

Main Claims				
 In order to understand natural language utterance of discourse moves and the link between conventionally establish a There are particles that conventionally establish a <i>Then</i> is such a particle: it establishes an anaphor 				
The data: Then in conditionals and ac				
Then in conditionals				
Conditionals that accept then				
(1) Well, if you finished your homework, then you can				
Conditionals that do not accept then				
 Even if Smith is dead, (#then) the Sheriff wants him Whether Smith is dead or alive, (#then) the Sheriff If you are hungry, (#then) there is pizza in the fridge 				
Observation: Then is not possible if the antecedent explain (4)).				
Then across discourse (Sample of sequences)				
(5) Assertion - Imperative (
A: I'm cold.B: Then put on a sweater!				
(6) Question - Assertion (
 A: What does "lambda" mean? B: Then you didn't understand the lecture. 				
Observation: The presence of then signals that (dispresence).				
Previous proposals: Then in conditio				

latridou (1994) and von Fintel (1994): The meaning contribution of *then* explains the infelicity in (2)–(4)

- in which q is not true
- von Fintel (1994): then triggers a conventional implicature that only the p worlds are q worlds.

Some empirical problems

(9)incredible as it sounds, if I take the Taco Bell job, then I also start at 7:00 a.m.

The speaker is not assuming that there are alternatives to taking the job at Taco Bell in which (s)he does not start at 7:00

If Jim had asked Jack for help, then there would (have to) have been no quarrel yesterday. (10)

(10) does not convey that only the situations in which Jim asked Jack for help are situations in which there was no quarrel

Selected References

von Fintel, Kai. 1994. Restrictions on quantifier domains. Doctoral Dissertation, University of Massachusetts Amherst. Gunlogson, Christine. 2008. A question of commitment. *Belgian Journal of Linguistics* 22:101–136. Heim, Irene. 1992. Presupposition Projection and the Semantics of Attitude Verbs. Journal of Semantics 9:183-221. latridou, Sabine. 1994. On the contribution of conditional then. Natural Language Semantics 2:171–199.

The grammar of discourse: The case of then

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Proposal

Proposal at a glance

- Then contributes (non-truth-conditional) meaning: Then is a discourse marker.
- The same *then* is present in conditionals and across discourse. • In conditionals there are two layers of modal relations.
- Then signals that the utterance of the embedded clause is motivated by information gained from the previous discourse move (that information is the *antecedent*).
- The utterance of a *then*-clause leads the hearer to reconstruct
 - what the speaker learned from the previous discourse move and
 - the (modal) relation it bears to the information gained from the *then*-clause (the consequent).

Implementation

- Discourse move: A discourse move M_i is the utterance of a sentence structure syntactically headed by a force operator: $[_{A}[S]]$; $[_{Q}[S]]$ or $[_{Imp}[S]]$.
- **Commitment slate:** (based on Gunlogson 2008) $cos_{B,M_n} = \{p : B \text{ commits to } p \text{ after } M_n\}$ Information gain: $I_{B,M_i} = \{p : p \in cos_{B,M_i} \& p \notin cos_{B,M_{i-1}}\}$, where M_{i-1} is the move immediately preceding M_i and cos_{B,M_i} is B's commitment slate after M_i .

Then

	Then "coordinates" a conditional-like relation at the leve			
 The antecedent "explains" the consequent 				

(11)Let g be an assignment function, P and MB Kratzer-style conversational backgrounds, s_{0} the utterance situation, and $Max_{P(s_{\odot})}(X)$ the P-best situations in a set of worlds X,

> $[[_{CP} \text{ Then } [M_{i+1}]]]^g(s_{@}) = [[M_{i+1}]](s_{@}), \text{ defined only if }$ $\forall s \in \mathsf{MAX}_{P(s_{\textcircled{a}})}([\cap \mathsf{MB}(s_{\textcircled{a}})] \cap g(i)), \ g(i+1)(s) = 1$ Where for any discourse move M_j , $g(j) \in I_{A,M_j}$ and A utters the *then*-clause.

- The meaning of *then* appeals to *discourse moves*.
- Then imposes felicity-conditions on the relation between two propositions identified by the assignment g (a Kratzer-style conditional relation)

se s	studies		(13)	$I_{B, M_1} = \{$
2) A E	A: I'm cold.B: Then put on a sweater.	$\begin{bmatrix} M_1 \\ M_2 \end{bmatrix}$		$cs_{B,M_2} = \{$ sweat $I_{B,M_2} = \{$

By uttering the then-clause, B implicitly committed to the fact that A wanted to be warmer (not just to that A is cold), and stated that the best situation in which A is warmer are situations in which A puts on a sweater (bouletic modality).

4) If there is light in John's room, then he	(15)	$I_{B, M_1} =$
is home.		$cs_{B,M_2} =$
pired by Heim (1992):		John
		-

There is light in John's room. $[M_1]$ $[M_2]$ home John is home.

The presence of *then* adds that it is *because* the antecedent is true (or assumed to be true), that the consequent is true: then signals that the utterance of the consequent is motivated by the information gained from the antecedent.

Predictions

When are *then*-clauses infelicitously uttered?

- Out of the blue: *Then* needs an antecedent.
- When the antecedent and the consequent are orthogonal: the antecedent doesn't provide an explanation.
- When it is not possible to identify an antecedent and a consequent standing in a modal relation.





l of discourse.

A is cold; A wants to be warmer} A is cold; A wants to be warmer; A putting on a ter makes him warmer }

A putting on a sweater makes him warmer }

There is light in John's room

{There is light in John's room; that there is light in 's room indicates that he is home }

 $I_{B, M_2} = \{$ that there is light in John's room indicates that he is