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On the rescuing of *des*-indefinites

Carmen Dobrovie-Sorin (CNRS-LLF, University de Paris Diderot), Tabea Ihsane (University of Zurich), David Paul Gerards (University of Leipzig)

Overview:

(i) *des/de la/du* = counterparts of English bare plurals (BPs) and bare mass NPs (BMNs).

⇒ same semantic analysis:

- property-denotation (Bosveld-de Smet 1998; Dobrovie-Sorin & Beyssade 2004; Ihsane 2008; a.o.)
- weak exist Qs (Dobrovie-Sorin & Beyssade 2012, Dobrovie-Sorin & Giurgea 2015)

(ii) *des/de la/du* ≠ BPs, BMNs: narrow scope wrt. Neg.

⇒ Dobrovie-Sorin (2020):

- Bare Nouns (BNs) in argument positions denote properties => verb modifiers, complex pred. formation.
- *des*-indefinites in argument positions denote weak exist Qs.

(iii) *des/de la/du* ≠ *some*-NPs: rescuing contexts

⇒ Dobrovie-Sorin & Ihsane (submitted), Dobrovie-Sorin, Ihsane & Gerards (in progress)

1. Positive Polarity Items: *des*-indefinites vs. Bare Nouns

1.1 *Des*-indefinites and negation: the core data

• *des* => *de* (standard French, Gross 1967; Attal 1976; Wilmet 1977 and Kupferman 1979; for colloquial French, see Strebel 2022, Strebel/Ihsane/Stark 2022)

- (1) a. Jean a filmé des ours.
b. Jean a acheté du vin.

- (2) In standard French, *des*-indefinites cannot take local narrow scope with regard to Negation (in unmarked contexts).

- (3) a. Jean n’a pas filmé d’ours/*des ours.
b. Jean n’a pas acheté de vin/*du vin.

- (4) A PPI is a constituent that cannot take local narrow scope with regard to Negation.

- (5) ***Des*-indefinites are PPIs.**

1.2 Bare Nouns are not PPIs

- (6) All existentially interpreted BNs (BPs, BMNs, BSs) take narrow scope with regard to Negation (Carlson 1977):

- (7) a. John has(n't) read novels.
b. Mary doesn't drink/drinks milk.

• kind denotation (Carlson 1977) or property denotation (van Geenhoven 1996)

• **Predicate Modification**

- (8) All BNs (i.e., BSs, BPs and BMNs in subject or object positions) are/can be property-denoting expressions that compose with the main predicate via Predicate Modification.

- (9) $[[V]] = \lambda P \lambda y \exists e [P-V(e) \wedge Ag(e) = y \wedge \textit{Appropriately Classificatory}(e)]$
where $\exists e P-V(e)$ is true iff $\exists e' (V(e') \wedge \exists x (\textit{Theme}(e') = x \wedge P(x))$ (adapted Dayal 2011, 146)

• **Predicate Modification and Negation**

• BNs are modifiers of the main verb, sentential negation involves a negated existential quantifier that binds an event-variable (Acquaviva 1997, Giannakidou 1997 and Zeijlstra 2004):

- (10) John didn't buy tickets.
 $\neg \exists e [\textit{ticket-buy}(e) \ \& \ \textit{Agent}(e, \textit{John})]$ 'there was no event of John buying tickets'

1.3 Analysis of *des*-indefinites

- (11) a. *Des*-indefinites are property-denoting nominals (on a par with BNs).
(Bosveld de Smet 1998, 2004, Dobrovie-Sorin & Beyssade, Ihsane 2008, a.o.)
b. *Des*-indefinites are weak existential quantifiers.
(Dobrovie-Sorin & Beyssade 2012, Dobrovie-Sorin and Giurgea 2015):

- (12) $[[\textit{des}]] = \lambda P_{\textit{cum}} \lambda Q \lambda e \exists x (P(x) \wedge Q(x)(e))$
defined iff Q is a localizing predicate

• There are two types of localizing predicates:

- (i) predicates with locative adjuncts, e.g. *sleep (in the room), dance (in the street)*
(ii) predicates that express spatial relations between their arguments (e.g. *surround, around, on, under, put something somewhere*).

