart House

# A BUILDING on campus no-one likes is Robarts.

(65) A: What’s a building on campus no one likes?

B: # A building on campus everyone LIKES is Hart House.

If we assume that the SCs in these examples represent CT-Exh structures, then we can easily explain their infelicty. Assuming the stressed element, building, in (64) is F-marked within a CT, and the DP2 Robarts is the exhaustive focus, then we can represent the CT-Value generation and resulting d-tree in (66) below.

(66) a. CT-Value Formation

step 1: What is a building on campus that no-one likes?

What is a building on campus that no-one likes,
What is a sculpture on campus that no-one likes,

step 2: 

What is a quadrangle on campus that no-one likes,

... 
What is a lecture room on campus that no-one likes,
b. What is a what on campus no-one likes?

What is a quad …?  What is a building on campus no-one likes?  …

…  Is Hart House …?  Is Robarts …?  …

…  A building on campus no one likes is Robarts.

Note that the prior discourse, *Everyone likes Hart House*, is nowhere to be found in the d-tree generated by the SC. Therefore, the SC is infelicitous because its d-tree is incongruous with the discourse it is embedded in.

Similar remarks apply to the SC in (65), whose proposed CT-Value and d-tree are represented in (67).

(67)  a. CT-Value formation

step 1: What is a building on campus everyone likes?

\[
\begin{align*}
\text{What is a building on campus everyone loves?} \\
\text{What is a building on campus everyone likes?}
\end{align*}
\]

step 2: What is a building on campus everyone could take or leave?

\[
\begin{align*}
\text{What is a building on campus everyone hates?}
\end{align*}
\]

b. What is a building on campus everyone feels what way about?

…  What is a building on campus everyone likes?  What is …everyone hates?

Is Hart House …?  …  

A building on campus everyone likes is Hart house

As with the previous example, the prior discourse is not in the d-tree generated by this SC, rendering the SC infelicitous in the context. So, the intonational stress in SC subjects is consistent with a CT-Exh structure.

4.1.2 SC subjects are not wholly givenness topics

If Mikkelsen (2005) is correct, and SC subjects are necessarily topics which must contain given material, then we would expect that a maximally given DP is the ideal SC subject. As (68-a) demonstrates, however, maximally given DPs are not good SC subjects, but SC subjects that are minimally contrastive are acceptable.\(^1\)

\(^{1}\)The infelicity is not due to a constraint on repeating indefinites. Consider the following pair:

(i)  Many philosophers have written about the mind-body problem.
(68) Many philosophers have written about the mind-body problem.
   a. # A philosopher who has written about the mind-body problem is Chomsky.
   b. A modern philosopher who has written about the mind-body problem is Chomsky.

The entire content of the subject in (68-a) has already been introduced in the discourse, meaning it is all discourse given. One might, however, object that, according Heim’s (1982) Novelty Condition, an indefinite DP must introduce a new discourse referent, meaning that the subject of (68-a) is not wholly given. Even if this were the case, the new discourse referent would be included in the set of philosophers who have written about the mind-body problem, meaning that it could still be considered discourse-given. So, it seems that SC subjects are not wholly givenness topics.

4.1.3 SC subjects are not wholly aboutness topics

Reinhart (1981) argues that the important notion associated with topichood is aboutness rather than givenness. If we wish to retain Mikkelsen’s (2005) analysis, the natural move would be to claim that licit SC subjects are characterized by aboutness. Aboutness is diagnosable by a paraphrasing test.

(69) Reinhart’s test for aboutness

If sentence S is about constituent X, then S is paraphrasable by the sentence They said about X, that S’, where S’ is derived by replacing X in S with a proform.

As (70) shows, when the entire SC subject is the aboutness topic, as diagnosed by Reinhart’s test, it is interpreted de re, rendering the copular clause equative rather than specificational. Conversely, when the subject is not entirely the aboutness topic, it is interpreted de dicto rendering the clause specificational.

