

Having space to sprout: Failed sprouting in sub-clausal ellipses

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39th West Coast Conference on Formal Linguistics

University of Arizona

April 9, 2021

Setting up the Puzzle

Merger Clausal Ellipsis : A moved **remnant** with an overt **correlate** can escape an elided clausal constituent

- (1) a. *Sluicing* (e.g., Merchant 2001)
Sue will read **something**, but I forget **WHAT**₁ \langle IP ~~Sue will read x_T~~ \rangle

- b. *Stripping* (e.g., Depiante 2000)
Sue will read **the article**, but not **the BOOK**₁ \langle IP ~~Sue will read x_T~~ \rangle

- c. *Fragments* (e.g., Merchant 2004)
Q: Will Sue read **something**?
A: Yeah, **the BOOK**₁ \langle IP ~~Sue will read x_T~~ \rangle


Setting up the Puzzle

Sprouted Clausal Ellipsis : A moved **remnant** without an overt correlate can escape an elided clausal constituent

(2) a. *Sluicing* (e.g., Chung et al. 1995)

Sue will read, but I forget **WHAT**₁ \langle IP ~~Sue will read x_T~~ \rangle



b. *Stripping* (e.g., Nakao et al. 2012)

Sue will read, but not **the BOOK**₁ \langle IP ~~Sue will read x_T~~ \rangle



c. *Fragments* (e.g., Weir 2014)

Q: Will Sue read?

A: Yeah, **the BOOK**₁ \langle IP ~~Sue will read x_T~~ \rangle



A Constraint on Sprouting : The availability of sprouting is gated by the size of the elided constituent

Sprouting from an ellipsis site E is not permitted if E is sub-clausal

Setting up the Puzzle

Merger Predicate Ellipsis : A moved **remnant** with an overt **correlate** can escape an elided sub-clausal constituent

- (3) a. *Wh-remnant VPE* (e.g., Schuyler 2001)
Pam will read **the article**, but I forget **WHAT₁** SUE will $\langle_{VP} \text{read } x_T \rangle$
- b. *Contrastive topic remnant VPE* (e.g., Schuyler 2001)
Pam will read **the article** and **the BOOK₁** SUE will $\langle_{VP} \text{read } x_T \rangle$
- c. *Pseudogapping* (e.g., Gengel 2013)
Pam will read **the article**, but she won't **the BOOK₁** $\langle_{VP} \text{read } x_T \rangle$
-
- The diagram illustrates the movement of remnant elements from VP ellipsis sites. In each example (a, b, c), a dashed arrow points from the remnant (WHAT₁, the BOOK₁, or the BOOK₁) to the VP ellipsis site (read x_T), indicating that the remnant has moved out of the elided constituent.

Setting up the Puzzle

No Sprouted Predicate Ellipsis : A moved **remnant** without an overt correlate *cannot* escape an elided sub-clausal constituent

(4) a. *Wh-remnant VPE*

*Pam will read, but I forget **WHAT₁** SUE will $\langle_{VP} \text{read } x_T \rangle$



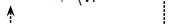
b. *Contrastive topic remnant VPE*

*Pam will read and **the BOOK₁** SUE will $\langle_{VP} \text{read } x_T \rangle$



c. *Pseudogapping*

*Pam will read, but she won't **the BOOK₁** $\langle_{VP} \text{read } x_T \rangle$



The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

Restricted Sprouting : A positional constraint on sprouting is too strong (e.g., Chung et al. 1995, 2011, Chung 2005, Larson 2014)

Contrast Principle : A requirement for a contrastively focused remnant-correlate pair is too strong (e.g., Romero 1998, Winkler 2005)

Scope Parallelism : A requirement for a scopally parallel remnant-correlate pair is too strong (e.g., Romero 2000, Merchant 2001, Thoms 2016)

Intervening Focus : A requirement for intervening focus is met (e.g., Schuyler 2001, Merchant 2008, Griffiths 2019, Stockwell 2020)

A Constraint on Sprouting : Sprouting is gated by the size of the elided constituent

Sprouting from an ellipsis site E is not permitted if E is sub-clausal

The Framework : This analysis employs an ellipsis framework including:

Redundancy : A focus-based semantic identity condition on ellipsis (Rooth 1992b)

Recoverability : Antecedents can in principle be recovered from various types of linguistic objects (see also Overfelt 2020)

The Analysis : This constraint represents a conflict between differential antecedence conditions (see also AnderBois 2011, Weir 2014, Griffiths 2019, Overfelt 2020):

- ① **Predicate Ellipses** : must be anaphoric to the overt syntax
- ② **Sprouting Ellipses** : must be anaphoric to the (possibly implicit) QUD

- ❶ **A Constraint on Sprouting** : Sprouting is gated by the size of the elided constituent
 - Setting up the Puzzle*
 - Alternative Approaches (Appendix I)*

- ❷ **A Framework for Ellipsis** : Ellipsis is subject to a focus-based redundancy condition
 - Focus-Based Redundancy*
 - Flexible Antecedent Recoverability*
 - Constraining FDs (Appendix II)*

- ❸ **The Analysis** : There is a conflict between differential antecedence conditions on ellipses
 - ❶ *Clausal Ellipsis v. Predicate Ellipsis*
 - ❷ *Merger Ellipsis v. Sprouting Ellipsis*

- ❹ **Sprouting as a Diagnostic** : Sprouting indicates the availability of clausal ellipsis
 - Modal Complement Ellipsis*
 - Stripping in English (Appendix III)*

Identity : Ellipsis is subject to a level of identity with an antecedent.

