Inquisitive pragmatics Ignorance, possibility and exhaustivity

Matthijs Westera

Institute for Logic, Language and Computation University of Amsterdam

Workshop on Questions and Inquisitive Semantics University of Gothenburg, 2012, December 17th

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal Possibility and attentive 'might' Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus Mention-some questions

Conclusion

Pragmatics

(Grice, 1975)

► The utterance of a sentence in context may convey more than the sentence's literal meaning.

Pragmatics (Grice, 1975)

- ► The utterance of a sentence in context may convey more than the sentence's literal meaning.
- ► The context includes assumptions about the dialogue participants' behaviour, in particular that they behave cooperatively, as captured by a set of maxims:

Pragmatics (Grice, 1975)

- ► The utterance of a sentence in context may convey more than the sentence's literal meaning.
- The context includes assumptions about the dialogue participants' behaviour, in particular that they behave cooperatively, as captured by a set of maxims:
 - Quality: Say only what you believe to be true.
 - Relation: Say only what you believe to be relevant.
 - Quantity: Be just as informative as required for the goal of the conversation.
 - Manner: Be concise, clear, etcetera.

Grice (1975) on the maxim of Relation

Grice (1975) on the maxim of Relation

Though the maxim itself is terse, it's formulation conceals a number of problems that exercise me a good deal: questions about what different kinds and focuses of relevance there may be, how these shift in the course of a talk exchange, how to allow for the fact that subjects of conversation are legitimately changed, and so on.

Classical explanation

1. The speaker said 'John or Mary came'.

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that *John came* would be relevant too.

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came. → Ignorance

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came. → Ignorance
- 6. She must believe that John or Mary came. (Quality)

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came. → Ignorance
- 6. She must believe that John or Mary came. (Quality)
- 7. Hence, she must consider it possible that Mary came.
 - → Possibility

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came. → Ignorance
- 6. She must believe that John or Mary came. (Quality)

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came. → Ignorance

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant.
- 3. Hence, that John came would be relevant too. ??
- 4. Had the speaker believed that *John came*, she would have conveyed that instead
- 5. Hence she must not believe that John came.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'One of John and Mary came'.
- 2. Hence, that one of John and Mary came is relevant.
- 3. Hence, that John came would be relevant too. ??
- 4. Had the speaker believed that *John came*, she would have conveyed that instead
- 5. Hence she must not believe that John came.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'Maybe John came'.
- 2. Hence, that maybe John came is relevant.
- 3. Hence, that certainly John came would be relevant too. ??
- 4. Had the speaker believed that *certainly John came*, she would have conveyed that instead
- 5. Hence she must not believe that certainly John came.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'Most people came'.
- 2. Hence, that most people came is relevant.
- 3. Hence, that all people came would be relevant too. ??
- 4. Had the speaker believed that *all people came*, she would have conveyed that instead
- 5. Hence she must not believe that all people came.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'Five people came'.
- 2. Hence, that five people came is relevant.
- 3. Hence, that six people came would be relevant too. ??
- 4. Had the speaker believed that *six people came*, she would have conveyed that instead
- 5. Hence she must not believe that six people came.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'It's warm'.
- 2. Hence, that it is warm is relevant.
- 3. Hence, that it were hot would be relevant too. ??
- 4. Had the speaker believed that *it was hot*, she would have conveyed that instead
- 5. Hence she must not believe that it was hot.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came.

- What are the relevant alternatives?
 - Semantically there is nothing special about a disjunct.
 - A syntactic explanation would not generalize.

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came.

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- 4. Had the speaker believed that *John came*, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came.

- What is the conversational goal?
 - Quantity: Be just as informative as required for the goal of the conversation.

- 1. The speaker said 'John or Mary came'.
- 2. Hence, that John or Mary came is relevant. (Relation)
- 3. Hence, that John came would be relevant too.
- Had the speaker believed that John came, she would have conveyed that instead (Quantity)
- 5. Hence she must not believe that John came.

- What is the conversational goal?
 - Quantity: Be just as informative as required to be maximally informative.

A first inquisitive account (Groenendijk and Roelofsen 2009, Ciardelli et al. 2009)

Quality: Say only what you believe to be true.

- ▶ **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)

- ▶ **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of \boldsymbol{A} (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.

- Quality: Propose A only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)

- **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)
- 3. She must consider it possible that John came. (att. sinc.)

- **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)
- 3. She must consider it possible that John came. (att. sinc.)
- 4. She raises the issue of whether John came or Mary.

- ▶ **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)
- 3. She must consider it possible that John came. (att. sinc.)
- 4. She raises the issue of whether John came or Mary.
- 5. This must be an issue, too, for herself. (inq. sinc.)

