Semantics of the disjunction in Turkish Alternative Questions

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Alternative questions

- (1) Did John drink tea or coffee? \approx Is it the case that John had a warm beverage? (Yes/no question)
- (2) Did John drink TEA or COFFEE? ≈ Which one of the following did John drink: tea or coffee? (Alternative question)

(3) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or_{A/t}) coffee mI Did Zeynep drink tea or coffee? ≈ Which one of the following did Zeynep drink: tea or coffee?

- (3) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or_{Alt}) coffee mI Did Zeynep drink tea or coffee? ≈ Which one of the following did Zeynep drink: tea or coffee?
- (4) 太郎が コーヒーを 飲んだ か (それとも)
 Taro-ga koohii-o non-da ka (soretomo)
 Taro-NOM coffee-ACC drink-PST KA (or_{Alt})
 お茶を 飲んだ か
 ocha-o non-da ka
 tea-ACC drink-PST KA
 Did Taro drink coffee or tea?

 \approx Which one of the following did Taro drink: coffee or tea? (Uegaki, 2014b)

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Semantics of Questions

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- Questions are denoted by sets of their semantically congruent answers (propositions).
- (5) Does Mary smile? whether Mary smile $= \{\lambda w'. \text{ Mary smiles in } w', \ \lambda w'. \text{ Mary does not smile in } w'\}$

Alternative Questions

- (6) Did Alphonso sing or dance? whether Alphonso danced or sang = $\{\lambda w'$. Alphonso danced in w', $\lambda w'$. Alphonso sang in w' $\}$
- (Han and Romero, 2004, Beck and Kim, 2006, Uegaki, 2014a, Uegaki, 2014b, cf. Guerzoni and Sharvit, 2014, Wu, 2022)
- Exhaustivity and mutual exclusivity (Biezma & Rawlins, 2012)



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- (7) Zeynep çay mı iç-ti (yoksa) Zeynep kahve mi Zeynep tea mI drink-PST (or_{Alt}) Zeynep coffee mI iç-ti?
 drink-PST

Did Zeynep drink tea or did she drink coffee?



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- Bidimensional semantics of questions in Turkish
- The disjuncts are narrow focus questions. Alternatives are introduced by focus.
- Semantically, the AltQ represents a simple set union of the two disjuncts.
- Gricean reasoning limits the alternatives → exhaustivity
- "Sam said TEA or COFFEE. She stated two alternatives explicitly. If there was a third option, she would overtly state it. Therefore, there must be only two options." (Atlamaz, 2023)

Data

(8) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or_{Alt}) coffee mI Did Zeynep drink tea or coffee? ≈ Which one of the following did Zeynep drink: tea or coffee?

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- (9) a. Çay iç-ti. tea drink-PST She drank tea.
 - b. Kahve iç-ti.coffee drink-PSTShe drank coffee.

(10) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or_{Alt}) coffee mI Did Zeynep drink tea or coffee? ≈ Which one of the following did Zeynep drink: tea or coffee?



- (11) a. #İki-sin-i de iç-ti. two-POSS-ACC too drink-PST She drank both.
 - b. #İki-sin-i de iç-me-di.two-POSS-ACC too drink-NEG-PSTShe drank neither.