(5) Sue will read the article, but not Δ the book.

- a. $\Delta =$ Sue will read
- b. $\Delta \neq$ Pam will read
- c. $\Delta \neq$ Sue will burn
- d. $\Delta \neq \dots$

A Redundancy Condition : Ellipsis is subject to a focus-based semantic Redundancy Condition (Rooth 1992a)

(6) Ellipsis of some XP is permitted only if:

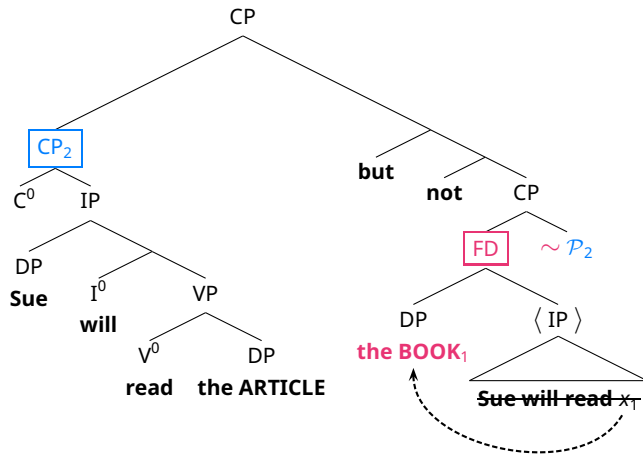
- i.) there is a Focus Domain (FD) that contains XP,
- ii.) there is an Antecedent Constituent (AC), and
- iii.) $\llbracket AC \rrbracket^o \subseteq \llbracket FD \rrbracket^f$

Focus Semantic Value : The focus interpretation operator \sim computes meanings while replacing **FOCUSED** constituents in its scope with alternatives (Rooth 1992a)

- (7) Sue will read the article but not $\llbracket \text{FD the BOOK} \langle_{\text{IP}} \text{Sue will read } x \rangle \rrbracket \sim \mathcal{P}$
- a. $Alt(\text{the book}) = \{ \text{the book, the article, the comic, } \dots \}$
 - b. $\llbracket \text{FD} \rrbracket^f = \left\{ \begin{array}{l} \text{that Sue will read the book, that Sue will read the article,} \\ \text{that Sue will read the comic, } \dots \end{array} \right\}$
 - c. $\llbracket \text{FD} \rrbracket^f = \{ p : p = \text{Sue will read } x \mid x \in Alt(\text{the book}) \}$

The Anaphoric Link : An **Antecedent Constituent** is recovered via an anaphoric link with the propositional variable \mathcal{P}

(8)



Ellipsis Framework : Redundancy

A Redundancy Condition : Ellipsis is subject to a focus-based semantic Redundancy Condition (Rooth 1992b)

- (9) Ellipsis of some XP is permitted only if:
- i.) there is a **Focus Domain (FD)** that contains XP,
 - ii.) there is an **Antecedent Constituent (AC)**, and
 - iii.) $\llbracket \text{AC} \rrbracket^o \subseteq \llbracket \text{FD} \rrbracket^f$

Redundancy Calculation : Ellipsis is licensed by semantic redundancy with an AC recovered from the syntax (e.g., Hankamer & Sag 1976)

- (10) $\llbracket \text{AC Sue will read the article} \rrbracket_2$ but not $\llbracket \text{FD the BOOK}_1 \langle \text{IP Sue will read } x_1 \rangle \rrbracket \sim \mathcal{P}_2$
- i.) $\llbracket \text{FD} \rrbracket^f = \{ p : p = \text{that Sue will read } x \mid x \in \text{Alt}(\text{the book}) \}$
 - ii.) $\llbracket \text{AC}_{\text{SYN}} \rrbracket^o = \{ p : p = \text{that Sue will read the article} \}$
 - iii.) $\llbracket \text{AC}_{\text{SYN}} \rrbracket^o \subseteq \llbracket \text{FD} \rrbracket^f$, ellipsis is permitted

Recovering the Question: An AC for some ellipses must be recovered from a question meaning in the discourse

- (11) a. *Sluicing* (AnderBois 2011, Barros 2014)

Sue will read **something**, but I forget **WHAT**₁ \langle IP Sue will read ~~x~~_T \rangle



- b. *Fragments* (Reich 2007, Weir 2014)

Q: Will Sue read **something**?