- ▶ **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)
- 3. She must consider it possible that John came. (att. sinc.)
- 4. She raises the issue of whether John came or Mary.
- 5. This must be an issue, too, for herself. (inq. sinc.)
- 6. Hence, she must not believe that John came. \rightarrow ignorance

A first inquisitive account (Groenendijk and Roelofsen 2009, Ciardelli et al. 2009)

- **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)
- 3. She must consider it possible that John came. (att. sinc.)
- 4. She raises the issue of whether John came or Mary.
- 5. This must be an issue, too, for herself. (inq. sinc.)
- 6. Hence, she must not believe that John came. → ignorance

However:

This seems too rigid: quiz contexts do require informative sincerity, but not inquisitive and attentive.



Ignorance and possibility implicatures

A first inquisitive account (Groenendijk and Roelofsen 2009, Ciardelli et al. 2009)

- ▶ **Quality:** Propose *A* only if
 - (i) you believe in $\bigcup A$ (informative sincerity)
 - (ii) you consider all $a \in A$ possible (attentive sincerity), and
 - (iii) you cannot resolve the issue of A (inquisitive sincerity)
- 1. The speaker said 'John or Mary came'.
- 2. She must believe that John or Mary came. (inf. sinc.)
- 3. She must consider it possible that John came. (att. sinc.)
- 4. She raises the issue of whether John came or Mary.
- 5. This must be an issue, too, for herself. (inq. sinc.)
- 6. Hence, she must not believe that John came. → ignorance

However:

- This seems too rigid: quiz contexts do require informative sincerity, but not inquisitive and attentive.
- And also: what a waste!



Aims of this talk

Aims of this talk

Aim 1

To maintain the spirit of the classical explanation, using the richness of unrestricted inquisitive semantics to solve the two problems (characterizing relevance and goal).

(1) I saw John or Mary in the park.→ I did not see both

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:
- 1. The speaker said 'John or Mary came'
- 2. ... (as above)

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:
- 1. The speaker said 'John or Mary came'
- 2. ... (as above)
- 3. The speaker cannot know that John came.

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:
- 1. The speaker said 'John or Mary came'
- 2. ... (as above)
- 3. The speaker cannot know that John came.
- 4. The speaker has an opinion as to whether they both came.

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:
- 1. The speaker said 'John or Mary came'
- 2. ... (as above)
- 3. The speaker cannot know that John came.
- 4. The speaker has an opinion as to whether they both came.
- 5. Hence, she must believe that not both came.

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:
- 1. The speaker said 'John or Mary came'
- 2. ... (as above)
- 3. The speaker cannot know that John came.
- 4. The speaker has an opinion as to whether they both came.
- 5. Hence, she must believe that not both came.
 - This holds for 'old' accounts of utterances in isolation, as well as newer accounts of responses to a question (Schulz and Van Rooij 2004, Spector 2007).

- (1) I saw John or Mary in the park.
 - → I did not see both
 - Many expressions can implicate exhaustivity.
 - Existing accounts typically rely on a competence assumption to turn an ignorance implicature into exhaustivity:
- 1. The speaker said 'John or Mary came'
- 2. ... (as above)
- 3. The speaker cannot know that John came.
- 4. The speaker has an opinion as to whether they both came.
- 5. Hence, she must believe that not both came.
 - This holds for 'old' accounts of utterances in isolation, as well as newer accounts of responses to a question (Schulz and Van Rooij 2004, Spector 2007).
 - And the new accounts are quite elaborate (but do not take my word for it).



Aims of this talk

Aim 1

To maintain the spirit of the classical explanation, using the richness of unrestricted inquisitive semantics to solve the two problems (characterizing relevance and goal).

Aims of this talk

Aim 1

To maintain the spirit of the classical explanation, using the richness of unrestricted inquisitive semantics to solve the two problems (characterizing relevance and goal).

Aim 2

To give a new account of exhaustivity implicatures, in particular those of responses to an initiative.

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal Possibility and attentive 'might' Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus Mention-some questions

Conclusion

Framework: unrestricted inquisitive semantics

Whiteboard intermezzo!

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal Possibility and attentive 'might' Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus Mention-some questions

Conclusion

Relevant alternatives

Challenge

How to characterise which proposals may take the place of X in:

4. 'Had the speaker believed X, she should have said so.'

Relevant alternatives

Challenge

How to characterise which proposals may take the place of X in:

4. 'Had the speaker believed X, she should have said so.'

Assumed division of labour

- The goal is (typically) to settle a proposal in a most informative way.
- Relevance is closed under entailment.

Settling responses

A proposal A is settled by a response B iff $\exists \alpha \in A \text{ s.t. } \bigcup B \subseteq \alpha$.

Settling responses

A proposal A is settled by a response B iff $\exists \alpha \in A \text{ s.t. } \bigcup B \subseteq \alpha$.

