Projection and QUD

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Introduction

Central information

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Discussion

 Goal of the talk: discuss the relationship between projection and relevance to the *Question Under Discussion* (QUD) (Roberts 2012 < 1998 < 1996, Ginzburg 2012).

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- Goal of the talk: discuss the relationship between projection and relevance to the *Question Under Discussion* (QUD) (Roberts 2012 < 1998 < 1996, Ginzburg 2012).
- Projection: the fact that a piece of information is unaffected by truth-suspension or cancellation operators.

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- Goal of the talk: discuss the relationship between projection and relevance to the *Question Under Discussion* (QUD) (Roberts 2012 < 1998 < 1996, Ginzburg 2012).
- Projection: the fact that a piece of information is unaffected by truth-suspension or cancellation operators.
- a. Eloise realized that deep learning is fun.
 → Deep learning is fun
 - b. Eloise didn't realize that deep learning is fun.
 → Deep learning is fun

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- Projection: the fact that a piece of information is unaffected by truth-suspension or cancellation operators.
- a. Eloise realized that deep learning is fun.
 → Deep learning is fun
 - b. Eloise didn't realize that deep learning is fun. → Deep learning is fun
 - Relevance to the QUD: roughly, the fact that a conversational move is related to (one of the) current discourse topic(s).

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 Relevance to the QUD may be ambiguous since the intended QUD may not be shared.

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- Relevance to the QUD may be ambiguous since the intended QUD may not be shared.
- (2) A I never find time for housework. We live in a real mess with my husband !
 - B Oh, I didn't know you are married !
 - A Well, I am.
 - B And your husband?
 - A Well, he's married too. ©

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 - ► A's answer at ☺

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 - 1. Naïve reaction: QUD = is your husband married?

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 - ► A's answer at ☺
 - 1. Naïve reaction: QUD = is your husband married?
 - 2. Non-naïve reaction: QUD = why doesn't your husband do the cleaning?

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 - ► A's answer at ☺
 - 1. Naïve reaction: QUD = is your husband married?
 - 2. Non-naïve reaction: QUD = why doesn't your husband do the cleaning?
 - 2.1 Because married men don't like housework.

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 - B And your husband?
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 - ► A's answer at ☺
 - 1. Naïve reaction: QUD = is your husband married?
 - 2. Non-naïve reaction: QUD = why doesn't your husband do the cleaning?
 - 2.1 Because married men don't like housework.
 - 2.2 Because each member of a couple counts on the other for housework.

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 Apparent variability/indeterminacy/vagueness of the QUD → pragmatic approaches.

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Discussion

- Apparent variability/indeterminacy/vagueness of the QUD → pragmatic approaches.
- The context helps identify the QUD.

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- Apparent variability/indeterminacy/vagueness of the QUD → pragmatic approaches.
- The context helps identify the QUD.
- The QUD helps assess relevance.

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Discussion

- Apparent variability/indeterminacy/vagueness of the QUD → pragmatic approaches.
- The context helps identify the QUD.
- The QUD helps assess relevance.
- The complication of *layered* information.

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Discussion

- Apparent variability/indeterminacy/vagueness of the QUD → pragmatic approaches.
- The context helps identify the QUD.
- The QUD helps assess relevance.
- The complication of *layered* information.
- Frege, Grice, Potts and many others: truth-conditional content vs. the rest (implicatures and presuppositions). See Karttunen (2016) for an historical reminder.

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Discussion

- ▶ Apparent variability/indeterminacy/vagueness of the QUD ~→ pragmatic approaches.
- The context helps identify the QUD.
- The QUD helps assess relevance.
- The complication of *layered* information.
- Frege, Grice, Potts and many others: truth-conditional content vs. the rest (implicatures and presuppositions). See Karttunen (2016) for an historical reminder.
- (3) Unfortunately, my stupid colleague didn't even realize that deep learning is fun.

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▶ Is there any relation between layering and QUD?

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Discussion

- ► Is there any relation between layering and QUD?
- Yes! An intuition dating back to Ducrot (1972, pp. 80-90) (for presuppositions) and Grice (1989, p. 362) (for discourse markers).

