



# Flavors of oddness

---

Adèle Hénot-Mortier

November 19, 2025

UCL Linguistics Seminar talk

# When and why do sentences feel off?

- Sentences can feel “off” for many reasons, stemming from syntax, semantics or pragmatics.
- |     |  |                                      |
|-----|--|--------------------------------------|
| (1) | * Ed told Jo that he likes <i>herself</i> .    | Principle A violation                |
| (2) | a. # It's raining and it's <b>not</b> raining. | Contradiction                        |
|     | b. # It's raining or it's <b>not</b> raining.  | Tautology                            |
| (3) | a. # A sun is shining.                         | Presupposing too little <sup>1</sup> |
|     | b. ?? Jo fed her pet alligator.                | Presupposing too much <sup>2</sup>   |

---

<sup>1</sup>Heim, 1991.

<sup>2</sup>Strawson, 1950; Stalnaker, 1974, 1978, i.a.

# When and why do sentences feel off?

- Sentences can feel “off” for many reasons, stemming from syntax, semantics or pragmatics.

- |     |   |                                      |
|-----|---|--------------------------------------|
| (1) | * Ed told Jo that he likes <b>herself</b> . | Principle A violation                |
| (2) | a. # It's raining and it's not raining.     | Contradiction                        |
|     | b. # It's raining or it's not raining.      | Tautology                            |
| (3) | a. # A sun is shining.                      | Presupposing too little <sup>1</sup> |
|     | b. ?? Jo fed her pet alligator.             | Presupposing too much <sup>2</sup>   |

---

<sup>1</sup>Heim, 1991.

<sup>2</sup>Strawson, 1950; Stalnaker, 1974, 1978, i.a.

# When and why do sentences feel off?

- Sentences can feel “off” for many reasons, stemming from syntax, semantics or pragmatics.
- (1) \* Ed told Jo that he likes **herself**.                              Principle A violation
- (2) a. # It's raining and it's **not** raining.                              Contradiction
- b. # It's raining or it's **not** raining.                              Tautology
- (3) a. # A sun is shining.    Presupposing too little<sup>1</sup>
- b. ?? Jo fed her pet alligator.                                      Presupposing too much<sup>2</sup>

---

<sup>1</sup>Heim, 1991.

<sup>2</sup>Strawson, 1950; Stalnaker, 1974, 1978, i.a.

# When and why do sentences feel off?

- Sentences can feel “off” for many reasons, stemming from syntax, semantics or pragmatics.
- |     |  |                                      |
|-----|--|--------------------------------------|
| (1) | * Ed told Jo that he likes <b>herself</b> .    | Principle A violation                |
| (2) | a. # It's raining and it's <b>not</b> raining. | Contradiction                        |
|     | b. # It's raining or it's <b>not</b> raining.  | Tautology                            |
| (3) | a. # <b>A</b> sun is shining.                  | Presupposing too little <sup>1</sup> |
|     | b. ?? Jo fed her pet alligator.                | Presupposing too much <sup>2</sup>   |

---

<sup>1</sup>Heim, 1991.

<sup>2</sup>Strawson, 1950; Stalnaker, 1974, 1978, i.a.

# When and why do sentences feel off?

- Sentences can feel “off” for many reasons, stemming from syntax, semantics or pragmatics.
- (1) \* Ed told Jo that he likes **herself**.                              Principle A violation
- (2) a. # It's raining and it's **not** raining.                              Contradiction
- b. # It's raining or it's **not** raining.                              Tautology
- (3) a. # **A** sun is shining.                                      Presupposing too little<sup>1</sup>
- b. ?? Jo fed **her** pet alligator.                              Presupposing too much<sup>2</sup>

---

<sup>1</sup>Heim, 1991.

<sup>2</sup>Strawson, 1950; Stalnaker, 1974, 1978, i.a.

# What is oddness?

- Sentences sometimes feel **odd** despite being informative, and perfectly “reasonable” in terms of what they implicitly assume.

(4) Hurford Disjunction (HD; Hurford 1974)

# Jo studied in **Paris** or in **France**.

Conveys: Jo studied in **France**.

- Descriptively, (4) seems to be odd because one disjunct (**Paris**) contextually entails the other (**France**).
- Oddness seems to come from how information is provided, rather than from its content.

# What is oddness?

- Sentences sometimes feel **odd** despite being informative, and perfectly “reasonable” in terms of what they implicitly assume.

(4) Hurford Disjunction (HD; Hurford 1974)

# Jo studied in **Paris** or in **France**.

Conveys: Jo studied in **France**.

- Descriptively, (4) seems to be odd because one disjunct (**Paris**) contextually entails the other (**France**).
- Oddness seems to come from how information is provided, rather than from its content.

# What is oddness?

- Sentences sometimes feel **odd** despite being informative, and perfectly “reasonable” in terms of what they implicitly assume.
- (4) Hurford Disjunction (HD; Hurford 1974)
- # Jo studied in **Paris** or in **France**.  
Conveys: Jo studied in **France**.
- Descriptively, (4) seems to be odd because one disjunct (**Paris**) contextually entails the other (**France**).
  - Oddness seems to come from how information is provided, rather than from its content.

## What is oddness?

- Sentences sometimes feel **odd** despite being informative, and perfectly “reasonable” in terms of what they implicitly assume.
- (4) Hurford Disjunction (HD; Hurford 1974)
- # Jo studied in **Paris** or in **France**.  
Conveys: Jo studied in **France**.
- Descriptively, (4) seems to be odd because one disjunct (**Paris**) contextually entails the other (**France**).
  - Oddness seems to come from **how** information is provided, rather than from its content.

# Redundancy

(4) # Jo studied in **Paris** or in **France**.

- A prominent approach to sentences like (4) is based on the concept of **REDUNDANCY–Be Brief!**<sup>3</sup>
- Both of (4)'s disjuncts entail that *Jo studied in France*. In fact, the entire disjunction is contextually equivalent to (5), obtained by deleting (4)'s first disjunct!

(5) Jo studied in **Paris** or in **France**.

(6) **NON-REDUNDANCY.** A felicitous sentence should not be equivalent to one of its formal simplifications.<sup>4</sup>

---

<sup>3</sup>Grice, 1975; Horn, 1984; Meyer, 2013; Katzir and Singh, 2014; Mayr and Romoli, 2016; Kalomoiros, 2024, i.a.

<sup>4</sup>Obtained by constituent-to-subconstituent substitutions, à la Katzir (2007).

# Redundancy

(4) # Jo studied in **Paris** or in **France**.

- A prominent approach to sentences like (4) is based on the concept of **REDUNDANCY–Be Brief!**<sup>3</sup>
- Both of (4)'s disjuncts entail that *Jo studied in France*. In fact, the entire disjunction is contextually equivalent to (5), obtained by deleting (4)'s first disjunct!

(5) Jo studied in **Paris** or in **France**.

(6) **NON-REDUNDANCY.** A felicitous sentence should not be equivalent to one of its formal simplifications.<sup>4</sup>

---

<sup>3</sup>Grice, 1975; Horn, 1984; Meyer, 2013; Katzir and Singh, 2014; Mayr and Romoli, 2016; Kalomoirios, 2024, i.a.

<sup>4</sup>Obtained by constituent-to-subconstituent substitutions, à la Katzir (2007).

# Redundancy

(4) # Jo studied in **Paris** or in **France**.

- A prominent approach to sentences like (4) is based on the concept of **REDUNDANCY–Be Brief!**<sup>3</sup>
- Both of (4)'s disjuncts entail that *Jo studied in France*. In fact, the entire disjunction is contextually **equivalent** to (5), obtained by **deleting** (4)'s first disjunct!

(5) Jo studied in **Paris** or in **France**.

(6) **NON-REDUNDANCY.** A felicitous sentence should not be equivalent to one of its formal simplifications.<sup>4</sup>

---

<sup>3</sup>Grice, 1975; Horn, 1984; Meyer, 2013; Katzir and Singh, 2014; Mayr and Romoli, 2016; Kalomoiros, 2024, i.a.

<sup>4</sup>Obtained by constituent-to-subconstituent substitutions, à la Katzir (2007).

# Redundancy

(4) # Jo studied in **Paris** or in **France**.

- A prominent approach to sentences like (4) is based on the concept of **REDUNDANCY–Be Brief!**<sup>3</sup>
- Both of (4)'s disjuncts entail that *Jo studied in France*. In fact, the entire disjunction is contextually **equivalent** to (5), obtained by **deleting** (4)'s first disjunct!

(5) Jo studied in **Paris** or in **France**.

(6) **NON-REDUNDANCY.** A felicitous sentence should not be equivalent to one of its formal simplifications.<sup>4</sup>

---

<sup>3</sup>Grice, 1975; Horn, 1984; Meyer, 2013; Katzir and Singh, 2014; Mayr and Romoli, 2016; Kalomoiros, 2024, i.a.

<sup>4</sup>Obtained by constituent-to-subconstituent substitutions, à la Katzir (2007).

# Challenge 1: compatible Hurford Disjunctions

- Problem for NON-REDUNDANCY: oddness arises despite the non-existence of a simpler, equally informative alternative.
- (7) “Compatible” Hurford Disjunction (cHD; Singh 2008)  
?? Jo studied in France or the Basque country.  
Conveys: Jo studied in France or the Spanish Basque country.



## Challenge 2: Hurford Conditionals

- Logically **isomorphic** sentences may contrast in terms of oddness.

(8) Hurford Conditionals (HC; Mandelkern and Romoli 2018)

a. If Jo studied in **France**, she did **not** study in **Paris**.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

b. # If Jo did **not** study in **Paris**, she studied in **France**.

$$\neg p^+ \rightarrow p \equiv \underbrace{(\neg p^+)}_{q} \rightarrow \neg \underbrace{(\neg p)}_{q^+} \text{ where } q^+ \vDash q$$

- This is unexpected under a **NON-REDUNDANCY** view, which is based on the deletion of logically useless material.
- Kalomoiros (2024) recently proposed an account of both HDs and HCs based on a more sophisticated formalization of **NON-REDUNDANCY**, but still cannot cover the case of cHDs like (7).

## Challenge 2: Hurford Conditionals

- Logically **isomorphic** sentences may contrast in terms of oddness.

(8) Hurford Conditionals (HC; Mandelkern and Romoli 2018)

a. If Jo studied in **France**, she did **not** study in **Paris**.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

b. # If Jo did not study in **Paris**, she studied in **France**.

$$\neg p^+ \rightarrow p \equiv \underbrace{(\neg p^+)}_{q} \rightarrow \neg \underbrace{(\neg p)}_{q^+} \text{ where } q^+ \vDash q$$

- This is unexpected under a **NON-REDUNDANCY** view, which is based on the deletion of logically useless material.
- Kalomoiros (2024) recently proposed an account of both HDs and HCs based on a more sophisticated formalization of **NON-REDUNDANCY**, but still cannot cover the case of cHDs like (7).

## Challenge 2: Hurford Conditionals

- Logically **isomorphic** sentences may contrast in terms of oddness.

(8) Hurford Conditionals (HC; Mandelkern and Romoli 2018)

a. If Jo studied in **France**, she did **not** study in **Paris**.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

b. # If Jo did **not** study in **Paris**, she studied in **France**.

$$\neg p^+ \rightarrow p \equiv \underbrace{(\neg p^+)}_{q} \rightarrow \neg \underbrace{(\neg p)}_{q^+} \text{ where } q^+ \vDash q$$

- This is unexpected under a **NON-REDUNDANCY** view, which is based on the deletion of logically useless material.
- Kalomoiras (2024) recently proposed an account of both HDs and HCs based on a more sophisticated formalization of **NON-REDUNDANCY**, but still cannot cover the case of cHDs like (7).

## Challenge 2: Hurford Conditionals

- Logically **isomorphic** sentences may contrast in terms of oddness.

(8) Hurford Conditionals (HC; Mandelkern and Romoli 2018)

a. If Jo studied in **France**, she did **not** study in **Paris**.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

b. # If Jo did **not** study in **Paris**, she studied in **France**.

$$\neg p^+ \rightarrow p \equiv \underbrace{(\neg p^+)}_{q} \rightarrow \neg \underbrace{(\neg p)}_{q^+} \text{ where } q^+ \vDash q$$

- This is unexpected under a **NON-REDUNDANCY** view, which is based on the deletion of logically useless material.
- Kalomoiras (2024) recently proposed an account of both HDs and HCs based on a more sophisticated formalization of **NON-REDUNDANCY**, but still cannot cover the case of cHDs like (7).

## Challenge 2: Hurford Conditionals

- Logically **isomorphic** sentences may contrast in terms of oddness.

(8) Hurford Conditionals (HC; Mandelkern and Romoli 2018)

a. If Jo studied in **France**, she did **not** study in **Paris**.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

b. # If Jo did **not** study in **Paris**, she studied in **France**.

$$\neg p^+ \rightarrow p \equiv \underbrace{(\neg p^+)}_{q} \rightarrow \neg \underbrace{(\neg p)}_{q^+} \text{ where } q^+ \vDash q$$

- This is unexpected under a **NON-REDUNDANCY** view, which is based on the deletion of logically useless material.
- Kalomoiras (2024) recently proposed an account of both HDs and HCs based on a more sophisticated formalization of **NON-REDUNDANCY**, but still cannot cover the case of cHDs like (7).

## Flavors of Oddness

- I will argue that HDs, HCs, and cHDs, display **different flavors of oddness**.
- Nevertheless, I will show that all three cases can be reduced to a core, common issue: the odd variants are **not addressing “good” questions**.
  - With HDs (#Paris or France), the questions will be deemed **REDUNDANT**.
  - With HCs (#If not Paris then France), the questions will be deemed **IRRELEVANT**.
  - With cHDs (#France or Basque country), there will just be **no well-formed question** to begin with.
- Relocating oddness issues to the domain of addressed questions allows to cover all three cases (and more!) within the **same unified framework**, while still cashing how they “feel” distinctly odd.

