



Faculty of Philosophy General Linguistics

Semantics & Pragmatics SoSe 2022 Lecture 19: Summary Pragmatics

14/07/2022, Christian Bentz



Overview

Q&As

Lecture 14: Discourse Representation Theory I

Lecture 15: Discourse Representation Theory II

Lecture 16: Implicature

Lecture 17: Presupposition

Lecture 18: Speech Acts





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Tutorial 9

In Exercise 1b: "Every elephant likes a deer". There are two different readings: a) Every elephant likes one particular deer, b) Every elephant likes some deer. Can we account for this in DRT?

I'm not sure about the two different readings (the second one seems preferable to me). But yes, in Syntax and Semantics we discussed similar examples like "Some man loves every woman" in the context of *scope ambiguities*. In Standard Predicate Logic this can (arguably) be captured by two different translations:

- (1) $\forall x(Ex \rightarrow \exists y(Dy \land Lxy))$
- (2) $\exists y(Dy \land \forall x(Ex \rightarrow Lxy))$

The DRTs corresponding to these would be (I think):

- (3) $[_1: [_2 x: elephant(x)] (\forall x) [_3 y: deer(y), likes(x,y)]]$
- (4) $[_1 y: deer(y), [_2 x: elephant(x)] (\forall x) [_3: likes(x,y)]]$

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Tutorial 9

In cases like Exercise 1d), do we always have to put the first line of a merge operation?

Yes, please. If I ask you to merge two clauses or sentences, then put the pre-merge DRTs with pointwise union operator in the first line, and the merged outcome in the second line.

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Tutorial 9

In the DRS for the example sentence "Mary did not order a milkshake" (this was an additional example provided in the tutorial), why exactly is "milkshake" in the negated DRS while "Mary" is not?

(5) $[_1 x: Mary(x) \neg [_2 y: milkshake(y), order(x,y)]]$

i.e., what exactly is the definition of what goes in which DRS?

Actually, if you put Mary under [2...], then anaphora resolution couldn't work for a follow up sentence: "She ordered a beer", since x would then not be accessible to the pronoun. Also, putting Mary under the scope of the negation would rather translate into English as "Not Mary ordered a milkshake (but rather John)". Which is (arguably) somewhat different in meaning.

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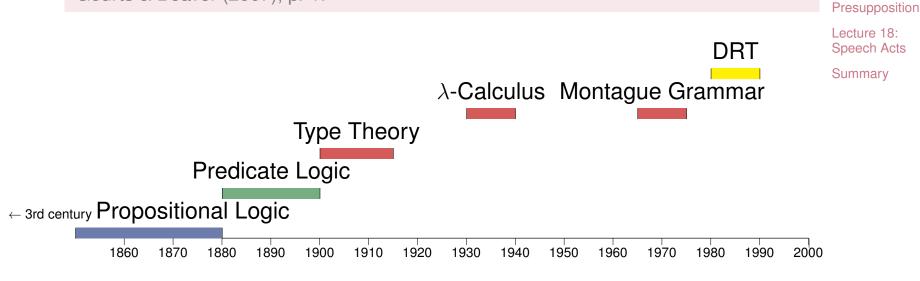




Historical Background

"In the early 1980s, **Discourse Representation Theory** (**DRT**) was introduced by Hans Kamp as a theoretical framework for dealing with issues in the semantics and pragmatics of anaphora and tense (Kamp 1981); a very similar theory was developed independently by Irene Heim (1982)."

Geurts & Beaver (2007), p. 1.



Q&As

Lecture 14:

Discourse Representation

Theory I Lecture 15:

Discourse Representation

Theory II Lecture 16:

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Differences to Classical Formal Semantics

Some **differences** to classical formal semantic frameworks, e.g. standard predicate logic and type-theoretic logic, include:

DRT deals with interpretations not only of individual sentences, but of discourse structures.

 \rightarrow **Discourse** Representation Theory

It is a mentalist and representationalist theory of interpretation of natural language structures, i.e. it aims to explicitly represent in its formulations what is represented in the human mind when interpreting natural language. Q&As

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Summary

 \rightarrow Discourse **Representation** Theory

Geurts & Beaver (2007), p. 1.