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- ▶ Is there any relation between layering and QUD?
- Yes! An intuition dating back to Ducrot (1972, pp. 80-90) (for presuppositions) and Grice (1989, p. 362) (for discourse markers).
- 'Secondary' or 'peripheral' information (= non truth-conditional for Frege and Grice) does not necessarily address the discourse topic.

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- ▶ How to complete the triangle?

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► Our claims:

- Our claims:
- 1. The content grammatically marked as central must address the QUD.

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- Our claims:
- 1. The content grammatically marked as central *must* address the QUD.
- 2. When there is no central content, projection is obligatory.

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- Our claims:
- 1. The content grammatically marked as central must address the QUD.
- 2. When there is no central content, projection is obligatory.
- 3. When projection is possible, it is the default but does not occur if it conflicts with the central content.

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\blacktriangleright Claim 1 : Central information must address the QUD.

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- ▶ Claim 1 : Central information must address the QUD.
- ► Answers that don't target the QUD are odd.

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- ▶ Claim 1 : Central information must address the QUD.
- Answers that don't target the QUD are odd.
- (4) Q Did Paul pass the Science exam?
 - R ? Mary didn't know that he had.

See Simons et al. (2011)

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- ▶ Claim 1 : Central information must address the QUD.
- Answers that don't target the QUD are odd.
- (4) Q Did Paul pass the Science exam?

See Simons et al. (2011)

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Strong connection with Ducrot's (1972) Linking Law.

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- Strong connection with Ducrot's (1972) Linking Law.
- Ducrot: Attachment to the presupposition alone is not possible with justification or consequence discourse markers.

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- Strong connection with Ducrot's (1972) Linking Law.
- Ducrot: Attachment to the presupposition alone is not possible with justification or consequence discourse markers.
- (5) Paul stopped smoking because it's bad for health.
 → Paul doesn't smoke because it's bad for health

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Discussion

- Strong connection with Ducrot's (1972) Linking Law.
- Ducrot: Attachment to the presupposition alone is not possible with justification or consequence discourse markers.
- (5) Paul stopped smoking because it's bad for health.
 → Paul doesn't smoke because it's bad for health
- (6) ? Paul stopped smoking because he liked that.

 √→ Paul smoked because he liked that

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► Applying symmetry.

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Discussion
• Applying symmetry.

(7) Ducrot

- a. *Paul* | *stopped* | *smoking, as a result he felt better.*
- b. ? Paul stopped smoking , as a result he had lung cancer.

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Central information III

• Applying symmetry.

(7) Ducrot

- a. Paul stopped smoking, as a result he felt better.
- b. ? Paul stopped smoking , as a result he had lung cancer.

(8) **QUD**

- Q Why did Paul have lung cancer?
- R1 Because he smoked .
- R2 ? Because he stopped smoking. see Grimshaw (1979) for a generalization.

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• Generalized Linking Law (9).

(9) **GLL**

If a discourse relation is supported by a probabilistic dependence from p to p', p and p' must entail the central content of their respective constituents.

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• Generalized Linking Law (9).

(9) GLL

If a discourse relation is supported by a probabilistic dependence from p to p', p and p' must entail the central content of their respective constituents.

- The peripheral content can *also* be involved, see (10) (Ducrot again).
- (10) Q Does Paul has a strong will?
 R Well, he stopped smoking.

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• Generalized Linking Law (9).

(9) GLL

If a discourse relation is supported by a probabilistic dependence from p to p', p and p' must entail the central content of their respective constituents.

- The peripheral content can *also* be involved, see (10) (Ducrot again).
- (10) Q Does Paul has a strong will?
 R Well, he stopped smoking.
 - The peripheral content can be more important than the central content (Simons 2007), see (11)
- (11) Q Where is Paul?
 - B I just remembered that he is teaching.

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▶ Claim 2:

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- ▶ Claim 2:
- Presuppositions don't always project (see Simons et al., 2011 and Jayez, 2015 for a survey).

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- ▶ Claim 2:
- Presuppositions don't always project (see Simons et al., 2011 and Jayez, 2015 for a survey).
- The content of some triggers can't even be suspended.

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- ▶ Claim 2:
- Presuppositions don't always project (see Simons et al., 2011 and Jayez, 2015 for a survey).
- ▶ The content of some triggers can't even be suspended.
- ► A case in point: deictic particles.