## Plan for today

1. Background on assertions and questions
2. Overview of the framework: pragmatically constraining implicit questions
3. HDs evoke “redundant” implicit questions
4. HCs evoke “irrelevant” implicit questions
5. cHDs evoke “non-questions” featuring irreconcilable specificity levels
6. Future directions: repairing bad questions makes for good sentences

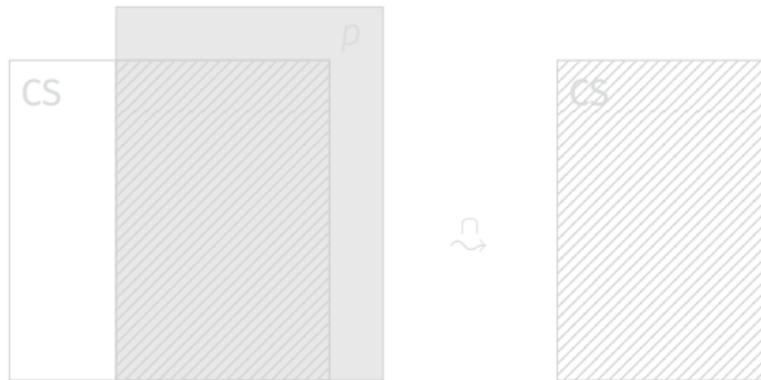


## Background on assertions and questions

---

# Assertions and questions

- Assertions typically denotes propositions (**sets of worlds**).
- The set of worlds compatible with the premises of a conversation is called Context Set (CS).<sup>5</sup>
- Assertions update the CS by intersection.<sup>6</sup>

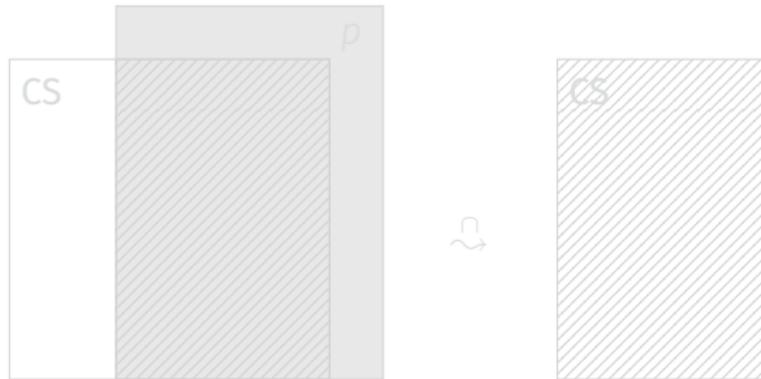


<sup>5</sup>Stalnaker, 1978.

<sup>6</sup>Stalnaker, 1978; Heim, 1982, 1983a, 1983b, i.a.

# Assertions and questions

- Assertions typically denotes propositions (**sets of worlds**).
- The set of worlds compatible with the premises of a conversation is called **Context Set (CS)**.<sup>5</sup>
- Assertions update the CS by intersection.<sup>6</sup>

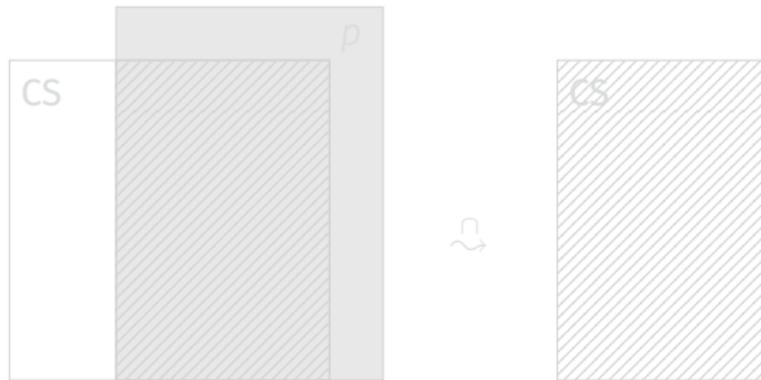


<sup>5</sup>Stalnaker, 1978.

<sup>6</sup>Stalnaker, 1978; Heim, 1982, 1983a, 1983b, i.a.

# Assertions and questions

- Assertions typically denotes propositions (**sets of worlds**).
- The set of worlds compatible with the premises of a conversation is called **Context Set (CS)**.<sup>5</sup>
- Assertions update the CS by **intersection**.<sup>6</sup>

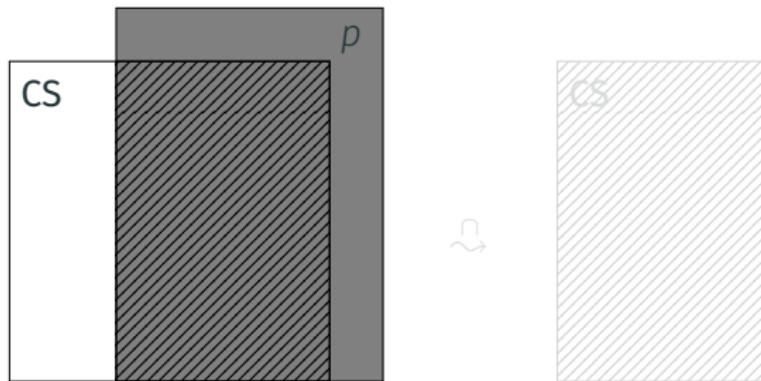


<sup>5</sup>Stalnaker, 1978.

<sup>6</sup>Stalnaker, 1978; Heim, 1982, 1983a, 1983b, i.a.

# Assertions and questions

- Assertions typically denotes propositions (**sets of worlds**).
- The set of worlds compatible with the premises of a conversation is called **Context Set (CS)**.<sup>5</sup>
- Assertions update the CS by **intersection**.<sup>6</sup>

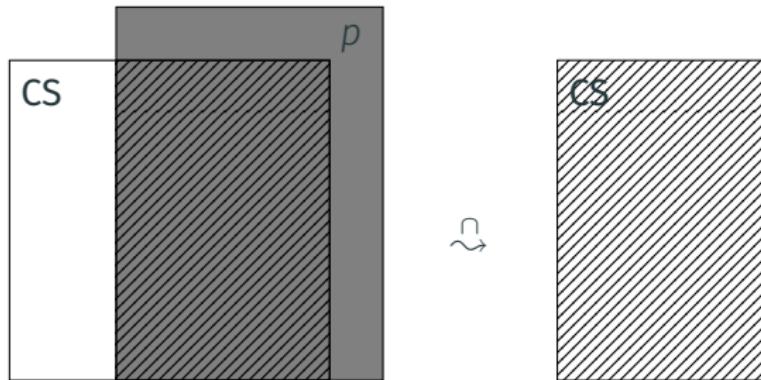


<sup>5</sup>Stalnaker, 1978.

<sup>6</sup>Stalnaker, 1978; Heim, 1982, 1983a, 1983b, i.a.

# Assertions and questions

- Assertions typically denotes propositions (**sets of worlds**).
- The set of worlds compatible with the premises of a conversation is called **Context Set (CS)**.<sup>5</sup>
- Assertions update the CS by **intersection**.<sup>6</sup>



<sup>5</sup>Stalnaker, 1978.

<sup>6</sup>Stalnaker, 1978; Heim, 1982, 1983a, 1983b, i.a.

## Standard question semantics

- Questions have been traditionally understood as the **set of their possible answers, or “alternatives”**.<sup>7</sup>

(9)  $\llbracket \text{Who did the readings?} \rrbracket = \{\text{Ed}, \text{Al}, \text{Ed and Al}, \dots\}$

- Alternatives are not necessarily exclusive: if Ed and Al did the readings then Ed did the readings.
- Stronger alternatives, intuitively correspond to “better” answers.
- Given that questions are sets of propositions, how are they supposed to affect the CS?

---

<sup>7</sup>Hamblin, 1973; Karttunen, 1977.

## Standard question semantics

- Questions have been traditionally understood as the **set of their possible answers, or “alternatives”**.<sup>7</sup>

(9)  $\llbracket \text{Who did the readings?} \rrbracket = \{\text{Ed}, \text{Al}, \text{Ed and Al}, \dots\}$

- Alternatives are not necessarily exclusive: if Ed and Al did the readings then Ed did the readings.
- Stronger alternatives, intuitively correspond to “better” answers.
- Given that questions are sets of propositions, how are they supposed to affect the CS?

---

<sup>7</sup>Hamblin, 1973; Karttunen, 1977.

## Standard question semantics

- Questions have been traditionally understood as the **set of their possible answers, or “alternatives”**.<sup>7</sup>

(9)  $\llbracket \text{Who did the readings?} \rrbracket = \{\text{Ed}, \text{Al}, \text{Ed and Al}, \dots\}$

- Alternatives are not necessarily exclusive: if Ed and Al did the readings then Ed did the readings.
- Stronger alternatives, intuitively correspond to “better” answers.
- Given that questions are sets of propositions, how are they supposed to affect the CS?

---

<sup>7</sup>Hamblin, 1973; Karttunen, 1977.

## Standard question semantics

- Questions have been traditionally understood as the **set of their possible answers, or “alternatives”**.<sup>7</sup>

(9)  $\llbracket \text{Who did the readings?} \rrbracket = \{\text{Ed}, \text{Al}, \text{Ed and Al}, \dots\}$

- Alternatives are not necessarily exclusive: if Ed and Al did the readings then Ed did the readings.
- Stronger alternatives, intuitively correspond to “better” answers.
- Given that questions are sets of propositions, **how are they supposed to affect the CS?**

---

<sup>7</sup>Hamblin, 1973; Karttunen, 1977.

## Standard question pragmatics

- Questions induce a **partition of the CS**, i.e. a set of non-empty, disjoint subsets of the CS which together cover it.
- To get that partition, we just group together the worlds of the CS that agree on all of the question's alternatives.<sup>8</sup>

- The resulting groups are called **cells**: they tell us which distinctions “matter”.
- I will consider exhaustive and mutually exclusive alternatives, s.t. question semantics and question pragmatics in fact coincide.

---

<sup>8</sup>Groenendijk and Stokhof, 1984.

## Standard question pragmatics

- Questions induce a **partition of the CS**, i.e. a set of non-empty, disjoint subsets of the CS which together cover it.
- To get that partition, we just group together the worlds of the CS that agree on all of the question's alternatives.<sup>8</sup>

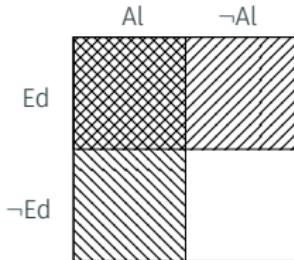
- The resulting groups are called **cells**: they tell us which distinctions “matter”.
- I will consider exhaustive and mutually exclusive alternatives, s.t. question semantics and question pragmatics in fact coincide.

---

<sup>8</sup>Groenendijk and Stokhof, 1984.

# Standard question pragmatics

- Questions induce a **partition of the CS**, i.e. a set of non-empty, disjoint subsets of the CS which together cover it.
- To get that partition, we just group together the worlds of the CS that agree on all of the question's alternatives.<sup>8</sup>



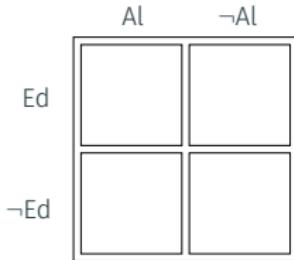
**Step 1:** Check how each world deals with the alternatives: defines *Al did the readings* and defines *Ed did the readings*.

- The resulting groups are called **cells**: they tell us which distinctions “matter”.
- I will consider exhaustive and mutually exclusive alternatives, s.t. question semantics and question pragmatics in fact coincide.

<sup>8</sup>Groenendijk and Stokhof, 1984.

# Standard question pragmatics

- Questions induce a **partition of the CS**, i.e. a set of non-empty, disjoint subsets of the CS which together cover it.
- To get that partition, we just group together the worlds of the CS that agree on all of the question's alternatives.<sup>8</sup>



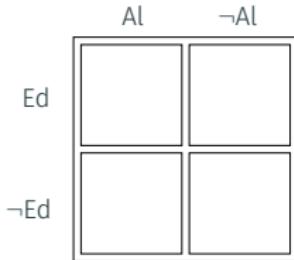
**Step 2:** Partition the CS by grouping worlds that pattern the same.

- The resulting groups are called **cells**: they tell us which distinctions “matter”.
- I will consider exhaustive and mutually exclusive alternatives, s.t. question semantics and question pragmatics in fact coincide.

<sup>8</sup>Groenendijk and Stokhof, 1984.

# Standard question pragmatics

- Questions induce a **partition of the CS**, i.e. a set of non-empty, disjoint subsets of the CS which together cover it.
- To get that partition, we just group together the worlds of the CS that agree on all of the question's alternatives.<sup>8</sup>



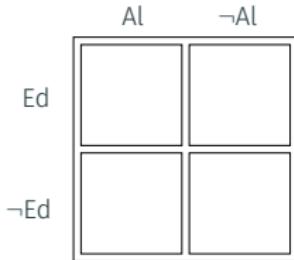
**Step 2:** Partition the CS by grouping worlds that pattern the same.

- The resulting groups are called **cells**: they tell us which distinctions “matter”.
- I will consider exhaustive and mutually exclusive alternatives, s.t. question semantics and question pragmatics in fact coincide.

<sup>8</sup>Groenendijk and Stokhof, 1984.

# Standard question pragmatics

- Questions induce a **partition of the CS**, i.e. a set of non-empty, disjoint subsets of the CS which together cover it.
- To get that partition, we just group together the worlds of the CS that agree on all of the question's alternatives.<sup>8</sup>



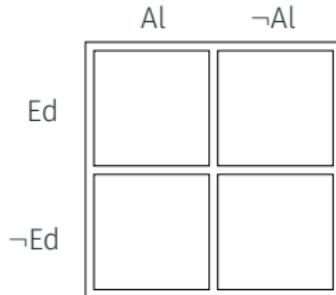
**Step 2:** Partition the CS by grouping worlds that pattern the same.

- The resulting groups are called **cells**: they tell us which distinctions “matter”.
- I will consider exhaustive and mutually exclusive alternatives, s.t. question semantics and question pragmatics in fact coincide.

<sup>8</sup>Groenendijk and Stokhof, 1984.

# Answering questions

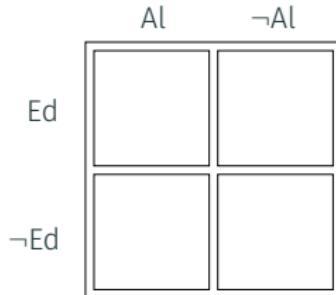
- Here the cells are *only Ed did the readings*, *only Al*, *Ed and Al*, and *neither*. Those are **maximal answers**.
- Union of cells, e.g. *Ed did the readings* (including *only Ed*, and *Ed and Al*), are non-maximal answers.



- Questions *encode* maximal answers only. The non-maximal ones are *derived* by union.

# Answering questions

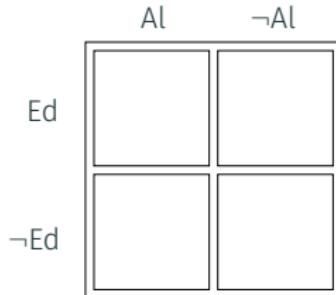
- Here the cells are *only Ed did the readings*, *only Al*, *Ed and Al*, and *neither*. Those are **maximal answers**.
- Union of cells, e.g. *Ed did the readings* (including *only Ed*, and *Ed and Al*), are **non-maximal answers**.



- Questions *encode* maximal answers only. The non-maximal ones are *derived* by union.

# Answering questions

- Here the cells are *only Ed did the readings*, *only Al*, *Ed and Al*, and *neither*. Those are **maximal answers**.
- Union of cells, e.g. *Ed did the readings* (including *only Ed*, and *Ed and Al*), are **non-maximal answers**.



- Questions *encode* maximal answers only. The non-maximal ones are *derived* by union.

## Constraints on question-answer pairs: Congruence

- Question-answer pairs are subject to **constraints**.
- For instance, an answer better be “congruent” with the corresponding question. This explains the pattern in (10).

(10) Who did the readings?

- a. ED did the readings.
- b. # Ed did the READINGS.