A: Yeah, **the BOOK**₁ \langle IP Sue will read ~~x~~_T \rangle



Question Under Discussion : The QUD is a salient linguistic object with question meaning that guides contributions to the discourse (Büring 2003, Roberts 2012)

Explicit QUDs : The QUD can be made explicit with an overt question

- (12) A: What will Sue read?
 B: Sue will read the BOOK B': #Pam will read the BOOK

Implicit QUDs : The QUD can be chosen from a conversationally implicated family of questions
(Büring 2003, AnderBois 2011)

- (13) A: What will Sue do?
 B: She will read
 $\rightsquigarrow \{ \text{What will Sue read, When . . . , Where . . . , . . . } \}$
 And before you ask, she will read the BOOK

Focus and Anaphoricity : Rooth's (1992a) system of focus interpretation permits \mathcal{P}_n to be anaphoric to various kinds of linguistic objects

Flexible Recoverability : An AC can in principle be recovered from anything to which \mathcal{P}_n can be anaphoric

An AC can in principle be recovered from either:

the overt syntax or

a question meaning in the discourse

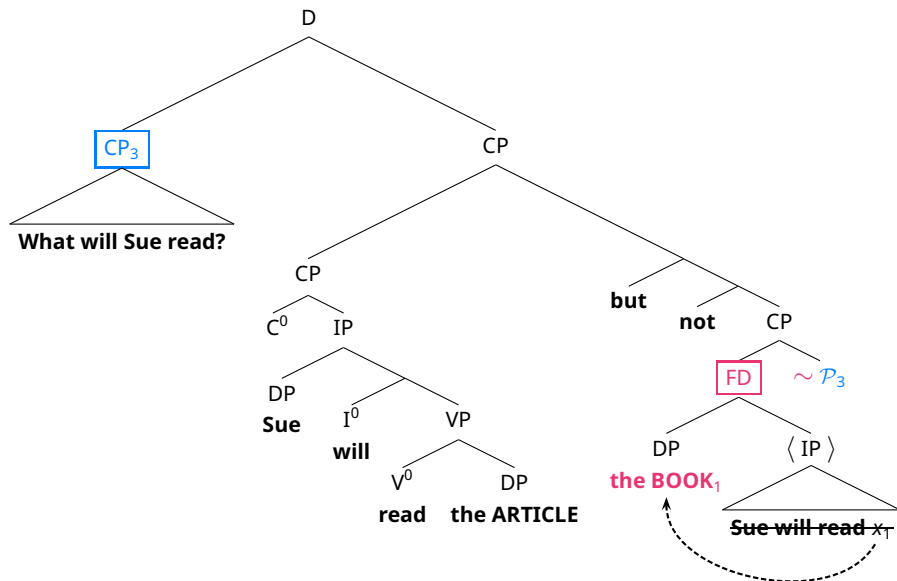
(see also Overfelt 2020)

The Game : Define the limits on the optionality a species of ellipsis has when recovering an AC

Ellipsis Framework : Flexible Recoverability

Anaphoricity to the QUD : The AC is recovered via an anaphoric link with a QUD in the discourse

(14)



Ellipsis Framework : Flexible Recoverability

A Redundancy Condition : Ellipsis is subject to a focus-based semantic Redundancy Condition (Rooth 1992b)

- (15) Ellipsis of some XP is permitted only if:
- i.) there is a **Focus Domain (FD)** that contains XP,
 - ii.) there is an **Antecedent Constituent (AC)**, and
 - iii.) $\llbracket \text{AC} \rrbracket^o \subseteq \llbracket \text{FD} \rrbracket^f$

Redundancy Calculation : Ellipsis is licensed by semantic redundancy with a question meaning recovered from the discourse (Hamblin 1973, Rooth 1992a)

- (16) [Sue will read the article] but not $\llbracket \llbracket \text{FD the BOOK}_1 \langle \text{IP Sue will read } x_T \rangle \rrbracket \sim \mathcal{P}_3 \rrbracket$
- i.) $\llbracket \text{FD} \rrbracket^f = \{p : p = \text{that Sue will read } x \mid x \in \text{Alt}(\text{the book}) \}$
 - ii.) $\llbracket \text{QUD What did Sue read?} \rrbracket_3$
 $\llbracket \text{AC}_{\text{QUD}} \rrbracket^o = \{p : p = \text{that Sue will read } x \mid x \in \text{Alt}(\text{what}) \}$
 - iii.) $\llbracket \text{AC}_{\text{QUD}} \rrbracket^o \subseteq \llbracket \text{FD} \rrbracket^f$, ellipsis is permitted

- ❶ **A Constraint on Sprouting** : Sprouting is gated by the size of the elided constituent
 - Setting up the Puzzle*
 - Alternative Approaches (Appendix I)*

- ❷ **A Framework for Ellipsis** : Ellipsis is subject to a focus-based redundancy condition
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- ❸ **The Analysis** : There is a conflict between differential antecedence conditions on ellipses
 - ❶ *Clausal Ellipsis v. Predicate Ellipsis*
 - ❷ *Merger Ellipsis v. Sprouting Ellipsis*

- ❹ **Sprouting as a Diagnostic** : Sprouting indicates the availability of clausal ellipsis
 - Modal Complement Ellipsis*
 - Stripping in English (Appendix III)*

