

## Chapter 0

# Inherent vs. accidental uniqueness in bare and demonstrative nominals

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• First draft, 16 May 2019, comments welcome •

The paper provides an analysis of Czech bare vs. demonstrative NPs and in particular of their referential uses involving situational uniqueness. Contrary to the traditional view that bare NPs correlate with uniqueness and demonstrative NPs with anaphoricity, I argue that the relevant classification involves two types of uniqueness: inherent uniqueness, correlated with bare NPs, and accidental uniqueness, correlated with demonstrative NPs. The notions of inherent and accidental uniqueness are formalized using situation and modal semantics. An extension to generic and anaphoric NPs is proposed.

**Keywords:** Czech, bare NPs, demonstratives, uniqueness, situation semantics

## 1 Introduction

In this paper I investigate the meaning and distribution of two kinds of nominal phrases (NPs) in Czech: BARE NPs and DEMONSTRATIVE NPs. A bare NP, illustrated by *garáž* ‘garage’ in (1a), is an NP without any determiners such as quantificational determiners, demonstratives, or indefinite markers. A demonstrative NP, illustrated by *ta garáž* ‘DEM garage’, is an NP introduced by a demonstrative.<sup>1</sup>

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<sup>1</sup>A comprehensive discussion of the Czech demonstrative system is in Berger (1993). For recent discussion couched in the formal approach, see Šimík (2016). (I use “formal” as shorthand for generative/formal-semantic.) Notice also that I gloss the Czech demonstrative *ten/ta/to* ‘DEM.M/F/N’ as DEM, as it does not perfectly correspond to either ‘this’ or ‘that’ (it is primarily anaphoric and also largely neutral with respect to proximity).

- (1) a. *Context:* ‘I approached a friend’s house.’  
 Garáž zářila novotou. BARE NP  
 garage shined novelty.INSTR  
 ‘The garage shined with novelty.’
- b. *Context:* ‘A friend showed me his new garage.’  
 Ta garáž zářila novotou. DEMONSTRATIVE NP  
 DEM garage shined novelty.INSTR  
 ‘The garage shined with novelty.’

Both bare and demonstrative NPs can be referential and can thus correspond to English definite NPs, as they do in (1). As indicated by the contexts in (1), bare NPs are suitable for reference to situationally unique objects, ranging from large situations, such as the whole world (and, correspondingly, NPs like *papež* ‘the (unique) Pope (in the world)’) to small situations, such as a family house (and NPs like *garáž* ‘the (unique) garage (belonging to the family house)’), while demonstrative NPs are suitable for deictic reference (left aside in this paper) or anaphoric reference. The bridging (associatively anaphoric) function is covered by bare NPs and is thus considered a subcase of situational uniqueness.<sup>2</sup> For a useful overview of definiteness-related form–function mapping in Czech, based on the typology of Hawkins (1978), see Běličová & Uhlířová (1996: chapter 3). The bare  $\rightsquigarrow$  situational vs. demonstrative  $\rightsquigarrow$  anaphoric divide has recently been recognized and incorporated also in formal linguistics, a development that is largely due to the influential dissertation by Schwarz (2009). It has been assumed for languages as diverse as Mauritian Creole (Wespel 2008), Akan (Arkoh & Matthewson 2013), or Mandarin Chinese (Jenks 2018), and is considered by Schwarz (2013) to correspond to the weak vs. strong definite article divide in German; see (2).<sup>3</sup>

- (2) a. *Context:* ‘I approached a friend’s house.’  
 Ich ging zur Garage. WEAK DEFINITE ARTICLE  
 I went to.the garage  
 ‘I went to the garage.’
- b. *Context:* ‘A friend showed me his new garage.’  
 Ich ging zu der Garage. STRONG DEFINITE ARTICLE  
 Hans went to the building  
 ‘I went to the garage.’

<sup>2</sup>I am not aware of any discussion of how the two types of bridging (part–whole vs. producer–produced) introduced in Schwarz (2009: chapter 2) play out in Czech.

<sup>3</sup>The case of Akan has been reconsidered in Bombi (2018).

In this paper, I zoom in onto the situational uniqueness function and show that not all situationally unique referents are referred to by bare NPs in Czech. In some cases, a demonstrative NP is needed. I will argue that bare NPs refer to objects that are inherently unique (relative to some situation), while demonstrative NPs refer to objects that are accidentally unique (relative to some situation). I will also argue that the notion of inherent is akin to genericity and can in fact subsume generic reference. Finally, I will suggest that anaphoric reference is inherently accidental. The contrast between inherent and accidental uniqueness therefore has the potential to replace the more commonly assumed unique vs. anaphoric contrast. A full exposition of this general claim must be left for future research, however.

The paper is organized as follows. In §2, I present the relevant contrast between bare and demonstrative NPs in Czech and suggest – informally at first – that it could be understood in terms of inherent and accidental uniqueness. These two concepts are formalized in §3, which also provides some background on situation semantics and an explicit syntax and semantics of bare and demonstrative NPs in Czech. In §4 I focus on presenting more and more careful evidence in favor of the correlation between the NP types and the uniqueness types. An outline of how the analysis could be extended to generic and anaphoric NPs is in §5. In §6, I summarize the results and give a brief research outlook.

## 2 Initial observation

Let us start with two simple situations and NPs used in them. Example (3) involves a classroom situation  $s_1$ , with a single blackboard in it, as is usual. As one would expect, the blackboard, being unique in that particular situation, is referred to by a bare NP.<sup>4</sup> Example (4) involves a simple conversation situation  $s_2$ , which happens to have a single book in it. Despite the uniqueness of the book, a demonstrative NP is appropriate.