(11) **QUESTION-ANSWER CONGRUENCE** (Rooth, 1992's version). For a pair  $\langle Q, A \rangle$  to be well-formed, any alternative in  $\llbracket Q \rrbracket$ , must be obtainable from a substitution of A's focused material.

## Constraints on question-answer pairs: Congruence

- Question-answer pairs are subject to **constraints**.
- For instance, an answer better be “congruent” with the corresponding question. This explains the pattern in (10).

(10) **Who** did the readings?

- a. **ED** did the readings.
- b. # Ed did the **READINGS**.

(11) **QUESTION-ANSWER CONGRUENCE** (Rooth, 1992's version). For a pair  $\langle Q, A \rangle$  to be well-formed, any alternative in  $\llbracket Q \rrbracket$ , must be obtainable from a substitution of A's focused material.

## Constraints on question-answer pairs: Congruence

- Question-answer pairs are subject to **constraints**.
- For instance, an answer better be “congruent” with the corresponding question. This explains the pattern in (10).

(10) **Who** did the readings?

- a. **ED** did the readings.
- b. # Ed did the **READINGS**.

(11) **QUESTION-ANSWER CONGRUENCE** (Rooth, 1992's version). For a pair  $\langle Q, A \rangle$  to be well-formed, any alternative in  $\llbracket Q \rrbracket$ , must be obtainable from a substitution of  $A$ 's focused material.

## Constraints on question-answer pairs: Relevance

- RELEVANCE spells out the intuition that **the cells of a question drive what needs to be addressed.**
- (12) **RELEVANCE** (Križ & Spector, 2020's version). An answer is relevant to a question if it corresponds to a non-maximal union of cells.
- But what if there's no clear question?
- Although the idea that similar constraints are at play beyond overt question-answer pairs has been around for a while,<sup>9</sup> the systematic link between assertions and implicit questions is still poorly understood.

---

<sup>9</sup>Lewis, 1988; Roberts, 1996; Riester, 2019, i.a.

## Constraints on question-answer pairs: Relevance

- RELEVANCE spells out the intuition that **the cells of a question drive what needs to be addressed.**
- (12) **RELEVANCE** (Križ & Spector, 2020's version). An answer is relevant to a question if it corresponds to a non-maximal union of cells.
- But what if there's no clear question?
- Although the idea that similar constraints are at play beyond overt question-answer pairs has been around for a while,<sup>9</sup> the systematic link between assertions and implicit questions is still poorly understood.

---

<sup>9</sup>Lewis, 1988; Roberts, 1996; Riester, 2019, i.a.

## Constraints on question-answer pairs: Relevance

- RELEVANCE spells out the intuition that **the cells of a question drive what needs to be addressed.**
- (12) **RELEVANCE** (Križ & Spector, 2020's version). An answer is relevant to a question if it corresponds to a non-maximal union of cells.
- But what if there's no clear question?
- Although the idea that similar constraints are at play beyond overt question-answer pairs has been around for a while,<sup>9</sup> **the systematic link between assertions and implicit questions is still poorly understood.**

---

<sup>9</sup>Lewis, 1988; Roberts, 1996; Riester, 2019, i.a.

## Implicit Questions

---

# Preview of the framework

- Core intuition: **a good sentence has to be a good answer to a good question.**<sup>10</sup>
- I formalize this longstanding intuition by proposing a compositional model of implicit questions, which is:
  - directly sensitive to the degree of specificity conveyed by sentences;
  - and constrained by generalizations of familiar pragmatic principles, including RELEVANCE and REDUNDANCY.

---

<sup>10</sup>Rooth, 1985; Lewis, 1988; Rooth, 1992; Roberts, 1996; Büring, 2003; Katzir and Singh, 2015; Zhang, 2022, i.a.

# Preview of the framework

- Core intuition: a good sentence has to be a good answer to a good question.<sup>10</sup>
- I formalize this longstanding intuition by proposing a **compositional model of implicit questions**, which is:
  - directly sensitive to the degree of specificity conveyed by sentences;
  - and constrained by generalizations of familiar pragmatic principles, including RELEVANCE and REDUNDANCY.

---

<sup>10</sup>Rooth, 1985; Lewis, 1988; Rooth, 1992; Roberts, 1996; Büring, 2003; Katzir and Singh, 2015; Zhang, 2022, i.a.

# Preview of the framework

- Core intuition: a good sentence has to be a good answer to a good question.<sup>10</sup>
- I formalize this longstanding intuition by proposing a **compositional model of implicit questions**, which is:
  - directly sensitive to the **degree of specificity** conveyed by sentences;
  - and constrained by generalizations of familiar pragmatic principles, including **RELEVANCE** and **REDUNDANCY**.

---

<sup>10</sup>Rooth, 1985; Lewis, 1988; Rooth, 1992; Roberts, 1996; Büring, 2003; Katzir and Singh, 2015; Zhang, 2022, i.a.

# Preview of the framework

- Core intuition: a good sentence has to be a good answer to a good question.<sup>10</sup>
- I formalize this longstanding intuition by proposing a **compositional model of implicit questions**, which is:
  - directly sensitive to the **degree of specificity** conveyed by sentences;
  - and constrained by generalizations of **familiar pragmatic principles**, including **RELEVANCE** and **REDUNDANCY**.

---

<sup>10</sup>Rooth, 1985; Lewis, 1988; Rooth, 1992; Roberts, 1996; Büring, 2003; Katzir and Singh, 2015; Zhang, 2022, i.a.

## A desideratum to guide our framework

- Overt question answer-pairs match in terms of **specificity**. This should be a desideratum for implicit questions, too.

- (13) a. Where did Jo study? –{**Paris**, **France**}.
- b. In which country did Jo study? –{#**Paris**, **France**}
- c. In which city did Jo study? –{**Paris**, #**France**}

- Basic alternative semantics does not fully capture this: generating a question from a proposition by replacing its focused material with same-type alternatives does not guarantee that the outputs will have same specificity.<sup>11</sup>
- For instance, alternatives like **Paris** and **France**, may be mixed together, giving rise to a weird partition.

---

<sup>11</sup>Assuming alternatives must be “relevant” does not really help either: one must then explain how relevance incorporates specificity.

## A desideratum to guide our framework

- Overt question answer-pairs match in terms of **specificity**. This should be a desideratum for implicit questions, too.

- (13) a. Where did Jo study? –{**Paris**, **France**}.
- b. In which country did Jo study? –{#**Paris**, **France**}
- c. In which city did Jo study? –{**Paris**, #**France**}

- Basic alternative semantics does not fully capture this: generating a question from a proposition by replacing its focused material with same-type alternatives does not guarantee that the outputs will have same specificity.<sup>11</sup>
- For instance, alternatives like **Paris** and **France**, may be mixed together, giving rise to a weird partition.

---

<sup>11</sup>Assuming alternatives must be “relevant” does not really help either: one must then explain how relevance incorporates specificity.

## A desideratum to guide our framework

- Overt question answer-pairs match in terms of **specificity**. This should be a desideratum for implicit questions, too.

- (13) a. Where did Jo study? –{**Paris**, **France**}.
- b. In which country did Jo study? –{#**Paris**, **France**}
- c. In which city did Jo study? –{**Paris**, #**France**}

- Basic alternative semantics does not fully capture this: generating a question from a proposition by replacing its focused material with same-type alternatives does not guarantee that the outputs will have same specificity.<sup>11</sup>
- For instance, alternatives like **Paris** and **France**, may be mixed together, giving rise to a weird partition.

---

<sup>11</sup>Assuming alternatives must be “relevant” does not really help either: one must then explain how relevance incorporates specificity.

## Additional motivations for a specificity constraint

- Does question-answer RELEVANCE help achieve the specificity desideratum? Not quite: both answers in (14) are unions of cells and as such RELEVANT, yet only (14b) seems to match the question's degree of specificity.

(14) In which country did Jo study?

- a. # **Western Europe**
- b. **France, the UK, or Germany**

- Intuitively, (14a) evokes a *which area* question while (14b) evokes a *which country* question, and the former question is coarser-grained than the latter.
- We need a model of questions that encodes specificity relations between propositions – and questions themselves.

## Additional motivations for a specificity constraint

- Does question-answer RELEVANCE help achieve the specificity desideratum? Not quite: both answers in (14) are unions of cells and as such RELEVANT, yet only (14b) seems to match the question's degree of specificity.

(14) In which country did Jo study?

- a. # **Western Europe**
- b. **France, the UK, or Germany**

- Intuitively, (14a) evokes a *which area* question while (14b) evokes a *which country* question, and **the former question is coarser-grained than the latter**.
- We need a model of questions that encodes specificity relations between propositions – and questions themselves.

## Additional motivations for a specificity constraint

- Does question-answer RELEVANCE help achieve the specificity desideratum? Not quite: both answers in (14) are unions of cells and as such RELEVANT, yet only (14b) seems to match the question's degree of specificity.

(14) In which country did Jo study?

- a. # **Western Europe**
- b. **France, the UK, or Germany**

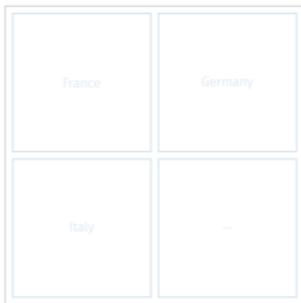
- Intuitively, (14a) evokes a *which area* question while (14b) evokes a *which country* question, and the former question is coarser-grained than the latter.
- We need a model of questions that encodes specificity relations between propositions – and questions themselves.

# Questions as nested partitions

- Questions are modeled as **nested** partitions. Nesting is based on specificity:<sup>12</sup> nested partitions are finer-grained than nesting partitions, meaning, **Paris** and **France** cannot be mixed up.



(a) By-city partition.



(b) By-country partition



(c) Recursive partition.

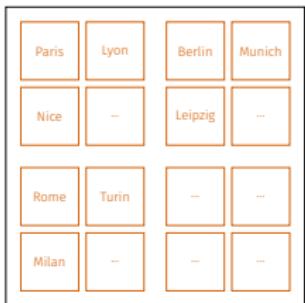
- A “fine-grained” question may then contain coarser-grained questions, meaning, a *which city* question structurally refines a *which country* question.

---

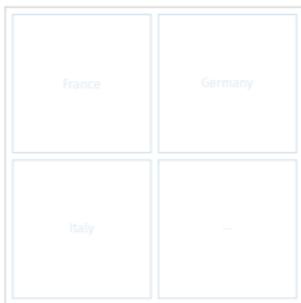
<sup>12</sup>Specificity can be defined using Hasse diagrams induced by  $\sqsubseteq$  on complete sets of alternatives.

# Questions as nested partitions

- Questions are modeled as **nested** partitions. Nesting is based on specificity.<sup>12</sup> Nested partitions are finer-grained than nesting partitions, meaning, **Paris** and **France** cannot be mixed up.



(a) By-city partition.



(b) By-country partition



(c) Recursive partition.

- A “fine-grained” question may then contain coarser-grained questions, meaning, a *which city* question structurally refines a *which country* question.

---

<sup>12</sup>Specificity can be defined using Hasse diagrams induced by  $\sqsubseteq$  on complete sets of alternatives.

# Questions as nested partitions

- Questions are modeled as **nested** partitions. Nesting is based on specificity:<sup>12</sup> nested partitions are finer-grained than nesting partitions, meaning, **Paris** and **France** cannot be mixed up.



(a) By-city partition.



(b) By-country partition



(c) Recursive partition.

- A “fine-grained” question may then contain coarser-grained questions, meaning, a *which city* question structurally refines a *which country* question.

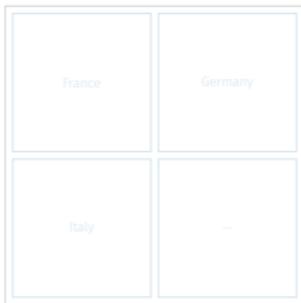
<sup>12</sup>Specificity can be defined using Hasse diagrams induced by  $\sqsubseteq$  on complete sets of alternatives.

# Questions as nested partitions

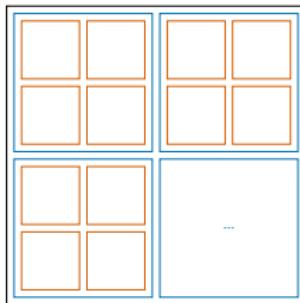
- Questions are modeled as **nested** partitions. Nesting is based on specificity:<sup>12</sup> nested partitions are finer-grained than nesting partitions, meaning, **Paris** and **France** cannot be mixed up.



(a) By-city partition.



(b) By-country partition



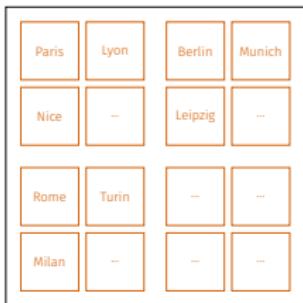
(c) Recursive partition.

- A “fine-grained” question may then contain coarser-grained questions, meaning, a *which city* question **structurally refines** a *which country* question.

<sup>12</sup>Specificity can be defined using Hasse diagrams induced by  $\sqsubseteq$  on complete sets of alternatives.

# Questions as nested partitions

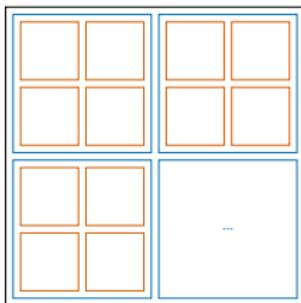
- Questions are modeled as **nested** partitions. Nesting is based on specificity.<sup>12</sup> Nested partitions are finer-grained than nesting partitions, meaning, **Paris** and **France** cannot be mixed up.



(a) By-city partition.



(b) By-country partition



(c) Recursive partition.

- A “fine-grained” question may then contain coarser-grained questions, meaning, a *which city* question **structurally refines** a *which country* question.

<sup>12</sup>Specificity can be defined using Hasse diagrams induced by  $\sqsubseteq$  on complete sets of alternatives.

# Useful notational variant: questions as Trees

- Nested partitions will be represented as **trees** whose nodes are sets of worlds partitioned by their children. The **layers** of a question-tree have **same specificity**.
- Simple sentences like *Jo studied in Paris* may then evoke nested “wh” trees like Fig. 2a, or “polar” trees like Fig. 2b.



(a) “Wh” tree



(b) “Polar” tree

Fig. 2: Trees evoked by *Jo studied in Paris*.

- Their deepest layers matches the prejacent’s specificity.

# Useful notational variant: questions as Trees

- Nested partitions will be represented as **trees** whose nodes are sets of worlds partitioned by their children. The **layers** of a question-tree have **same specificity**.
- Simple sentences like *Jo studied in Paris* may then evoke nested “wh” trees like Fig. 2a, or “polar” trees like Fig. 2b.



Fig. 2: Trees evoked by *Jo studied in Paris*.

- Their deepest layers matches the prejacent's specificity.

# Useful notational variant: questions as Trees

- Nested partitions will be represented as **trees** whose nodes are sets of worlds partitioned by their children. The **layers** of a question-tree have **same specificity**.
- Simple sentences like *Jo studied in Paris* may then evoke nested “wh” trees like Fig. 2a, or “polar” trees like Fig. 2b.