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- ▶ Claim 2:
- Presuppositions don't always project (see Simons et al., 2011 and Jayez, 2015 for a survey).
- ▶ The content of some triggers can't even be suspended.
- ► A case in point: deictic particles.
- (12) a. If Paul passed his exam, Mary certainly knows that he did. \checkmark Paul passed
 - b. If Paul did not prepare the exam, I am surprised that he passed.

 \rightsquigarrow Paul passed

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 Deictic particles: interjections + modal particles + discourse management particles (hesitation signals, attentional hooks, stage indicators, etc.).

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- Deictic particles: interjections + modal particles + discourse management particles (hesitation signals, attentional hooks, stage indicators, etc.).
- They are the endpoint of the non-displaceability scale (Potts 2007, Gutzmann 2012).

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- Deictic particles: interjections + modal particles + discourse management particles (hesitation signals, attentional hooks, stage indicators, etc.).
- They are the endpoint of the non-displaceability scale (Potts 2007, Gutzmann 2012).
- Other views: procedural vs. conceptual (Blakemore 2002), showing vs. saying (Wharton 2003)

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- Deictic particles: interjections + modal particles + discourse management particles (hesitation signals, attentional hooks, stage indicators, etc.).
- They are the endpoint of the non-displaceability scale (Potts 2007, Gutzmann 2012).
- Other views: procedural vs. conceptual (Blakemore 2002), showing vs. saying (Wharton 2003)
- Discriminant prosodic properties (Aijmer 2012), visible in automatic classification (Dargnat et al. 2015).

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No central information III

• Examples for homophonic words (*quoi* and *voilà* as pronoun/something vs. particles in French), investigated with Prosotran (Bartkova et al., 2012)





voilà, right context slope

Fig. 5. Frequency of occurrences with respect to the Δ F0 value for *voilà* From Dargnat et al. (2015)

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Fig. 3. Frequency of occurrences with respect to pitch level values (measured on the last syllable nuclei)

From Dargnat et al. (2015)

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▶ Not all discourse markers pattern alike wrt projection (local accommodation).

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- Not all discourse markers pattern alike wrt projection (local accommodation).
- (13) **Context**: Paul just passed the French language exam.

If getting credits for the French exam allows one to register for FL34, Paul, as a result, can register. \downarrow getting credits \Rightarrow registration

Claim 3:

As long as there is no problem with the MC, projection occurs.

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- Claim 3: As long as there is no problem with the MC, projection occurs.
- This is not surprising given the Generalized Linking Law: Mind the central content!

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- Claim 3: As long as there is no problem with the MC, projection occurs.
- ▶ This is not surprising given the Generalized Linking Law: Mind the central content!
- Examples: ignorance interpretation.

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- Claim 3: As long as there is no problem with the MC, projection occurs.
- ▶ This is not surprising given the Generalized Linking Law: Mind the central content!
- Examples: ignorance interpretation.
- Projection would contradict the hypothetical status of the central content.

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- Claim 3: As long as there is no problem with the MC, projection occurs.
- ▶ This is not surprising given the Generalized Linking Law: Mind the central content!
- Examples: ignorance interpretation.
- Projection would contradict the hypothetical status of the central content.
- (14) If I discover that I was mistaken, I will take another option. \checkmark I was mistaken

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- Simons et al. (2011): projection is blocked when the peripheral content addresses the QUD.
- (15) a. *p* is at-issue iff the speaker intends to address the QUD via an answer to the question whether *p* (abbreviated as ?*p*)
 - b. An intention to address the QUD via ?p is felicitous only ?p is relevant to the QUD and the speaker can reasonably expect the hearer to recognize this intention.
 (Def. 26 of Simons et al., 2011)

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• If they are right, non-projection is mainly a matter of (intended) relevance to the QUD.

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- If they are right, non-projection is mainly a matter of (intended) relevance to the QUD.
- \blacktriangleright E.g., in (16), (? Paul passed) and (? Paul was well-prepared) are relevant to the QUD.
- (16) Q Did Paul pass his exam?
 - R1 I am not aware he did. \checkmark he did
 - R2 I am not aware that he was well-prepared.