Comparative settling

A response B settles proposal A more strongly than a response B', if $\exists \alpha \in A$ s.t. $\bigcup B \subseteq \alpha$ and $\bigcup B' \not = \alpha$.

Settling responses

A proposal A is settled by a response B iff $\exists \alpha \in A \text{ s.t. } \bigcup B \subseteq \alpha$.

Comparative settling

A response B settles proposal A more strongly than a response B', if $\exists \alpha \in A$ s.t. $\bigcup B \subseteq \alpha$ and $\bigcup B' \not \equiv \alpha$.

Proposal under discussion

In the context there is a proposal under discussion, the *PUD*.

Settling responses

A proposal A is settled by a response B iff $\exists \alpha \in A \text{ s.t. } \bigcup B \subseteq \alpha$.

Comparative settling

A response B settles proposal A more strongly than a response B', if $\exists \alpha \in A$ s.t. $\bigcup B \subseteq \alpha$ and $\bigcup B' \notin \alpha$.

Proposal under discussion

In the context there is a proposal under discussion, the PUD.

Default assumption

The *PUD* is the most recently made proposal

→ but see Liz' talk tomorrow.

Settling responses

A proposal A is settled by a response B iff $\exists \alpha \in A \text{ s.t. } \bigcup B \subseteq \alpha$.

Comparative settling

A response B settles proposal A more strongly than a response B', if $\exists \alpha \in A$ s.t. $\bigcup B \subseteq \alpha$ and $\bigcup B' \not = \alpha$.

Proposal under discussion

In the context there is a proposal under discussion, the *PUD*.

Default assumption

The *PUD* is the most recently made proposal

- → but see Liz' talk tomorrow.
 - Quantity: Make your possibilities as informative as required for the goal of the conversation.

Settling responses

A proposal A is settled by a response B iff $\exists \alpha \in A \text{ s.t. } \bigcup B \subseteq \alpha$.

Comparative settling

A response B settles proposal A more strongly than a response B', if $\exists \alpha \in A$ s.t. $\bigcup B \subseteq \alpha$ and $\bigcup B' \not = \alpha$.

Proposal under discussion

In the context there is a proposal under discussion, the *PUD*.

Default assumption

The *PUD* is the most recently made proposal

- → but see Liz' talk tomorrow.
 - Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.

Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

To entail what was previously said, is to provide support.

Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

- To entail what was previously said, is to provide support.
- When it is relevant that John came, it is also relevant that John came and it's the birthday of Prince Charles.

Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

- To entail what was previously said, is to provide support.
- When it is relevant that John came, it is also relevant that John came and it's the birthday of Prince Charles.
- Being over-informative is a matter of Quantity: division of labour.

Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

- To entail what was previously said, is to provide support.
- When it is relevant that John came, it is also relevant that John came and it's the birthday of Prince Charles.
- Being over-informative is a matter of Quantity: division of labour.

Default assumption

The *PUD*, with all proposals that entail it, are the only relevant proposals.

Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

- To entail what was previously said, is to provide support.
- When it is relevant that John came, it is also relevant that John came and it's the birthday of Prince Charles.
- Being over-informative is a matter of Quantity: division of labour.

Default assumption

The *PUD*, with all proposals that entail it, are the only relevant proposals.

• Relation: Only say what you believe to be relevant.



Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

- To entail what was previously said, is to provide support.
- When it is relevant that John came, it is also relevant that John came and it's the birthday of Prince Charles.
- Being over-informative is a matter of Quantity: division of labour.

Default assumption

The *PUD*, with all proposals that entail it, are the only relevant proposals.

• **Relation**: Let your proposal entail the *PUD*.



Relevant proposals

The context provides a set of relevant proposals, the *REL*, that is closed under entailment:

if $A \in REL$ and $B \models A$, then $B \in REL$.

Intuition:

- To entail what was previously said, is to provide support.
- When it is relevant that John came, it is also relevant that John came and it's the birthday of Prince Charles.
- Being over-informative is a matter of Quantity: division of labour.

Default assumption

The *PUD*, with all proposals that entail it, are the only relevant proposals.

• **Relation**: Let your proposal entail the *PUD*.

Warning: This is unrestricted entailment!



Ignorance and possibility implicatures

New inquisitive pragmatics account

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.