Anaphora Resolution

The problem of how hearers are able to "**resolve**" **anaphora**, e.g. to know which **referent (antecedent)** of the discourse a **pronoun (consequent)** is referring back to, has received attention from both syntacticians and semanticists over the course of centuries. It has resisted straightforward explanations.



If Bambi_i gives Maya_j flowers_k she_j will like them_k.

Note: While anaphora resolution across sentences might be considered outside the scope of classical syntax and semantics – as these theories mostly deal with single sentences – the same problems also occur within sentences.

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Discourse Representation Structures

A DRS consists of two major parts:

- 1. a set of discourse referents,
- 2. a set of so-called **DRS-conditions** which capture the information about referents that has accummulated over the discourse.
 - (6) John chased Jumbo.[x, y: John(x), Jumbo(y), chased(x,y)]
 - (7) John chased a donkey.[x, y: John(x), donkey(y), chased(x,y)]
 - (8) A farmer chased a donkey.[x, y: farmer(x), donkey(y), chased(x,y)]

Note: The colon ':' delimits the set of discourse referents from the set of discourse conditions.

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Merging Operation

Beyond single sentences (or parts of sentences) discourse structures can be built also for consecutive sentences by **merging** their DRSs using the \oplus -operator, which is defined as their pointwise union from a set-theoretic perspective.

- (9) A farmer chased a donkey.[x, y: farmer(x), donkey(y), chased(x,y)]
- (10) He caught it.
 [v, w: caught(v, w)]
 Geurts & Beaver (2007), p. 7.

Note: The discourse referents of the second sentence are here underlined to indicate that they are in need of antecedents. Geurts & Beaver (2007) do not further explain according to which rules exactly the underlined discourse referents (v, w) are matched with the discourse referents in the former DRS (x, y). In English, this could be done, for instance, via grammatical gender and/or word order.

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Example

[x, y: farmer(x), donkey(y), chased(x,y)] \oplus [\underline{v} , \underline{w} : caught(v, w)] = [x, y, \underline{v} , \underline{w} : farmer(x), donkey(y), chased(x,y), caught(v, w)] = [x, y, v, w: v=x, w=y, farmer(x), donkey(y), chased(x,y), caught(v,w)] = [x, y: farmer(x), donkey(y), chased(x,y), caught(x,y)]

- The first line is just the original DRSs connected with the ⊕-operator.
- In the the second line, all discourse referents which are not already represented in the former DRS are added to the set of discourse referents, and likewise for the discourse conditions (pointwise union).
- In the third line, discourse conditions are added (equations) to model the mapping of antecedents to consequents.
- In the last line, these are then "resolved", i.e. replaced by the original discourse referents x and y.

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Complex DRS Conditions: Negation

The above example deals with **simple, i.e. non-embedded DRS conditions**. However, there are various natural language scenarios that require more **complex DRS conditions**, i.e. **embedded** DRS conditions. One such example is **negation**.

- (11) John doesn't have a donkey.
 [1 x: John(x), ¬[₂ y: donkey(y), owns(x,y)]]
- (12) It is grey.
 [<u>z</u>: grey(z)]
 Geurts & Beaver (2007), p. 7-8.

Note: The negation here scopes over *owns a donkey*, not over *John*. This scope is reflected in the embedded DRS.

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Complex DRS Conditions: Conditionals

Similar to negation, **conditionals (material implication)** also gives rise to complex, i.e. embedded DRS structures.

(13) If John owns a donkey, he likes it. $[_1: [_2 x, y: John(x), donkey(y), owns(x,y)] \rightarrow [_3 v, w: likes(v,w)]]$

Note: Geurts & Beaver (2007), p. 8 put John(x) outside of [2...]. However, it is unclear why John(x) would not belong to the antecedent of the conditional. In fact, Kamp (2016), p. 13 puts it inside [2...]. We follow Kamp (2016) here. As to accessibility: The discourse referents x and y are accessible to v and w as before in the case of the conditional.

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Lecture 15: Discourse Representation Theory II



Formal Definition

"DRSs are **set-theoretic objects** built from **discourse referents** [the set *U*] and **DRS-conditions** [the set *Con*]."