- (3) *Situation*  $s_1$ : Teacher (T) with pupils in a classroom. T addresses one of the students:

T Smaž {tabuli / #tu tabuli}, prosím.  
erase.IMP blackboard DEM blackboard please  
'Erase the blackboard, please.'

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<sup>4</sup>Notice that I distinguish between “contexts”, which involve explicitly uttered material that precedes the target utterance (I only provide English translations) and “situations”, which only describe the setting in which the target utterance is made.

- (4) *Situation*  $s_2$ : A and B have a conversation, A is holding a book (the only book in the situation), B says (without any salient pointing gesture and without having talked about the book ever before):

B {Dej / Ukaž} mi {tu knihu / #knihu}.  
 give.IMP show.IMP me DEM book book  
 ‘Give/Show me the book.’ (adapted from Krámský 1972: 62)

What brings about the asymmetry between (3) and (4)? I will argue that a bare NP is appropriate in the former case because classrooms usually have a single blackboard in them; the blackboard is *inherently* unique in classrooms. On the other hand, it is not usually the case that when A and B talk to each other, there is a single book in that situation; the book in  $s_2$  is only *accidentally* unique. I will turn to a formalization of inherent vs. accidental uniqueness shortly. For the moment, let me discuss a number of issues that might blur the contrast under discussion.

An objection that instantly comes to mind when considering (4) is that the reference to the book by *tu knihu* ‘DEM book’ involves deixis. This view is supported by the fact that a slight pointing gesture or even just a peek towards the referent naturally, albeit not necessarily, accompanies the utterance (4B). But an account in terms of deixis also has problems. Deictic demonstratives normally carry prosodic prominence and single out an object out of a set of objects all of which satisfy the same nominal description, as in *I want THIS book, not THAT book*. In (4), there is no such motivation for the use of a demonstrative, as the referent is the only book in the situation. Also, prosodic prominence is on *knihu* ‘book’, not the demonstrative. Finally, it is good to point out that (4B) can be uttered even if the conversation takes place via a videoconference and where B saw, at some previous point of the conversation, that A has a book, but, at the time of uttering (4B), B no longer has visual access to it (and hence cannot point to it). All of these concerns render a treatment in terms of deixis problematic. Moreover, in §4 I will provide examples where deixis fares even worse, as the referent is not even present in the utterance situation.

The reader will have noticed that I marked the inappropriate NP uses by # rather than by \*. The implication is that the versions with the inappropriate NPs successfully convey a meaning – in fact, the meaning indicated by the translation – but are not felicitous in the situation. We can learn a bit about the source of their infelicity by inspecting the additional implications they carry. Let us turn to (3) first. The use of a demonstrative NP – *tu tabuli* ‘DEM blackboard’ – implies that the teacher is in an affective state. It would be appropriate in a situation where the teacher asked the student to erase the blackboard repeatedly and got

annoyed by the student's inactivity. In other words, the demonstrative in (3) is an instance of the so called AFFECTIVE DEMONSTRATIVE.<sup>5</sup>

Let us now consider (4). Again, certain adjustments to the situation would be needed, in order for the bare NP to be licensed. Two types of scenarios come to mind. First, the demonstrative could be omitted in case there was a selection of other objects, e.g. a magazine, a newspaper, and a DVD, all of which might be of interest to the discourse participant B. By using a bare NP *knihu* 'book', B would indicate that she would like to have/see the book, not, say, the magazine. This exceptional contrast-based licensing of bare NPs (or definite NPs with a weak definite article in a language like German) in situations where a demonstrative (or strong definite article) would be expected (including anaphoric uses of NPs) has occasionally been noticed in the literature.<sup>6</sup> The phenomenon is still relatively poorly understood. Another type of situation that would afford the use of a bare NP in (4B), although somewhat implausible, is that A and B are regularly in conversation situations with a single book in them and where that book is an integral (inherent) part of that kind of situation. The fact that such an implausible situation can be accommodated supports the semantic reality of the concept of inherent uniqueness.

The reader should bear in mind that the examples in this paper often lend themselves to accommodation processes of the kind discussed above and that accommodating a certain inference may license the use of an NP that is marked as inappropriate.

### 3 Proposal

#### 3.1 Background on situation semantics

My proposal is couched in situation semantics, an extension of possible world semantics, whereby situations are parts of possible worlds (the maximal situations) and are organized in a semi-lattice, just like entities in the Link (1983)-style representation of plural and mass nouns. The foundations of modern situation semantics were laid by Kratzer (1989) and important further developments include von Stechow (1994) (application to adverbial quantification) or Elbourne (2005) (appli-

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<sup>5</sup>Affective demonstratives (term due to Liberman 2008) are cross-linguistically common. For some discussion, see Mathesius (1926), Šimík (2016) (Czech); Rudin (2019) (Bulgarian and Macedonian); Lakoff (1974), Liberman (2008) (English); Potts & Schwarz (2010) (English, German); Davis & Potts (2010) (English, Japanese).

<sup>6</sup>A relevant German example is discussed by Schwarz (2009: p. 32, ex. (54)), although Schwarz does not link the observed effect to contrastiveness.

cation to definite descriptions). Accessible overviews and introductions to situation semantics include Schwarz (2009: chapter 3), Elbourne (2013: chapter 2), and Kratzer (2019). The present treatment of situations will be largely informal, however, and will not rely on the many complex properties of fully fledged situation semantics.

In situation semantics, constituents are interpreted relative to situations. Consider example (5a), tailored after Percus (2000), where *all Slavic linguists* quantifies over actual Slavic linguists and ponders the hypothetical situations in which they are not linguists but literature scientists. These situations would then be such that there would be no Slavic linguistics in them. The truth-conditions are captured informally in (5b). The formula makes clear that, crucially, the NP *Slavic linguists* is interpreted relative to the actual  $s_0$  and the predicative NP *literature scientists* relative to the hypothetical  $s_h$ . I will follow Schwarz (2009) and call the situations relative to which NPs (or other constituents) are interpreted RESOURCE SITUATIONS.