A Constraint on Sprouting : The availability of sprouting is gated by the size of the elided constituent

Sprouting from an ellipsis site E is not permitted if E is sub-clausal

The Analysis : This constraint represents a conflict between differential antecedence conditions (see also AnderBois 2011, Weir 2014, Griffiths 2019, Overfelt 2020):

- ① **Predicate Ellipses** : must be anaphoric to the overt syntax
- ② **Sprouting Ellipses** : must be anaphoric to the (possibly implicit) QUD

The Analysis : Clauses v. Predicates

The Effect of Size : Clausal and sub-clausal ellipses have differential antecedence conditions (AnderBois 2011, Weir 2014, Griffiths 2019)

Clausal Ellipses : can be anaphoric to the overt syntax or the (possibly implicit) QUD

① **Predicate Ellipses** : must be anaphoric to the overt syntax

Appositive Antecedents : Sluicing, but not VP-Ellipsis, disprefers recovering an AC from non-inquisitive content (AnderBois 2011)

(17) #Sue, who hired **someone** last week, forgets **WHO₁** \langle ~~she hired~~ x_T \rangle

Exceptive Questions : VP-Ellipsis, but not Sluicing, is subject to *Schuyler's Generalization* (Griffiths 2019)

(18) John kissed MARY but I don't know **who ELSE₁** (*he did) \langle . . . x_1 \rangle

The Analysis : Clauses v. Predicates

The Effect of Size : Clausal and sub-clausal ellipses have differential antecedence conditions
(AnderBois 2011, Weir 2014, Griffiths 2019)

Clausal Ellipses : can be anaphoric to the overt syntax or the (possibly implicit) QUD

① **Predicate Ellipses** : must be anaphoric to the overt syntax

Presupposition Inheritance : Fragment answers, but not VP-Ellipsis answers, inherit the presuppositions of the question (Weir 2014, Jacobson 2016)

(19) Q: Which of the Beatles wrote *Margaritaville*?

A1: #Jimmy Buffett < ~~x_i wrote *Margaritaville*~~ >

A2: Jimmy Buffett did < ~~x_i write *Margaritaville*~~ >

The Analysis : Clauses v. Predicates

QUD AC for Stripping : A salient QUD provides an AC for Stripping

(20) [Sue will read the article] but not [[FD the BOOK_1 $\langle \text{IP Sue will read } x \rangle$] $\sim \mathcal{P}_3$]

i.) [FD]^f = { p : p = that Sue will read x | $x \in \text{Alt}(\text{the book})$ }

ii.) [$\text{QUD What did Sue read?}$]₃

[AC_{QUD}]^o = { p : p = that Sue will read x | $x \in \text{Alt}(\text{what})$ }

iii.) [AC_{QUD}]^o \subseteq [FD]^f, ellipsis is permitted

No QUD AC for Pseudogapping : A linguistic object with a question meaning will not be a member of the focus alternative set of a predicate

(21) * [Pam will read the article] but she won't [[FD the BOOK_1 $\langle \text{VP read } x \rangle$] $\sim \mathcal{P}_3$]

i.) [FD]^f = { p : p = read x | $x \in \text{Alt}(\text{the book})$ }

ii.) [$\text{QUD What will Pam read?}$]₃

[AC_{QUD}]^o = { p : p = that Pam will read x | $x \in \text{Alt}(\text{what})$ }

iii.) [AC_{QUD}]^o $\not\subseteq$ [FD]^f, ellipsis is not permitted

The Analysis : Merger v. Sprouting

The Effect of Sprouting : Merger and sprouting ellipses have differential antecedence conditions (see also Overfelt 2020)

Merger Ellipses : can be anaphoric to the overt syntax or the (possibly implicit) QUD

② **Sprouting Ellipses** : must be anaphoric to the (possibly implicit) QUD

The Asymmetry : The syntax fails to provide an AC regardless of the representation of implicit arguments (e.g., Landau 2010, Bhatt & Pancheva 2017)

- (22) a. *Pam will read *pro*, but I forget **WHAT₁** SUE will $\langle_{VP} \text{read } x_T \rangle$
b. Sue will read *pro*, but I forget **WHAT₁** $\langle_{IP} \text{Sue will read } x_T \rangle$

Other Asymmetries : Implicit arguments may fail to provide antecedents for Stripping (Overfelt 2020)

- (23) a. Sue will read **(the article)** { and probably / but not } **the BOOK₁** $\langle_{IP} \text{Sue will read } x_T \rangle$
b. Sue will read ***(the article)** { faster than / after } **the BOOK₁** $\langle_{IP} \text{Sue will read } x_T \rangle$

The Analysis : Merger v. Sprouting

The Effect of Sprouting : Merger and sprouting ellipses have differential antecedence conditions (see also Overfelt 2020)

Merger Ellipses : can be anaphoric to the overt syntax or the (possibly implicit) QUD

② **Sprouting Ellipses** : must be anaphoric to the (possibly implicit) QUD

No Alternatives : Implicit arguments do not provide salient alternatives for full DPs

Presupposition of *Too*. An implicit argument does not satisfy the presuppositions of additive *too* independent of ellipsis (see Winterstein 2011, Ahn 2015)

- (24) a. Kim read **the article** and she read **the BOOK** too.
b. #Kim read **pro** and she read **the BOOK** too.

