

# A DISCOURSE-SENSITIVE INTENSIONAL SEMANTICS FOR TEMPORAL JUST

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# ABSTRACT

English *just* is highly polysemous (e.g., Cohen 1969, Lee 1987, Lee 1991, Kishner & Gibbs 1996, Aijmer 2005). The temporal use of *just* has been studied less, particularly its context-sensitivity, and has not been formalized. Here I present a unified approach to the semantics of temporal *just*, drawing on Lappin's (2000) intensional semantics for vague quantifiers.

## MOTIVATION

- Previous approaches to temporal just tend to characterize it in terms of temporal immediacy
- As with some analyses of similar lexical items in other languages, e.g., Aonuki's (2021) analysis of Gitksan
- Typically operationalized by having *just* locate the eventuality (time) immediately prior to evaluation, reference, or utterance time.
- This type of analysis does not account for the vagueness or contextdependence seen in temporal *just*
- Bourdin (2017) has probably the most extensive discussion of temporal just
  - An interval associated with the event partially overlaps one associated with the RT
  - Includes the concept of relevance of the eventuality to the discourse (but not formalized)
- Bochnak & Klecha (2018): Temporal remoteness morphemes in Luganda
  - Presupposition that involves a contextual standard
  - Similar in spirit to the current analysis but less detailed

## • Take-away from this analysis:

- The semantic contribution is indeed temporal recency, but what constitutes recency is determined relative to a norm
- Formalized with normative situations (after Lappin (2000)

# DATA

- Temporal *just* with the simple past is seen in situations where the containing sentence is being used as an explanation, as in (1-3):
- (1) No thank you, I just ate. [As a response to an offer of food]
- (2) Don't get on his case about not having a job yet, he **just** graduated.
- (3) She just had the baby; you can't expect her to be back to work yet.
- Temporal just also appears in situations that may be less explanatory, but have some sort of newsworthy quality (and share the "relevantly recent" characteristic)

(4) [At a surprise party] She just pulled up!
(5) [On the phone] I just totaled my car, can you come get me?
(6) [Sitting down with a friend at coffee] I just saw the best movie.

- Previous analyses predict that the recency in these cases will be uniform, or do not specify how the lack of uniformity is determined
- As is clear from (1-6), the recency encoded with *just* is not absolute
   Trying to capture this with literal immediacy (ET abutting RT/now) will fail in all but a very small number of cases
  - These situations involve norms specific to the situation (posteating, post-graduation, post-baby)

# FORMALIZING TEMPORAL JUST

- First, the temporal part of the denotation of temporal just:
- (7) =  $[|t'_{init} \tau(e)_{final}| \le \varepsilon_c]$
- Where t' is reference time and  $\epsilon_{c}$  is a small quantity whose value is determined by the context. How?
- We need a way to reference not just world knowledge (an unspecified norm) but a set of normative situations—a comparison set
- Lappin (2000) provides an intensional parametric account of quantifiers that captures the kinds of situation-dependent meaning present in words like *few* and *many*
- Lappin arrives at the meaning of e.g. *many* by comparing the 'actual situation' *sa* to the set of normative situations (*sn*), S
- Let ε<sub>c</sub> be defined (where *i* is an interval of time) as follows:

## (8) $|i^{sa}| \le \varepsilon_c$ iff $S \ne \emptyset$ , and for every $sn \in S$ , $|i^{sa}| \le |i^{sn}|$

- That is: an actual interval is shorter than  $\epsilon_c$  if and only if its value is less than or equal to the size of the interval in any normative situation in the set of relevant normative situations
- We can follow Lapin and define the normative interval with respect to an average, taking the average to be a standard of expectation.

## (9) $\operatorname{sn}_{xy}$ : $| t_y^{sn} - t_x^{sn} | \cong k$ , where k = average { $| t_y^{s} - t_x^{s} |$ }

- That is, the normative x-y situation is that the length of time between doing x and doing y is approximately equal to the average length of time between doing x and doing y in the set of relevant normative situations.
- So e.g., the normative situation for getting a job after graduation is that it takes about an average amount of time to do so
- The selection of the set of normative situations allows us to account for both the explanatory and the more "newsworthy" uses
  - In (1), S contains pairs of eating and getting hungry again
  - In (4), S contains pairs of someone arriving and entering a house

- (10) [Colleagues approach each other] A: Did you hear? Jack got fired.B: What? He just won that huge account!
- Here, the normative set contains intervals between someone doing something positive at work and getting fired (typically long). Surprise is expressed here using *just* because |isa| is far less than the average.
- Other cases may involve a default average conversational interval of "within a few minutes prior to RT":

(11) [Speaker walks up to a friend] Hey, I just saw Giulia.

• The comparative normative interval(s) here involve the basic expectations surrounding new mention of an event in an out-of-the-blue context. In such cases, the hearer infers from the use of *just* that the eventuality occurred recently enough to apply to the topic at hand (e.g., the hearer was looking for Giulia, or we were just wondering where she was, etc.)

# DISCUSSION

- In contrast to the English perfect, which may get its "present relevance" via a modal presupposition (Portner 2003), the apparent particular relevance to the QUD that appears with *just* falls out of the normative analysis: making a statement with *just* says "and this was recent enough to be relevant" by virtue of its assertion that the eventuality happened a comparatively short time ago
- Furthermore, this analysis predicts
  - Possible differences in speakers' acceptance of just in a given situation ('you didn't just eat, that was 5 hours ago!' 'I only eat twice a day!')
  - The influence of the length or significance of the event on the length of ε<sub>c</sub> s(#I just ate a year ago vs. √I just moved here a year ago)

## FUTURE DIRECTIONS

- Further comparison to other languages' proximal temporal adverbs/morphemes
- Application of this analysis to other related uses of temporal *just*, e.g., with the progressive, *going to, about to*, perfect

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