• The denotation in (12) differs from the standard GQ denotation of indefinite Det's (which does not distinguish between 'weak' and 'strong' indefinite determiners) in several respects:

- (i) the nominal argument denotes a 'cumulative' predicate (see mass and plural NPs);
(ii) in addition to the two property-denoting arguments P and Q, we have the event argument;
(iii) finally, the second argument, Q, corresponding to the main predicate, must be 'localizing'.

- (13) a. Jean lisait des livres.
b. $\exists e \exists z (*\textit{book}(z) \wedge \textit{read}(e) \wedge \textit{Theme}(e)=z \wedge \textit{Agent}(e) = \textit{Jean})$

2. *De*-indefinites

(14) Jean n'a pas lu de livres.

- invariable *de* = strict NPI
- Collins and Postal's (2014) analysis of strict NPIs = Polyadic Quantification subject to Determiner Sharing
- We will propose a revised version of Dobrovie-Sorin's (2020) polyadic Q analysis of *de*-indefinites.

2.1 Negative Concord: Polyadic Quantification

- Polyadic quantification other than NEG-concord: (Keenan 1987, 1992, 1996, Peters and Westerståhl 2006).
- NEG-concord: a sequence of neg. indefinites is interpreted as a complex negative quantifier
 - May (1989), van Benthem (1989): polyadic quantifier approach
 - Deprez (1997): 'resumption' analysis of N-words underlies Neg concord
 - de Swart (1999): polyadic approach extended to N-word + sent negation co-occurrence
 - de Swart and Sag (2002)

(15) *Niciun student nu respectă niciun profesor.* (Romanian)
no student not respects no professor
'No student respects any professor.'

- The N-words do not each count as a negative quantifier (would cancel each other)
=> polyadic quantification = several variables are bound by a unique n-ary negative quantifier:

(16) $\neg\exists_{\langle x,y \rangle}$ student(x) & professor(y) & respect (x, y)

- A Neg polyadic quantifier can also bind an event variable, in addition to one of more indiv var's:

(17) *Niciun student n-a citit nicio carte.* (Romanian)
no student not-has read no book
'No student read any book.'

(18) $\neg\exists_{\langle e,x,y \rangle}$ student(x) & book(y) & read (e,x,y)

2.2 Polyadic Q is constrained by Zeijlstra's (2012) Upward Agree

- Upward Agree as a constraint on Polyadic Q¹ replaces Collins & Postal's (2014) Determiner Sharing, used by Dobrovie-Sorin (2020).

(19) Upward Agree: α agrees with β iff

¹ Note that in Zeijlstra's (2004) own implementation Upward Agree yields a unary Q.

- a. α carries at least one uninterpretable feature [uF] and β carries a matching interpretable feature [iF];
 - b. β c-commands α ;
 - c. β is the closest goal to α .
- Upward Agree is satisfied in (17) because N-words are marked with the [uNEG] feature, which is checked against the NEG feature of sentential negation.
 - Bjorkman & Zeijlstra (2019) and Zeijlstra (2022: 502)
 - The features that enter (Upward) AGREE are purely syntactic in nature.
 - Semantic content is orthogonal to uninterpretable/interpretable =>
 - Dependent/independent would be a better label than uninterpretable/interpretable.

2.3 *De*-indefinites: NEG polyadic quantification constrained by Upward Agree²

- Kayne (1975, his Section 2.5): invariable DE under NEG: [\emptyset de NP], where \emptyset is an empty QP (see also Ihsane 2008 for a similar analysis).
- Extending polyadic Q to *de*-indefinites.

(20) Local narrow scope of an indefinite DP with respect to sentential Negation is read off an LF relying on polyadic quantification.