- Quality: Say only what you believe to be true.
- **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- The PUD must contain the possibilities that John came, and that Mary came. (Relation, Quantity)

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The *PUD* must contain the possibilities that John came, and that Mary came. (Relation, Quantity)
- Had the speaker known that John came, she could have settled it more strongly. (Quantity)

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- The PUD must contain the possibilities that John came, and that Mary came. (Relation, Quantity)
- Had the speaker known that John came, she could have settled it more strongly. (Quantity)
- 4. Hence, she must not believe that John came. → ignorance

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The *PUD* must contain the possibilities that John came, and that Mary came. (Relation, Quantity)
- Had the speaker known that John came, she could have settled it more strongly. (Quantity)
- 4. Hence, she must not believe that John came. → ignorance
- 5. But she must believe that John or Mary came. (Quality)

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The *PUD* must contain the possibilities that John came, and that Mary came. (Relation, Quantity)
- Had the speaker known that John came, she could have settled it more strongly. (Quantity)
- 4. Hence, she must not believe that John came. → ignorance
- 5. But she must believe that John or Mary came. (Quality)
- 6. Hence she must consider it possible that Mary came.
 - → possibility



Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal

Possibility and attentive 'might'

Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus Mention-some questions

Conclusion

(Ciardelli, Groenendijk & Roelofsen, 2009, 2010)

(Ciardelli, Groenendijk & Roelofsen, 2009, 2010)

Idea:

'Might p' draws attention to p without committing to anything.

Attentive 'might' (Ciardelli, Groenendijk & Roelofsen, 2009, 2010)

- 'Might p' draws attention to p without committing to anything.
- ▶ Translate 'might p' as ' $p \lor \top$ '

(Ciardelli, Groenendijk & Roelofsen, 2009, 2010)

- 'Might p' draws attention to p without committing to anything.
- ▶ Translate 'might p' as ' $p \lor \top$ '
- ▶ The epistemic flavour of 'might' is (primarily) an implicature.

(Ciardelli, Groenendijk & Roelofsen, 2009, 2010)

- 'Might p' draws attention to p without committing to anything.
- ▶ Translate 'might p' as ' $p \lor \top$ '
- ▶ The epistemic flavour of 'might' is (primarily) an implicature.
- This explains the equivalence between a and b below:
- (2) a. John might be in London or he might be in Parisb. John might be in London and he might be in Paris

(Ciardelli, Groenendijk & Roelofsen, 2009, 2010)

- 'Might p' draws attention to p without committing to anything.
- ▶ Translate 'might p' as ' $p \lor \top$ '
- ▶ The epistemic flavour of 'might' is (primarily) an implicature.
- This explains the equivalence between a and b below:
- (2) a. John might be in London or he might be in Parisb. John might be in London and he might be in Paris
- (3) a. John might speak Russian or he might speak French b. John might speak Russian and he might speak French

▶ They rely on attentive sincerity for the epistemic flavour...

- ▶ They rely on attentive sincerity for the epistemic flavour...
- ▶ I have assumed that possibility derives from ignorance.

- ▶ They rely on attentive sincerity for the epistemic flavour...
- ▶ I have assumed that possibility derives from ignorance.

Prediction

The epistemic flavour of 'might' disappears with the ignorance implicature.

- ▶ They rely on attentive sincerity for the epistemic flavour...
- ▶ I have assumed that possibility derives from ignorance.

Prediction

The epistemic flavour of 'might' disappears with the ignorance implicature.

- (4) a. Teacher: Next one: the streets are wet. Has it been raining?
 - b. Student: Well, if the streets are wet, it must have been raining.
 - c. Teacher: Ah, but the neighbour might have been washing his car.
 - d. Student: The neighbour doesn't have a car!
 - e. Teacher: Very good! Another one correct.

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal Possibility and attentive 'might'

Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus Mention-some questions

Conclusion

(5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. His name was Prott. . . .

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. His name was Prott. . . .
 - ► The speaker is inquisitively unsincere! Why?

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. His name was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.
 - ▶ The speaker slowly increases granularity for didactic reasons.

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.
 - The speaker slowly increases granularity for didactic reasons.
 - The speaker seeks to build up tension.

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.
 - The speaker slowly increases granularity for didactic reasons.
 - The speaker seeks to build up tension.
 - The speaker is setting up a guessing game.

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.
 - ► The speaker slowly increases granularity for didactic reasons.
 - The speaker seeks to build up tension.
 - ▶ The speaker is setting up a guessing game.
 - The speaker is a very bad rapper.
 - **...**

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.
 - The speaker slowly increases granularity for didactic reasons.
 - ► The speaker seeks to build up tension.
 - ▶ The speaker is setting up a guessing game.
 - The speaker is a very bad rapper.
 - **...**
- (6) John, Mary, Prott or Suzy came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. His name was Prott. . . .

- (5) A person in a white coat came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. It was Prott. . . .
 - The speaker is inquisitively unsincere! Why?
 - The speaker is unable to describe the referent concisely.
 - The speaker slowly increases granularity for didactic reasons.
 - ► The speaker seeks to build up tension.
 - ▶ The speaker is setting up a guessing game.
 - The speaker is a very bad rapper.
 - ▶ ...
- (6) John, Mary, Prott or Suzy came to me yesterday. It was a man, with short hair, grayish black. He claimed to be from the planet K-Pax. His name was Prott. . . .