(70) Background: David Bowie = John’s favourite singer.

(Mary said that) John’s favourite singer is Iggy Pop. (Equative/Specificational)

a. Mary said of John’s favourite singer that {he/?it}’s Iggy Pop. (Equative/*Specificational)
   (=Mary said David Bowie is Iggy Pop)

b. Mary said of singers that John’s favourite (one) is Iggy Pop. (*Equative/Specificational)
   (#Mary said David Bowie is Iggy Pop)

c. Mary said of John that his favourite singer is Iggy Pop. (*Equative/Specificational)
   (#Mary said David Bowie is Iggy Pop)

d. Mary said of people’s favourite singers that John’s is Iggy Pop. (*Equative/Specificational)
In the above examples, Mary’s claim that John’s favourite singer is Iggy Pop is invariably false, but varies in the exact claim being made. In the case that John’s favourite singer is understood de re, Mary is wrongly identifying David Bowie as Iggy Pop. When John’s favourite singer is understood de dicto, Mary is wrongly specifying the singer that John prefers above all other singers is Iggy Pop.

One might consider the possibility that it is the pronominal subject of (70-a) that forces its equative reading. That is, pronouns are inherently referential, and since the subject of the copular clause in (70-a) is a pronoun, and therefore referential, that copular clause cannot be specificational. While I am not prepared to concede this point, even if it were true, we are left with (70-b)–(70-d) which cannot be captured by this claim. If pronominal subjects forced equative readings, the reverse could not be true, as most SCs with full (definite) DP subjects are ambiguous with equative readings. If we were to apply this hypothesis to (70-b)–(70-d) it would be non-predictive, so we would need a further explanation for the fact that specificational readings are forced when only part of the subject is an aboutness topic as in (70-b)–(70-d).

So, absent any compelling argument otherwise, it seems that while some part of an SC subject can be an aboutness topic, the entire subject DP cannot be the aboutness topic.

4.1.4 Summary

Since SC subjects are compatible with F-marking and cannot be givenness or aboutness topics, it is reasonable to assume that SC subjects are CTs.

4.2 SC subjects cannot entirely be contrastive topics

The second claim of my proposal is that SC subjects cannot be entirely F-marked constituents. That is, if the entirety of the SC subject is new/contrastive, the SC is unacceptable. So, the B utterance in (71) is infelicitous because the entire SC subject is new/contrastive material.

(71) A: Tell me about your home university?
   B: #A BUILDING on campus no-one likes is Robarts.

This hypothesis – that SC subjects must contain but not be an F-marked constituent – in fact predicts the fact that simple indefinites cannot be SC subjects. Consider the unacceptable SC *A doctor is Mary. The subject a doctor must contain an F-marked constituent, in this case doctor. Since the indefinite article is standardly assumed to be semantically vacuous, it does not encode any particular information. Therefore,
F-marking on the nominal is equivalent to F-marking on the entire DP.\textsuperscript{14} So, simple indefinites can be SC subjects if they contain but do not comprise an F-marked constituent. As stated, this is a necessary condition but not sufficient. For instance, consider the the example of an over-informative answer to a polar question in (72) (adapted from Mikkelsen 2008).

(72) A: Is Eve the undergraduate advisor?
   B: (i) No, Eve is the GRAduate advisor.
       (ii) #No, the GRAduate advisor is Eve.

If the condition discussed above was the only condition on SCs, we would expect an SC to be a felicitous answer to A’s question in (72). A’s question implies the QUD who is the undergraduate advisor?, and B’s F-marking of GRAduate implies the superquestion who is which advisor?, suggesting that the DP the GRAduate advisor is a CT. However, the SC is infelicitous due to the other DP Eve. Recall that in an SC, DP2 must be Exh, however, in (72), Eve seems to be an aboutness topic, as the examples in (73) indicates.