Fig. 2: Trees evoked by *Jo studied in Paris*.

- Their deepest layers matches the prejacent's specificity.

# Benefits of question trees beyond specificity encoding

- Implicit questions<sup>13</sup>, and question trees<sup>14</sup> have been around for a while. Ippolito (2019) even discussed how specificity differences in trees could capture oddness.
- But none of the previous approaches leveraged the expressivity of a tree model, to render the idea that **the questions evoked by a sentence, are compositionally derived from its LF**.
- This is needed if one wants to make precise predictions about logically isomorphic, yet structurally distinct sentences (like HCs).
- We now introduce a set of rules for  $\neg$ ,  $\vee$ , and conditionals, that apply to trees and **recycle longstanding intuitions about these operators**.

---

<sup>13</sup>Carlson, 1985; von Stutterheim and Klein, 1989; Kuppeveld, 1995; van Kuppeveld, 1995; Ginzburg, 1996, 2012.

<sup>14</sup>Roberts, 1996; Büring, 2003; Onea, 2016; Ippolito, 2019; Riester, 2019; Zhang, 2022, i.a.

# Flagging, and “negating” Questions Trees

- When a simple assertion evokes an implicit question tree, leaves entailing the assertion get flagged; flags track “at-issue” meaning, and are compositionally derived.
- Negating an assertion flips the flags on this assertion’s trees. Flag-flipping is a layerwise complement set operation, which does not affect the specificity of the underlying question-tree.

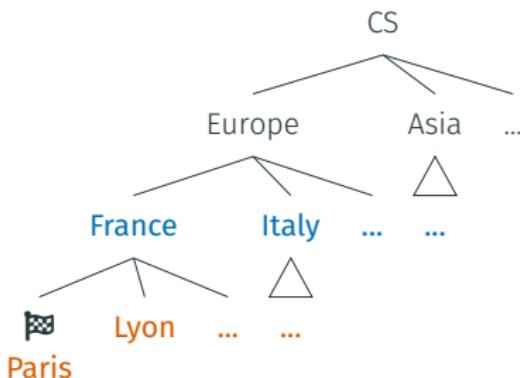


Fig. 3: A tree for *Jo studied in Paris*.

# Flagging, and “negating” Questions Trees

- When a simple assertion evokes an implicit question tree, leaves entailing the assertion get flagged; flags track “at-issue” meaning, and are compositionally derived.
- Negating an assertion flips the flags on this assertion’s trees. Flag-flipping is a layerwise complement set operation, which does not affect the specificity of the underlying question-tree.

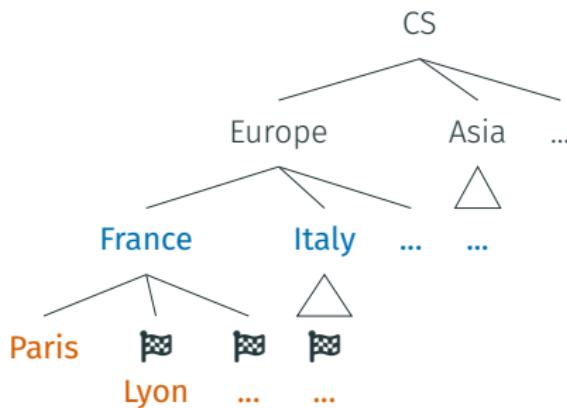


Fig. 4: A tree for *Jo did not study in Paris*.

## Disjoining Questions Trees

- Disjunction **fuses** the trees evoked by the disjuncts, retaining only unions that are well-formed nested partitions.
  - Set of flagged nodes are also fused.

# Disjoining Questions Trees

- Disjunction **fuses** the trees evoked by the disjuncts, retaining only unions that are well-formed nested partitions.
- Set of flagged nodes are also fused.

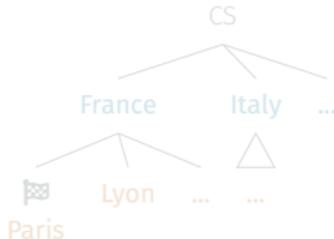


Fig. 5: A tree for *Jo studied in Paris*.

U



Fig. 6: A tree for *Jo studied in France*.



Fig. 7: A tree for *#Jo studied in Paris or France*.

# Disjoining Questions Trees

- Disjunction **fuses** the trees evoked by the disjuncts, retaining only unions that are well-formed nested partitions.
- Set of flagged nodes are also fused.

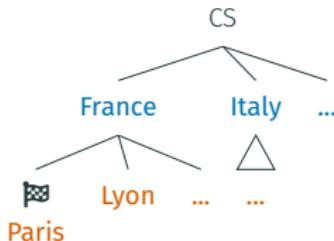


Fig. 5: A tree for *Jo studied in Paris*.

U



Fig. 6: A tree for *Jo studied in France*.



Fig. 7: A tree for *#Jo studied in Paris or France*.

# Disjoining Questions Trees

- Disjunction **fuses** the trees evoked by the disjuncts, retaining only unions that are well-formed nested partitions.
- Set of flagged nodes are also fused.

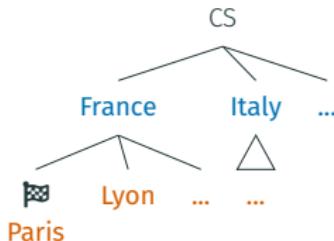


Fig. 5: A tree for *Jo studied in Paris*.

U



Fig. 6: A tree for *Jo studied in France*.



Fig. 7: A tree for *#Jo studied in Paris or France*.

# Disjoining Questions Trees

- Disjunction **fuses** the trees evoked by the disjuncts, retaining only unions that are well-formed nested partitions.
- Set of flagged nodes are also fused.

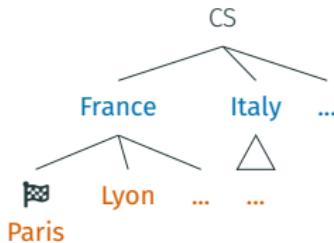


Fig. 5: A tree for *Jo studied in Paris*.

U



Fig. 6: A tree for *Jo studied in France*.

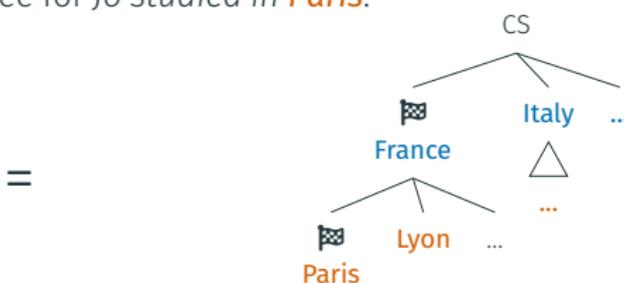


Fig. 7: A tree for *#Jo studied in Paris or France*.

# Conditional Questions Trees

- Conditionals are often taken to **restrict the evaluation of the consequent** to the worlds in which the antecedent holds.<sup>1</sup>
- Therefore, we assume that conditional question-trees raise a question evoked by the consequent, only where the antecedent holds.
- Technically, conditionals “plug” consequent trees, into the flagged leaves of the antecedent trees – keeping only the consequent’s flags.



Fig. 8: A tree for *If Jo studied in France, she did not study in Paris.*

<sup>1</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986, 1991, i.a.

# Conditional Questions Trees

- Conditionals are often taken to **restrict the evaluation of the consequent** to the worlds in which the antecedent holds.<sup>1</sup>
- Therefore, we assume that conditional question-trees raise a question evoked by the consequent, only where the antecedent holds.
- Technically, conditionals “plug” consequent trees, into the flagged leaves of the antecedent trees – keeping only the consequent’s flags.



Fig. 8: A tree for *If Jo studied in France, she did not study in Paris.*

<sup>1</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986, 1991, i.a.

# Conditional Questions Trees

- Conditionals are often taken to **restrict the evaluation of the consequent** to the worlds in which the antecedent holds.<sup>1</sup>
- Therefore, we assume that conditional question-trees raise a question evoked by the consequent, only where the antecedent holds.
- Technically, conditionals “**plug**” **consequent trees**, into the **flagged leaves of the antecedent trees** – keeping only the consequent’s flags.

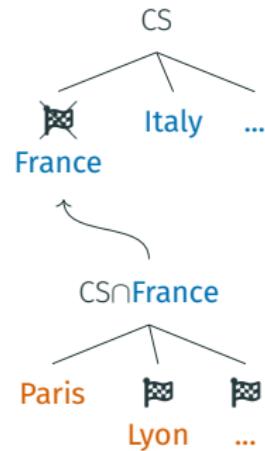
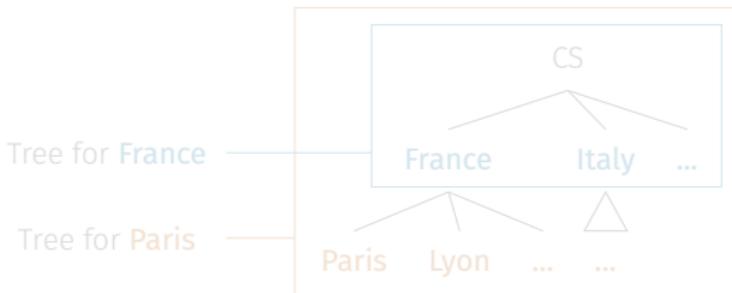


Fig. 8: A tree for *If Jo studied in France, she did not study in Paris.*

<sup>1</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986, 1991, i.a.

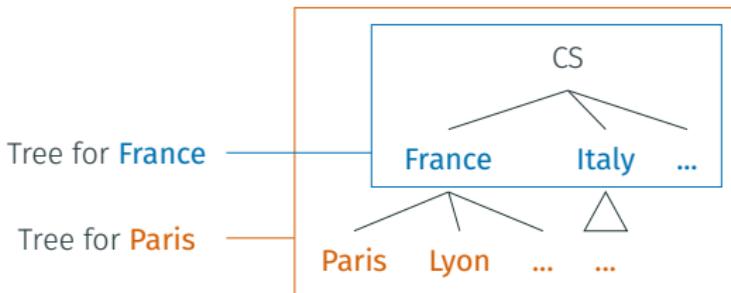
## Interim summary: expressivity of question-trees

- Questions were modeled as **nested partitions**, represented as trees. Even if they look bulkier, they are just the inductive closure of an existing, uncontroversial object: partitions of the CS.
- Trees are expressive enough to capture the intuition that some assertions (e.g. *Paris*, *London*) are more specific than others (e.g. *France*), in that they evoke more “ramified” trees. Specificity is made directly available to the pragmatic module.



## Interim summary: expressivity of question-trees

- Questions were modeled as **nested partitions**, represented as trees. Even if they look bulkier, they are just the inductive closure of an existing, uncontroversial object: partitions of the CS.
- Trees are expressive enough to capture the intuition that some assertions (e.g. **Paris**, **London**) are more specific than others (e.g. **France**), in that they evoke more “ramified” trees. Specificity is made directly available to the pragmatic module.



# Interim summary: transparency of question-trees

- Disjunctions and conditionals can evoke different tree structures, *independently of their assigned semantics*:
  - Disjunctive trees are formed with  $\cup$ , capturing the idea that disjuncts answer the same global question.<sup>15</sup>
  - Conditional trees are formed via an asymmetric  $\cap$ , capturing the idea that antecedents are restrictors.<sup>16</sup>
- This will allow us to capture the challenging contrast in HCs (and the absence of such a contrast in HDs) in an intuitive way.

---

<sup>15</sup>Simons, 2001; Westera, 2020; Zhang, 2022.

<sup>16</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986.

## Interim summary: transparency of question-trees

- Disjunctions and conditionals can evoke different tree structures, *independently of their assigned semantics*:
  - Disjunctive trees are formed with  $\cup$ , capturing the idea that **disjuncts answer the same global question.**<sup>15</sup>
  - Conditional trees are formed *via* an asymmetric  $\cap$ , capturing the idea that antecedents are restrictors.<sup>16</sup>
- This will allow us to capture the challenging contrast in HCs (and the absence of such a contrast in HDs) in an intuitive way.

---

<sup>15</sup>Simons, 2001; Westera, 2020; Zhang, 2022.

<sup>16</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986.

## Interim summary: transparency of question-trees

- Disjunctions and conditionals can evoke different tree structures, *independently of their assigned semantics*:
  - Disjunctive trees are formed with  $\cup$ , capturing the idea that **disjuncts answer the same global question.**<sup>15</sup>
  - Conditional trees are formed *via* an asymmetric  $\cap$ , capturing the idea that **antecedents are restrictors.**<sup>16</sup>
- This will allow us to capture the challenging contrast in HCs (and the absence of such a contrast in HDs) in an intuitive way.

---

<sup>15</sup>Simons, 2001; Westera, 2020; Zhang, 2022.

<sup>16</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986.

## Interim summary: transparency of question-trees

- Disjunctions and conditionals can evoke different tree structures, *independently of their assigned semantics*:
  - Disjunctive trees are formed with  $\cup$ , capturing the idea that **disjuncts answer the same global question.**<sup>15</sup>
  - Conditional trees are formed *via* an asymmetric  $\cap$ , capturing the idea that **antecedents are restrictors.**<sup>16</sup>
- This will allow us to capture the challenging contrast in HCs (and the absence of such a contrast in HDs) in an intuitive way.

---

<sup>15</sup>Simons, 2001; Westera, 2020; Zhang, 2022.

<sup>16</sup>Lewis, 1975; Heim, 1982; Kratzer, 1986.



cHDs for free

---

## Back to “Compatible” Hurford Disjunctions

- Recall cHDs seem to be odd due to the mere **logical compatibility** of their disjuncts.

(7) “Compatible” Hurford Disjunction (cHD)

?? Jo studied in **France** or **the Basque country**.

Conveys: Jo studied in **France** or the **Spanish Basque country**.

- This will come almost for free in the current framework: **France** and **the Basque country** evoke question trees with irreconcilable degrees of specificity, making them impossible to disjoin properly.

## Back to “Compatible” Hurford Disjunctions

- Recall cHDs seem to be odd due to the mere **logical compatibility** of their disjuncts.
- (7) “Compatible” Hurford Disjunction (cHD)  
?? Jo studied in **France** or **the Basque country**.  
Conveys: Jo studied in **France** or the **Spanish Basque country**.
- This will come almost **for free** in the current framework: **France** and **the Basque country** evoke question trees with **irreconcilable degrees of specificity**, making them impossible to disjoin properly.

## Back to “Compatible” Hurford Disjunctions

- Recall cHDs seem to be odd due to the mere **logical compatibility** of their disjuncts.
- (7) “Compatible” Hurford Disjunction (cHD)  
?? Jo studied in **France** or **the Basque country**.  
Conveys: Jo studied in **France** or the **Spanish Basque country**.
- This will come almost **for free** in the current framework: **France** and **the Basque country** evoke question trees with **irreconcilable degrees of specificity**, making them impossible to disjoin properly.

# Question trees for Jo studied in France

- The leaves of an evoked question tree always **match the degree of specificity** of the prejacent proposition.
- The leaves of question trees for **France** will necessarily include **France**.<sup>17</sup>



Fig. 9: Trees evoked by *Jo studied in France*.