Observation

For disjunction, the first two explanations are unavailable.



Explanation

Semantically, disjunction and existential quantification are indistinguishable.

- Semantically, disjunction and existential quantification are indistinguishable.
- Disjunction, but not the existential quantifier, explicitly mention two possibilities, thereby:

- Semantically, disjunction and existential quantification are indistinguishable.
- Disjunction, but not the existential quantifier, explicitly mention two possibilities, thereby:
 - indicating the speaker's ability; and
 - locking on a particular level of granularity.

- Semantically, disjunction and existential quantification are indistinguishable.
- Disjunction, but not the existential quantifier, explicitly mention two possibilities, thereby:
 - indicating the speaker's ability; and
 - locking on a particular level of granularity.
- ▶ This rules out the first two explanations in case of disjunction.

- Semantically, disjunction and existential quantification are indistinguishable.
- Disjunction, but not the existential quantifier, explicitly mention two possibilities, thereby:
 - indicating the speaker's ability; and
 - locking on a particular level of granularity.
- ▶ This rules out the first two explanations in case of disjunction.
- For existentials, these provide an escape hatches to block ignorance implicatures.

1. The speaker said 'A man came to me'.

- 1. The speaker said 'A man came to me'.
- 2. Had the speaker known John came, she should have said it. (Quantity)

- 1. The speaker said 'A man came to me'.
- 2. Had the speaker known John came, she should have said it. (Quantity)
- 3. Hence, she must not believe that John came.

- 1. The speaker said 'A man came to me'.
- 2. Had the speaker known John came, and been able to utter it, and desired this level of granularity, she should have said it. (Quantity)
- 3. Hence, she must not believe that John came.

- 1. The speaker said 'A man came to me'.
- 2. Had the speaker known John came, and been able to utter it, and desired this level of granularity, she should have said it. (Quantity)

- 1. The speaker said 'A man came to me'.
- Had the speaker known John came, and been able to utter it, and desired this level of granularity, she should have said it. (Quantity)

Prediction

Existentials trigger ignorance implicatures only when the ability and granularity escape hatches are ruled out.

- 1. The speaker said 'One of John and Bob came to me'.
- Had the speaker known John came, and been able to utter it, and desired this level of granularity, she should have said it. (Quantity)

Prediction

Existentials trigger ignorance implicatures only when the ability and granularity escape hatches are ruled out.

- 1. The speaker said 'One of John and Bob came to me'.
- Had the speaker known John came, and been able to utter it, and desired this level of granularity, she should have said it. (Quantity)
- 3. Hence, she must not believe that John came.

Prediction

Existentials trigger ignorance implicatures only when the ability and granularity escape hatches are ruled out.

Sneak preview: Scalar modifiers

This afternoon

(7) a. At least three boys cameb. More than two boys came

Sneak preview: Scalar modifiers

This afternoon

- (7) a. At least three boys cameb. More than two boys came
- Observation

Superlative modifiers mention a possibility explicitly, while comparative modifiers do not.

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal Possibility and attentive 'might' Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus Mention-some questions

Conclusion

- Quality: Say only what you believe to be true.
- ▶ **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.

- Quality: Say only what you believe to be true.
- ▶ **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.

- Quality: Say only what you believe to be true.
- ▶ **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. This entails the PUD.
- 3. Hence, that *John came and maybe Mary too* also entails the *PUD*.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. This entails the PUD.
- 3. Hence, that *John came and maybe Mary too* also entails the *PUD*.
- 4. Had the speaker known this, she should have conveyed it.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. This entails the PUD.
- 3. Hence, that *John came and maybe Mary too* also entails the *PUD*.
- 4. Had the speaker known this, she should have conveyed it.
- 5. Hence, she must not believe that John came.

- Quality: Say only what you believe to be true.
- ▶ **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. This entails the PUD.
- 3. Hence, that *John came and maybe Mary too* also entails the *PUD*.
- 4. Had the speaker known this, she should have conveyed it.
- 5. Hence, she must not believe that John came.
- 6. The speaker has an opinion as to whether they both came. (Competence assumption)

- Quality: Say only what you believe to be true.
- ▶ **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. This entails the PUD.
- 3. Hence, that *John came and maybe Mary too* also entails the *PUD*.
- 4. Had the speaker known this, she should have conveyed it.
- 5. Hence, she must not believe that John came.
- 6. The speaker has an opinion as to whether they both came. (Competence assumption)
- 7. Hence, she must believe that not both came.



- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. This entails the PUD.
- 3. Hence, that *John came and maybe Mary too* also entails the *PUD*.
- 4. Had the speaker known this, she should have conveyed it.
- 5. Hence, she must not believe that John came.
- The speaker has an opinion as to whether they both came. (Competence assumption)
- 7. Hence, she must believe that not both came.