(73) a. Mary asked about Eve\textsubscript{1} if she\textsubscript{1} was the undergraduate advisor.
    b. *Mary asked about Eve\textsubscript{1} if the undergraduate advisor was her.

If A’s question is reformulated, however, the judgements of B’s responses is reversed, as shown in (74).

(74) A: Is the undergraduate advisor Eve?
   B: (i) #No, Eve is the GRAduate advisor.
       (ii) No, the GRAduate advisor is Eve.

In this case, Eve is the Exh, and the GRAduate advisor is the CT with GRAduate being F-marked. The SC response to A’s question in (74), now meets all of the conditions on SCs as expressed in (55).

4.3 Apparent counter-examples

4.3.1 One and another

As mentioned in above the determiner-like elements one and another can serve as CTs in SC subjects.

(75) a. *A doctor\textsubscript{CT} is Mary.

\textsuperscript{14}It is worth noting here that indefinite articles seem to be able to be F-marked when a definiteness contrast is relevant in a discourse. In these cases, simple indefinites can be SC subjects.

(i) Who is the guitarist?
   [ej] guitarist is John.

It is not immediately clear how this would be analyzed in an alternative semantics framework. This problem, I believe, is beyond the scope of this paper, so I set it aside for now.
b. One$_{CT}$ doctor is Mary.

c. Another$_{CT}$ doctor is Mary.

In this section I argue that one and another can be CT marked, meaning they encode enough semantic material to generate alternatives. Where possible I will attempt to sketch what is encoded by these items and what their alternatives might be. Since one and another each warrant a dedicated research project, these sketches are decidedly preliminary.

Let’s consider another first. Following Heim, Lasnik, and May (1991), I take the meaning of other to include two crucial parts: anaphoricity and distinctness. Consider the sentence in (76).

(76) Alice met with another student.

This sentence presupposes that there is a previously mentioned student (anaphoricity) and asserts that the student Alice met with is distinct from the presupposed antecedent (distinctness). As we can see from (77), the anaphoricity projects when embedded, but the distinctness does not.

(77) a. Alice didn’t meet with another student
   (i) #...she never met with any student.
   (ii) ...it was the same student.

b. If Alice met with another student, she would have told us.
   (i) #She didn’t tell us because she hadn’t met with a student previous to this one.
   (ii) She didn’t tell us because it was the same student.

c. Alice probably met with another student.
   (i) #but she might not have met with a student previous to this one.
   (ii) but it might have been the same student.

d. Johan thought that Alice met with another student.
   (i) #He was wrong. She hadn’t met with a student previous to this one.
   (ii) He was wrong. It was the same student.

The SC in (75-c), then, is roughly paraphrasable as A doctor [OTHER than x] is Mary, where the value of x is resolved contextually. Assuming that other is CT marked in (75-c), and, following Heim, Lasnik, and
May (1991), that *other* is a three-place predicate\(^{15}\), we can calculate the SC’s CT-value\(^{16}\). If we calculate the CT-value of (75-c) given this understanding of its semantics, we can see that its acceptibility is expected under my proposal.

\[(78)\]

\begin{enumerate}
\item \[\text{Who is another doctor?}\]
\item \[\approx \text{Who is a doctor?}\]
\end{enumerate}

\begin{itemize}
\item \text{Molly is a doctor.}
\item \text{Another, doctor is Mary.}
\end{itemize}

\begin{itemize}
\item \text{Who is a doctor?}
\item \text{Is Molly a doctor?}
\item \text{Is Mary a(nother) doctor?}
\item \ldots
\end{itemize}

\textbf{Molly, is a doctor. } \textbf{Another, doctor is Mary.}

So, \textit{ANOTHER doctor} contains both new/contrastive information, in \textit{other} and given/presupposed material in \textit{doctor}, thus it is a licit SC subject.