<sup>17</sup>Even relaxing this—e.g. assuming a **France**-tree (and a **Basque**-tree) could contain **France**  $\wedge$   $\neg$ **Basque** and **France**  $\wedge$  **Basque** leaves, we'd run into issues *later on* due to a violation of partition-by-exh Fox, 2018. But this argument is quite involved.

# Question trees for Jo studied in France

- The leaves of an evoked question tree always **match the degree of specificity** of the prejacent proposition.
- The leaves of question trees for **France** will necessarily include **France**.<sup>17</sup>

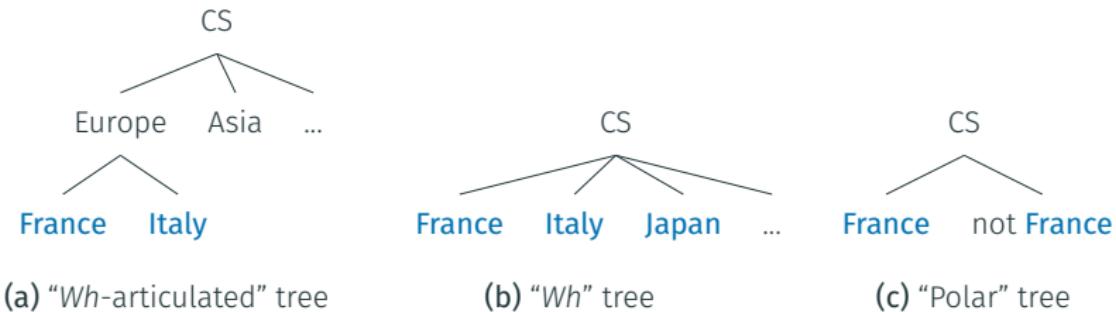


Fig. 9: Trees evoked by Jo studied in *France*.

<sup>17</sup>Even relaxing this—e.g. assuming a **France**-tree (and a **Basque**-tree) could contain **France**  $\wedge$   $\neg$ **Basque** and **France**  $\wedge$  **Basque** leaves, we'd run into issues *later on* due to a violation of partition-by-exh Fox, 2018. But this argument is quite involved.

# Question trees for Jo studied in the Basque country

- Likewise, the leaves of a question tree for the **the Basque country** will necessarily include **the Basque country**.

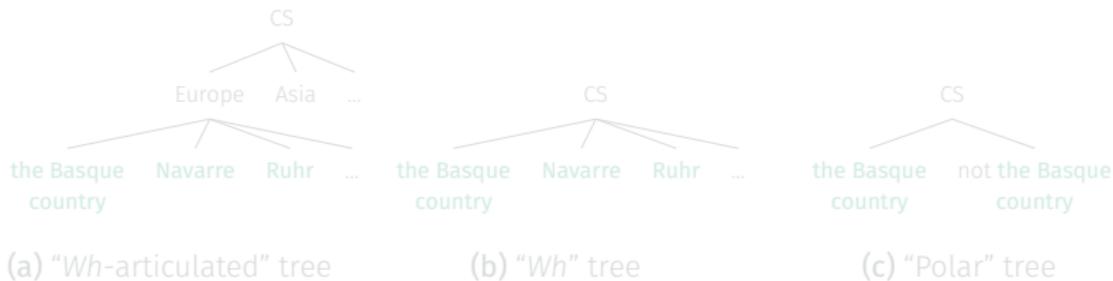


Fig. 10: Trees evoked by Jo studied in *the Basque country*.

# Question trees for Jo studied in the Basque country

- Likewise, the leaves of a question tree for the **the Basque country** will necessarily include **the Basque country**.

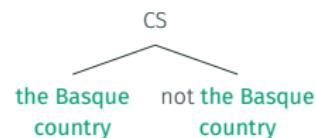
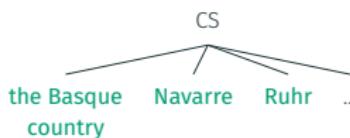
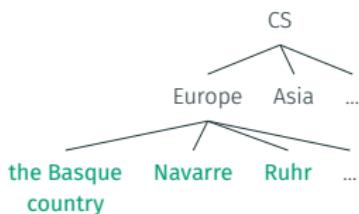
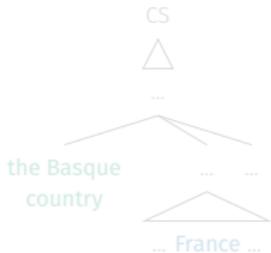


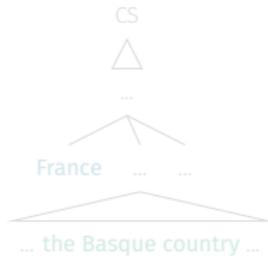
Fig. 10: Trees evoked by Jo studied in **the Basque country**.

# Irreconcilable degrees of specificity

- Recall that disjuncts answer the same global question, so their question trees should be fused.
- Fusing a “France”-tree with a “Basque country”- tree always produces a tree with France and Basque country nodes: not a well-formed nested partition!



(a) Violates containment:  
France cannot be contained in anything disjoint from the Basque country.



(b) Violates containment:  
the Basque country cannot be contained in anything disjoint from France.

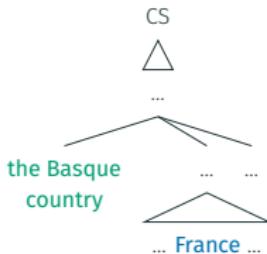


(c) Violates disjointness:  
the Basque country and France are not disjoint.

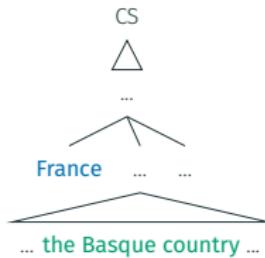
Fig. 11: Trees evoked by #Jo studied in France or the Basque country.

# Irreconcilable degrees of specificity

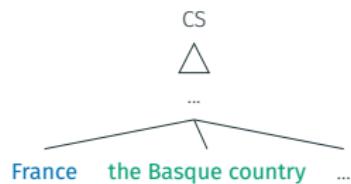
- Recall that disjuncts answer the same global question, so their question trees should be fused.
- Fusing a “France”-tree with a “Basque country”- tree always produces a tree with France and Basque country nodes: not a well-formed nested partition!



(a) Violates containment:  
France cannot be contained in anything disjoint from the Basque country.



(b) Violates containment:  
the Basque country cannot be contained in anything disjoint from France.



(c) Violates disjointness:  
the Basque country and France are not disjoint.

Fig. 11: Trees evoked by #Jo studied in France or the Basque country.

## Taking stock and moving on

- The fact **France** and **the Basque country**, when disjoined, cannot evoke a single well-formed question tree is interesting, because CHDs were a main challenge for most if not all past approaches to oddness; while for us their oddness is **at the core of the model**.
- We'll now turn to the case of HDs, in which disjuncts (**Paris** and **France**) yield a well-formed question tree, which however incurs a violation of an updated version of **NON-REDUNDANCY**.

## Taking stock and moving on

---

- The fact **France** and **the Basque country**, when disjoined, cannot evoke a single well-formed question tree is interesting, because CHDs were a main challenge for most if not all past approaches to oddness; while for us their oddness is **at the core of the model**.
- We'll now turn to the case of HDs, in which disjuncts (**Paris** and **France**) yield a well-formed question tree, which however incurs a violation of an **updated version of NON-REDUNDANCY**.



## Hurford Disjunctions and Redundancy

---

# Back to Hurford Disjunctions

## (4) Hurford Disjunction (HD)

# Jo studied in **Paris** or in **France**.

- In our framework, HDs evoke well-formed unions of trees evoked by the disjuncts. We can show that there is only one possibility, the one we computed before, repeated below.

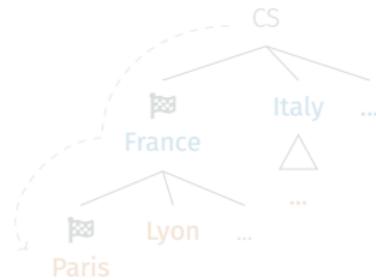


Fig. 12: A tree for #Jo studied in **Paris** or **France**.

- Descriptively, the issue seems to come from the fact the **Flag** are on the same path to the CS root – i.e. inquiring about **Paris**, already settles **France**.

# Back to Hurford Disjunctions

## (4) Hurford Disjunction (HD)

# Jo studied in **Paris** or in **France**.

- In our framework, HDs evoke well-formed unions of trees evoked by the disjuncts. We can show that there is only one possibility, the one we computed before, repeated below.

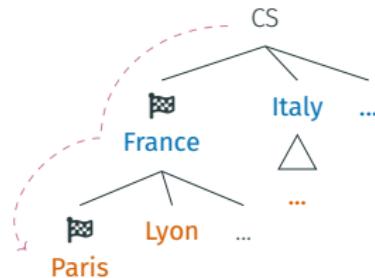


Fig. 12: A tree for #Jo studied in **Paris** or **France**.

- Descriptively, the issue seems to come from the fact the **☒** are on the same path to the CS root – i.e. inquiring about **Paris**, already settles **France**.

# Back to Hurford Disjunctions

## (4) Hurford Disjunction (HD)

# Jo studied in **Paris** or in **France**.

- In our framework, HDs evoke well-formed unions of trees evoked by the disjuncts. We can show that there is only one possibility, the one we computed before, repeated below.

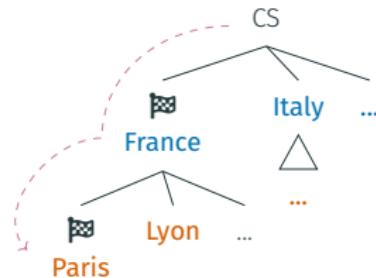


Fig. 12: A tree for #Jo studied in **Paris** or **France**.

- Descriptively, the issue seem to come from the fact the **☒** are on the same path to the CS root – i.e. inquiring about **Paris**, already settles **France**.

## Q-Non-Redundancy

- Recall REDUNDANCY arises when a sentence has the same logical content as one of its simplifications.
- We generalize this to sentence-tree pairs: Q-REDUNDANCY arises for a sentence-tree pair, if a simplification of the sentence, yields an “equivalent” tree.
- Tree equivalence is understood as structural identity plus equality of minimal paths from the root to all .

## Q-Non-Redundancy

---

- Recall REDUNDANCY arises when a sentence has the same logical content as one of its simplifications.
- We generalize this to sentence-tree pairs: Q-REDUNDANCY arises for a sentence-tree pair, if a **simplification of the sentence, yields an “equivalent” tree**.
- Tree equivalence is understood as structural identity plus equality of minimal paths from the root to all .

- Recall REDUNDANCY arises when a sentence has the same logical content as one of its simplifications.
- We generalize this to sentence-tree pairs: Q-REDUNDANCY arises for a sentence-tree pair, if a **simplification of the sentence, yields an “equivalent” tree**.
- Tree equivalence is understood as **structural identity plus equality of minimal paths from the root to all** .

# Capturing HDs

- The HD **Paris or France**, is then odd because its only implicit tree, is equivalent to a tree evoked by the **Paris**-disjunct.
- The trees below have same structure, and both only need one path, from the CS root to **Paris**, to cover all .
- This captures the intuition that inquiring about **Paris**, settles **France** “for free”.



Fig. 13: Tree for #Jo studied in **Paris or France**.

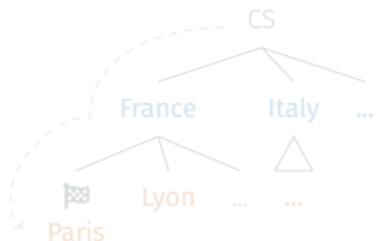


Fig. 14: A tree for Jo studied in **Paris**.

# Capturing HDs

- The HD **Paris or France**, is then odd because its only implicit tree, is equivalent to a tree evoked by the **Paris**-disjunct.
- The trees below have same structure, and both only need one path, from the CS root to **Paris**, to cover all .
- This captures the intuition that **inquiring about Paris**, settles **France “for free”**.

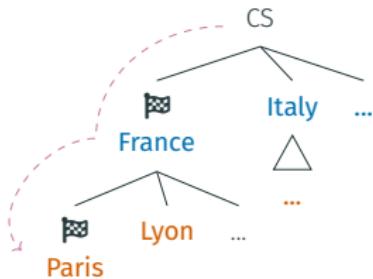


Fig. 13: Tree for #Jo studied in **Paris or France**.

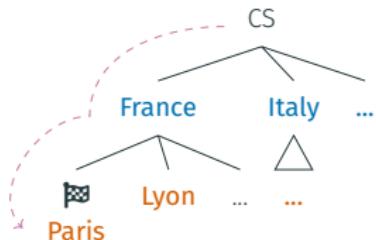


Fig. 14: A tree for Jo studied in **Paris**.

## Additional remarks about Q-NON-REDUNDANCY

- Unlike standard NON-REDUNDANCY approaches, Q-NON-REDUNDANCY deems HDs odd due to their *stronger* disjunct.
- Because Q-NON-REDUNDANCY is sensitive to the entire tree compositionally evoked by a sentence, it captures long-distance interactions e.g. between **France** and **Paris** in (15)

(15) Long-Distance Hurford Disjunction (Marty & Romoli, 2022)  
# Jo studied in **Paris** or **London**, or studied in **France**.

- Beyond Hurford Sentences, Q-NON-REDUNDANCY covers paradigms unaccounted for by earlier approaches.
- Q-NON-REDUNDANCY being a constraint on sentence-tree pairs, it effectively rules-out trees evoked by a given sentence. It may **conspire** with other constraints, to eventually rule-out *all* the tree evoked by a sentence and make it odd.

## Additional remarks about Q-NON-REDUNDANCY

- Unlike standard NON-REDUNDANCY approaches, Q-NON-REDUNDANCY deems HDs odd due to their *stronger* disjunct.
- Because Q-NON-REDUNDANCY is sensitive to the entire tree compositionally evoked by a sentence, it **captures long-distance interactions** e.g. between **France** and **Paris** in (15)

- (15) Long-Distance Hurford Disjunction (Marty & Romoli, 2022)  
# Jo studied in **Paris** or **London**, or studied in **France**.

- Beyond Hurford Sentences, Q-NON-REDUNDANCY covers paradigms unaccounted for by earlier approaches.
- Q-NON-REDUNDANCY being a constraint on sentence-tree pairs, it effectively rules-out trees evoked by a given sentence. It may **conspire** with other constraints, to eventually rule-out *all* the tree evoked by a sentence and make it odd.

## Additional remarks about Q-NON-REDUNDANCY

- Unlike standard NON-REDUNDANCY approaches, Q-NON-REDUNDANCY deems HDs odd due to their *stronger* disjunct.
- Because Q-NON-REDUNDANCY is sensitive to the entire tree compositionally evoked by a sentence, it **captures long-distance interactions** e.g. between **France** and **Paris** in (15)

- (15) Long-Distance Hurford Disjunction (Marty & Romoli, 2022)  
# Jo studied in **Paris** or **London**, or studied in **France**.