No Syntactic AC for Sprouted Stripping : An AC cannot be recovered from the syntax for sprouting clausal ellipses

(25) * $\llbracket \text{AC Sue read} \rrbracket_2$ but not $\llbracket \text{FD the BOOK}_1 \langle \text{IP Sue read } x_1 \rangle \rrbracket \sim \mathcal{P}_2$

i.) $\llbracket \text{FD} \rrbracket^f = \{ p : p = \text{that Sue read } x \mid x \in \text{Alt}(\text{the book}) \}$

ii.) $\llbracket \text{AC}_{\text{SYN}} \rrbracket^o = \{ p : p = \text{that Sue read} \}$

iii.) $\llbracket \text{AC}_{\text{SYN}} \rrbracket^o \not\subseteq \llbracket \text{FD} \rrbracket^f$, ellipsis is not permitted

QUD AC for Stripping : An AC can be recovered for sprouted clausal ellipses from the QUD implicated by the focused remnant (see also AnderBois 2011, Weir 2014, Kotek & Barros 2019)

- (26) [Sue read] but not [[_{FD} the BOOK₁ <_{IP} Sue read x_T>] $\sim \mathcal{P}_3$]
- i.) [_{FD}]^f = { $p : p = \text{that Sue read } x \mid x \in \text{Alt}(\text{the book})$ } }
- ii.) [Sue read] \rightsquigarrow { [_{QUD} What did Sue read?]₃ , When . . . , Where . . . } }
- [_{AC_{QUD}}]^o = { $p : p = \text{that Sue read } x \mid x \in \text{Alt}(\text{what})$ } }
- iii.) [_{AC_{QUD}}]^o \subseteq [_{FD}]^f, ellipsis is permitted

Implicit QUDs : The QUD can be chosen from a conversationally implicated family of questions (see Buring 2003, Roberts 2012)

- (27) A: What did Sue do?
B: Sue read
 \rightsquigarrow { What did Sue read, When . . . , Where . . . , . . . }
And before you ask, she read the BOOK

A Constraint on Sprouting : The availability of sprouting is gated by the size of the elided constituent

Sprouting from an ellipsis site E is not permitted if E is sub-clausal

The Analysis : This constraint represents a conflict between differential antecedence conditions (see also AnderBois 2011, Weir 2014, Griffiths 2019, Overfelt 2020):

- ① **Predicate Ellipses** : must be anaphoric to the overt syntax
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The Analysis : Summary

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

No Syntactic AC for Sprouted Pseudogapping : An AC cannot be recovered from the syntax for sprouting predicate ellipses

(28) *Pam will $[\text{AC read}]_2$ but she won't $[[\text{FD the BOOK}_1 \langle \text{IP read } x_1 \rangle] \sim \mathcal{P}_2]$

i.) $[[\text{FD}]]^f = \{p : p = \text{read } x \mid x \in \text{Alt}(\text{the book})\}$

ii.) $[[\text{AC}_{\text{SYN}}]]^o = \{p : p = \text{read}\}$

iii.) $[[\text{AC}_{\text{SYN}}]]^o \not\subseteq [[\text{FD}]]^f$, ellipsis is not permitted

The Analysis : Summary

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

No QUD AC for Sprouted Pseudogapping : An AC cannot be recovered from the QUD for sprouting predicate ellipses

(29) * [Pam will read] but she won't [$[_{FD} \text{ the BOOK}_1 \langle \text{VP read } x_T \rangle] \sim \mathcal{P}_3$]

i.) $[_{FD}]^f = \{ p : p = \text{read } x \mid x \in \text{Alt}(\text{the book}) \}$

ii.) [Pam will read] $\rightsquigarrow \{ [_{QUD} \text{ What will Pam read?}]_3, \text{When } \dots, \text{Where } \dots \}$

$[_{AC_{QUD}}]^o = \{ p : p = \text{that Pam will read } x \mid x \in \text{Alt}(\text{what}) \}$

iii.) $[_{AC_{QUD}}]^o \not\subseteq [_{FD}]^f$, ellipsis is not permitted

The Analysis : Summary

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

Syntactic AC for Merger Pseudogapping : An AC can be recovered from the syntax for merger predicate ellipses

(30) Pam will $[[_{AC} \text{ read the article }]_2]$ but she won't $[[_{FD} \text{ the BOOK}_1 \langle_{IP} \text{ read } x_1 \rangle] \sim \mathcal{P}_2]$

i.) $[[_{FD}]^f = \{p : p = \text{read } x \mid x \in \text{Alt}(\text{the book})\}$

ii.) $[[_{AC_{SYN}}]^o = \{p : p = \text{read the article}\}$

iii.) $[[_{AC_{SYN}}]^o \subseteq [[_{FD}]^f$, ellipsis is permitted

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A Constraint on Sprouting : The availability of sprouting is gated by the size of the elided constituent