The SC in (75-b) shows the inverse felicity conditions, it requires that doctors have been discussed but none have been named as demonstrated in (79).

\[(79)\]

\begin{enumerate}
\item Let me tell you about doctors.
\item \text{One doctor is Mary.}
\item \text{Molly is a doctor.}
\item \text{#One doctor is Mary.}
\end{enumerate}

If \textit{one} is merely the stressed pronunciation of \textit{a/an}, then the account I have proposed would likely require serious revision. Fortunately, there are good reasons doubt that \textit{one} and \textit{a/an} are distinct lexical items. First, it is unlikely that \textit{one} is the stressed version of \textit{a/an}, since \textit{a/an} has another stressed version pronounced \([e]j/\theta\alpha\text{n}\), which usually marks a contrast of definiteness.

\[(80)\]

\begin{itemize}
\item \text{A: Are you the professor?}
\end{itemize}

---

\(^{15}\)Heim, Lasnik, and May (1991), discussing the reciprocals \textit{each other} and \textit{one another} give the following denotation for \textit{other}: \(z\) is an atomic part of \(y\), a plural individual, and \(z\) is distinct from \(x\).

\[(i) \hspace{1cm} \text{\textit{other}} = \lambda x \lambda y \lambda z (x \cdot \Pi y \land z \neq x)\]

If we were to translate this directly into the example under discussion (\textit{Another doctor is Mary.}), \(z\) would be the contextually given doctor, \(y\) would be the plural individual \textit{doctor} and \(z\) would be \textit{Mary}. So the SC roughly means that \(x\) is a doctor, \textit{Mary} is not \(x\), and \textit{Mary} is a doctor.

\(^{16}\)There may be good reason to question the particulars of both of these assumptions. There is also good reason to believe that the particulars of these assumptions are irrelevant to the discussion at hand.
B: I’m [ej] professor.

Also, Kayne (2015) presents several pieces of evidence that one is lexically distinct from a/an. While a/an NP can be interpreted as generic, one NP cannot

(81) a. A spider has eight legs and many eyes. (generic/specific)
    b. One spider has eight legs and many eyes. (*generic/specific) (Kayne 2015)

He also notes that the syntactic distribution of a/an differs from one as shown below.

(82) a. (i) too long a book
    (ii) *too long one book
b. (i) a few books
    (ii) *one few books
c. (i) *They’re selling a-drawer desks in the back of the store.
    (ii) They’re selling one-drawer desks in the back of the store.

(Kayne 2015)

Kayne argues that one is a complex determiner composed of a/an and a singular classifier, with the syntactic structure given below in (83) Since the locus of CT marking is not the indefinite article, it must be the singular classifier, which means that the classifier ought to be contentful enough to generate alternatives.

(83)

\[
\text{DP} \\
\text{D} \quad \text{ClfP} \\
\text{Clf} \quad \text{D} \quad \text{Clf} \quad \text{NP} \\
\text{w-} \quad \text{an}
\]

The licit SC one doctor is Mary would, by hypothesis, have the following CT-Foc structure.

(84) CT: \([w-]\)

Focus: Mary
given/presupposed: doctor/doctors/a doctor

Note that the licitness of (8) can be explained if one, or rather the hypothesized w-classifier, is F-marked within a CT. We can see that this, in fact, fits with the context in which the SC in (8) is found, reproduced in (85)
Among the best potential witnesses on the subject of Iraq’s actual nuclear capabilities are the men and women who worked in the Iraqi weapons industry and for the National Monitoring Directorate, the agency set up by Saddam to work with the United Nations and I.A.E.A. inspectors. Many of the most senior weapons-industry officials, even those who voluntarily surrendered to U.S. forces, are being held in captivity at the Baghdad airport and other places, away from reporters. Their families have been told little by American authorities. Desperate for information, they have been calling friends and other contacts in America for help.