- Beyond Hurford Sentences, Q-NON-REDUNDANCY covers paradigms unaccounted for by earlier approaches.
- Q-NON-REDUNDANCY being a constraint on sentence-tree pairs, it effectively rules-out trees evoked by a given sentence. It may conspire with other constraints, to eventually rule-out *all* the tree evoked by a sentence and make it odd.

## Additional remarks about Q-NON-REDUNDANCY

- Unlike standard NON-REDUNDANCY approaches, Q-NON-REDUNDANCY deems HDs odd due to their *stronger* disjunct.
- Because Q-NON-REDUNDANCY is sensitive to the entire tree compositionally evoked by a sentence, it **captures long-distance interactions** e.g. between **France** and **Paris** in (15)

- (15) Long-Distance Hurford Disjunction (Marty & Romoli, 2022)  
# Jo studied in **Paris** or **London**, or studied in **France**.

- Beyond Hurford Sentences, Q-NON-REDUNDANCY covers paradigms unaccounted for by earlier approaches.
- Q-NON-REDUNDANCY being a constraint on sentence-tree pairs, it effectively rules-out trees evoked by a given sentence. It may **conspire** with other constraints, to eventually rule-out *all* the tree evoked by a sentence and make it odd.

# Hurford Conditionals and Relevance

---

# The challenge of Hurford Conditionals

- HCs are logically isomorphic: both can be seen as  $p \rightarrow \neg p^+$  with  $p^+ \vDash p$ , modulo double  $\neg$ -introduction (Mandelkern & Romoli, 2018).

## (8) Hurford Conditionals (HC)

- If Jo studied in France, she did not study in Paris.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

- # If Jo did not study in Paris, she studied in France.

$$\neg p^+ \rightarrow p \equiv (\underbrace{\neg p^+}_{q}) \rightarrow \neg (\underbrace{\neg p}_{q^+}) \text{ where } q^+ \vDash q$$

- Put differently, not Paris and France play symmetric roles.

the World		
not France	France	
not France	France and not Paris	Paris
not Paris		Paris

# The challenge of Hurford Conditionals

- HCs are logically isomorphic: both can be seen as  $p \rightarrow \neg p^+$  with  $p^+ \vDash p$ , modulo double  $\neg$ -introduction (Mandelkern & Romoli, 2018).

## (8) Hurford Conditionals (HC)

- If Jo studied in France, she did not study in Paris.

$$p \rightarrow \neg p^+ \text{ where } p^+ \vDash p$$

- # If Jo did not study in Paris, she studied in France.

$$\neg p^+ \rightarrow p \equiv (\underbrace{\neg p^+}_{q}) \rightarrow \neg (\underbrace{\neg p}_{q^+}) \text{ where } q^+ \vDash q$$

- Put differently, not Paris and France play symmetric roles.

the World		
not France	France	
not France	France and not Paris	Paris
not Paris		Paris

## Describing the contrast in HCs

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.
- Descriptively, (8a) and #(8b) only differ in:
  - (i) the placement of overt negation: having it in the antecedent causes #.
  - (ii) how antecedents and consequents are ordered in terms of specificity: **fine-to-coarse** progressions are #.
- To capture HCs, Kalomirois (2024)'s SUPER REDUNDANCY constraint exploited (i); I exploit (ii).
- This will make way for a more intuitive account, recycling a familiar concept (RELEVANCE) at the subsentential level.

## Describing the contrast in HCs

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.
- Descriptively, (8a) and #(8b) only differ in:
    - (i) the placement of overt negation: having it in the antecedent causes #.
    - (ii) how antecedents and consequents are ordered in terms of specificity: **fine-to-coarse** progressions are #.
  - To capture HCs, Kalomirois (2024)'s SUPER REDUNDANCY constraint exploited (i); I exploit (ii).
  - This will make way for a more intuitive account, recycling a familiar concept (RELEVANCE) at the subsentential level.

## Describing the contrast in HCs

---

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.
- Descriptively, (8a) and #(8b) only differ in:
  - (i) the placement of **overt negation**: having it in the antecedent causes #.
  - (ii) how antecedents and consequents are **ordered in terms of specificity**: **fine-to-coarse** progressions are #.
- To capture HCs, Kalomirois (2024)'s **SUPER REDUNDANCY** constraint exploited (i); I exploit (ii).
- This will make way for a more intuitive account, recycling a familiar concept (**RELEVANCE**) at the subsentential level.

## Describing the contrast in HCs

- (8) a. If Jo studied in France, she did not study in Paris.
- b. # If Jo did not study in Paris, she studied in France.
- Descriptively, (8a) and #(8b) only differ in:
  - (i) the placement of **overt negation**: having it in the antecedent causes #.
  - (ii) how antecedents and consequents are **ordered in terms of specificity**: fine-to-coarse progressions are #.
- To capture HCs, Kalomirov (2024)'s SUPER REDUNDANCY constraint exploited (i); I exploit (ii).
- This will make way for a more intuitive account, recycling a familiar concept (RELEVANCE) at the subsentential level.

## Describing the contrast in HCs

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.
- Descriptively, (8a) and #(8b) only differ in:
  - (i) the placement of **overt negation**: having it in the antecedent causes #.
  - (ii) how antecedents and consequents are **ordered in terms of specificity**: **fine-to-coarse** progressions are #.
- To capture HCs, Kalomirois (2024)'s SUPER REDUNDANCY constraint exploited (i); I exploit (ii).
- This will make way for a more intuitive account, recycling a familiar concept (RELEVANCE) at the subsentential level.

# An account based on specificity: core intuition

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.

- (8a) talks about cities, in the **France**-domain defined by the antecedent. This domain fully rules out some cities, and rules in others. Nice cut!

France			
Paris	Lyon	...	Rome

- (8b) talks about countries, in the *not Paris*-domain defined by the antecedent. This domain does not fully rule out any country – it only partially affects **France**. Bad cut!

not Paris		
France	Italy	...

not Paris	
France	not France

# An account based on specificity: core intuition

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.

- (8a) talks about cities, in the **France**-domain defined by the antecedent. This domain fully rules out some cities, and rules in others. **Nice cut!**

France			
Paris	Lyon	...	Rome

- (8b) talks about countries, in the *not Paris*-domain defined by the antecedent. This domain does not fully rule out any country – it only partially affects **France**. **Bad cut!**

not Paris		
France	Italy	...

not Paris	
France	not France

# An account based on specificity: core intuition

- (8) a. If Jo studied in **France**, she did **not** study in **Paris**.  
b. # If Jo did **not** study in **Paris**, she studied in **France**.

- (8a) talks about cities, in the **France**-domain defined by the antecedent. This domain fully rules out some cities, and rules in others. **Nice cut!**

France			
Paris	Lyon	...	Rome

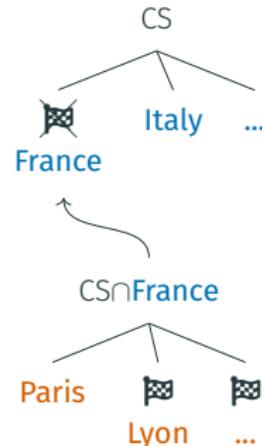
- (8b) talks about countries, in the *not Paris*-domain defined by the antecedent. This domain does not fully rule out any country – it only partially affects **France**. **Bad cut!**

not Paris		
France	Italy	...

not Paris		
France	not France	

# INCREMENTAL Q-RELEVANCE

- In the current framework, conditionals “plug” a tree evoked by the consequent into the flagged leaves of the antecedent’s tree.
- This operation intersects all nodes of the consequent’s tree, with the leaf it gets plugged into.
- Intersection must be RELEVANT:
  - A leaf of the consequent’s tree must be fully retained;<sup>18</sup>
  - A leaf of the consequent’s tree must be fully excluded.<sup>19</sup>



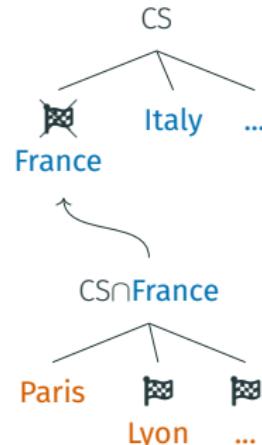
**Fig. 16:** A tree for *If Jo studied in France, she did not study in Paris.*

<sup>18</sup> Draws from Lewis (1988)’s and Križ and Spector (2020)’s RELEVANCE

<sup>19</sup> Draws from Roberts (2012)’s RELEVANCE

# INCREMENTAL Q-RELEVANCE

- In the current framework, conditionals “plug” a tree evoked by the consequent into the flagged leaves of the antecedent’s tree.
- This operation **intersects** all nodes of the consequent’s tree, with the leaf it gets plugged into.
- Intersection must be **RELEVANT**:
  - A leaf of the consequent’s tree must be **fully retained**:<sup>18</sup>
  - A leaf of the consequent’s tree must be **fully excluded**.<sup>19</sup>



**Fig. 16:** A tree for *If Jo studied in France, she did not study in Paris.*

<sup>18</sup> Draws from Lewis (1988)’s and Križ and Spector (2020)’s RELEVANCE

<sup>19</sup> Draws from Roberts (2012)’s RELEVANCE

# INCREMENTAL Q-RELEVANCE

- In the current framework, conditionals “plug” a tree evoked by the consequent into the flagged leaves of the antecedent’s tree.
- This operation **intersects** all nodes of the consequent’s tree, with the leaf it gets plugged into.
- Intersection must be **RELEVANT**:
  - A leaf of the consequent’s tree must be fully retained;<sup>18</sup>
  - A leaf of the consequent’s tree must be fully excluded.<sup>19</sup>

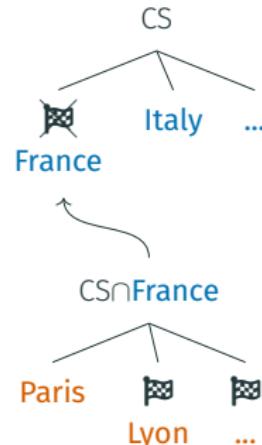


Fig. 16: A tree for *If Jo studied in France, she did not study in Paris.*

<sup>18</sup> Draws from Lewis (1988)’s and Križ and Spector (2020)’s RELEVANCE

<sup>19</sup> Draws from Roberts (2012)’s RELEVANCE

# INCREMENTAL Q-RELEVANCE

- In the current framework, conditionals “plug” a tree evoked by the consequent into the flagged leaves of the antecedent’s tree.
- This operation **intersects** all nodes of the consequent’s tree, with the leaf it gets plugged into.
- Intersection must be **RELEVANT**:
  - A leaf of the consequent’s tree must be **fully retained**;<sup>18</sup>
  - A leaf of the consequent’s tree must be **fully excluded**.<sup>19</sup>

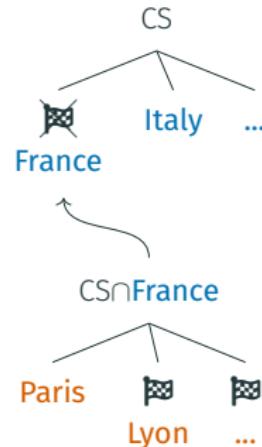


Fig. 16: A tree for *If Jo studied in France, she did not study in Paris.*

<sup>18</sup> Draws from Lewis (1988)’s and Križ and Spector (2020)’s RELEVANCE

<sup>19</sup> Draws from Roberts (2012)’s RELEVANCE

# INCREMENTAL Q-RELEVANCE

- In the current framework, conditionals “plug” a tree evoked by the consequent into the flagged leaves of the antecedent’s tree.
- This operation **intersects** all nodes of the consequent’s tree, with the leaf it gets plugged into.
- Intersection must be **RELEVANT**:
  - A leaf of the consequent’s tree must be **fully retained**;<sup>18</sup>
  - A leaf of the consequent’s tree must be **fully excluded**.<sup>19</sup>

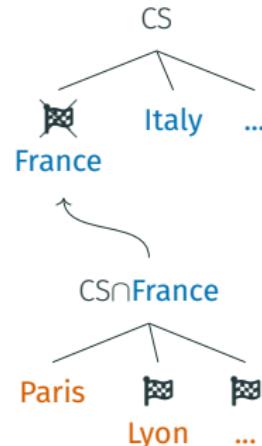


Fig. 16: A tree for *If Jo studied in France, she did not study in Paris.*

<sup>19</sup> Draws from Lewis (1988)’s and Križ and Spector (2020)’s RELEVANCE

<sup>19</sup> Draws from Roberts (2012)’s RELEVANCE

# Capturing felicitous HCs

(8a) If Jo studied in **France**, she did **not** study in **Paris**.

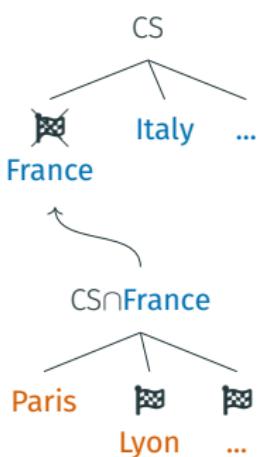


Fig. 17: A tree for *If Jo studied in France, she did not study in Paris.*

- A city-level tree gets plugged into a **France**-leaf.
- The leaves that remains are all French cities; this satisfies INCREMENTAL Q-RELEVANCE:
  - An original leaf, e.g. **Paris**, is fully retained;
  - An original leaf e.g. **Rome**, is fully excluded.
- (8a) is correctly predicted to be good.<sup>1</sup>

---

<sup>1</sup>It can be shown that Q-REDUNDANCY doesn't get in the way.

# Capturing felicitous HCs

(8a) If Jo studied in **France**, she did **not** study in **Paris**.

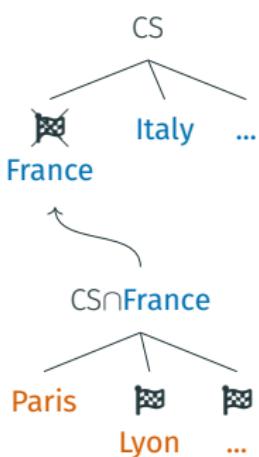


Fig. 17: A tree for *If Jo studied in **France**, she did **not** study in **Paris**.*

- A city-level tree gets plugged into a **France**-leaf.
- The leaves that remains are all French cities; this satisfies INCREMENTAL Q-RELEVANCE:
  - An original leaf, e.g. **Paris**, is fully retained;
  - An original leaf e.g. **Rome**, is fully excluded.
- (8a) is correctly predicted to be good.<sup>1</sup>

---

<sup>1</sup>It can be shown that Q-REDUNDANCY doesn't get in the way.

# Capturing felicitous HCs

(8a) If Jo studied in **France**, she did **not** study in **Paris**.

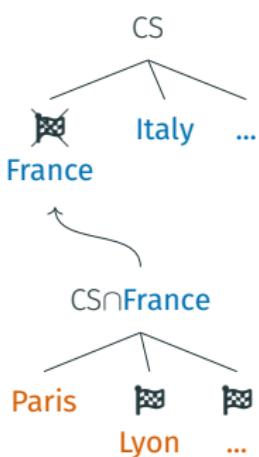


Fig. 17: A tree for *If Jo studied in **France**, she did **not** study in **Paris**.*

- A city-level tree gets plugged into a **France**-leaf.
- The leaves that remains are all French cities; this satisfies INCREMENTAL Q-RELEVANCE:
  - An original leaf, e.g. **Paris**, is **fully retained**;
  - An original leaf e.g. **Rome**, is **fully excluded**.
- (8a) is correctly predicted to be good.<sup>1</sup>

---

<sup>1</sup>It can be shown that Q-REDUNDANCY doesn't get in the way.