(21) Polyadic Q is constrained by Upward Agree (see § 2.2)

=>

- (22) a. *des*-indef's do not carry a uNEG feature => *narrow scope wrt sentential NEG
- b. *de*-indef's carry a uNEG feature => narrow scope wrt NEG

(23) [DP[D \emptyset][MeasP [Spec,Meas/QuantP \emptyset]_{uNEG} [Meas' [Meas $^\circ$ DE] [NP livres]]]]

(24) Jean n'a [_{NEG} pas] lu [DP[D \emptyset][MeasP [Spec,Meas/QuantP \emptyset]_{uNEG} [Meas' [Meas $^\circ$ DE] [NP livres]]]]

(25) $\neg \exists_{\langle e,x \rangle}$ books(x) & read (e,x)

3. Rescuing: when PPIs (*des*) can scope under Negation

3.1 *Des*-indefinites can be 'rescued'

- Rescuing of *some*-PPIs in English: Szabolcsi (2004)
- *Des*-indefinites are allowed in 'rescuing' contexts:

(26) a. Je ne crois pas qu'il n'a pas mangé du chocolat.

² Compare Upward AGREE with QR (see Déprez 1997) or Det Sharing (Collins & Postal 2014).

- b. Je regrette qu'il n'a pas écrit des romans.
- c. Si Jean n'achète pas des gâteaux, j'irai en acheter.
- d. Seulement Jean n'a pas acheté des gâteaux.

- Larrivée (2012):
 - negated questions
 - complement of *the fact*

- (27) a. N'a-t-il pas écrit des romans ?
 b. Le fait qu'il n'a pas écrit des romans.

- Szabolcsi (2004):
 - PPIs (*some* in particular) are doubly-negated existentials in their underlying representation.
 - Rescuing: presence of two downward monotonic operators, each of which would license one of the two negations of the *some*-indefinite.
 - Unacceptability of *some* in anti-licensing contexts (immediate scope under NEG): only one of the two negative elements is licensed.
 - Acceptability of *some* with no NEG: the two negations cancel each other.

- Larrivée (2012): rescuing contexts triggering the **activation of propositions** (Dryer 1996)

3.2 Internal vs external Negation

- Inner vs. outer negation: De Clercq (2020) and references quoted there. The proposal here builds on the hypothesis of inner vs. outer negation, but the details of the implementation are new.

- **Inner Negation:** NEG is inside the TP => negative exist Q over events or event-indiv tuples

(28) $[_{TP} \neg \exists [Jean \text{ n'a } [_{NEG} \text{ pas}] \text{ lu } [_{DP} [_{D} \emptyset]] [_{MeasP} [_{Sp, Meas/QuantP} \emptyset]]_{uNEG} [_{Meas'} [_{Meas^\circ} DE] [_{NP} \text{ romans}]]]]]$

(29) $\neg \exists_{\langle e, x \rangle} \text{books}(x) \ \& \ \text{read}(e, x, \text{John})$

**des*-DPs do not have uNEG => Upward Agree is not satisfied => *polyadic Q

- **Outer Negation:**
 - NEG raises out of the TP.
 - NEG raising is conditioned by the activation of functional projections above TP (Krifka's Comm(itment) and Judg(ment) Heads), related to conversational/illocutionary operators, e.g.,
 - *if, I regret, only* are illocutionary operators that sit in the Spec of Krifka's (2020) Comm(itment) head, which takes Judg(ment)P as a complement. The activation of Judg(ment)P makes it possible for NEG to raise to Judg^o.

(30) Je regrette qu'il n'a pas écrit des romans.

(31) $[_{Spec, ComI} \text{ regret}] [_{Com^\circ} [_{JudgP} [_{Judg^\circ} \text{NEG}] [_{TP} \text{ t}_{NEG} \exists_{e,x} (\text{write}(e, x, \text{he}))]]]]]$

- Rescuing = the polyadic existential is shielded from NEG by the TP edge => no PPI-effect

4. *Some*-NPs cannot be rescued

4.1 The data

- Szabolcsi (2004), Larrivéé (2012): *some*-NPs are rescuable, but only *some*-pron's in their ex.