- (5) a. If all Slavic linguists were literature scientists, there would be no Slavic linguistics.  
 b.  $\forall s_h [\forall x [\text{SLAVIC LINGUISTS}(x)(s_0) \rightarrow \text{LITERATURE SCIENTISTS}(x)(s_h)] \rightarrow \neg \exists y [\text{SLAVIC LINGUISTICS}(y)(s_h)]]$

Not just quantificational, but also referential NPs, including bare and demonstrative NPs, are interpreted relative to resource situations. This is illustrated on example (6), in which the value of the resource situation affects the truth conditions of the whole sentence. If (*toho*) *kouzelníka* ‘(DEM) magician’ is interpreted relative to the situations compatible with Jitka’s beliefs (*de dicto* interpretation), (6F) is true if Jitka wants to see the “magician” she spotted before the show (perhaps because he had a cool outfit). If, on the other hand, the NP is interpreted relative to the actual situation (*de re* interpretation), (6F) is true if she wants to see the actual performer (perhaps because she was looking forward to seeing the magician even before going to the show).<sup>7</sup>

- (6) *Situation*: Jitka and her parents visit a show, where a magician and a clown are announced. Just before the show, Jitka spots two men in the crowd, who are dressed a bit like a magician and like a clown (respectively). She wrongly believes them to be the performers. Her parents are aware of this and talk to each other about who she wants to see. The father says:

<sup>7</sup>For a recent version of a situation-based theory of the *de dicto* vs. *de re* contrast, see Keshet (2008; 2010).

- F Jitka chce vidět (toho) kouzelníka.  
Jitka wants see DEM magician  
'Jitka wants to see the magician.'

The choice of the interpretation and of the NP type affects the inferences in delicate ways. Leaving deictic, affective, and anaphoric readings aside, here are the possible inferences that arise in the four logical combinations: *de re* + demonstrative implies that it is not typically the case that there is a single magician in this (type of) show; *de dicto* + demonstrative implies that it is not typically the case that there is a single magician in Jitka's beliefs about the pre-show situation; *de re* + bare implies that there is typically a single magician in this (type of) show; *de dicto* + bare highlights the contrast between the magician and the clown in Jitka's beliefs.

The last important notion to be introduced is the notion of a TOPIC SITUATION. Topic situations, sometimes called Austinian topic situations (Austin 1950), are situations that propositions are "about". A simple proposition like *It's raining* will be true or false depending on which situation we are talking about (where we are, at what time, etc.). For formal-semantic treatment of topic situations, see Schwarz (2009) and Kratzer (2019). The present treatment of topic situations will be largely informal. What is important to keep in mind is that resource situations (situations relative to which NPs are interpreted) are very often and, for the purposes of this paper, will always be identical to the corresponding topic situations.<sup>8</sup>

### 3.2 Formalizing inherent vs. accidental uniqueness

I define the type of uniqueness by using universal quantification over situations that are "like" ( $\approx$ ) some relevant evaluation situation, typically the topic situation. I will come to a more precise characterization of the "likeness" relation shortly. For the moment, let us consider how the definitions in (7) and (8) cash our two simple examples from §2 – the blackboard example and the book example. The blackboard is *inherently* unique in the classroom situation provided in (3) because it holds that all situations that are "like" that classroom situation, which includes situations at different times, with different people in it, etc., but with important parameters such as the "identity" of the classroom kept constant, are such that there is exactly one blackboard in those situations. Therefore, the blackboard is *inherently* unique in (3). On the other hand, the book is only *accidentally* unique in the conversation situation provided in (4): even though there

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<sup>8</sup>The identity of the topic and resource situation can be achieved either by coreference (coindexing) or by binding, using a specialized operator; see e.g. Büring (2004).

is exactly one book in the situation, it does *not* hold that all situations that are “like” that conversation situation, which includes various situations of A and B having a conversation, at different times and places, are such that there is exactly one book in those situations.<sup>9</sup>

(7) **Inherent uniqueness**

For any property  $P$ , entity  $x$ , and situation  $s_0$ , such that  $P(s_0)(x) = 1$ ,

$x$  is INHERENTLY UNIQUELY IDENTIFIABLE in  $s_0$  iff

$$\forall s [s \approx s_0 \rightarrow \exists! y [P(s)(y)]]$$

All situations that are like  $s_0$  are such that there is exactly one entity with property  $P$  in those situations.

(8) **Accidental uniqueness**

For any property  $P$ , entity  $x$ , and situation  $s_0$ , such that  $P(s_0)(x) = 1$ ,

$x$  is ACCIDENTALLY UNIQUELY IDENTIFIABLE in  $s_0$  iff

$$\exists! z [P(s_0)(z)] \wedge \neg \forall s [s \approx s_0 \rightarrow \exists! y [P(s)(y)]]$$

Exactly one entity is  $P$  in  $s_0$  and it is not the case that all situations that are like  $s_0$  are such that there is a exactly one entity with property  $P$  in those situations.