► The exhaustivity of utterances in isolation may not be very interesting:

- ► The exhaustivity of utterances in isolation may not be very interesting:
 - In a context where the competence assumption can be made, typically the exhaustivity itself can be assumed.

- ► The exhaustivity of utterances in isolation may not be very interesting:
 - In a context where the competence assumption can be made, typically the exhaustivity itself can be assumed.
- (8) I saw John or Bob in the park.

- ► The exhaustivity of utterances in isolation may not be very interesting:
 - In a context where the competence assumption can be made, typically the exhaustivity itself can be assumed.
- (8) I saw John or Bob in the park (I'm not sure who it was).

- ► The exhaustivity of utterances in isolation may not be very interesting:
 - In a context where the competence assumption can be made, typically the exhaustivity itself can be assumed.
- (8) I saw John or Bob in the park (I'm not sure who it was).
 - ► The exhaustivity of *responses* to questions is much more robust:

- The exhaustivity of utterances in isolation may not be very interesting:
 - In a context where the competence assumption can be made, typically the exhaustivity itself can be assumed.
- (8) I saw John or Bob in the park (I'm not sure who it was).
 - The exhaustivity of responses to questions is much more robust:
- (9) Was John or Bob in the park? Yes, John was.

- The exhaustivity of utterances in isolation may not be very interesting:
 - In a context where the competence assumption can be made, typically the exhaustivity itself can be assumed.
- (8) I saw John or Bob in the park (I'm not sure who it was).
 - The exhaustivity of responses to questions is much more robust:
- (9) Was John or Bob in the park? Yes, John was.
 - So can we do without the competence assumption in this case?

Intuition:

1. The initiator said 'John or Mary came'.

- 1. The initiator said 'John or Mary came'.
- The responder said 'John came', leaving the possibility that Mary came unattended.

- 1. The initiator said 'John or Mary came'.
- The responder said 'John came', leaving the possibility that Mary came unattended.
- 3. The reason must be that she believes Mary did not come (Quality).

- 1. The initiator said 'John or Mary came'.
- The responder said 'John came', leaving the possibility that Mary came unattended.
- 3. The reason must be that she believes Mary did not come (Quality).

- 1. The initiator said 'John or Mary came'.
- The responder said 'John came', leaving the possibility that Mary came unattended.
- 3. The reason must be that she believes Mary did not come (Quality).
 - Because attending can be done without committing, no competence assumption is required.

- 1. The initiator said 'John or Mary came'.
- The responder said 'John came', leaving the possibility that Mary came unattended.
- 3. The reason must be that she believes Mary did not come (Quality).
 - Because attending can be done without committing, no competence assumption is required.
 - We need a maxim that says: do not unattend without a reason.

The exhaustivity implicature of a response (Westera 2012)

Intuition:

- 1. The initiator said 'John or Mary came'.
- The responder said 'John came', leaving the possibility that Mary came unattended.
- 3. The reason must be that she believes Mary did not come (Quality).
 - Because attending can be done without committing, no competence assumption is required.
 - We need a maxim that says: do not unattend without a reason.
 - → We already have one!

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The responder said 'John came'.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The responder said 'John came'.
- 3. This does not entail the *PUD*. (*Relation)

- Quality: Say only what you believe to be true.
- ▶ **Relation:** Let your proposal entail the *PUD*
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The responder said 'John came'.
- 3. This does not entail the *PUD*. (*Relation)
- 4. The responder could have said 'John came, and maybe Mary too', which does entail the PUD.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The responder said 'John came'.
- 3. This does not entail the *PUD*. (*Relation)
- 4. The responder could have said 'John came, and maybe Mary too', which does entail the PUD.
- But she did not. The reason must be that she wants to avoid the implicature that possibly Mary came.

- Quality: Say only what you believe to be true.
- Relation: Let your proposal entail the PUD
- Quantity: Make your possibilities just as informative as required to maximally strongly settle the PUD.
- 1. The speaker said 'John or Mary came'.
- 2. The responder said 'John came'.
- 3. This does not entail the *PUD*. (*Relation)
- 4. The responder could have said 'John came, and maybe Mary too', which does entail the PUD.
- But she did not. The reason must be that she wants to avoid the implicature that possibly Mary came.
- 6. She must believe that Mary did not come.

- Intuitively, without attentive content there is no unattending, hence no exhaustivity.
- ▶ But we can also frame it logically:

- Intuitively, without attentive content there is no unattending, hence no exhaustivity.
- But we can also frame it logically:

Exhaustivity, entailment and compliance

Exhaustivity is the weakest, differentiating point-wise strengthening that makes each compliant response entailing.

- Intuitively, without attentive content there is no unattending, hence no exhaustivity.
- But we can also frame it logically:

Exhaustivity, entailment and compliance

Exhaustivity is the weakest, differentiating point-wise strengthening that makes each compliant response entailing.