- (i) A DRS *K* is a pair $\langle U_K, Con_K \rangle$, where U_K is a set of discourse referents, and Con_K is a set of DRS-conditions.
- (ii) If *P* is an n-place predicate, and x_1, \ldots, x_n are discourse referents,¹ then $P(x_1, \ldots, x_n)$ is a DRS condition.
- (iii) If x and y are discourse referents, then x=y is a DRS-condition.
- (iv) If K and K' are DRSs, then $\neg K$, $K \rightarrow K'$, and $K \vee K'$ are DRS-conditions.²
- (v) If *K* and *K'* are DRSs and *x* is a discourse referent, then $K(\forall x)K'$ is a DRS-condition.

Geurts & Beaver (2007), p. 12.

¹In the actual examples, Geurts & Beaver (2007) do not use variable *x* with indeces but rather x, y, z, etc.

²Kamp (1995, p. 149) states that "the DRS language in which the only complex conditions are of the form \neg K has the expressive power of the full predicate calculus." This means, in a strict sense, we would not have to define any of the other operators.

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Clause (i): DRS Basic Structure

- (i) A DRS K is a pair (U_K, Con_K), where U_K is a set of discourse referents, and Con_K is a set of DRS-conditions.
- (14) John chased Jumbo.[x, y: John(x), Jumbo(y), chased(x,y)]
- (15) John chased a donkey.[x, y: John(x), donkey(y), chased(x,y)]
- (16) A farmer chased a donkey.[x, y: farmer(x), donkey(y), chased(x,y)]
- (17) John doesn't have a donkey. $[_1 \times : John(x), \neg [_2 y: donkey(y), owns(x,y)]]$

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Clause (iv): Complex Conditions

(iv) If K and K' are DRSs, then $\neg K$, $K \rightarrow K'$, and $K \lor K'$ are DRS-conditions.

- (18) John doesn't own a donkey. $[_1 x: John(x), \neg [_2 y: donkey(y), owns(x,y)]]$
- (19) If John owns a donkey, he likes it. $[_1 : [_2 x, y: John(x), donkey(y), owns(x,y)] \rightarrow [_3 : likes(x,y)]]$
- (20) John owns a donkey or a horse. $[_1 x: John(x), [_2 y: donkey(y), owns(x,y)] \vee [_3 : horse(y), owns(x,y)]]$

Note: In the last example involving disjunction, we follow Simons (1996), p. 251, who argues to deal with disjunction by assuming *just one entity* y which is either a donkey or a horse. Also, *John(x)* here has to be *outside* of the two DRSs connected by disjunction.

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Clause (v): Quantification

(v) If K and K' are DRSs and x is a discourse referent, then $K(\forall x)K'$ is a DRS-condition.

- (21) Every farmer who owns a donkey, likes it. $[_1 : [_2 x, y: farmer(x), donkey(y), owns(x,y)] (\forall x) [_3 : likes(x,y)]]$
- (22) Some farmer who owns a donkey, likes it. $[_1 : [_2 x, y: farmer(x), donkey(y), owns(x,y)] (\exists x) [_3 : likes(x,y)]]$

Note: While in clause (v) Geurts & Beaver (2007) only define the case of the universal quantifier, at another point they state: "[...] a condition of the form K(Qx)K', where Q may be any quantifier [...]", which suggests that the same definition holds for the existential quantifier.

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Merging of DRSs

Given the set-theoretic definition of DRSs, **merging** of two (or more) DRSs (here K and K') is defined as their **pointwise union** (\oplus) such that we have

$$K \oplus K' = \langle U_K \cup U_{K'}, Con_K \cup Con_{K'} \rangle.$$

(23) A farmer chased a donkey. He caught it. [x, y: farmer(x), donkey(y), chased(x,y)] \oplus [\underline{v} , \underline{w} : caught(v, w)] = [x, y, \underline{v} , \underline{w} : farmer(x), donkey(y), chased(x,y), caught(v,w)]; such that $U_{K} \cup U_{K'} = \{x, y, v, w\}$

 $Con_{K} \cup Con_{K'} = \{farmer(x), donkey(y), chased(x,y), caught(v,w)\}$

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Discourse
Representation
Theory II
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(1)

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Merging of DRSs

The way merging is defined in DRT it follows that there is "no principled distinction between (clausal) conjunction and sentence concatenation." Therefore, in the syntax of the DRT language, we do not need a definition involving logical "and" (\wedge).

Geurts & Beaver (2007), p. 12.

- (24) A farmer chased a donkey. He caught it.
- (25) A farmer chased a donkey **and** he caught it.