# Capturing felicitous HCs

(8a) If Jo studied in **France**, she did **not** study in **Paris**.

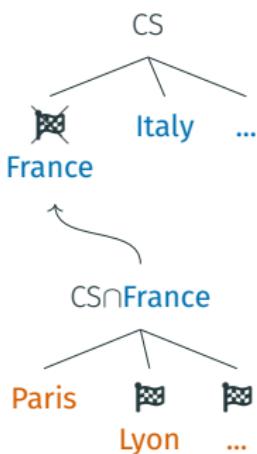


Fig. 17: A tree for *If Jo studied in **France**, she did **not** study in **Paris***.

- A city-level tree gets plugged into a **France**-leaf.
- The leaves that remains are all French cities; this satisfies INCREMENTAL Q-RELEVANCE:
  - An original leaf, e.g. **Paris**, is **fully retained**;
  - An original leaf e.g. **Rome**, is **fully excluded**.
- (8a) is correctly predicted to be good.<sup>1</sup>

---

<sup>1</sup>It can be shown that Q-REDUNDANCY doesn't get in the way.

# Capturing felicitous HCs

(8a) If Jo studied in **France**, she did **not** study in **Paris**.

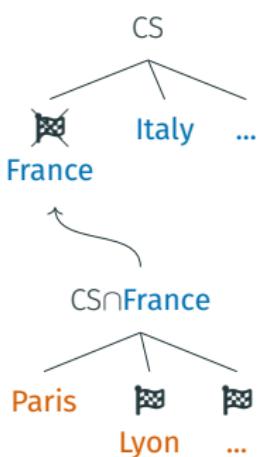


Fig. 17: A tree for *If Jo studied in **France**, she did **not** study in **Paris**.*

- A city-level tree gets plugged into a **France**-leaf.
- The leaves that remains are all French cities; this satisfies INCREMENTAL Q-RELEVANCE:
  - An original leaf, e.g. **Paris**, is **fully retained**;
  - An original leaf e.g. **Rome**, is **fully excluded**.
- (8a) is correctly predicted to be good.<sup>1</sup>

---

<sup>1</sup>It can be shown that Q-REDUNDANCY doesn't get in the way.

# Capturing odd HCs: case 1

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

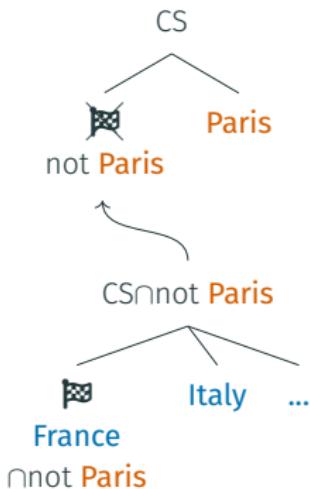


Fig. 18: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all countries, but **France** is intersected with *not Paris*.
- This violates INCREMENTAL Q-RELEVANCE, because none of the original leaves is fully excluded.
- What if we consider a by-city, “wh” tree for the antecedent instead?

# Capturing odd HCs: case 1

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

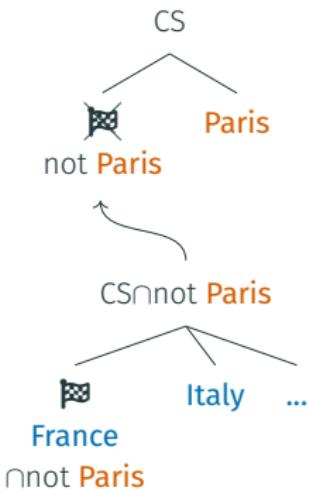


Fig. 18: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all countries, but **France** is intersected with *not Paris*.
- This violates INCREMENTAL Q-RELEVANCE, because none of the original leaves is fully excluded.
- What if we consider a by-city, “wh” tree for the antecedent instead?

# Capturing odd HCs: case 1

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

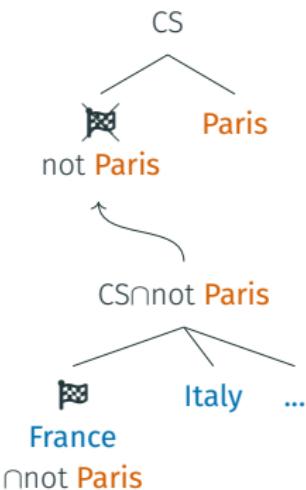


Fig. 18: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all countries, but **France** is intersected with *not Paris*.
- This violates INCREMENTAL Q-RELEVANCE, because none of the original leaves is fully excluded.
- What if we consider a by-city, “wh” tree for the antecedent instead?

# Capturing odd HCs: case 1

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

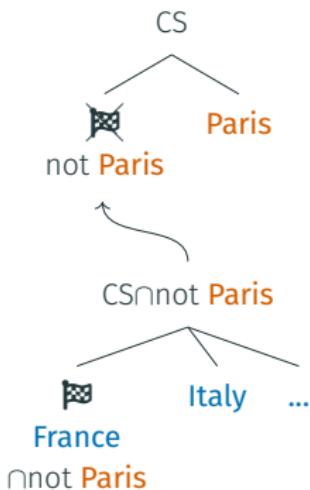


Fig. 18: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all countries, but **France** is intersected with *not Paris*.
- This violates INCREMENTAL Q-RELEVANCE, because none of the original leaves is **fully excluded**.
- What if we consider a by-city, “wh” tree for the antecedent instead?

# Capturing odd HCs: case 1

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

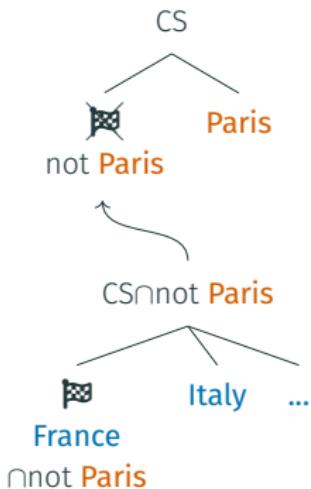


Fig. 18: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all countries, but **France** is intersected with *not Paris*.
- This violates INCREMENTAL Q-RELEVANCE, because none of the original leaves is **fully excluded**.
- What if we consider a by-city, “wh” tree for the antecedent instead?

## Capturing odd HCs: case 2

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

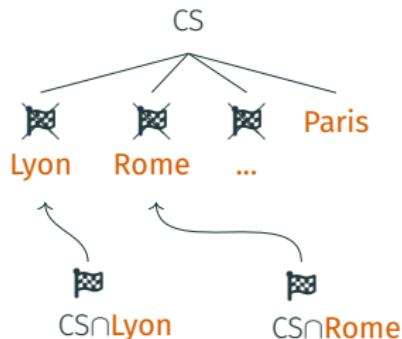


Fig. 19: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all smaller than countries – in fact they get shrunk into city-leaves.
- This violates INCREMENTAL Q-RELEVANCE, because no original leaf is fully retained.
- In sum (8b) is correctly predicted to be odd.<sup>1</sup>

<sup>1</sup>Considering “wh” trees for *not Paris* and/or polar trees for **France**, gets us back into Case 1 (previous slide) or Case 2 (this slide).

## Capturing odd HCs: case 2

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

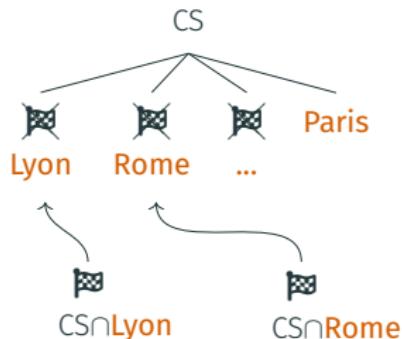


Fig. 19: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all smaller than countries – in fact they get shrunk into city-leaves.
- This violates INCREMENTAL Q-RELEVANCE, because no original leaf is fully retained.
- In sum (8b) is correctly predicted to be odd.<sup>1</sup>

<sup>1</sup>Considering “wh” trees for *not Paris* and/or polar trees for **France**, gets us back into Case 1 (previous slide) or Case 2 (this slide).

## Capturing odd HCs: case 2

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

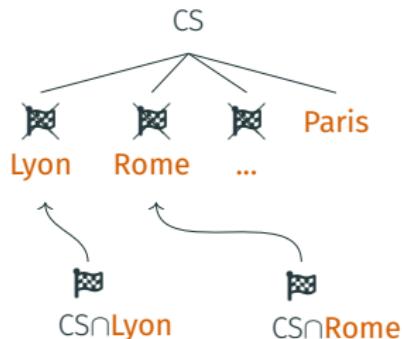


Fig. 19: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all smaller than countries – in fact they get shrunk into city-leaves.
- This violates INCREMENTAL Q-RELEVANCE, because no original leaf is fully retained.
- In sum (8b) is correctly predicted to be odd.<sup>1</sup>

<sup>1</sup>Considering “wh” trees for *not Paris* and/or polar trees for *France*, gets us back into Case 1 (previous slide) or Case 2 (this slide).

## Capturing odd HCs: case 2

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

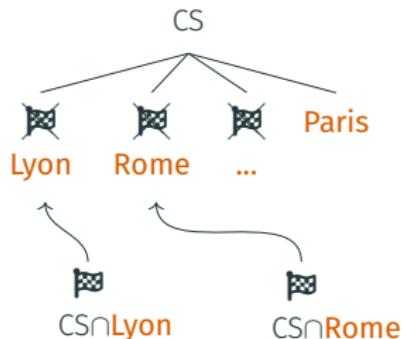


Fig. 19: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all smaller than countries – in fact they get shrunk into city-leaves.
- This violates INCREMENTAL Q-RELEVANCE, because no original leaf is **fully retained**.
- In sum (8b) is correctly predicted to be odd.<sup>1</sup>

<sup>1</sup>Considering “wh” trees for *not Paris* and/or polar trees for *France*, gets us back into Case 1 (previous slide) or Case 2 (this slide).

## Capturing odd HCs: case 2

(8b) If Jo did **not** study in **Paris**, she studied in **France**.

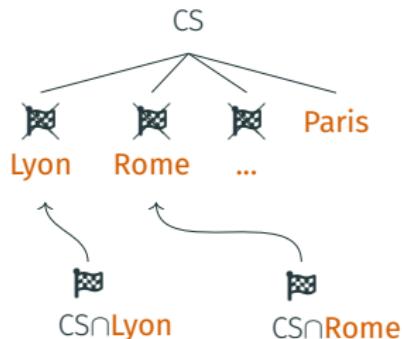


Fig. 19: A tree for *If Jo did not study in Paris, she studied in France.*

- A country-level tree gets plugged into a *not Paris*-leaf.
- The leaves that remains are all smaller than countries – in fact they get shrunk into city-leaves.
- This violates INCREMENTAL Q-RELEVANCE, because no original leaf is **fully retained**.
- In sum (8b) is correctly predicted to be odd.<sup>1</sup>

---

<sup>1</sup>Considering “wh” trees for *not Paris* and/or polar trees for **France**, gets us back into Case 1 (previous slide) or Case 2 (this slide).

## Additional remarks about INCREMENTAL Q-RELEVANCE

- INCREMENTAL Q-RELEVANCE imposes that some, but not all distinctions introduced by the question being restricted, are retained; domain restrictions must be **faithful to the specificity** of the original question, but also **relevantly informative**.
- Antecedents (i.e. restrictors) that are too specific will not allow the leaves of the consequent to properly “fit” in the domain(s) they define.
- The “incremental” character of the constraint **piggybacks on the asymmetric definition assigned to conditional question-trees**: the roles of the antecedent and consequent are asymmetric, and so are violations of INCREMENTAL Q-RELEVANCE.

## Additional remarks about INCREMENTAL Q-RELEVANCE

---

- INCREMENTAL Q-RELEVANCE imposes that some, but not all distinctions introduced by the question being restricted, are retained; domain restrictions must be **faithful to the specificity** of the original question, but also **relevantly informative**.
- Antecedents (i.e. restrictors) that are too specific will not allow the leaves of the consequent to properly “fit” in the domain(s) they define.
- The “incremental” character of the constraint **piggybacks on the asymmetric definition assigned to conditional question-trees**: the roles of the antecedent and consequent are asymmetric, and so are violations of INCREMENTAL Q-RELEVANCE.

## Additional remarks about INCREMENTAL Q-RELEVANCE

- INCREMENTAL Q-RELEVANCE imposes that some, but not all distinctions introduced by the question being restricted, are retained; domain restrictions must be **faithful to the specificity** of the original question, but also **relevantly informative**.
- Antecedents (i.e. restrictors) that are too specific will not allow the leaves of the consequent to properly “fit” in the domain(s) they define.
- The “incremental” character of the constraint **piggybacks on the asymmetric definition assigned to conditional question-trees**: the roles of the antecedent and consequent are asymmetric, and so are violations of INCREMENTAL Q-RELEVANCE.

## Further teasing apart specificity vs. overt negation

- INCREMENTAL Q-RELEVANCE ends up capturing subtle asymmetries in “compatible” variants of HCs, whose oddness seems **more specificity-sensitive (in a weaker sense)** than negation-sensitive.

- (16) a. # If Jo did **not** study in **the Basque country**, she studied in **France**.
- b. ? If Jo did **not** study in **France**, she studied in **the Basque country**.
- c. # If Jo studied in **the Basque country**, he did **not** study in **France**.
- d. If Jo studied in **France**, she did **not** study in **the Basque country**.

- This further supports the current view, against Kalomoiros (2024)'s earlier view of HCs.

## Further teasing apart specificity vs. overt negation

- INCREMENTAL Q-RELEVANCE ends up capturing subtle asymmetries in “compatible” variants of HCs, whose oddness seems **more specificity-sensitive (in a weaker sense)** than negation-sensitive.

- (16) a. # If Jo did **not** study in **the Basque country**, she studied in **France**.
- b. ? If Jo did **not** study in **France**, she studied in **the Basque country**.
- c. # If Jo studied in **the Basque country**, he did **not** study in **France**.
- d. If Jo studied in **France**, she did **not** study in **the Basque country**.

- This further supports the current view, against Kalomoiras (2024)'s earlier view of HCs.

## Conclusion and outlook

---

## Where we are

- I sketched a compositional model of implicit questions, and of their degree of specificity.
- This in and of itself appears to be needed to reflect deep intuitions about the dynamics of conversation.
- Existing concepts (questions-as-partitions, REDUNDANCY, RELEVANCE) were minimally “lifted”:
  - Partitions were made recursive in the form of question-trees;
  - Pragmatic constraints were rephrased to apply to sentences and their implicit trees.
- From this framework, I derived oddness contrasts between sentences that approaches solely based on LFs and propositional meanings were not powerful enough to capture.<sup>20</sup>

---

<sup>20</sup>At the very least without under-the-hood assumptions.