The “likeness” relation ( $\approx$ ) is essentially a modal accessibility relation, which could be formulated by a version of Kratzer’s (1981; 1991; 2012) modal semantics. Kratzer’s semantics of modal expressions like *must*, provided for explicitness in (9) (in slightly adapted Hacquard’s 2011: 1493 formulation), relies on two kinds of CONVERSATIONAL BACKGROUNDS – a MODAL BASE  $f$  and an ORDERING SOURCE  $g$ . These conversational backgrounds are free variables, whose values are determined contextually. In a sentence like *John must be at home*, with *must* interpreted epistemically, the value of the modal base  $f$  at some evaluation situation  $s_0$  is the set of propositions compatible with what we know in  $s_0$  – so called epistemic modal base (the propositions might include ‘it is 5pm’, ‘the lights in John’s house are on’, and ‘John finishes work at 3pm’). This set of propositions is turned into a set of possible worlds (single proposition) by  $\cap$ . Then,  $BEST_{g(s)}$  imposes an ordering on that set of possible worlds, picking out only those worlds that best correspond to what is normal or usual (excluding possibilities in which

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<sup>9</sup>The notion of inherent vs. accidental uniqueness might seem reminiscent of Löbner’s (1985; 2011) concept types, whereby inherent uniqueness might correspond to the “individual” type, and accidental uniqueness to the “sortal” type. Yet, Löbner’s concept types are types of nouns and are, therefore, lexically determined (the noun *sun* is always individual and the noun *book* is always sortal). The distinction between inherent and accidental uniqueness is sensitive to context and one and the same noun can be used can involve both types of uniqueness.



John forgot the lights on in the morning and had an accident on the way home, for instance) – so called stereotypical ordering source.

- (9) For any evaluation situation  $s_0$  and conversational backgrounds  $f, g$ ,  
 $\llbracket \text{must} \rrbracket = \lambda q_{\langle s, t \rangle} \forall w [w \in \text{BEST}_{g(s_0)}(\bigcap f(s_0)) \rightarrow q(w) = 1]$

The reason why we need a *version* of Kratzer’s semantics is that the situations we quantify over in (7)/(8) are not situations where all the facts or, for our case, circumstances of the evaluation situation  $s_0$  hold. We need to generalize/abstract over selected parameters and quantify, for instance, over situations that have a different temporal parameter than  $s_0$  (e.g., not just the classroom now, but also the classroom today, etc.). We could postulate a subspecies of Kratzer’s modal base, call it GENERIC MODAL BASE  $f_{\text{GEN}}$ , which takes the evaluation situation  $s_0$  and returns a set of propositions with various parameters of  $s_0$  modified (e.g.  $\{\lambda s[s \text{ is the classroom situation at } t] \mid t \text{ is some time}\}$ ). At the same time, however, there must be a limit to the variation in the modal base, otherwise inherent uniqueness could never be satisfied (there certainly is some time at which there was no blackboard in the classroom, such as the time when the classroom was freshly built, but not yet furnished). Restricting the modal base is, of course, the function of Kratzer’s ordering source. The particular type of ordering source needed is the stereotypical ordering source, which will help us limit the situations to be quantified over to the normal or usual ones (thereby excluding situations such as the “unfinished classroom” situation).

Armed with this theory, we could reformulate the universal quantification in (7) by (10).

$$(10) \quad \forall s [s \in \text{BEST}_{g(s_0)}(\bigcap f_{\text{GEN}}(s_0)) \rightarrow \exists! y [P(s)(y)]]$$

While using bare or demonstrative NPs, discourse participants start from the evaluation situation and come up with some relevant restricted generalization over that situation, checking whether uniqueness remains satisfied across the relevant situations ( $\leadsto$  inherent uniqueness) or not ( $\leadsto$  accidental uniqueness). In what follows, I will stick to the simple formalization provided in (7)/(8), assuming that something like (10) could be its more precise version.

Let me conclude this subsection by providing the formal truth-conditions of our initial examples (I ignore the contribution of imperative mood for simplicity). In these truth-conditions, inherent vs. accidental uniqueness is encoded as a presupposition (enclosed in a box for clarity).<sup>10</sup>

<sup>10</sup>For the sake clarity, I rely on some standard semantic instruments in formulating (11) and (12), in particular the IOTA type shift (Partee 1987) and the notation of the presupposition. In what follows, I reconsider some important details of the analysis.

- (11)  $\llbracket \text{erase blackboard} \rrbracket^c$   
 $= \lambda s : \boxed{\forall s' [s' \approx s \rightarrow \exists !x [\text{BLACKBOARD}(s')(x)]]}$   
 $\text{ERASE}(s) (\iota x \text{BLACKBOARD}(s)(x)) (\text{HEARER}(c))$
- (12)  $\llbracket \text{show me DEM book} \rrbracket^c$   
 $= \lambda s : \boxed{\exists !z [P(s_0)(z)] \wedge \neg \forall s' [s' \approx s \rightarrow \exists !x [\text{BOOK}(s')(x)]]}$   
 $\text{SHOW}(s) (\iota x \text{BOOK}(s)(x)) (\text{SPEAKER}(c)) (\text{HEARER}(c))$

### 3.3 The syntax-semantics of bare vs. demonstrative NPs

There are many ways of incorporating inherent vs. accidental uniqueness into the representation of NPs or the clauses they are contained in. In what follows, I will sketch one possible analysis, where inherent uniqueness is taken to be a property of topic situations (rather than NPs) and accidental uniqueness a property of demonstratives. The advantage of this view is that it gives us enough flexibility in the treatment of bare NPs, which are known to be underspecified with respect to their referential properties – depending on the context and various grammatical properties, they can correspond to definite as well as indefinite NPs.<sup>11</sup>

#### 3.3.1 Bare NPs and inherent uniqueness

I follow the spirit of Heim’s (2011: 1006) suggestion, supported by the experimental results of Šimík & Demian (2019), and assume that bare NPs contribute no definiteness-related presupposition (such as uniqueness or maximality). Contrary to Heim (2011), however, I treat argumental bare NPs not as existential quantifiers, but as referential expressions.<sup>12</sup> As demonstrated in Figure 2, I take the basic predicative (property-type) NP to be shifted by a Skolemized choice-function  $f_1$ , whose index maps to a situation.<sup>13</sup> The corresponding compositional meaning is spelled out in (13). The choice function picks out some entity that is a blackboard in situation  $g(1)$ . If this situation is the topic situation ( $s_T$ ), then the

<sup>11</sup>The literature on (Slavic) bare NPs is vast. The traditional underspecification view is represented for instance by Chierchia (1998) or Geist (2010). But see also Dayal (2004; 2011), who treats almost all bare NPs in articleless Slavic languages essentially as definites.