Sprouting from an ellipsis site E is not permitted if E is sub-clausal

A Prediction : If being clausal ellipsis is a necessary (but not sufficient) condition on ellipsis:

The availability of sprouting indicates the availability of clausal ellipsis

Sprouting as a Diagnostic : Modal Complement Ellipsis

Dutch Modal Complement Ellipsis : Root modals in Dutch allow the VoiceP of their infinitival complements to be elided

- (31) Anouk wil wel komen, maar ze kan niet [TP t_{ze} <VoiceP ~~komen~~>]
Anouk wants PRT come but she can not come
'Anouk wants to come but she can't' (Dutch; Aelbrecht 2010)

French Modal Complement Ellipsis : Root modals in French allow their the TP of their infinitival complements to be elided

- (32) Tom a pu voir Lee, mais Marie n'a pas pu <TP t_{Marie} ~~voir Lee~~>
Tom has can see Lee, but Maire NEG-has not can see Lee
'Tom could see Lee but Mary couldn't' (French; Dagnac 2010)

Sprouting as a Diagnostic : Modal Complement Ellipsis

Catalan Modal Complement Ellipsis : Root modals in Catalan allow their infinitival complements to be elided

- (33) La Maria pot llegir el llibre pero l' Elena no pot ~~llegir el llibre~~
the Maria can read the book but the Elena not can read the book
'Maria can read the book but Elena cannot'

(*Catalan*)

Restructuring : The infinitival complement of modals come in various sizes (see Picallo 1990, Wurmbrand 2003)

The availability of sprouting indicates the availability of clausal ellipsis

Sprouting as a Diagnostic : Modal Complement Ellipsis

French MCE Sprouting : A **remnant** without a **correlate** can escape an elided TP complement of a root modal

- (34) Il ne vote jamais (**contre un candidat**), mais **contre Tim₁**, il pourrait $\langle_{TP} \text{ } \overline{t_{II} \text{ vote}} \rangle$
he PRT votes never against a candidate but against Tim he could
'He never votes (against a candidate), but against Tim he could.'
(French)

No Catalan MCE Sprouting : A **remnant** without a **correlate** *cannot* escape an elided complement of a root modal

- (35) La Maria pot llegir ***(l' article)**, pero **el llibre₁**, (ella) no pot $\langle_{??} \overline{t_{II} \text{ llegir}} \rangle$
the Maria can read the article but the book, she NEG can
'Maria can read (the article), but the book she can't.'
(Catalan)

Sprouting as a Diagnostic : Modal Complement Ellipsis

In-Principle Sprouting : A **remnant** without a **correlate** can escape a Stripping site in both languages

- (36) Il a voté (**pour un candidat**), mais pas **pour Tim**₁ $\langle \text{IP } \text{il} \text{---} \text{a} \text{---} \text{voté} \text{---} x_T \rangle$
he has voted for a candidate but not for Tim he has voted
'He voted (for a candidate) but not for Tim' (French)

- (37) La Maria pot llegir (**l' article**), pero no **el llibre**₁ $\langle \text{IP } \text{la} \text{---} \text{Maria} \text{---} \text{pot} \text{---} \text{llegir} \text{---} x_T \rangle$
the Maria can read the article but NEG the book the Maria can read
'Maria can read (the article), but not the book' (Catalan)

Sprouting as a Diagnostic : Modal Complement Ellipsis

Size-Based Mismatches : Voice and reflexivity mismatches are possible with ellipses that target constituents below VoiceP (e.g., Merchant 2013, Sailor 2014)

No Voice Mismatch in French MCE : French MCE does *not* permit voice mismatches (Dagnac 2010)

- (38) *Ce problème aurait dû [VP_{PAS} être résolu], mais visiblement personne n' a pu <_{TP} ... [VP_{ACT} ...]>
this problem should be solved but obviously nobody PRT could
'This problem should be solved but obviously nobody could' (French)

Voice Mismatch in Catalan MCE : Catalan MCE *does* permit voice mismatches

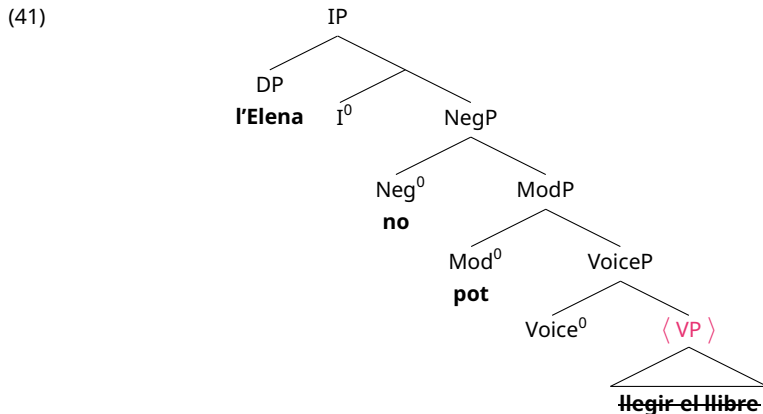
- (39) Aquest problema hauria de [VP_{PAS} ser resolt], però ningú (no) ha pogut <VP_{ACT} ... >
this problem should be resolved but nobody NEG could
'This problem should be resolved, but nobody could' (Catalan)

Sprouting as a Diagnostic : Modal Complement Ellipsis

Catalan MCE : Catalan MCE is ellipsis of a sub-clausal constituent (i.e., obligatory restructuring?)

