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# Semantics of the disjunction in Turkish Alternative Questions

#### Rüveyda Şahyar

#### Boğaziçi University, Department of Linguistics

9th Asian Junior Linguists Conference December 13-15, 2024

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## Alternative questions

- (1) Did John drink tea or coffee?  $\approx$  *ls 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)

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(3) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or<sub>Alt</sub>) coffee mI Did Zeynep drink tea or coffee?
≈ Which one of the following did Zeynep drink: tea or coffee?

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- (3) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or<sub>Alt</sub>) 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<sub>Alt</sub>) お茶を 飲んだ か ocha-o non-da ka tea-ACC drink-PST KA
  Did Taro drink coffee or tea?
  ≈ Which one of the following did Taro drink: coffee or tea? (Uegaki, 2014b)

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Semantics of Questions

## Semantics of Questions

• We will assume the formal semantics framework in Heim and Kratzer, 1998 and von Fintel and Heim, 2011 and adopt Hamblin/Karttunen's semantics of questions.



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Semantics of Questions

## Semantics of Questions

- We will assume the formal semantics framework in Heim and Kratzer, 1998 and von Fintel and Heim, 2011 and adopt Hamblin/Karttunen's semantics of questions.
- Questions are denoted by sets of their semantically congruent answers (propositions).

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Semantics of Questions

## Semantics of Questions

- We will assume the formal semantics framework in Heim and Kratzer, 1998 and von Fintel and Heim, 2011 and adopt Hamblin/Karttunen's semantics of questions.
- Questions are denoted by sets of their semantically congruent answers (propositions).
- (5) Does Mary smile? whether Mary smile = { $\lambda$ w'. Mary smiles in w',  $\lambda$ w'. Mary does not smile in w'}

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Alternative Questions

### Alternative Questions

- (6) Did Alphonso sing or dance? whether Alphonso danced or sang = {λw'. Alphonso danced in w', λw'. 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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Existing analyses

### Gračanin-Yüksek, 2016

• Syntactic analysis of the alternative questions.



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Existing analyses

## Gračanin-Yüksek, 2016

- Syntactic analysis of the alternative questions.
- Both sides of the disjunction are full CPs with elided material.

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References

Existing analyses

## Gračanin-Yüksek, 2016

- Syntactic analysis of the alternative questions.
- Both sides of the disjunction are full CPs with elided material.
- (7) Zeynep çay mi iç-ti (yoksa) Zeynep kahve mi Zeynep tea mI drink-PST (or<sub>Alt</sub>) Zeynep coffee mI iç-ti? drink-PST

Did Zeynep drink tea or did she drink coffee?

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Existing analyses			
Atlamaz, 2023			

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#### • Bidimensional semantics of questions in Turkish

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Existing analyses			
Atlamaz, 2023			

- 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.

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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.

 ${\scriptstyle \bullet}\,$  Gricean reasoning limits the alternatives  $\rightarrow$  exhaustivity

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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.
- ${\scriptstyle \bullet}\,$  Gricean reasoning limits the alternatives  $\rightarrow$  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)

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

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

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

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

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- (10) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or<sub>Alt</sub>) coffee mI Did Zeynep drink tea or coffee?
  ≈ Which one of the following did Zeynep drink: tea or coffee?
- a. #İki-sin-i de iç-ti. two-POSS-ACC too drink-PST
   She drank both.
  - #İki-sin-i de iç-me-di.
     two-POSS-ACC too drink-NEG-PST
     She drank neither.

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#Zeynep Türkçe mı bil-iyor (yoksa) İngilizce Zeynep Turkish mI know-PROG (or $_{A/t}$ ) English mi? mI

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#Zeynep Türkçe mı bil-iyor (yoksa) İngilizce Zeynep Turkish mI know-PROG (or $_{A/t}$ ) English mi? mI

Does Zeynep speak Turkish or English?

• One of the disjuncts must be true (existence)

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#Zeynep Türkçe mı bil-iyor (yoksa) İngilizce Zeynep Turkish mI know-PROG (or  $_{A/t})$  English mi? mI

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- One of the disjuncts must be true (existence)
- Only one of the disjuncts must be true (uniqueness)

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#Zeynep Türkçe mı bil-iyor (yoksa) İngilizce Zeynep Turkish mI know-PROG (or $_{A/t}$ ) English mi? mI

- One of the disjuncts must be true (existence)
- Only one of the disjuncts must be true (uniqueness)
- Exhaustivity under Atlamaz, 2023 covers existence, but does so through implicature.

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#Zeynep Türkçe mı bil-iyor (yoksa) İngilizce Zeynep Turkish mI know-PROG (or $_{A/t}$ ) English mi? mI

- One of the disjuncts must be true (existence)
- Only one of the disjuncts must be true (uniqueness)
- Exhaustivity under Atlamaz, 2023 covers existence, but does so through implicature.
- $\rightarrow$  Does not predict infelicity!

References

## Lexical entry for $OR_{Alt}$ (yoksa)

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



References

## Lexical entry for $OR_{Alt}$ (yoksa)

- (13)  $A \cup_{ex} B = \{x : [x \in A \text{ or } x \in B] \text{ and } x \notin A \cap B\}$
- (14) Zeynep çay mı iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or<sub>Alt</sub>) coffee mI Did Zeynep drink tea or coffee?
  ≈ Which one of the following did Zeynep drink: tea or coffee?

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## Lexical entry for OR<sub>Alt</sub> (yoksa)

- (13) A  $\cup_{ex}$  B = { $x : [x \in A \text{ or } x \in B]$  and  $x \notin A \cap B$ }
- (14) Zeynep çay mi iç-ti (yoksa) kahve mi? Zeynep tea mI drink-PST (or<sub>Alt</sub>) coffee mI Did Zeynep drink tea or coffee?
  ≈ Which one of the following did Zeynep drink: tea or coffee?
- (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}  $\cup_{ex}$  {Zeynep drinks tea} =  $\{p : \forall w \text{ such that } p \text{ is true in } w, [Zeynep drinks coffee in w or Zeynep drinks tea in w] and [Zeynep does not drink coffee and tea in w]$

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References

## Calculation



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## Calculation



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## Calculation



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### Calculation

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



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## Calculation

- λA.{p: ∀w ∈ p, [w ∈ {λw.Zeynep drank coffee in w} or w ∈ A] ∧ w ∉ {λw.Zeynep drank coffee in w} ∩ A} ({λw. Zeynep drank coffee in w})
- {p: ∀w ∈ p, [w ∈ {λw.Zeynep drank coffee in w} or w ∈ {λw.Zeynep drank tea in w}]
   ∧w ∉ {λw.Zeynep drank coffee in w} ∩ {λw.Zeynep drank tea in w}}

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#### ご視聴誠にありがとうございました!

Thank you!



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

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