Both natural language sentences are equally represented by the DRSs repeated from above:

(26) $[x, y: farmer(x), donkey(y), chased(x,y)] \oplus [\underline{v}, \underline{w}: caught(v, w)] = [x, y, \underline{v}, \underline{w}: farmer(x), donkey(y), chased(x,y), caught(v,w)]$

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Accessibility: Formal Definition

"Accessibility is a relation between DRSs that is transitive³ and reflexive,⁴ i.e. it is a preorder. More in particular, it is the smallest preorder for which the following holds, for all DRSs K, K', and K'': if Con_K contains a condition of the form ...

- ▶ $\neg K'$, then K is accessible to K',
- $K' \vee K''$, then K is accessible to K' and K'',⁵
- ▶ $K' \rightarrow K''$, then K is accessible to K' and K' is accessible to K'',
- ► $K'(\forall x)K''$, then K is accessible to K' and K' is accessible to K''."

Geurts & Beaver (2007), p. 13.

³If a DRS *K* is accessible to K', and K' is accessible to K'', then *K* is also accessible to K'', but not the other way around.

⁴Every DRS is accessible to itself.

⁵But note that in this particular case of logical "or", K' is not accessible to K''.

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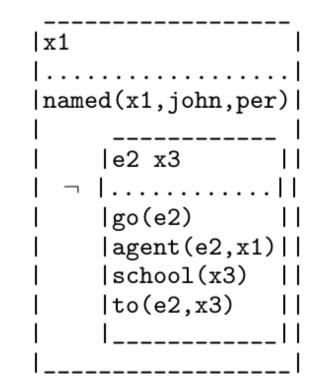


DRT Implementation

"Boxer is a semantic parser for English texts with many input and output possibilities, and various ways to perform meaning analysis based on **Discourse Representation Theory**. This involves the various ways that meaning representations can be computed, as well as their possible semantic ingredients."

Bos (2015). Open-domain semantic parsing with Boxer.

John did not go to school .



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Lecture 16: Implicature

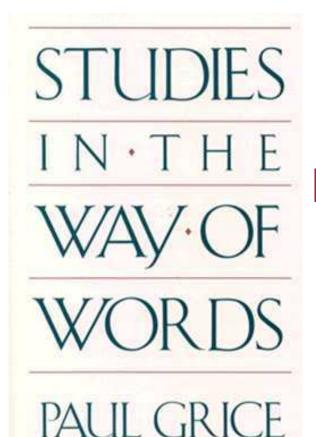


Historical Overview

Grice, Paul (1975). *Studies in the way of words.* Cambridge, Massachusetts: Harvard University Press.

"[...] while it is no doubt true that the formal devices [of formal semantic frameworks] are especially amenable to systematic treatment by the logician, it remains the case that there are very many **inferences and arguments, expressed in natural language and not in terms of these devices, which are nevertheless valid**. [...] I shall therefore inquire into the general conditions that, in one way or another, apply to conversation as such [...]"

Grice (1975), p. 23-24.



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Grice's Maxims

- (5) The Cooperative Principle (Grice 1975: 45) Make your conversational contribution such as is required, at the stage at which it occurs, by the accepted purpose or direction of the talk exchange in which you are engaged.
- (6) The Maxims of Conversation (Grice 1975: 45–46)

QUALITY: Try to make your contribution one that is true.

1. Do not say what you believe to be false.

2. Do not say that for which you lack adequate evidence. QUANTITY:

1. Make your contribution as informative as is required

(for the current purposes of the exchange).

2. Do not make your contribution more informative than is required.

RELATION (or RELEVANCE): Be relevant.

MANNER: Be perspicuous.

1. Avoid obscurity of expression.

2. Avoid ambiguity.

3. Be brief (avoid unnecessary prolixity).

4. Be orderly.

Kroeger (2019), p. 142.

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Failure to Fulfill a Maxim

There are different ways in which a participant of a communicative interaction might fail to fullfill a given maxim:

- They might quietly violate a maxim; in some cases, they will be liable to mislead.
- They might opt out from adhering to either the maxim, or the cooperation principle more generally (or both).
- They might be faced by a clash, i.e. it is impossible to adhere to one maxim without not adhering to another, e.g. a clash between Quality and Quantity.
- They might flout a maxim, that is obviously failing to fulfill it. If none of the above ways of failure to fulfill a maxim seems relevant, the hearer has to take this last possibility into account.