→ Balogh (2008)?

- Intuitively, without attentive content there is no unattending, hence no exhaustivity.
- But we can also frame it logically:

Exhaustivity, entailment and compliance

Exhaustivity is the weakest, differentiating point-wise strengthening that makes each compliant response entailing.

 \rightarrow Balogh (2008)?

Exhaustivity and unrestrictedness

If compliance and entailment are the same order, no exhaustivity is needed.

- (10) a. John or Mary came to the party.
 - b. JOHN \uparrow or MARY \downarrow came to the party.

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Question-answer congruence of focus (Rooth, 1996)

The position of focus in an answer corresponds to the questioned position in a wh-question, or the disjuncts in an alternative question.

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Focus and Contextual Question (Beaver and Clark, 2008)

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Focus and Contextual Question (Beaver and Clark, 2008)

A focused constituent presupposes a question under discussion, the Contextual Question, to which it claims to be an exhaustive answer.

We can take the Contextual Question to be the PUD.

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Focus and Contextual Question (Beaver and Clark, 2008)

- We can take the Contextual Question to be the PUD.
- Does 'claims' mean 'entails' or 'implicates'?

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Focus and Contextual Question (Beaver and Clark, 2008)

- We can take the Contextual Question to be the PUD.
- Does 'claims' mean 'entails' or 'implicates'?
- If 'implicates', we have a good story:

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Focus and Contextual Question (Beaver and Clark, 2008)

- We can take the Contextual Question to be the PUD.
- Does 'claims' mean 'entails' or 'implicates'?
- If 'implicates', we have a good story:
 - Responses to the PUD implicate exhaustivity.

- (10) a. John or Mary came to the party.b. JOHN ↑ or MARY ↓ came to the party.
 - Why is exhaustivity focus-dependent?

Focus and Contextual Question (Beaver and Clark, 2008)

- We can take the Contextual Question to be the PUD.
- Does 'claims' mean 'entails' or 'implicates'?
- ▶ If 'implicates', we have a good story:
 - Responses to the PUD implicate exhaustivity.
 - Focus serves the purpose only of highlighting that it is a response to the *PUD*, ensuring the implicatures are recognised.

On the whiteboard!

(11) Who came to the party?

- (11) Who came to the party?
 - a. JOHN came to the party \downarrow .

- (11) Who came to the party?
 - a. JOHN came to the party ↓.
 - b. JOHN \uparrow or MARY \downarrow came to the party.

- (11) Who came to the party?
 - a. JOHN came to the party \downarrow .
 - b. JOHN \uparrow or MARY \downarrow came to the party.
 - c. ?? John came to the PARTY.

- (11) Who came to the party?
 - a. JOHN came to the party ↓.
 - b. JOHN \uparrow or MARY \downarrow came to the party.
 - c. ?? John came to the PARTY.
 - d. ? JOHN OR MARY came to the party.

- (11) Who came to the party?
 - a. JOHN came to the party ↓.
 - b. JOHN \uparrow or MARY \downarrow came to the party.
 - c. ?? John came to the PARTY.
 - d. ? JOHN OR MARY came to the party.
 - e. JOHN came to the party ↑.

Sneak preview: Scalar modifiers

(this afternoon)

Sneak preview: Scalar modifiers (this afternoon)

Scalar modifiers 'at least', 'more than', etc., likewise presuppose a question(/proposal) under discussion.

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal Possibility and attentive 'might' Escape hatches for the existential quant

Exhaustivity implicatures

In inquisitive pragmatics Exhaustivity and focus

Mention-some questions

Conclusion



Mention-some questions

E.g., (Schulz and Van Rooij, 2005)

- Responses to wh-questions can be interpreted exhaustively or non-exhaustively.
- Questions that typically do not trigger exhaustivity are called 'mention-some' questions.

Mention-some questions

E.g., (Schulz and Van Rooij, 2005)

- Responses to wh-questions can be interpreted exhaustively or non-exhaustively.
- Questions that typically do not trigger exhaustivity are called 'mention-some' questions.

A possible explanation

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

A possible explanation

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

1. The initiator asked 'Where can I buy an Italian newspaper?'

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.
- 6. (no exhaustivity implicated)

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.
- 6. (no exhaustivity implicated)

However:

Canceling an implicature of the initiator, we would expect the response to be marked.

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.
- 6. (no exhaustivity implicated)

- Canceling an implicature of the initiator, we would expect the response to be marked.
- Are those other places really irrelevant?

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.
- 6. (no exhaustivity implicated)

- Canceling an implicature of the initiator, we would expect the response to be marked.
- Are those other places really irrelevant?
- Is there really no exhaustivity implicature?