(12) Context: I believe it's possible that Zeynep speaks both English and Turkish, or either one of them.

```
#Zeynep Türkçe mı bil-iyor (yoksa) İngilizce Zeynep Turkish mI know-PROG (or_{Alt}) English mi? mI
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Does Zeynep speak Turkish or English?

One of the disjuncts must be true (existence)

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- → Does not predict infelicity!



Lexical entry for OR_{Alt} (yoksa)

(13) A
$$\cup_{ex}$$
 B = { $x : [x \in A \text{ or } x \in B] \text{ and } x \notin A \cap B$ }

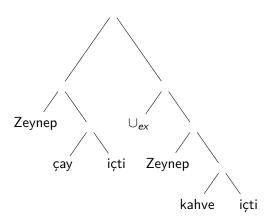
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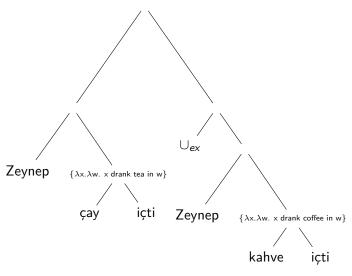


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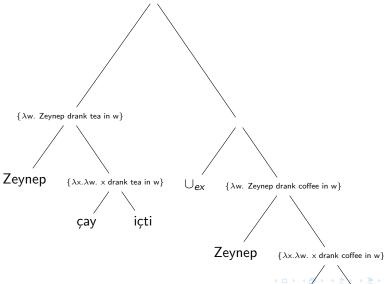
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- (15) $\{p_1\} \cup_{ex} \{p_2\} = \{p : \forall w \in p, [w \in p_1 \text{ or } w \in p_2] \land w \notin p_1 \cap p_2\}$ {Zeynep drinks coffee} $\cup_{ex} \{\text{Zeynep drinks tea}\} = \{p : \forall w \text{ such that } p \text{ is true in } w, [\text{Zeynep drinks coffee in } w \text{ or Zeynep drinks tea in } w]$





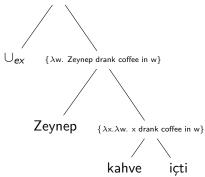








 $\lambda A.\{p: \forall w \in p, [w \in \{\lambda w. Zeynep \text{ drank coffee in } w\} \text{ or } w \in A] \land w \notin \{\lambda w. Zeynep \text{ drank coffee in } w\} \cap A\}$



- $\lambda A.\{p : \forall w \in p, [w \in \{\lambda w.Zeynep drank coffee in w\} or w \in A] \land w \notin \{\lambda w.Zeynep drank coffee in w\} \cap A\}$ ({ $\lambda w.Zeynep drank coffee in w}$)
- $\{p: \forall w \in p, \\ [w \in \{\lambda w. \text{Zeynep drank coffee in } w\} \text{ or } w \in \{\lambda w. \text{Zeynep drank tea in } w\}]$ $\land w \notin \{\lambda w. \text{Zeynep drank coffee in } w\} \cap \{\lambda w. \text{Zeynep drank tea in } w\}\}$

Thank you!



ruveyda.sahyar@std.bogazici.edu.tr https://ruveydatriesstuff.github.io/

- Atlamaz, Ü. (2023). A bidimensional semantics for questions. Zemin, (6). https:
- Beck, S., & Kim, S.-S. (2006). Intervention effects in alternative questions [Publisher: Springer]. Linguistics, 9, 165-208.
- Biezma, M., & Rawlins, K. (2012). Responding to alternative and polar questions. Linguistics
- Göksel, A., & Kerslake, C. (2004). Turkish: A comprehensive grammar (1st ed.).

- Gračanin-Yüksek, M. (2016). Alternative questions in Turkish. Dilbilim Arastırmaları Dergisi,
- Guerzoni, E., & Sharvit, Y. (2014). Whether or not anything but not whether anything or not. In L. Crnič & U. Sauerland (Eds.), The art and craft of semantics: A festschrift MIT Working Papers in Linguistics.
- Hamblin, C. L. (1973). Questions in Montague English [Publisher: Springer]. Foundations of

- Han, C.-h., & Romero, M. (2004). Disjunction, Focus, and Scope. Linguistic Inquiry, 35(2),
- Heim, I., & Kratzer, A. (1998). Semantics in generative grammar. Blackwell.
- Karttunen, L. (1977). Syntax and semantics of questions. Linguistics and Philosophy,
- Uegaki, W. (2014a), Cross-linguistic variation in the derivation of alternative questions: Japanese and beyond [Pages: -274]. MIT
- Uegaki, W. (2014b). Japanese alternative questions are disjunctions of polar questions.
- Proceedings of SALT, 24, 42-62. von Fintel, K., & Heim, I. (2011). Intensional semantics.
- Wu, D. (2022). Why *if or not but √ whether or not. https://doi.org/10.1162/ling a 00410

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 - Optionality of the disjunction head