One Iraqi émigré who has heard from the scientists’ families is Shakir al Kha Fagi, who left Iraq as a young man and runs a successful business in the Detroit area.¹⁷

The first paragraph is about Iraqi weapons scientists and introduces the group of Iraqi émigrés who have been contacted by families of these scientists. The second paragraph introduces a particular member of that group. As I discussed above, this discourse pivot from group to individual member is naturally achieved by an F-marked one (ONE Iraqi émigré . . . ). Since DP2, in this case Shakir al Kha Fagi, is the Exh of the SC, the F-marking in the SC subject must be indicative of a CT.

If this is the correct analysis of F-marked one, then the singular classifier must be able to generate alternatives. The question is, what counts as an alternative to one. A proper answer to that question would require an in depth study of the semantics and pragmatics of one, which is beyond the scope of this paper.

4.3.2 Simple indefinites with relational nouns

An anonymous reviewer suggested the apparent counterexample in (86).

Many young people are turning away from technology; an example is Sam, who replaced her iPhone with a flip-phone this year.

In this example, the underlined clause is an SC with an apparent simple indefinite subject. On the surface, this seems to invalidate the generalization in (55), for two reasons. First, the subject an example is, in a sense, anaphoric to the preceding discourse, and therefore given/presupposed rather than new/contrastive. Second, the subject seems to be a simple indefinite, and therefore, any F-marking would constitute F-marking of the entire constituent. These arguments, however, do not hold water.

First, in the natural intonational contour of (86), example bears a L+H* pitch accent, as can be seen in 4 This suggests that example is new/contrastive, rather than given/presupposed. Which brings us to the second argument: Example being F-marked amounts to the entire DP being F-marked. When we consider

Figure 4: A Natural pitch contour of *an example is Sam* in (86)

the nature of the noun *example*, however, we can see that the apparent simplicity of the DP *an example* is just that: apparent.

*Example* is a relational noun, meaning there are no example-things in the world the way there are dog-things, red-things, or courage-things. If an entity is an example, it is an example of something. In this case Sam is an example of a young person who is turning away from technology. So, if we assume that the DP *an example* includes an elided complement, two things are explained: First, the fact that we seem to have a licit SC with a simple indefinite subject, and second, the fact that *an example* seems to be discourse anaphoric. So, the SC in (86), is properly analyzed as in (87).

\[(87) \quad [\text{An exAMple}_F \emptyset_{PP}] \text{is Sam}_{Exh}.\]

Note that if we replace *example* with a non-relational noun, (86) becomes unacceptable.

\[(88) \quad \text{Many young people are turning away from technology; #a luddite is Sam, who replaced her iPhone with a flip-phone this year.}\]

Thus, (86) is not a counterexample to the analysis of SC subjects offered in this paper.
4.3.3 Simple Definite SC Subjects

Heycock (2010) and Béjar and Kahnemuyipour (2013) discuss a particular reading of SCs with simple definite subjects, called “the Poirot reading” which is shown below in (89).

(89) And Poirot pointed at the Major and said “For a long time now we have been trying to establish the identity of the murderer. But now I know... 
...The murderer is you”

At first blush, this seems to be a counterexample to my proposal. In this context, the existence and relevance the murderer is entirely given/presupposed, while the fact that the identity of the murderer is Poirot’s addressee seems to be new/contrastive. This would mean that no part of the subject is F-marked, which should render the clause unacceptable.

If we consider the context carefully, we can see that this is not the entire story. The sentence The murderer is you would occur at the culmination of a murder mystery at which point many properties of the murderer have been gleaned from the evidence. The only relevant “property” left is the murderer’s identity. So, what is given is the existence, salience and uniqueness of some murderer and several of the murderer’s properties. What is new/contrastive is the identity of the murderer, and that that identity is Poirot’s addressee.

Consider the following alternative discourse:

(90) We already know the following: The murderer is 6 feet tall. The murder has dark hair. The murderer walks with a limp. From this I have deduced that 
...The murderer is you.