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Summary

Grice (1975), p. 30.



Conversational Implicature

Conversational implicatures are a type of *pragmatic inference* about *what is said* by the speaker (literal meaning) in relation to what they actually *intend to convey* (communicative intention).

(27) A: Can you tell me where the post office is?B: I'm a stranger here myself.

Pragmatic inference by A:

- I assume that B is participating in a rational conversation, i.e. adhering to the cooperative principle and the maxims (if possible).
- B seems to be violating the maxim of relevance.
- I assume we both know (it is part of our common ground) that strangers are unlikely to know the locations of particular places.
- I come to the pragmatic inference that the conversational implicature of B's statement is a more polite way of saying: "No, I cannot."

Kroeger (2019), p. 143.

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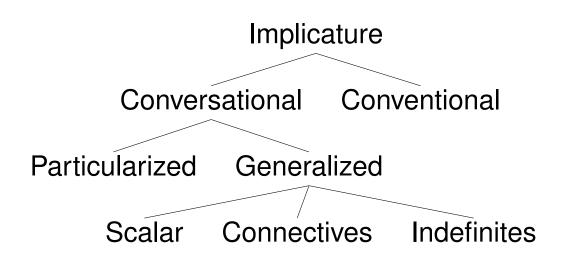
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Types of Implicature

The following types of implicature are discussed in Kroeger (2019), p. 146-147.



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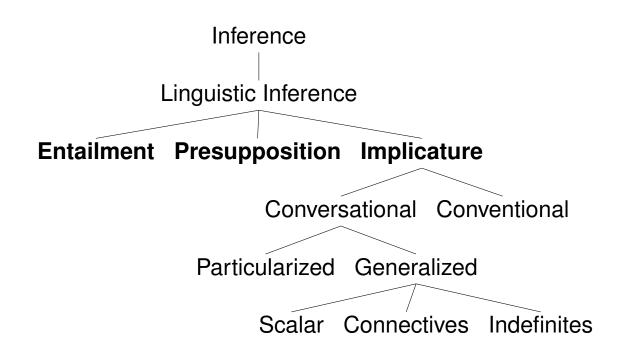
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Entailment, Presupposition, and Implicature

Given that we have established the difference between linguistic and non-linguistic inferences, **implicature** is one of several possible **linguistic inferences**. The others we will discuss are **entailment** and **presupposition**.



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Entailment

"Entailment is a type of [linguistic] inference. We say that proposition p "entails" proposition q if p being true **makes it certain** that q is true as well."

Entailments thus require that:

- 1. whenever *p* is true, it is logically necessary that *q* is also true;
- 2. whenever *q* is false, it is logically necessary that *p* is also false;
- 3. these relations follow from the meanings of *p* and *q*, independent of the context of utterance.

Kroeger (2019), p. 36-38.

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Criteria and Tests

In the following, we establish a **battery of overall five tests**, which can be used to distinguish entailments from implicatures (and presuppositions in the next step).

Kroeger (2019), p. 151 pp.

	Entailment	Conversational Implicature ⁶
a. Cancellable ⁷	NO	YES
b. Suspendable	NO	YES
c. Reinforceable	NO	YES
d. Negation	NO	NO
e. Question	NO	NO

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Summary

⁶Note that here only *conversational implicature* is included, as it is unclear whether conventional implicatures will behave the same, or whether these would rather fall with presuppositions.

⁷Also called *defeasible*.

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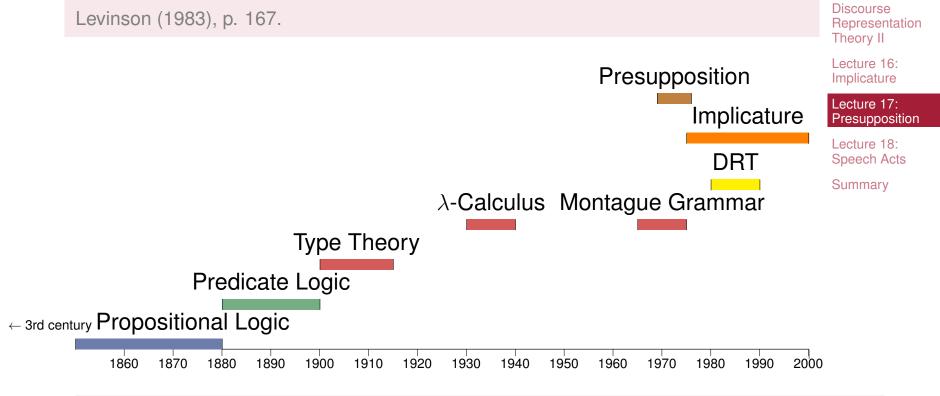
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Lecture 17: Presupposition