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.
- 6. (no exhaustivity implicated)

- Canceling an implicature of the initiator, we would expect the response to be marked.
- Are those other places really irrelevant?
- Is there really no exhaustivity implicature?
- (13) A: Where can I buy an Italian newspaper? B: In the little shop around the corner.

(Westera, 2012, inspired by Schulz and Van Rooij, 2005)

- 1. The initiator asked 'Where can I buy an Italian newspaper?'
- 2. She considers this proposal to be relevant.
- 3. The responder said 'in the shop around the corner'.
- 4. This leaves all other places unattended.
- 5. The reason must be that she considers those places irrelevant.
- 6. (no exhaustivity implicated)

- Canceling an implicature of the initiator, we would expect the response to be marked.
- Are those other places really irrelevant?
- Is there really no exhaustivity implicature?
- (13) A: Where can I buy an Italian newspaper?
 - B: In the little shop around the corner.
 - → and in no other place that I can easily direct you to.



 Natural language quantifiers come with a contextual domain restriction (DR) (e.g., Stanley and Szabó, 2000)

 Natural language quantifiers come with a contextual domain restriction (DR) (e.g., Stanley and Szabó, 2000)

Hypothesis

The domain of quantification in mention-some contexts is restricted to places to which the speaker is easily directed.

 Natural language quantifiers come with a contextual domain restriction (DR) (e.g., Stanley and Szabó, 2000)

Hypothesis

The domain of quantification in mention-some contexts is restricted to places to which the speaker is easily directed.

The presence of such weak exhaustivity implicatures is hard to verify.

 Natural language quantifiers come with a contextual domain restriction (DR) (e.g., Stanley and Szabó, 2000)

Hypothesis

The domain of quantification in mention-some contexts is restricted to places to which the speaker is easily directed.

- The presence of such weak exhaustivity implicatures is hard to verify.
- ▶ However, the hypothesis makes a more dramatic prediction:

 Natural language quantifiers come with a contextual domain restriction (DR) (e.g., Stanley and Szabó, 2000)

Hypothesis

The domain of quantification in mention-some contexts is restricted to places to which the speaker is easily directed.

- The presence of such weak exhaustivity implicatures is hard to verify.
- ▶ However, the hypothesis makes a more dramatic prediction:

Prediction

There exist no mention-some disjunctions.



4□ > 4□ > 4 = > 4 = > = 90

- (14) A: Will your father or mother be home?
 - B: Yes, my father will be home.
 - → my mother will not be home.

Tentative explanation:

But there is a modal 'will' there, over which it is hard for negation to scope.

- (14) A: Will your father or mother be home?
 - B: Yes, my father will be home.
 - → my mother will not be home.

Tentative explanation:

- But there is a modal 'will' there, over which it is hard for negation to scope.
- The exhaustivity implicature is: it is not the case that my mother will be home (but she might be).

- (14) A: Will your father or mother be home?
 - B: Yes, my father will be home.
 - → my mother will not be home.

Tentative explanation:

- But there is a modal 'will' there, over which it is hard for negation to scope.
- The exhaustivity implicature is: it is not the case that my mother will be home (but she might be).
- Without the modal, exhaustivity seems to occur as usual:

- (14) A: Will your father or mother be home?
 - B: Yes, my father will be home.
 - → my mother will not be home.

Tentative explanation:

- But there is a modal 'will' there, over which it is hard for negation to scope.
- The exhaustivity implicature is: it is not the case that my mother will be home (but she might be).
- Without the modal, exhaustivity seems to occur as usual:
- (15) A: Is your father or mother home?
 - B: Yes, my father is home. → my mother is not home.

Structure

Setting the scene

Aims of this talk

Framework: unrestricted inquisitive semantics

Ignorance and possibility

Characterising relevance and goal

Possibility and attentive 'might'

Escape hatches for the existential quantifier

Exhaustivity implicatures

In inquisitive pragmatics

Exhaustivity and focus

Mention-some questions

Conclusion

 Unrestricted inquisitive semantics enables us to capture relevant alternatives, as those that entail the PUD and provide just enough information to maximally strongly resolve it.

- Unrestricted inquisitive semantics enables us to capture relevant alternatives, as those that entail the PUD and provide just enough information to maximally strongly resolve it.
- We used these in deriving:
 - ignorance implicatures and possibility implicatures, without inquisitive/attentive sincerity;
 - exhaustivity implicatures of a response, without competence assumption.

- Unrestricted inquisitive semantics enables us to capture relevant alternatives, as those that entail the PUD and provide just enough information to maximally strongly resolve it.
- We used these in deriving:
 - ignorance implicatures and possibility implicatures, without inquisitive/attentive sincerity;
 - exhaustivity implicatures of a response, without competence assumption.
- We have looked at related topics: 'might', granularity, focus and mention-some questions.