- (40) La Maria pot llegir el llibre, pero l' Elena no pot ~~llegir el llibre~~
the Maria can read the book but the Elena not can read the book
'Maria can read the book but Elena cannot'

(Catalan)



- ❶ **A Constraint on Sprouting** : Sprouting is gated by the size of the elided constituent
 - Setting up the Puzzle*
 - Alternative Approaches (Appendix I)*

- ❷ **A Framework for Ellipsis** : Ellipsis is subject to a focus-based redundancy condition
 - Focus-Based Redundancy*
 - Flexible Antecedent Recoverability*
 - Constraining FDs (Appendix II)*

- ❸ **The Analysis** : There is a conflict between differential antecedence conditions on ellipses
 - ❶ *Clausal Ellipsis v. Predicate Ellipsis*
 - ❷ *Merger Ellipsis v. Sprouting Ellipsis*

- ❹ **Sprouting as a Diagnostic** : Sprouting indicates the availability of clausal ellipsis
 - Modal Complement Ellipsis*
 - Stripping in English (Appendix III)*

Thank You!

Thank you to Anne Dagnac, Tom Ernst, Kyle Johnson, Ezra Keshet, Haiyong Lu, Alan Munn, Brian Reese, Laura Stigliano, Richard Stockwell, Ricard Vinas de Puig, and the WCCFL 39 reviewers for helpful comments and discussion.

Portions of this research have benefitted from exposure to audiences at the 2021 Meeting of the LSA, Wayne State University, Indiana University, and Oakland University.

The responsibility for any errors or misrepresentations of the ideas of others lies solely with the author.

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Appendix I : Alternative Approaches

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

Restricted Sprouting : A positional constraint on sprouting is too strong (e.g., Chung et al. 1995, 2011, Chung 2005, Larson 2014)

- (42) a. Sue will read, but I forget **WHAT**₁ \langle _{IP} ~~Sue will read~~ _{x₁} \rangle
b. *Pam will read, but I forget **WHAT**₁ SUE will \langle _{VP} ~~read~~ _{x₁} \rangle

Appendix I : Alternative Approaches

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

Focus Parallelism : A requirement for a contrastively focused remnant-correlate pair is too strong (e.g., Romero 1998, Winkler 2005)

(43) *Generalized Contrastive Focus Principle*

Remnants must occur in a contrastive relation to their correlates

- (44) a. Sue will read, but I forget **WHAT**₁ \langle_{IP} ~~Sue will read~~ x_T \rangle
b. *Pam will read, but I forget **WHAT**₁ SUE will \langle_{VP} ~~read~~ x_T \rangle

Appendix I : Alternative Approaches

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

Scope Parallelism : A requirement for scopally parallel remnant-corollate pairs is too strong (e.g., Romero 2000, Merchant 2001, Thoms 2016)

- (45) *Few kids ate *pro*, but I don't know **WHAT**₁ \langle_{IP} ~~few kids ate~~ $x_T \rangle$
"For few kids x , x ate, but I don't know, for what thing y , few kids ate y "
- (46) a. Sue will read *pro* but I forget **WHAT** \langle_{IP} ~~Sue will read~~ $x_T \rangle$
b. *Pam will read *pro*, but I forget **WHAT**₁ SUE will \langle_{VP} ~~read~~ $x_T \rangle$

Appendix I : Alternative Approaches

The Puzzle : The puzzle can be visualized as:

	Merger	Sprouting
Clausal	YES	YES
Sub-clausal	YES	NO

Intervening Focus : A requirement for intervening focus in predicate ellipsis is met (e.g., Schuyler 2001, Merchant 2008, Griffiths 2019, Stockwell 2020)

(47) *Schuyler's Generalization*

... there must be a contrastively focused expression in the reflexive c-command domain of the extracted phrase.