Szabolsci (2004):

- (32) a. I don't think that John didn't call someone.
b. I regret that John didn't call someone.
c. If we don't call someone, we are doomed.
d. Only John didn't call someone.

- Dobrovie-Sorin (2020), Dobrovie-Sorin & Ihsane (submitted): *some*-NPs are not rescuable.
- Gerards (2021; cf. appendix): online-based acceptability judgment task. Results show a contrast between *some*-NPs and *some*-pronouns.

- (33) a. ??If we don't call some boys, we are doomed.
b. ??I am surprised that John didn't call some boys.
c. ??Only John didn't call some boys.

4.2 Differentiating analysis of *des*-indefinites and *some*-NPs: types of weak indefinites

- *some*-NPs translate as standard exist Qs over individuals (genuine quantificational Det's) even when they are weak:

- (34) $[[\text{some}]] = \lambda P \lambda Q \exists x (P(x) \wedge Q(x))$

- *des*-indefinites (see § 1.3 above) => end up unselectively bound by the exist Q over events:

- (35) $[[\text{des}]] = \lambda P_{\text{cum}} \lambda Q \lambda e \exists x (P(x) \wedge Q(x)(e))$
defined iff Q is a localizing predicate

- (36) a. **NEG can raise at LF only if it has $\exists e$ in its scope** => *des*-indefinites are rescuable.
b. **NEG cannot raise at LF if it has $\exists x$ in its scope** => *some*-indefinites are not rescuable.

4.3 Other contrasts between *some*-NPs vs *des*-indefinites and *some*-pronouns

Atelic sentences and habitual examples:

- (37) a. John ate something/*some sandwiches for 10 minutes.
b. John frequently reads something/*some novels.

- (38) a. Jean a mangé des sandwiches pendant 10 minutes.
b. Jean lit souvent des romans.

5. Conclusions

- The central ideas:

Anti-licensing

- Scope under sentential negation can only be read off **polyadic quantificational at LF**, which is constrained by **Upward Agree** in the syntax.
- *Des*-indefinites are not marked with **uNEG** and as such cannot enter UA with $\neg\exists e$.
- *De*-indefinites are marked with uNEG \Rightarrow enter UA with $\neg\exists e$.

This analysis captures the contrast observed for *des*-indefinites between their impossible ‘narrow scope’ with respect to negation and their preferential, quasi-obligatory narrow scope with respect to other quantifiers or operators (modals, intensional verbs or quantificational DPs). ‘Narrow scope’ with respect to negation is simply *not* a matter of scope but obtains via polyadic quantification.

Rescuing

- Rescuing triggers allow **NEG to raise out of TP** at LF.
- *Des*-indefinites can be **unselectively bound by $\exists e$** .
- *Some*-indefinites can only be standard exist Dets. They **cannot be unselectively bound by $\exists e$** .
- **NEG can raise at LF only if it has $\exists e$ in its scope** \Rightarrow *des*-indefinites are rescuable.
- **NEG cannot raise at LF if it has $\exists x$ in its scope** \Rightarrow *some*-indefinites are not rescuable.

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Appendix – acceptability judgment task