Historical Background

"[...] There is more literature on presupposition than on almost any other topic in pragmatics. [...] The volume of work is in part accounted for by a **long tradition of philosophical interest** [...] In addition presupposition was a **focal area in linguistic theory during the period 1969-76**, because it raised substantial problems for almost all kinds of (generative) linguistic theories [...]"



Q&As

Lecture 14: Discourse

Theory I

Lecture 15:

Representation



Frege's View on Presupposition

"If anything is asserted there is always an obvious presupposition⁸ that the **simple or compound proper names used have a reference**. If one asserts 'Kepler died in misery', there is a presupposition that the name 'Kepler' designates something."

Levinson (1983), p. 169 citing Frege (1892), p. 69.

- (28) Kepler died in misery. PRESUPPOSITION: The name 'Kepler' denotes an individual.
- (29) Kepler did *not* die in misery. PRESUPPOSITION: The name 'Kepler' denotes an individual.
- (30) *After* the separation of Schleswig-Holstein from Denmark, ... PRESUPPOSITION: Schleswig-Holstein separated from Denmark.

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⁸Frege used the German term *Voraussetzung* here.



Formal Definition

"A statement A presupposes a statement B iff:(i) if A is true, then B is true,(ii) if A is false, then D is fatill true,"

(ii) if A is false, then B is [still] true."

Levinson (1983), p. 175, citing Strawson (1952).

- (31) Statement A: Kepler died in misery. PRESUPPOSITION B: The name 'Kepler' denotes an individual.
- (32) Statement $\neg A$: Kepler did *not* die in misery. PRESUPPOSITION B: The name 'Kepler' denotes an individual.

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Presupposition Triggers

Over the years, a large number of presupposition triggers have been identified (for English). These include but are not limited to:

- (a) Definite descriptions:
 - definite noun phrases
 - possessive phrases
 - restrictive relative clauses
- (b) Factive predicates
- Implicative predicates (C)
- (d) Aspecutal predicates
- Temporal clauses (e)
- Counterfactuals (f)
- Comparisons (g)
- (h) (Scalar terms)

Kroeger (2019), p. 43.

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Tests: Presuppositions

The tests relevant to distinguish entailments and conversational implicatures from presuppositions are mainly the *Negation* and the *Question Test*.

Kroeger (2019), p. 152.

	Entailment	Conversational Implicature	Presupposition
a. Cancellable	NO	YES	sometimes ⁹
b. Suspendable	NO	YES	sometimes
c. Reinforceable	NO	YES	NO
d. Negation	NO	NO	YES
e. Question	NO	NO	YES

⁹According to Kroeger (2019), p. 152, some presuppositions seem to be cancellable, "but only if the clause containing the trigger is negated. Presuppositions triggered by positive statements are generally not cancellable."

Q&As

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The Negation-Test

If the inference is **preserved under negation**, then it is said to pass the negation test.

- (33) John did *not* kill the wasp.INFERENCE: #The wasp died.(preserved under negation: NO)
- (34) B: There is *no* garage around the corner.
 INFERENCE: #You can buy petrol there.
 (preserved under negation: NO)
- (35) John does not regret that he lied.INFERENCE: John lied.(preserved under negation: YES)

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Test Summary

We then summarize the test results for each inference and compare it to the test-template (in the table above) to decide if it falls in either category.

- John killed the wasp. (36) INFERENCE: The wasp died.
 - cancellable: NO suspendable: NO reinforceable: NO preserved under negation: NO preserved in guestion: NO
 - \rightarrow entailment

(37) A: I ran out of petrol. B: There is a garage around the corner. INFERENCE: One can buy petrol there.

> cancellable: YES suspendable: YES reinforceable: YES preserved under negation: NO preserved in question: NO

 \rightarrow conversational implicature

John regrets that he lied. (38) INFERENCE: John lied.