<sup>12</sup>I assign “referentiality” a weak (but commonly assumed) sense, namely “being of type  $e$ ”. Being referential thus implies nothing about being presuppositional or familiar.

<sup>13</sup>For a choice-functional approach to Slavic indefinites, including the use of Skolemization, see Yanovich (2005) or Geist (2008). My proposal is in principle compatible with theirs, the only difference lies in the nature of the Skolem argument. I take the situation-type Skolem argument to be a kind of default that can be overridden by using various determiners, esp. so called indefinite markers.

whole bare NP will refer to some blackboard in the topic situation. If the topic situation is our classroom situation, then the NP will refer to the unique blackboard in that situation.

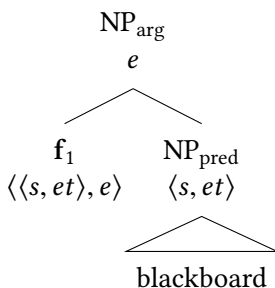


Figure 1: Representation of an argumental bare NP

- (13)
- a.  $\llbracket \text{NP}_{\text{pred}} \rrbracket^g = \lambda s \lambda x [\text{BLACKBOARD}(s)(x)]$
  - b.  $\llbracket \mathbf{f}_1 \rrbracket^g = \lambda P [\text{some } x \text{ such that } P(g(1))(x)]$
  - c.  $\llbracket \text{NP}_{\text{arg}} \rrbracket^g = \text{some } x \text{ such that } \text{BLACKBOARD}(g(1))(x)$
  - d.  $\llbracket \text{NP}_{\text{arg}} \rrbracket^g = \text{some } x \text{ such that } \text{BLACKBOARD}(s_\tau)(x)$  (for  $g(1) = s_\tau$ )

Notice that the bare NP is entirely presupposition-free – neither does it introduce a uniqueness presupposition (cf. Dayal 2004), nor the presupposition of the blackboard’s inherent uniqueness. The question is how the implication of inherent uniqueness enters the semantics. I will assume, without much argumentation for the present purposes, that the implication is part of our knowledge about topic situations. It is, therefore, a PRAGMATIC PRESUPPOSITION in the sense of Stalnaker (1974).<sup>14</sup> Speaking more generally, situations with inherently unique parts are good candidates for the use of a bare NP because they make it particularly easy for the discourse participants to agree on the referent for such an NP; the referent is simply the unique entity that satisfies its description and that is normally present and uniquely identifiable in the situation.

### 3.3.2 Demonstrative NPs and accidental uniqueness

My analysis of demonstrative NPs is parallel to what I proposed for bare NPs. I take the demonstrative to be an indexed definite determiner. As shown in (14b), it

<sup>14</sup>For an accessible discussion of the phenomenon of presupposition and the distinction between semantic and pragmatic presupposition, see Beaver & Geurts (2014).

introduces a presupposition – a SEMANTIC PRESUPPOSITION this time, namely the presupposition of accidental uniqueness. If the presupposition is satisfied, it picks out the accidentally unique individual in the resource situation. If the resource situation is the topic situation, which in turn corresponds to our conversation situation, then the demonstrative NP refers to the unique book in that situation.

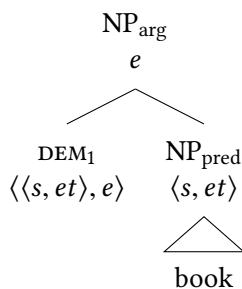


Figure 2: Representation of an argumental demonstrative NP

- (14) a.  $\llbracket \text{NP}_{\text{pred}} \rrbracket^g = \lambda s \lambda x [\text{BOOK}(s)(x)]$   
 b.  $\llbracket \text{DEM}_1 \rrbracket^g = \lambda P : \exists! z [P(g(1))(z)] \wedge \neg \forall s [s \approx g(1) \rightarrow \exists! y [P(s)(y)]]$ .  
 the  $x$  such that  $P(g(1))(x)$   
 c.  $\llbracket \text{NP}_{\text{arg}} \rrbracket^g$  defined if  
 $\exists! z [P(g(1))(z)] \wedge \neg \forall s [s \approx g(1) \rightarrow \exists! y [\text{BOOK}(s)(y)]]$   
 if defined, then  
 $\llbracket \text{NP}_{\text{arg}} \rrbracket^g =$  the  $x$  such that  $\text{BOOK}(g(1))(x)$   
 d.  $\llbracket \text{NP}_{\text{arg}} \rrbracket^g$  defined if  $\exists! z [P(s_\tau)(z)] \wedge \neg \forall s [s \approx s_\tau \rightarrow \exists! y [\text{BOOK}(s)(y)]]$   
 if defined, then  
 $\llbracket \text{NP}_{\text{arg}} \rrbracket^g =$  the  $x$  such that  $\text{BOOK}(s_\tau)(x)$  (for  $g(1) = s_\tau$ )

The semantic presupposition introduced by the demonstrative overrides a potential pragmatic presupposition associated with the topic situation (if there is such a presupposition in the first place), on which a potential bare NP would piggy-back. In §4 we will see that the choice of bare vs. demonstrative NP is indeed instrumental drawing inferences about what the resource situation is. More particularly, the lack of a demonstrative where one would expect one can lead to the search for a situation in which inherent uniqueness is satisfied.