design

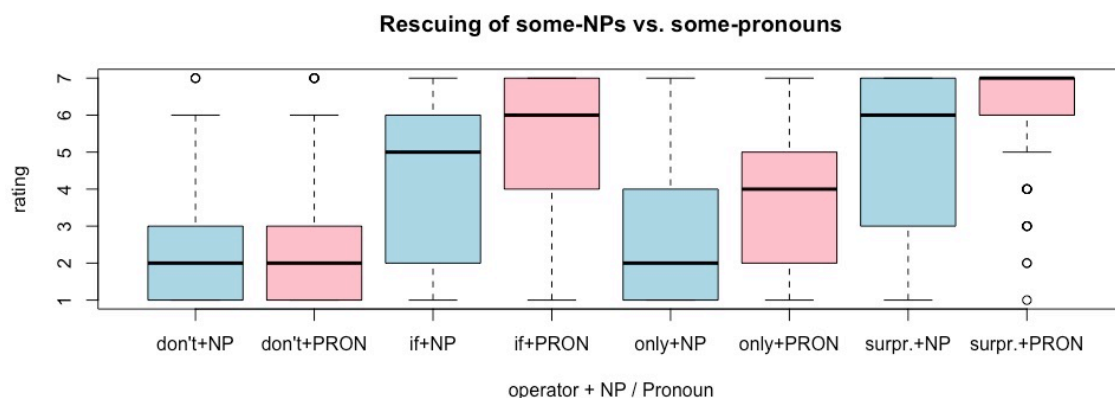
- online acceptability judgment task with monolingual native speakers of American English (n=96)
- judgments for naturalness on 7-point Likert scale
- 2x2 Latin Square design, (*some*-NP vs. *some*-pronoun); 2 different sub-experiments with 2 rescuing operators each (sub-exp. 1: *don't think* + *surprised*; sub-exp. 2: *if* + *only*)
- i.e., 4 different lists per sub-experiment
 - per list: 2 rescuing operators; every value of *some*-NP vs. *some*-pronoun tested 5 times for each rescuing operator, i.e., 20 test items altogether + 20 fillers (out of which 10 grammatical and 10 ungrammatical)
 - Ex.; sub-experiment 1:

	Resc. operator: <i>don't think</i>	Resc. operator: <i>surprised</i>
<i>some</i> -NP	Likert-Rating (x 5)	Likert-Rating (x 5)
<i>some</i> -pronoun	Likert-Rating (x 5)	Likert-Rating (x 5)

id	item	condition	operator	pron/lex	full_material	name	verb	list
1	Sentence 1	1	don't think	pronoun	I don't think that John didn't call someone.	John	call	1
2	Sentence 1	2	don't think	lexical NP	I don't think that John didn't call some boys.	John	call	2
3	Sentence 1	3	surprised	pronoun	I am surprised that John didn't call someone.	John	call	3
4	Sentence 1	4	surprised	lexical NP	I am surprised that John didn't call some boys.	John	call	4

results

- online acceptability judgment task with monolingual native speakers of American English (n=96)
- overall: *some*-pronouns with higher acceptability than *some*-NPs (but: high variation depending on rescuing operator)



- linear-mixed logistic regression model confirms the descriptive statistical results (dependent variable: *rating*; independent variables: *rescuing operator*, *NP* vs. *PRON* [fixed effects] – alone and in interaction – as well as *item* and *participant* [random effects]):

```
Linear mixed model fit by REML. t-tests use Satterthwaite's method ['lmerModLmerTest']
Formula: rating ~ operator + NPvsPRON + operator * NPvsPRON + (1 | participant) + (1 | sentence)
Data: data.RESC
```

Fixed effects:

	Estimate	Std. Error	df	t value	Pr(> t)	
(Intercept)	2.1667	0.1779	153.2020	12.176	< 2e-16	***
operatorif	2.0500	0.2516	153.2020	8.146	1.23e-13	***
operatoronly	0.6583	0.2516	153.2020	2.616	0.009785	**
operatorsurprised	2.6625	0.1211	1780.0031	21.980	< 2e-16	***
NPvsPRONPRON	0.2833	0.1211	1780.0031	2.339	0.019445	*
operatorif:NPvsPRONPRON	0.6875	0.1713	1780.0031	4.013	6.24e-05	***
operatoronly:NPvsPRONPRON	0.6000	0.1713	1780.0031	3.502	0.000472	***
operatorsurprised:NPvsPRONPRON	1.3375	0.1713	1780.0031	7.808	9.88e-15	***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1