The cartography of tense, aspect and modality in Turkish

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Introduction

What is the cartography?

Cartographic syntax belongs to <u>Principles and Parameters</u> theory in the generative grammar and basically assumes that all languages have a universal structure of <u>hierarchical projections</u>. Hence, cartography mainly aims to draw the <u>structural maps</u> of the functional categories.

How does the cartography work?

It is assumed that the functional heads are rigidly ordered by transitivity, which is affirmed through a systematic comparison of the order of functional heads.

(1)
$$(A < B) \land (C > B) \Rightarrow (A < C)$$

'A' precedes 'B' AND 'C' follows 'B' SO 'A' precedes 'C'

(2) $X > B \Rightarrow (X > C) \lor (X < C)$ G follows B SO 'X' follows OR precedes 'C'

1. TAM in Turkish

- In the literature, there exist conflicting analysis on tense, aspect and modality in Turkish:
- (3) a. Ali yarın okula gid-**ecek**-miş. Ali tomorrow school.DAT go-FUT-EVI

(Sezer, 2001: 11)

b. Ali eve gid-ecek-ti.Ali home.DAT go-POS-PST

(Uzun, 2004: 160)

Some studies (Erguvanlı-Taylan, 2018; Sezer, 2001; Uzun, 1998) show that TAM in Turkish occurs in an order:

(4) a. Taha eve gel-miş-ti.Taha home.DAT come-mIş-DI'Taha had come home'

b. *Taha eve gel-di-y-miş.Taha home.DAT come-DI-y-mIş

- (5) DI : PST (A) or PER (B) / mIş : EVI (C) or PER (B)
 - a. Ali eve gel-di-y-di (PER < PST) or (PST < PER)

Ali home.DAT come-DI-y-DI

b. Ali eve gel-miş-miş (PER < EVI) or (EVI < PER)

Ali home.DAT come-mIş-mIş

Conclusion: if
$$(B < A)$$
 and $(B < C) \Rightarrow B < (C > A \lor A < C)$

if
$$(A < B)$$
 and $(C < B) \Rightarrow A < (B > C \lor C < B)$

if
$$(B < A)$$
 and $(C < B) \Rightarrow C < A$

if
$$(A < B)$$
 and $(B < C) \Rightarrow A < C$

- (5) DI: PST (A) or PER (B) / mIş: EVI (C) or PER (B)
 - a. Ali eve gel-di-y-di (PER < PST) or (PST < PER)

Ali home.DAT come-DI-y-DI

b. Ali eve gel-miş-miş (PER < EVI) or (EVI < PER)

Ali home.DAT come-mIş-mIş

(4) a. Ali eve gel-miş-ti (PER < PST) or (EVI < PST) or (EVI < PER)

Ali home.DAT come-mIş-y-DI

b. *Ali eve gel-di-y-miş (PST < PER) or (PST < EVI) or (PER < EVI)

Ali home.DAT come-DI-mIş

- (6) DI: PST or PER / mIş: EVI or PERmAlI: OBL or NEC or POS / AbII: POS or ABI
 - a. Ali sınavı geç-ebil-miş ol-malı-y-dı Ali exam.ACC pass-AbIl-mIş AUX-mAlI-y-DI
 - 'Ali should have been able to pass the exam'
 - b. Ali sınavı geç-miş ol-abil-meli-y-diAli exam.ACC pass-mlş AUX-AbIl-mAlI-y-DI'It was a must that Ali might have passed the exam'

2. TAM and Adverbs

Adverbs can be determiner for TAM on the verbs:

(7) a. Taha **çoktan** eve gel-di.

Taha already home.DAT come.PST

b. *Taha çoktan eve gel-ecek-miş.Taha already home.DAT come.POS.EVI

c. *Taha **çoktan** eve gel-ecek-ti.