Before we move on, let me clarify one important thing. The present analysis of demonstrative NPs primarily applies to cases of situational uniqueness. Whether

the analysis could or should be extended to deictic, anaphoric, or affective demonstratives is yet to be seen (see §5 for a preliminary extension to anaphoric demonstratives). For the moment, I assume that the present analysis is compatible with a syntactically and semantically richer analysis of demonstrative determiners, under which the demonstrative does not only contribute definiteness-related semantics (uniqueness, or accidental uniqueness), but also another entity-type index, whose value – determined anaphorically or extra-linguistically – is equated (or related in some other way) to the referent of the definite core. I refer the reader to Šimík (2016) for relevant discussion.<sup>15</sup>

## 4 Evidence

Let us now go through a number of examples illustrating the effect of NP type on uniqueness type, while at the same time doing away with the caveats associated with our initial examples. In order to minimize confounding factors, I will consider one example where the topic/resource situation is held constant and where the referent differs and another one where the referent description is held constant, but the topic/resource situation differs (minimally). I conclude with an example where the NP type (bare vs. demonstrative) steers the discourse participants' attention to two different topic/resource situations.

### Same situation, different referent

Consider example (15), involving an office desk situation and two student assistants, both familiar with the situation. The example shows that reference to the single computer in the office is made by a bare NP, while reference to the single book in the office is made by a demonstrative NP. This is because the computer is inherently unique in that situation, while the book is only accidentally unique there, as highlighted by the formulas.

- (15) *Situation*: Two student assistants A and B are at their shared workdesk, which they share with other student assistants and where there's a computer and a couple of other things, including a book (it doesn't really matter to whom the book belongs). A is looking for a pencil, B says

B<sub>1</sub> Nějaká tužka je vedle {počítače / #toho počítače}.      INHERENT  
some pencil is next.to computer      DEM computer  
'There's a pencil next to the computer.'

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<sup>15</sup>To be somewhat more precise, I believe that the present DEM could replace Šimík's (2016: section 3.2.2) D without any collateral damage.

$$\boxed{\forall s [s \approx s_T \rightarrow \exists! x [\text{COMPUTER}(s)(x)]]}$$

All situations like the topic situation – A and B’s shared office (desk) – have exactly one computer in it.

- B<sub>2</sub> Nějaká tužka je vedle {té knížky / #knížky}. ACCIDENTAL  
 some pencil is next.to DEM book book  
 ‘There’s a pencil next to the book.’

$$\boxed{\exists! z [\text{BOOK}(s_T)(z)] \wedge \neg \forall s [s \approx s_T \rightarrow \exists! x [\text{BOOK}(s)(x)]]}$$

There is exactly one book in the topic situation – A and B’s shared office (desk) – and it does not hold that all situation like the topic situation have exactly one book in it.

### Same referent, different situation

Consider examples (16) and (17). The situations are minimally different – one involves a bedroom and the other a hotel room. The rooms could in fact look completely identical, clearly suggesting that what is at stake is the knowledge of the discourse participants – the married couple – about the situation. The case of (16) is simple and behaves as expected – the lamp is uniquely inherent in the bedroom situation and is therefore referred to by a bare NP.<sup>16</sup> Example (17) calls for more attention, as it reveals something important about the generic modal base involved in the semantics of NPs. Given that the married couple has just arrived, they have not had any experience of the room that could provide the basis for generalizations. There are two possibilities of what the relevant conversational background could be in this case. One is that the contribution of the modal base is weakened and the quantification is restricted mainly or only by the stereotypical ordering source. This would indeed give rise to a domain of bedroom situations all of which have exactly one lamp in it; after all, it is highly improbable that the number of lamps would differ from one situation to another. If this was the domain of quantification, we would expect a bare NP to surface, contrary to facts. Obviously, the discourse participants choose a different conversational background – one that is based on their experience. Because they have no prior experience with this particular room, they generalize over all hotel room situations (the contribution of the generic modal base). Even if the stereotypical ordering source filters out the abnormal ones, we end up with a set of situations

<sup>16</sup>If the demonstrative used, the affective reading becomes particularly salient, esp. if supported by an adverb like *zase* ‘again’, which could happen in a scenario where there have been problems with the lamp repeatedly and the husband is annoyed by the lamp not working.

in which the number of lamps is not constant – it is not the case that all normal hotel room situations involve exactly one lamp. It is this conversational background that motivates the use of the demonstrative NP.

- (16) *Situation:* Husband H and wife W are in their bedroom, where they happen to have a single lamp. H says:

H {Lampička / #Ta lampička} nesvítí. INHERENT  
 lamp DEM lamp NEG.light  
 ‘The lamp doesn’t work.’

$$\boxed{\forall s [s \approx s_T \rightarrow \exists! x [\text{LAMP}(s)(x)]]}$$

All situations that are like the topic situation – the bedroom of the married couple – have exactly one lamp in it.

- (17) *Situation:* Husband H and wife W have just arrived in their hotel. In the room, there happens to be a single lamp, and both H and W are familiar with this fact.

H {Ta lampička / #Lampička} nesvítí. ACCIDENTAL  
 DEM lamp lamp NEG.light  
 ‘The lamp doesn’t work.’

$$\boxed{\exists! z [\text{LAMP}(s_T)(z)] \wedge \neg \forall s [s \approx s_T \rightarrow \exists! x [\text{LAMP}(s)(x)]]}$$

There is exactly one lamp in the topic situation – the hotel room of the married couple – and it does not hold that all situations like the topic situation (i.e., all hotel rooms) have exactly one lamp.