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Variations of projection IV

 Problem 1: in some cases projection and (intentional) QUD addressing coexist.

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Variations of projection IV

- Problem 1: in some cases projection and (intentional) QUD addressing coexist.
- (10) Q Does Paul has a strong will?
 R Well, he didn't stop smoking.
- (17) Q What about a picnic?B Did you realize it's raining?
- (18) Q Which neighbor kid keeps ringing John's doorbell and running away?
 - R John is beside himself with frustration. He hasn't figured out it's Billy.
 (Peters' 2016 example 32)

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• Problem 2: When the peripheral content does not project, the central content is crucial.

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Discussion

- ▶ Problem 2: When the peripheral content does not project, the central content is crucial.
- ▶ (19) OK if Mary was supposed to know (Simons et al.)

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- Problem 2: When the peripheral content does not project, the central content is crucial.
- ▶ (19) OK if Mary was supposed to know (Simons et al.)
- (19) Q Did Paul pass the exam?B Mary doesn't know that he did.

 Problem: in some cases, lexical meaning > general pragmatic reasoning.

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 Problem: in some cases, lexical meaning > general pragmatic reasoning.

English	French
Question	
Did Paul pass the exam?	Est-ce que Paul a réussi l'examen ?
Answer	
Mary doesn't know that he did	? Marie ne <mark>sait</mark> pas qu'il l'a eu
Reasoning	
Mary would know	Marie le saurait

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 Similar observations with *je ne sache pas* vs. *je ne sais pas*, avoir connaissance or être au courant vs. savoir, etc.

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- Similar observations with *je ne sache pas* vs. *je ne sais pas*, *avoir connaissance* or *être au courant* vs. *savoir*, etc.
- Difficult to account for these differences in very general terms (# Simons et al. 2016).

Similar observations with *je ne sache pas* vs. *je ne sais pas, avoir connaissance* or *être au courant* vs. *savoir*, etc.

- Difficult to account for these differences in very general terms (# Simons et al. 2016).
- Unclear whether general inference strategies, stochastic learning or/and attention to convention is behind such differences (de Gries, 2012, Hanks, 2015, Callanan and Siegel, 2014 Clark 2016, chapter 4, Lapesa et al. 2016).

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► Simple observations suggest that the central content plays a central role.

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- Simple observations suggest that the central content plays a central role.
- Projection is possible only when it does not obscure the contribution of the central content to answering the QUD.

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Discussion I

- Simple observations suggest that the central content plays a central role.
- Projection is possible only when it does not obscure the contribution of the central content to answering the QUD.
- The crucial descriptive factor: combination of relevance to the QUD and layering.

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Discussion I

- Simple observations suggest that the central content plays a central role.
- Projection is possible only when it does not obscure the contribution of the central content to answering the QUD.
- The crucial descriptive factor: combination of relevance to the QUD and layering.
- ▶ The interaction of on-line strategies and conventional 'frozen' lexical knowledge needs further study.

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 Open question 1: Unify deictic particles with (some) gestures, intonation and laughter (Mazzocconi et al. 2016)?

- Open question 1: Unify deictic particles with (some) gestures, intonation and laughter (Mazzocconi et al. 2016)?
- Open question/program 2: Have a more liberal notion of QUD and relevance (Ginzburg 2012) and investigate the role of discourse relations with the GLL (Jayez and Reinecke 2016).

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- Open question 1: Unify deictic particles with (some) gestures, intonation and laughter (Mazzocconi et al. 2016)?
- Open question/program 2: Have a more liberal notion of QUD and relevance (Ginzburg 2012) and investigate the role of discourse relations with the GLL (Jayez and Reinecke 2016).
- Open question/program 3: Develop a fine-grained semantics for triggers of various classes.

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- Open question 1: Unify deictic particles with (some) gestures, intonation and laughter (Mazzocconi et al. 2016)?
- Open question/program 2: Have a more liberal notion of QUD and relevance (Ginzburg 2012) and investigate the role of discourse relations with the GLL (Jayez and Reinecke 2016).
- Open question/program 3: Develop a fine-grained semantics for triggers of various classes.
- Open question/program 4: the diachrony of triggers (*know* vs. *savoir*).

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THANK YOU! (projects)

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