> cancellable: NO suspendable: NO? reinforceable: NO preserved under negation: YES preserved in question: YES

 \rightarrow presupposition

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Lecture 18: Speech Acts



Historical Overview

"It was for too long the assumption of philosophers that the business of a 'statement' can only be to 'describe' some state of affairs, or to 'state some fact', which it must do either truly or falsely. Grammarians, indeed, have regularly pointed out that not all 'sentences' are (used in making) statements: there are, traditionally, besides (grammarians') statements, also questions and exclamations, and sentences expressing commands or wishes or concessions."

Austin (1962), p. 1.



OXFORD At the clarendon press 1962

J. L. AUSTIN

HOW TO DO THINGS

WITH WORDS

The William James Lectures

delivered at Harvard University

in 1955

Q&As

Lecture 14: Discourse Representation Theory I

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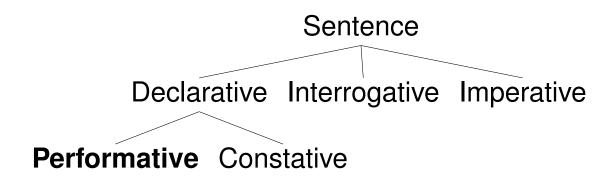
Lecture 18: Speech Acts





Performatives

Even if we stay in the domain of *declarative sentences*, there are certain sentences for which we cannot straightforwardly assign a truth value. They are not just used to say something about the world, but to actually do something, i.e. actively change the world. This type of declaratives is called **performatives** by Austin (1962).



Q&As

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Performatives: Examples

Austin's own examples:

- (39) 'I do (take this woman to be my lawful wedded wife)' as uttered in the course of the marriage ceremony.
- (40) 'I name this ship the *Queen Elizabeth*' as uttered when smashing the bottle against the stem.
- (41) 'I give and bequeath my watch to my brother' as occurring in a will.
- (42) 'I bet you sixpence it will rain tomorrow.'

Austin (1962), p. 5.

Further examples:

- (43) I hereby sentence you to 10 years in prison.
- (44) I now pronounce you man and wife.
- (45) I declare this meeting adjourned.

Kroeger (2019), p. 181.

Q&As

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Three Parts of Speech Acts

According to Austin, there are three major subparts when performing a speech act:

- 1. Locutionary Act: The act of performing an utterance (phonetically and grammatically).
- 2. **Illocutionary Act**: The act of performing a *statement*, *question*, *command*, etc. by means of its conventional *force* (i.e. what is the locutionary act used for?)
- 3. **Perlocutionary Act**: The act of effecting the audience in a particular way.

Note: The Latin word *locutio* can mean "speech, speaking, phrase, pronunciation" (https://en.pons.com/translate/latin-german/locutio).

Q&As

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- Summary



Example

Q&As (46)A to B: You can't do that. Lecture 14: Discourse Representation SPEECH ACT performed by A: Theory I LOCUTIONARY ACT: Production and pronunciation of the above Lecture 15: Discourse sentence (in speech, writing or sign), given knowledge of the Representation Theory II vocabulary and grammar of English, and the referent of you.¹⁰ Lecture 16: Implicature ILLOCUTIONARY ACT: Protest against B doing sth., commanding Lecture 17: B not to do sth.¹¹ Presupposition Lecture 18: PERLOCUTIONARY ACT: Stopping B, Annoying B, etc.¹² **Speech Acts** Summary

Austin (1962), p. 102.

¹⁰Austin would paraphrases this as "He said to me ...".

¹¹Austin would paraphrase this as "He protested against my doing it".

¹²Austin would paraphrase this as "He stopped me, annoyed me, etc. ...".



Speech Acts

"We are attuned in everyday conversation not primarily to the sentences we utter to one another, but to the **speech acts** that those utterances are used to perform: *requests*, *warnings*, *invitations*, *promises*, *apologies*, *predictions*, and the like."

Green (2017).



Note: This distinction between *types of sentences* and *types of illocutionary forces/ speech acts* is mostly not strictly adhered to. This is apparent also in Kroeger (2019), p. 181: "Austin called this special class of declarative sentences performatives. He argued that we need to recognize performatives as a new class of speech acts [...] in addition to the commonly recognized speech acts such as statements, questions, and commands.