### Choice of NP type affects choice of situation

Example (18) demonstrates a number of things important to the proposal. First, it involves reference to entities that are not present in the immediate discourse situation. As such, it does away with the deixis confound (see the discussion below (4)). I should also point out that the intended interpretation is not anaphoric – the relevant referent need not have been mentioned before the utterance under investigation. Second, the example shows that the implications associated with bare vs. demonstrative NPs are salient enough to affect the choice of the relevant topic/resource situation and, consequently, the choice of the referent, which in turn affects the truth conditions (see also example (6) and the associated discussion). Consider first the utterance (18A<sub>1</sub>), which only has the reading in (i), but not the one in (ii). The baseline topic situation (a/the committee meeting situation) is not one that could afford a referent for the bare NP, as it is not the case

all committee meetings have a single mayor in them. Hence, by using a bare NP, A invites B to accommodate a broader topic situation, one that both A and B are familiar with and which does have exactly one mayor in it. This mayor is the mayor of T1, the town where A and B come from. The truth conditions of (18A<sub>2</sub>) are inverse, as the demonstrative NP refers not to the mayor of T1, but to the other mayor present at the meeting. This brings us to the last important point illustrated by this example. The uniqueness presupposition contributed by the demonstrative is apparently not satisfied in this case (which is why I have highlighted this presupposition by wavy underlining): it does not hold that there was a single mayor in the committee meeting. Yet, the non-uniqueness could just be an illusion. The reason is that if we modify the situation a bit, so that there are three mayors in the meeting (mayor of T1 plus two others), (18A<sub>2</sub>) leads to a presupposition failure and would likely be followed by a ‘wait a minute’ reaction from B (von Stechow 2008). Therefore, I hypothesize that the mayor of T1 is not really considered as a candidate for being referred to by the demonstrative NP, probably because he would have to be referred to by a bare NP, as in (18A<sub>1</sub>). The precise mechanism of this competition-based domain restriction is left for future research.<sup>17</sup>

- (18) *Situation*: A and B, both from town T1, are having a conversation about an environmental committee meeting that they both attended last week in a neighboring town T2. The ad hoc committee consisted of various public figures, including two mayors, one of whom was the mayor of T1 (the town where both A and B live). A says:

- A<sub>1</sub> Starosta podal přesvědčivé argumenty. INHERENT  
 mayor gave convincing arguments  
 i. ✓ ‘The mayor of T1 (our mayor) gave convincing arguments.’  
 ii. ✗ ‘The mayor of T2 gave convincing arguments.’

$$\boxed{\forall s [s \approx s_1^1 \rightarrow \exists! x [\text{MAYOR}(s)(x)]]}$$

(where  $s_1^1$  is a supersituation of the committee meeting situation, which includes some relevant common ground facts of A and B; in that situation, there is generally a single mayor, namely the mayor of T1)

<sup>17</sup>Inspiration might be sought in so called anti-uniqueness inferences triggered by the use of an indefinite NP where a definite NP is expected. *A Czech president* implies that there are multiple Czech presidents and, even if the NP refers to somebody (or if there is a suitable witness, if the NP is quantificational), then it is not the individual that one would refer to by *the Czech president*. For relevant discussion, see Hawkins (1978); Heim (1991); Sauerland (2008).



- A<sub>2</sub> Ten starosta podal přesvědčivé argumenty. ACCIDENTAL  
 DEM mayor gave convincing arguments
- i. ✓ ‘The other mayor (not of T1) gave convincing arguments.’
  - ii. ✗ ‘The mayor of T1 (our mayor) gave convincing arguments.’

$$\boxed{\exists!z[\text{MAYOR}(s_{\tau}^2)(z)] \wedge \neg\forall s[s \approx s_{\tau}^2 \rightarrow \exists!x[\text{MAYOR}(s)(x)]]}$$

(where  $s_{\tau}^2$  is a/the committee meeting situation)

To sum up, in this section I have provided evidence that further supports the reality of the inherent vs. accidental uniqueness distinction and its association with bare vs. demonstrative NPs. I attempted to do away with some potential confounds by using minimal pairs – particularly identical NP descriptions (minimally varying the situation) and identical situations (minimally varying the NP description).

## 5 Extension to generic and anaphoric nominals

So far, I have only focused on NPs that refer to referents that are uniquely identifiable relative to a situation. By doing that, I have demonstrated that Czech demonstrative NPs are not just reserved for deictic or anaphoric reference, but can also be used for situational reference, as long as the presupposition of accidental uniqueness is satisfied. While I will not be able to discuss deictic or affective demonstrative NPs (for that, see Šimík 2016 and the references cited therein), I would like to outline briefly how the analysis could be applied to two well-established classes of NPs: generic and anaphoric NPs.

### 5.1 Generic NPs

Inherent uniqueness is clearly related to genericity. While NPs referring to inherently unique entities refer to PARTICULARS, entities with tangible properties located in a particular space and time, generic NPs refer to more abstract objects called KINDS. Reference to kinds is often achieved by bare NPs, sometimes even in languages with articles (cf. English bare plurals; Carlson 1977). This also holds of Czech, as illustrated in (19).<sup>18</sup>

<sup>18</sup>Some languages with articles use definite NPs to refer to kinds, either obligatorily so (e.g. Spanish; Borik & Espinal 2015), or in variation with bare NPs (e.g. Brazilian Portuguese; Schmitt & Munn 1999). For an in-depth study of nominal genericity in Russian, see Seres (in prep).

- (19) a. Vlk je savec.  
 wolf.SG is mammal.SG  
 ‘The wolf is a mammal.’
- b. Ptáci se vyvinuli z dinosaurů.  
 birds REFL evolved from dinosaurs.  
 ‘Birds evolved from dinosaurs.’
- c. Nesnáším {kapra / houby}.  
 hate.1SG carp.SG mushrooms  
 ‘I hate {carp / mushrooms}.’