Taha already home.DAT come.POS.EVI

- (8) a. Taha kapıyı **muhtemelen** aç-acak
 Taha door.ACC possibly open-POS
 - b. Taha kapıyı muhtemelen aç-tıTaha door.ACC possibly open-PST
 - c. Taha kapıyı **muhtemelen** aç-abilir Taha door.ACC possibly open-ABL

(9)	Mood speech act	AdvPspeech act (fra	nkly,)	
	Moodevaluative	AdvPevaluative (oddly,)		
	Moodevidential	AdvP _{evidential} (allegedly,)		
	Modepistemic	AdvPepistem	AdvPepistemic (probably,)	
	Tensepast/future	AdvP _{past/}	AdvP _{past/future} (then,)	
	Modnecessity	AdvPne	AdvPnecessity (necessarily,)	
	Modpossibility	AdvP	AdvPpossibility (possibly,)	
	Aspecthabitual	Adv	Phabitual (usually,)	
	Aspectdelayed	A	dvP _{delayed} (finally,)	
	Aspectpredisposition	nal	Aspect _{predispositional} (tendentially,)	
	Aspectrepetitive		AdvPrepetitive (again,)	
	Aspectfrequentat	ive	AdvPfrequentative (frequently,)	
	Modvolition		AdvPvolition (willingly,)	
	Aspectcelera	itive	AdvP _{celerative} (quickly,)	
	Tenseante	rior	AdvP _{anterior} (already)	
	Aspect	erminative	AdvPterminative (no longer,)	
	Aspe	Ctcontinuative	AdvPcontinuative (still,)	
	Aspectcontinuous		AdvPcontinuous (always,)	
	Aspectretrospective		AdvPretrospective (just,)	
	Aspectproximative		Aspect _{proximative} (soon,)	
		Aspectdurative	AdvPdurative (briefly,)	
		Aspectprospective	AdvP _{prospective} (imminently,)	
		Modobligation	AdvPobligation (obligatorily,)	
		Aspectfrustrative	AdvPfrustrative (in vain,)	
		Aspect _{completive}	AdvP _{completive} (partially,)	
(Cin	gue and Rizzi, 2016)	Voicepassive	AdvP _{manner} (well,)	
(CIII	que and Mizzi, zoro)	Verb	Verb	

(10) Speech Act > Evaluative Adverbs

- a. Honestly I am unfortunately unable to help you.
- b. *Unfortunately I am honestly unable to help you.

(Cinque, 1999: 33)

(11) **Speech Act > Evaluative Mood**

ne coh-un os ip-ess-kwun-a.

you nice-RL dress wear-PER-EVA-SPE

'You are wearing a beautiful dress!'

(Sohn, 1999: 363)

(12) Time > Necessity Adverbs

a. Probabilmente ora ci ascolterà.

Probably now us listen.FUT.3SG

b. Ora probabilmente ci ascolterà.

Now probably us listen.FUT.3SG

(13) **Tense > Necessity Mod**

yana-buna-biya-y-aga

go-back-NEC-VS-FUT

'It is a necessity we go back (in the future)'

(Italian)

(Cinque, 1999: 13)

(Ngiyambaa)

(Donaldson, 1977: 227)

4. Mapping TAM in Turkish

It is checked whether the hiearachial order of the adverbs proposed by Cinque (1999, 2006), Cinque and Rizzi (2016) work in the same way.

The positions of the adverbs are compared with TAM suffixes in Turkish, which are given and discussed mostly in generative and theoretical grammar studies.

After the functions of TAM suffixes which are not coordinated to the adverbs are defined and their positions are determined.

Misordering depending on the translation of adverbs and change on the meaning:

(15) **Anterior** 'zaten' > **Terminative** 'artık'

- a. Siz konuyu *zaten artık* anladınız.

 You subject.ACC *already* no longer understand.PST.3PL
- b. *Siz konuyu *artık zaten* anladınız.

 You subject.ACC no longer already understand.PST.3PL

(16) **Terminative** 'artık' > **Anterior** 'çoktan'

- a. Siz konuyu *artık çoktan* anladınız.

 You subject.ACC no longer already understand.PST.3PL
- b. *Siz konuyu *çoktan artık* anladınız.

 You subject.ACC already no longer understand.PST.3PL

The comparasion of adverbs one by one can give different results on their hierarchical order:

(17) *Ability > Frustrative Adverbs

- a. *Ali *aptalca boşuna* konuştu.