Q&As

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Direct Speech Act

We have a **direct speech act** if the type of sentence (grammatical form) **matches the type of illocutionary force** (according to general expectation).

Declarative ·	→• Statement
Interrogative	→• Question
Imperative	→· Command

Q&As

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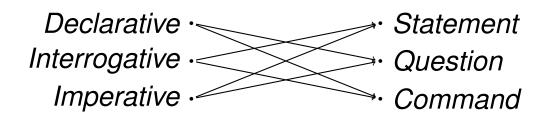
Lecture 18: Speech Acts



Indirect Speech Act

"We might define an **indirect speech act** (following Searle 1975) as an utterance in which one illocutionary act (the **primary act**) is intentionally performed by means of the performance of another act (the **literal act**). In other words, it is an utterance whose **form does not reflect the intended illocutionary force**."

Kroeger (2019), p. 186.



Q&As

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Examples: Indirect Speech Acts

- (47) I want you to leave now. (Declarative) ILLOCUTIONARY FORCE: Giving a command.
- (48) I would like to have a cup of tea, please. (Declarative) ILLOCUTIONARY FORCE: Request for tea.
- (49) Can you pass me the salt? (Interrogative) ILLOCUTIONARY FORCE: Command (rather than request for information).
- (50) Isn't this a beautiful day? (Interrogative)
 ILLOCUTIONARY FORCE: Statement (i.e. rhetorical question, which is not necessarily a request for information).
- (51) Tell me the way to the train station! (Imperative) ILLOCUTIONARY FORCE: Request for Information/Question.
- (52) Look how blue the sky is! (Imperative) ILLOCUTIONARY FORCE: Statement.¹³

¹³Thanks to Tanja Heck for the last two examples.

Q&As

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Formal Semantics

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Natural Language	(M)PL	FOL	SOL	TL	Q&As
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	John smokes. John smokes and drinks.	p	Sj Sj ∧ Dj	Sj Sj ∧ Dj	$S(j) \wedge D(j)$	Discourse Representation
every man $_$ $_$ $_$ $_$ $_$ \bot <td>Every man walks. Red is a color.</td> <td>-</td> <td>$\forall x(Mx \to Wx)$</td> <td>$\forall x(Mx \rightarrow Wx)$</td> <td>orall x(M(x) o W(x)) $\mathcal{C}(R)$</td> <td>Discourse Representation</td>	Every man walks. Red is a color.	-	$\forall x(Mx \to Wx)$	$\forall x(Mx \rightarrow Wx)$	orall x(M(x) o W(x)) $\mathcal{C}(R)$	Discourse Representation
is $ \sum_{n=1}^{\infty} \sum_{n=1}^{\infty} \lambda X(\lambda x(X(x))) $ Presupposition John probably smokes $\Diamond p$ Lecture 18: John necessarily smokes $\Box p$	every man	_ _	_	_	$\lambda X(\forall x(M(x) \rightarrow X(x)))$	Implicature
John probably smokes \Diamond p John necessarily smokes \Box p	5	_ _	_	_		Presupposition
		• •				

(M)PL: (Modal) Propositional Logic FOL: First-Order Predicate Logic SOL: Second-Order Predicate Logic TL: Typed Logic (Higher-Order) with λ -calculus



Pragmatics

Natural Language

DRT

John smokes. He drinks as well.

 $[x: John(x), smoke(x)] \oplus [\underline{v}: drink(v)]$

Natural Language	Inference	Canc.	Susp.	Reinf.	Neg.	Que.	Туре	Lecture 15:
John killed the wasp. John crashed his car. He is so smart. Before John started to smoke, he just	The wasp died. He is not smart at all. John smokes.	X √ X	× (√) ×	x √ x	X X √	x x √	Entailment Implicature Presupposition	Discourse Representation Theory II
drank. DRT: Discourse Representation Theor	A.							Lecture 16: Implicature
Diff. Discourse nepresentation medi	y							Lecture 17: Presupposition

Lecture 18: Speech Acts

Q&As

Lecture 14: Discourse

Representation Theory I



Thank You.

Contact:

Faculty of Philosophy General Linguistics Dr. Christian Bentz SFS Wilhelmstraße 19-23, Room 1.24 chris@christianbentz.de Office hours: During term: Wednesdays 10-11am Out of term: arrange via e-mail