I would like to argue that generic NPs fall out as a special case of inherently unique NPs in my analysis.<sup>19</sup> Statements involving generic NPs, like the ones in (19), are often evaluated with respect to relatively large topic situations or possibly the whole world (maximal situation). Consider (19a) for illustration. This statement intuitively satisfies the presupposition in (20) – all worlds that are like the actual world in relevant respects are such that they have exactly one wolf-kind in them. In other words, the inherent uniqueness of the the relevant kind is satisfied in (19a) and so it is in other cases in (19) and more generally, I would argue.

$$(20) \quad \forall w [w \approx w_0 \rightarrow \exists! x [\text{WOLF}_k(w)(x)]]$$

Many interesting issues remain open, among them the status of so called weak definites (as in *go to the store*), which are also expressed by bare NPs in Czech and which have been argued to be kind-denoting at some level of representation (Aguilar-Guevara & Zwarts 2011). Weak definites are interesting in that they do not satisfy – or at least not in any immediately obvious sense – the uniqueness presupposition (one can *go to the store* even if there are multiple stores around). I believe that the present analysis might offer an insight into this issue, namely by letting the inherent uniqueness presupposition be restricted by an appropriate conversational background. More particularly, the quantification could be over situations restricted by a bouletic conversational background (ordering source), i.e., one related to wishes or intentions, and include only situations in which there is a single store (because one wants or intends to go to just one).

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<sup>19</sup>Therefore, it makes sense that they are bare in a language like Czech. But this can hardly be taken for a significant achievement of the present analysis, as all theories known to me predict the same.

## 5.2 Anaphoric NPs

There is a clear tendency in some Slavic languages to use demonstrative (rather than bare) NPs for discourse anaphora. This is illustrated for Czech in (21). For parallel facts from Serbo-Croatian, see [Arsenijević \(2018\)](#).

- (21) Chytil jsem            brouka. {Ten brouk / #Brouk} má velká kusadla.  
      caught be.AUX.1SG bug        DEM bug        bug        has large fangs  
      ‘I caught a bug. The bug has large fangs.’

In [Šimík \(2016\)](#), I followed [Elbourne \(2008\)](#) and [Schwarz \(2009\)](#) and proposed that the anaphoric function of demonstratives is due to their syntactic and semantic structure, which is richer (proper superset) of that of a definite article. Without intending to argue against this view, I would like to suggest that the analysis in terms of accidental uniqueness provides us with an alternative view (a detailed comparison is left for another occasion).

It seems clear that discourse anaphoric demonstrative NPs have to rely on discourse representation in one way or another. Normally, this is achieved by equating the reference of the demonstrative NP with the reference of some other referent mentioned in previous discourse. Suppose, however, that the coreference is achieved indirectly – via situations. The idea is that anaphoric NPs take the discourse situation, name it  $s_D$ , as their resource situation.<sup>20</sup> Consider now the accidental uniqueness presupposition in (22), predicted by my analysis for the second sentence of (21). It states that there is exactly one bug in the discourse situation and that it is not the case that all situations that are like the discourse situation are such that they have exactly one bug in them. The former conjunct seems to be satisfied. The latter conjunct is the crucial one: it implies that if one attempts to generalize over discourse situations, one fails to one particular referent in them. That sounds plausible to me. Individual discourse situations have very different and often unpredictable properties. Unless one considers a very ritualized discourse situation (such as a wedding ceremony, perhaps), it is hard, if not impossible, to find a discourse situation which would always and reliably contain one particular referent. In other words, discourse referents are always accidentally unique and the use of a demonstrative NP is predicted.

- (22)  $\exists!z[\text{BUG}(s_D)(z)] \wedge \neg\forall s[s \approx s_D \rightarrow \exists!x[\text{BUG}(s)(x)]]$

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<sup>20</sup>Notice that what is relevant here is the resource situation of the demonstrative NP, based on which the relevant presupposition is defined. The topic situation might well be disjoint from the discourse situation.

## 6 Summary and outlook

Based on the analysis of referential bare and demonstrative NPs in Czech, I proposed that two types of uniqueness need to be distinguished: inherent uniqueness and accidental uniqueness. The type of uniqueness is defined relative to the resource situation of NPs, building on insights from situation semantics, and is formalized in terms of Kratzer's (1981; 1991) modal semantics. A referent of an NP is inherently unique if all situations that are like the resource situation have exactly one entity that satisfies the NP restriction; it is accidentally unique otherwise. I argued that referential bare NPs convey inherent uniqueness and demonstrative NPs convey accidental uniqueness and proposed a syntax and semantics for these two types of NPs in Czech.

The present paper offers a novel perspective of two traditionally distinguished classes of non-deictic referential NPs. Contrary to the traditional view, recently reinforced by much formal literature, according to which bare NPs are reserved for situational uniqueness and demonstrative NPs for anaphoricity, the present proposal cuts the pie differently – into two types of uniqueness. And, as I suggested in §5, the anaphoric function might just be a special case of accidental uniqueness. Future research might show whether the analysis can be extended to other Slavic languages or even the weak vs. strong definite article contrast in languages like German. Another direction for future research consists in determining whether the concept of accidental uniqueness, and the associated situational uniqueness uses of demonstrative NPs, might form a bridge for the grammaticalization or diachronic development of the demonstrative into the definite article.

## Abbreviations

1	first person	INSTR	instrumental
AUX	auxiliary	REFL	reflexive
DEM	demonstrative	SG	singular
IMP	imperative		

## Acknowledgements

Acknowledgements to be added.

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Yanovich, Igor. 2005. Choice-functional series of indefinites and Hamblin semantics. In Effi Georgala & Jonathan Howell (eds.), *SALT 15: Proceedings from the 15th Conference on Semantics and Linguistic Theory*, 309–326. Ithaca, NY: CLC Publications. DOI:[10.3765/salt.v15i0.2921](https://doi.org/10.3765/salt.v15i0.2921)