In the discourse leading up to The murderer is you, we can see that the murderer is only used referentially. The culminating accusation shifts the usage of the murderer to that of a predicate. For the purposes of this paper, I will assume that shifting the murderer from e to ⟨e,t⟩ is accomplished by an IDENT operator (cf. Partee 1987). The SC in (90) and (89), then, has the following CT-Foc structure:

(91) The murderer is you.

Focus: you
CT: IDENT
Given/presupposed: the murderer

Another example of SCs with simple definite subjects, provided by an anonymous reviewer, is given in (92).

(92) A: Who are the members of the Ramanu Trio?
B: The PIanist is Zach Pitts, The DRUmmmer is Monica Brown, and the SINGer is Sue Listman.

This, however, is not a counterexample. Taking the first SC, the PIanist is Zach Pitts, as an example, we can see that Zach Pitts, being the Exh of the sentence, is new/contrastive, as is pianist, being F-marked. To see what is given/presupposed, consider what B is actually asserting by uttering the PIanist is Zach Pitts. They are asserting that Zach Pitts is the pianist in the Ramanu Trio. This suggests one of two possible things: One possibility is that there is actually an elided PP in the SC subject in question, in which case, the SC subject is not a simple definite. The other possibility, is that the content of the PP comes from the context by way of the definite determiner, in which case, the determiner cannot be F-marked. In either case, F-marking of the nouns in (92), does not entail F-Marking of the entire SC subject.

So, simple definite SC subjects can, in fact, be accounted for by the proposal in this paper, and therefore do not represent a counterexample.

4.4 Summary

In this section I have presented evidence that the restriction on indefinite SC subjects comes from a requirement that SC subjects contain but not be CT marked constituents. I first showed that contrastive rather than aboutness or givenness topicality is the source of the restriction. I then argued that the ban on simple indefinite SC subjects is neatly predicted if the SC subject itself, rather than a proper part of it, is banned from being the F-marked constituent. In the next section, I will discuss the prospects of relating this discourse pragmatic account of SCs to their syntax.

5 The syntax of SCs and CTs

It may seem, given the fact that Constant’s theory of CTs includes a syntactic analysis, that providing a syntactic analysis of the pragmatic account argued for above would be a trivial matter, but as we will see, the syntactic analysis has at least two interesting consequences. First, it allows us to explain the variation in boundary tones pointed out in section 4.1.1. Second, it reveals a rather puzzling property of the CT restriction on SC subjects. In this section, I will begin by making the syntactic analysis explicit and discussing it in terms of the two competing theories of copular clauses discussed in section 2, and then proceed to discuss the above mentioned consequences in turn.
5.1 A syntactic analysis

Constant (2014, p. 124) proposes that the CT-λ head occupies a position in the left periphery. Specifically, he proposes that it occupies one of the Top positions first hypothesized by Rizzi (1997). The CT constituent, then, occupies the specifier position of the phrase projected by CT-λ, having moved there from a lower position, often covertly. It is, I believe, quite reasonable to hypothesize that the overt SC subject position is, in fact, this [Spec, CT-λ] position. Assuming the copula surfaces at least as high as T, an SC can be represented as in (93).

(93) [TopP [DP An example∅ PP] CT-λ [TP is Sam.]]

If the SC surfaces as (93), then we would expect the CT-λ to cliticize to the DP and be pronounced as a H% tone (following Constant 2014). However, as I discussed in section 4.1.1, there is some variation in the boundary tone associated with the SC subject. Specifically, some SC subjects lack H% boundary tones. This seems to run counter to Constant’s phonetic diagnostic for CTs, but can be explained if we assume that the copula optionally raises to CT-λ. In this case, one of two things will occur: either the cop+CT-λ amalgam will cliticize to the subject DP in th form of =‘s, or it will fail to cliticize, and surface as an independent word.

(94) [TopP [DP An example∅ PP] is+CT-λ [TP Sam.]]

a. An example’s Sam.

b. An example is Sam.