 Ali stupidly uselessly talk.PST
- b. Ali *boşuna aptalca* konuştu.Ali uselessly stupidly talk.PST'Ali uselessly stupidly talked'

 $Mood_{Speech\ Act}$ (18) $Adv_{Speech\ Act}$ Mood_{Evidential} Adv_{Evidential} Adv_{Past} Tense_{Past} $Mod_{Possibility} \\$ Adv_{Possibility} $Mod_{Volition}$ Adv_{Volition} Adv_{Continuous/Perfective} Aspect_{Continuous/Perfective} $Mod_{Obligation} \\$ $Adv_{Obligation} \\$ $Mod_{Ability} \\$ $Adv_{Ability}$ Voice_{Passive} $Adv_{Passive}$

- The hierarchy of TAM and coordinated adverbs in Turkish - I

To examine the functions of the markers proposed in the literature, all are used in preceding order to each other:

Moodspeech Act > MoodEvidential

a. Ali okula git-miş-tir.

Ali school.DAT go-EVI-SPA

b. *Ali okula git-tir-miş.

Ali school.DAT go-SPA-EVI

 $(20) \qquad Mod_{Possibility} > A spect Perfective$

Ali uyu-muş ol-abilir.

Ali sleep-PER AUX-POS

The functions of TAM markers that given in the litreature but not coordinated to the order of adverbs were revised:

(21) $-mI_{\mathfrak{S}}$: PER or EVI / -(I)yor: Continuous

Eve geldiğimde, Ali uyu-muş ol-uyor-du.

home.DAT come.ADV.1SG Ali sleep-mlş AUX-yor-PST

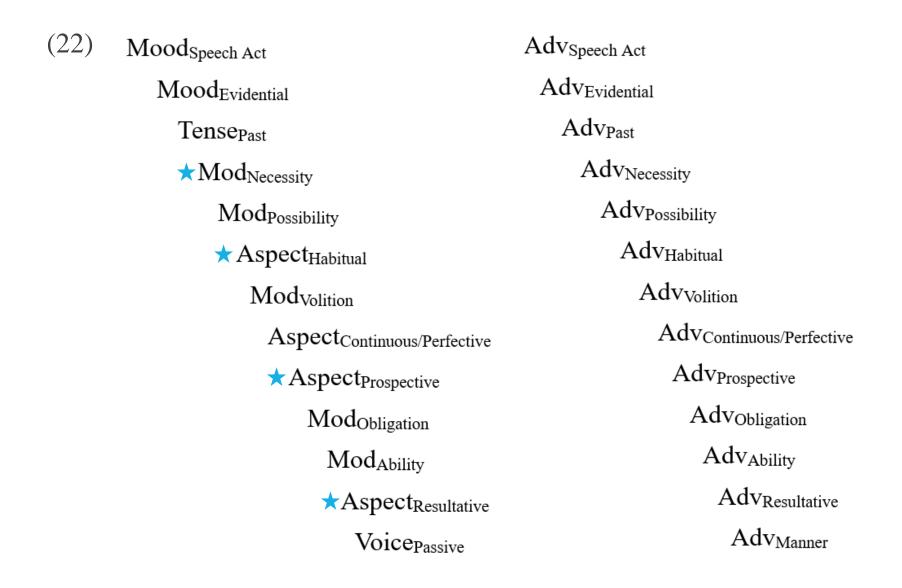
- $a. *Aspect_{Continuous} > Mood_{Evidential}$
- b. $*Aspect_{Perfective} > Aspect_{Continuous}$
- c. $Aspect_{Habitual} > Aspect_{Perfective}$

'When I came home, Ali was used to be sleeping.'

Conclusion

It is seen that the orders of adverbs should be examined one by one considering the fact that the meaning through translation can change the order.

TAM markers in Turkish given in the literature were not coordinated to the order of adverbs. Therefore, the functions of these markers were reconsidered and in what constructions their functions occur. Also, their positions were verified according to coordinated adverbs.



The hierarchy of TAM and coordinated adverbs in Turkish - II

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