- (48) a. Pam will read the article, and **the BOOK**₁ **SUE** will $\langle_{VP} \text{read } x_T \rangle$
b. *Pam will read, and **the BOOK**₁ **SUE** will $\langle_{VP} \text{read } x_T \rangle$

Appendix II : Constraining FDs

A Thread to Pull : A remnant sprouted from a sub-clausal ellipsis site that achieves clause-level scope is not obviously predicted to be ungrammatical

(49) *Contrastive topic remnant VPE*

PAM will read ***(the ARTICLE)** and **the BOOK₁** SUE will $\langle_{VP} \text{read } x_T \rangle$



Illicit QUD Antecedent : An implicated sorting question would incorrectly license ellipsis (Büring 2003, Constant 2014; see also Winkler 2005)

(50) $*[\text{PAM will read}] \text{ and } [[_{FD} \text{ the BOOK}_1 \text{ SUE will}_{[E]} \langle_{VP} \text{read } x_T \rangle] \sim \mathcal{P}_3]$

i.) $\llbracket [_{FD}]^f \rrbracket = \{ p : p = \text{that } x \text{ will read } y \mid x \in \text{Alt}(\text{Sue}), y \in \text{Alt}(\text{the book}) \}$

ii.) $\llbracket [_{QUD} \text{ Who will read what?}]_3 \rrbracket$

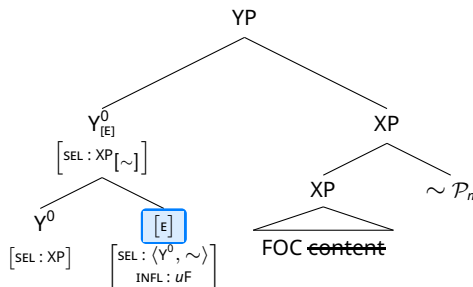
$\llbracket [_{AC_{QUD}}]^o \rrbracket = \{ p : p = \text{that } x \text{ will read } y \mid x \in \text{Alt}(\text{who}), y \in \text{Alt}(\text{what}) \}$

iii.) $\llbracket [_{AC_{QUD}}]^o \subseteq \llbracket [_{FD}]^f \rrbracket$, ellipsis is *incorrectly* permitted

Appendix II : Constraining FDs

A. Restricting Possible FDs : Selection of \sim by the licensing feature $[E]$ (indirectly) constrains interpretation of focus (e.g., Rooth 1992a, Aelbrecht 2010)

(51)



Minimize FDs : An $[E]$ that verifies the redundancy of its complement ensures the FD is in the scope of $[E]$

(52) $[\text{PAM will} [\text{read} \ast(\text{the article})]]$ and $[\text{the BOOK}_1 \text{ SUE will}_{[E]} [[\text{FD}_{\langle \text{VP read-xt} \rangle}] \sim P_3]$

B. Lambda-Intervention : Predicate abstraction disrupts computation of focus alternative values (see Kotek 2016, Griffiths 2019)

$$(53) \quad \lambda\text{-Intervention} \\ * \sim \mathcal{P}_n \dots \lambda \dots \text{FOC}$$

Avoid Lambda-Intervention : The desired result is that the focus semantic value of the attempted FD is not defined

$$(54) \quad * [\text{PAM will read (the article)}] \text{ and } [\sim \mathcal{P}_3 [_{\text{FD}} \text{ the BOOK } \lambda 1 \text{ SUE will } \langle_{\text{VP}} \text{ read } x_T \rangle]]$$

Minimize FDs : A smaller FD avoids a λ -Intervention configuration

$$(55) \quad [\text{PAM will } [\text{read } *(\text{the article})]] \text{ and } [\text{ the BOOK}_1 \text{ SUE will } [[_{\text{FD}} \langle_{\text{VP}} \text{ read } x_T \rangle] \sim \mathcal{P}_3]]$$

Canonical Stripping : A clausal constituent in a non-initial conjunct is omitted (e.g., Depiante 2000, Kolokonte 2008, Thoms 2016).

(56) $[_{CP} [_{CP} \text{ Sue will read } \textbf{the article}], \text{ but not } [_{CP} \textbf{the BOOK}_1 \langle \text{IP } \text{Sue will read } x_T \rangle]]$

Small Conjuncts : Low coordination could in principle deliver the same result (e.g., Lechner 2004, Konietzko 2016, Hirsch 2017, Johnson 2019)

(57) Sue will $[_{VP} [_{VP} \text{ read } \textbf{the article}] \text{ but not } [_{VP} \textbf{the BOOK}_1 \langle \text{VP } \text{read } x_T \rangle]]$

The availability of sprouting indicates the availability of clausal ellipsis

Scope of Coordination : Both small and large conjunct structures are available (e.g., Siegel 1987, Johnson 2019)

- (58) a. WARD can't [_{VP} [_{VP} eat caviar] and [_{VP} his GUEST \langle ~~eat caviar~~ \rangle /[↑]TOO]]
- $\neg\Diamond(P \wedge Q)$: "It's not possible both for Ward to eat caviar and for his guest to eat caviar"
- b. [_{CP} [_{CP} WARD can't eat caviar] and [_{CP} his GUEST \langle ~~can't eat caviar~~ \rangle TOO \searrow]]
- $\neg\Diamond P \wedge \neg\Diamond Q$: "Ward can't eat caviar and his guest also can't eat caviar"

Canonical Stripping : High-adjoined epistemic adverbs force large conjuncts (see Ernst 2009).

- (59) [_{CP} [_{CP} WARD can't eat caviar] and [_{CP} **probably** his GUEST \langle ~~can't eat caviar~~ \rangle TOO \searrow]]
- $\neg\Diamond P \wedge \neg\Diamond Q$: "Ward can't eat caviar and probably his guest also can't eat caviar"