In either case, the CT-λ head will not surface as an H% boundary tone.

5.2 Difficulties in expressing the CT condition syntactically

Since the CT-condition is a restriction on a particular syntactic structure, it should be expressible in syntactic terms. According to the analysis presented above, an SC is characterized by a copular clause embedded below a TopP headed by CT-λ. This head, then triggers the movement of a predicative DP if some part of that DP is F-marked. Adapting this analysis to reflect the CT condition, however, is problematic. To demonstrate this, I will assume that a CT feature on the predicative DP triggers/licenses SCs (at least with indefinite subjects). Consider the SC in (95), below.

(95) [DP A figure [PP in the history [PP of generativeF grammar ]] is Eric Lenneberg.]

In this case the F-marking is on an adjective in a PP, which is embedded in a PP in the SC subject, rather than the SC subject itself. If we assume that this F-marking behaves like classic F-marking, then it ought
to project in the manner that Selkirk (1996) describes.

(96) **Focus Projection** (Selkirk 1996)

a. F-marking of the head of a phrase licenses the F-marking of the phrase.

b. F-marking of an internal argument of a head licenses the F-marking of the head.

Crucially, according to Selkirk, non-arguments do not project focus, so F-marking of *generative* in (95) Would not project to the entire subject.

Suppose, however, the CT condition is satisfied by Agree. It is still not clear that this could account for the SC in (95), as the F-marked constituent is contained in a strong island (*i.e.* a complex NP). In standard theories, Agree has the same structural requirements as movement, so we expect it to obey strong island constraints, rendering the the F-marked constituent *generative* inaccessible to Agree.

It seems, then, that more work will be required to express the CT condition syntactically.

### 6 Concluding remarks

In this paper I have presented a pragmatic account of the restriction on indefinite SC subjects. According to this account, SC subjects must be a CT, but must not be wholly F-marked. I have shown how this captures the fact that simple indefinites cannot be SC subjects. If this account is correct, and the indefinite restriction is due to pragmatic rather than semantic constaints, then the restriction can no longer be adduced as evidence against an inversion analysis of SCs. This is not to say that I have presented evidence in favour of the inversion analysis. Rather, I have striven to present my account of the restriction in neutral terms with respect to this debate.

That said, a couple of comments regarding the debate are called for. I have proposed that SCs have a rather rigid information structure (DP1 is CT, DP2 is Exh), and any theory of SCs must account for that. Since current syntactic theories of information structure tend to involve movement to Topic or Focus projections and inversion accounts of SCs necessarily involve movement, the latter seem to be more naturally suited to explaining SCs. It may turn out, however, that other facts militate against an inversion analysis. In this case, our theory must account for the rigid CT-Exh structure of SCs in some way. This, however, is a topic for another paper.
Additional SC Pitch Contours

In addition to the recordings presented in section 4.1.1, I recorded another native speaker of Canadian English uttering SCs. Unlike the speaker in section 4.1.1, who is an actor and comedian, this speaker is a linguistics graduate student. The target utterance was (97), and each context was designed to target a distinct CT-Exh structure.

(97) A book I would recommend is Aspects.

The first context, given in (98), is designed to target book for F-marking. The resulting pitch contour is given in figure 5.

(98) A: Do you know any good papers on syntactic theory?
    B: No, but ...

![Figure 5: The intonational contour of (97) in context (98)](image)

The second context, given in (99), is designed to target I for F-marking. The resulting pitch contour is given in figure 6.

(99) A: What’s the best book on syntactic theory?
    B: Most people recommend Syntactic Structures, but ...
Figure 6: The intonational contour of (97) in context (99)

The third context, given in (100), is designed to target *would* for F-marking. The resulting pitch contour is given in figure 7.

(100)  A: Which of these books on syntactic theory would you recommend?
       B: I wouldn’t recommend any of those, but …
References