## Where we are

- I sketched a compositional model of implicit questions, and of their degree of specificity.
- This in and of itself appears to be needed to reflect deep intuitions about the dynamics of conversation.
- Existing concepts (questions-as-partitions, REDUNDANCY, RELEVANCE) were minimally “lifted”:
  - Partitions were made recursive in the form of question-trees;
  - Pragmatic constraints were rephrased to apply to sentences and their implicit trees.
- From this framework, I derived oddness contrasts between sentences that approaches solely based on LFs and propositional meanings were not powerful enough to capture.<sup>20</sup>

---

<sup>20</sup>At the very least without under-the-hood assumptions.

## Where we are

- I sketched a compositional model of implicit questions, and of their degree of specificity.
- This in and of itself appears to be needed to reflect deep intuitions about the dynamics of conversation.
- Existing concepts (questions-as-partitions, REDUNDANCY, RELEVANCE) were **minimally “lifted”**:
  - Partitions were made recursive in the form of question-trees;
  - Pragmatic constraints were rephrased to apply to sentences and their implicit trees.
- From this framework, I derived oddness contrasts between sentences that approaches solely based on LFs and propositional meanings were not powerful enough to capture.<sup>20</sup>

---

<sup>20</sup>At the very least without under-the-hood assumptions.

## Where we are

- I sketched a compositional model of implicit questions, and of their degree of specificity.
- This in and of itself appears to be needed to reflect deep intuitions about the dynamics of conversation.
- Existing concepts (questions-as-partitions, REDUNDANCY, RELEVANCE) were **minimally “lifted”**:
  - Partitions were made **recursive** in the form of question-trees;
  - Pragmatic constraints were rephrased to apply to sentences and their implicit trees.
- From this framework, I derived **oddness contrasts** between sentences that approaches solely based on LFs and propositional meanings were not powerful enough to capture.<sup>20</sup>

---

<sup>20</sup>At the very least without under-the-hood assumptions.

## Where we are

- I sketched a compositional model of implicit questions, and of their degree of specificity.
- This in and of itself appears to be needed to reflect deep intuitions about the dynamics of conversation.
- Existing concepts (questions-as-partitions, REDUNDANCY, RELEVANCE) were **minimally “lifted”**:
  - Partitions were made **recursive** in the form of question-trees;
  - Pragmatic constraints were rephrased to apply to sentences **and their implicit trees**.
- From this framework, I derived oddness contrasts between sentences that approaches solely based on LFs and propositional meanings were not powerful enough to capture.<sup>20</sup>

---

<sup>20</sup>At the very least without under-the-hood assumptions.

## Where we are

- I sketched a compositional model of implicit questions, and of their degree of specificity.
- This in and of itself appears to be needed to reflect deep intuitions about the dynamics of conversation.
- Existing concepts (questions-as-partitions, REDUNDANCY, RELEVANCE) were **minimally “lifted”**:
  - Partitions were made **recursive** in the form of question-trees;
  - Pragmatic constraints were rephrased to apply to sentences **and their implicit trees**.
- From this framework, I derived **oddness contrasts between sentences that approaches solely based on LFs and propositional meanings were not powerful enough to capture.**<sup>20</sup>

---

<sup>20</sup>At the very least without under-the-hood assumptions.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - Repair operators which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive overtness asymmetries between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in conjunctions;<sup>23</sup>
  - Presupposition projection, in relation to implicit questions,<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - Repair operators which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive overtness asymmetries between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in conjunctions;<sup>23</sup>
  - Presupposition projection, in relation to implicit questions,<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive overtness asymmetries between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in conjunctions;<sup>23</sup>
  - Presupposition projection, in relation to implicit questions,<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive **overtness asymmetries** between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in conjunctions;<sup>23</sup>
  - Presupposition projection, in relation to implicit questions,<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive **overtness asymmetries** between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in conjunctions;<sup>23</sup>
  - Presupposition projection, in relation to implicit questions;<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive **overtness asymmetries** between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in **conjunctions**;<sup>23</sup>
  - Presupposition projection, in relation to implicit questions;<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive **overtness asymmetries** between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in **conjunctions**;<sup>23</sup>
  - Presupposition **projection**, in relation to implicit questions;<sup>24</sup>
  - Explicit questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive **overtness asymmetries** between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in **conjunctions**;<sup>23</sup>
  - Presupposition **projection**, in relation to implicit questions;<sup>24</sup>
  - **Explicit** questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - Quantifications (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

# Future directions

- Beyond the cases discussed here, the framework interacts with embedded implicatures, and the overt exhaustifier *only* in interesting ways.
- Ongoing work on:
  - **Repair operators** which seem to target implicit question-trees: *only, but, at least*.<sup>21</sup>
  - How implicit question may drive **overtness asymmetries** between competing operators.<sup>22</sup>
- To be further explored/fleshed out:
  - Oddness in **conjunctions**;<sup>23</sup>
  - Presupposition **projection**, in relation to implicit questions;<sup>24</sup>
  - **Explicit** questions (their own implicit import; how they shape oddness<sup>25</sup>);
  - **Quantifications** (especially modals re:Free Choice<sup>26</sup>).

---

<sup>16</sup>Hénot-Mortier, 2025a, 2025c

<sup>17</sup>Hénot-Mortier, 2025b

<sup>18</sup>Haslinger, 2024

---

<sup>19</sup>Doron and Wehbe, 2024

<sup>20</sup>Haslinger, 2023

<sup>21</sup>Kaufmann, 2016, i.a.

Thank you!

## Selected references i

-  Strawson, P. F. (1950). **On referring.** *Mind*, 59(235), 320–344. Retrieved November 19, 2025, from <http://www.jstor.org/stable/2251176>
-  Hamblin, C. L. (1973). **Questions in montague english.** *Foundations of Language*, 10(1), 41–53.
-  Hurford, J. R. (1974). **Exclusive or Inclusive Disjunction.** *Foundations of Language*, 11(3), 409–411.
-  Stalnaker, R. (1974). **Pragmatic Presuppositions.** In M. K. Munitz & P. K. Unger (Eds.), *Semantics and Philosophy* (pp. 197–213). New York University Press.
-  Grice, H. P. (1975). **Logic and conversation.** In D. Davidson (Ed.), *The logic of grammar* (pp. 64–75). Dickenson Pub. Co.
-  Lewis, D. (1975). **Adverbs of quantification.** In E. L. Keenan (Ed.), *Formal semantics of natural language: Papers from a colloquium sponsored by the king's college research centre, cambridge* (pp. 3–15). Cambridge University Press.
-  Karttunen, L. (1977). **Syntax and Semantics of Questions.** *Linguistics and Philosophy*, 1(1), 3–44. <https://doi.org/10.1007/bf00351935>
-  Stalnaker, R. (1978). **Assertion.** *Syntax and Semantics* (New York Academic Press), 9, 315–332.

## Selected references ii

-  Heim, I. (1982). *The semantics of definite and indefinite noun phrases* [Doctoral dissertation, UMass Amherst].
-  Heim, I. (1983a, December). File change semantics and the familiarity theory of definiteness. In *Meaning, use, and interpretation of language* (pp. 164–189). DE GRUYTER. <https://doi.org/10.1515/9783110852820.164>
-  Heim, I. (1983b). On the projection problem for presuppositions. In M. Barlow, D. P. Flickinger, & M. T. Wescoat (Eds.), *Proceedings of the second west coast conference on formal linguistics* (pp. 114–126). Stanford University Department of Linguistics.
-  Groenendijk, J., & Stokhof, M. (1984). *Studies in the semantics of questions and the pragmatics of answers* [Doctoral dissertation, University of Amsterdam] [(Unpublished doctoral dissertation)].
-  Horn, L. (1984). Toward a new taxonomy for pragmatic inference: Q-based and r-based implicature. In D. Schiffrin (Ed.), *Meaning, form, and use in context: Linguistic applications* (pp. 11–42). Georgetown University Press.
-  Carlson, L. W. (1985). *Dialogue games: An approach to discourse analysis*. Kluwer Academic Publishers.
-  Rooth, M. (1985). *Association with focus* [Doctoral dissertation].

## Selected references iii

-  Kratzer, A. (1986). **Conditionals**. *Chicago Linguistic Society (CLS)*, 22(2), 1–15.
-  Lewis, D. (1988). **Relevant Implication**. *Theoria*, 54(3), 161–174.  
<https://doi.org/10.1111/j.1755-2567.1988.tb00716.x>
-  von Stutterheim, C., & Klein, W. (1989). **Referential movement in descriptive and narrative discourse**. In R. Dietrich & C. F. Graumann (Eds.), *Language processing in social context* (pp. 39–76, Vol. 54). Elsevier.  
<https://doi.org/https://doi.org/10.1016/B978-0-444-87144-2.50005-7>
-  Heim, I. (1991). **Artikel und Definitheit**. In A. Von Stechow & D. Wunderlich (Eds.), *Semantics: An international handbook of contemporary research* (pp. 487–535). Mouton de Gruyter.
-  Kratzer, A. (1991). **Modality**. In A. von Stechow & D. Wunderlich (Eds.), *Handbuch semantik* (pp. 639–50).
-  Rooth, M. (1992). **A theory of focus interpretation**. *Natural Language Semantics*, 1(1), 75–116. <https://doi.org/10.1007/bf02342617>
-  Kuprevich, J. V. (1995). **Discourse structure, topicality and questioning**. *Journal of Linguistics*, 31(1), 109–147. <https://doi.org/10.1017/S00222670000058X>

## Selected references iv

-  van Kuppevelt, J. (1995). **Main structure and side structure in discourse.** *Linguistics*, 33(4), 809–833. <https://doi.org/10.1515/ling.1995.33.4.809>
-  Ginzburg, J. (1996). **Dynamics and semantics of dialogue.** In J. Seligman & D. Westerståhl (Eds.), *Language, logic and communication*. CSLI.
-  Roberts, C. (1996). **Information Structure in Discourse: Towards an Integrated Formal Theory of Pragmatics.** *Semantics and Pragmatics*, 5, 1–69.
-  Simons, M. (2001). **Disjunction and Alternativeness.** *Linguistics and Philosophy*, 24(5), 597–619. <https://doi.org/10.1023/a:1017597811833>
-  Büring, D. (2003). **On D-Trees, Beans, and B-Accents.** *Linguistics and Philosophy*, 26(5), 511–545. <https://doi.org/10.1023/a:1025887707652>
-  Katzir, R. (2007). **Structurally-defined alternatives.** *Linguistics and Philosophy*, 30(6), 669–690. <https://doi.org/10.1007/s10988-008-9029-y>
-  Singh, R. (2008). **On the interpretation of disjunction: Asymmetric, incremental, and eager for inconsistency.** *Linguistics and Philosophy*, 31(2), 245–260. <https://doi.org/10.1007/s10988-008-9038-x>
-  Ginzburg, J. (2012). **The interactive stance.** Oxford University Press.

## Selected references v

-  Roberts, C. (2012). **Information structure in discourse: Towards an integrated formal theory of pragmatics.** *Semantics and Pragmatics*, 5.  
<https://doi.org/10.3765/sp.5.6>
-  Meyer, M.-C. (2013). *Ignorance and grammar* [Doctoral dissertation, Massachusetts Institute of Technology].
-  Katzir, R., & Singh, R. (2014). **Hurford disjunctions: Embedded exhaustification and structural economy.** *Proceedings of Sinn und Bedeutung*, 18, 201–216.  
<https://ojs.ub.uni-konstanz.de/sub/index.php/sub/article/view/313>
-  Katzir, R., & Singh, R. (2015). **Economy of structure and information: Oddness, questions, and answers.** *Proceedings of Sinn und Bedeutung*, 19, 322–339.  
<https://doi.org/10.18148/sub/2015.v19i0.236>
-  Kaufmann, M. (2016). **Free Choice is a Form of Dependence.** *Natural Language Semantics*, 24(3), 247–290. <https://doi.org/10.1007/s11050-016-9125-4>
-  Mayr, C., & Romoli, J. (2016). **A puzzle for theories of redundancy: Exhaustification, incrementality, and the notion of local context.** *Semantics and Pragmatics*, 9(7), 1–48. <https://doi.org/10.3765/sp.9.7>
-  Onea, E. (2016, February). **Potential Questions at the Semantics-Pragmatics Interface.** BRILL. <https://doi.org/10.1163/9789004217935>

## Selected references vi

-  Fox, D. (2018). **Partition by exhaustification: Comments on dayal 1996.** *ZAS Papers in Linguistics*, 60, 403–434. <https://doi.org/10.21248/zaspil.60.2018.474>
-  Mandelkern, M., & Romoli, J. (2018). **Hurford Conditionals.** *Journal of Semantics*, 35(2), 357–367. <https://doi.org/10.1093/jos/ffx022>
-  Ippolito, M. (2019). **Varieties of sobel sequences.** *Linguistics and Philosophy*, 43(6), 633–671. <https://doi.org/10.1007/s10988-019-09281-8>
-  Riester, A. (2019, March). **Constructing QUD Trees.** In *Questions in Discourse* (pp. 164–193). BRILL. [https://doi.org/10.1163/9789004378322\\_007](https://doi.org/10.1163/9789004378322_007)
-  Križ, M., & Spector, B. (2020). **Interpreting plural predication: Homogeneity and non-maximality.** *Linguistics and Philosophy*, 44(5), 1131–1178. <https://doi.org/10.1007/s10988-020-09311-w>
-  Westera, M. (2020). **Hurford disjunctions: An in-depth comparison of the grammatical and the pragmatic approach.** *Under review*.
-  Marty, P., & Romoli, J. (2022). **Varieties of Hurford disjunctions.** *Semantics and Pragmatics*, 15(3), 1–25. <https://doi.org/10.3765/sp.15.3>
-  Zhang, Y. (2022). **New perspectives on inquisitive semantics** [Doctoral dissertation, University of Maryland].

## Selected references vii

-  Haslinger, N. (2023). *Pragmatic constraints on imprecision and homogeneity* [Doctoral dissertation, Georg-August-Universität Göttingen].
-  Doron, O., & Wehbe, J. (2024). On the pragmatic status of locally accommodated presuppositions.
-  Haslinger, N. (2024). Context and linear order in redundant coordinations [Invited talk, BerlinBrnoVienna student workshop, Masaryk University in Brno].
-  Kalomoiros, A. (2024). An approach to Hurford Conditionals. *Semantics and Linguistic Theory*, 724–743. <https://doi.org/10.3765/68bn3095>
-  Hénot-Mortier, A. (2025a). Complementarity over competition in grammatical exhaustification. *Semantics and Linguistic Theory*.
-  Hénot-Mortier, A. (2025b). Covert operators are picked to minimize qud-ambiguity: The view from *pex* and *only*. *Sinn un Bedeutung* 30.
-  Hénot-Mortier, A. (2025c). Repairing bad questions makes for good sentences: The case of **but** and **at least**. *Proceedings of the 61st Annual meeting of the Chicago Linguistic Society*.