

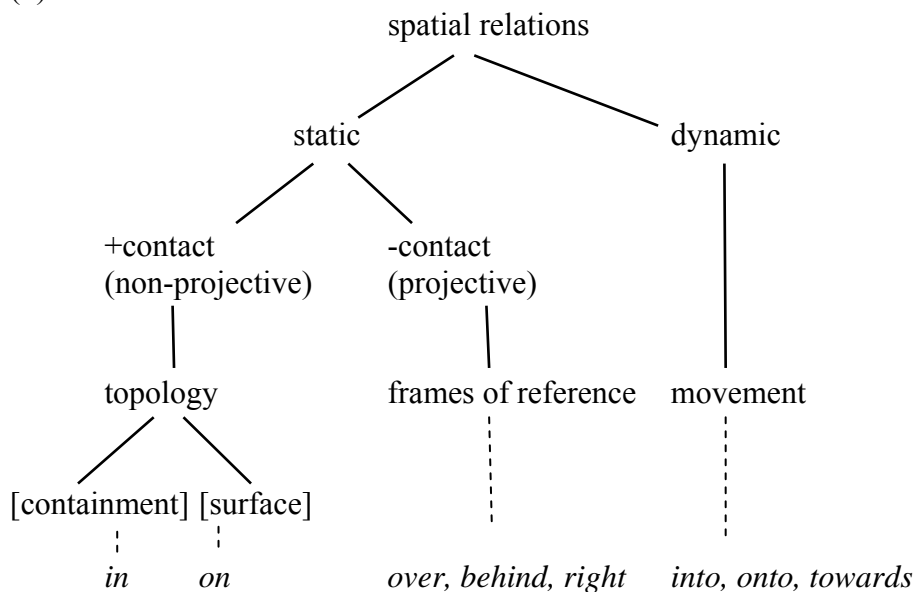
Locative classification and orientation of the configuration: Spatial conceptualisation in Laz

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1. Introduction

stratification of the conceptual domain SPACE (cf. Herskovits 1986, Levinson/Wilkins 2006):

(1)



construction scheme of a topological expression in an adpositional language (e.g. English)

(2) *The bottle is on the table.*

Figure	predicate	Relator	Gound
<i>the bottle</i>	<i>is</i>	<i>on</i>	<i>the table</i>




construction scheme of a topological expression in Laz: Relator is affix on the finite verb (preverb), no adpositions, no local case marker (in Ardeşen; in other Laz dialects: locative case marker = dative).

(3)	Figure	Ground	Relatum	predicate
	NP	NP	PRV-	verb
	<i>şışe</i>	<i>masa</i>	<i>goo-</i>	<i>dgun</i>
	bottle:NOM	table:NOM	on	stand:3s:PRS

2 IN-ON-scale as a universal (?) principle of conceptual ordering in the spatial domain

As a short comparison between English and German shows, "in" and "on" are not universal concepts but rather can be analysed as conceptual clusters consisting of primitive concepts such as containment, surface, superposition (Wunderlich 1986, Klein 1991, Nüse 1999, Levinson/Meira 2003):

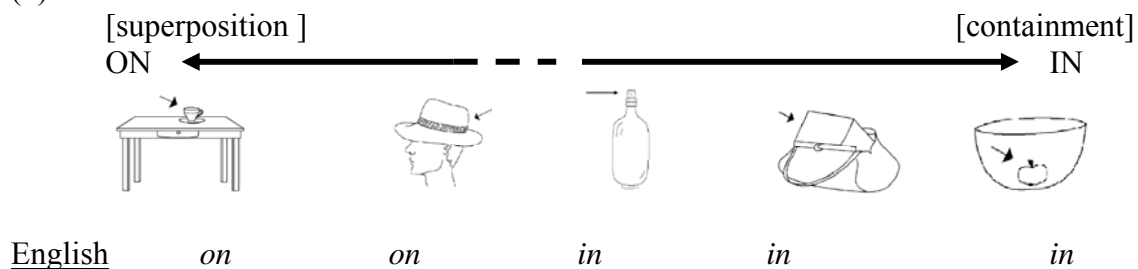
(4) a.

			
<u>German</u>	<i>auf</i>	<i>an</i>	<i>in</i>
<u>English</u>	<i>on</i>	<i>on</i>	<i>in</i>

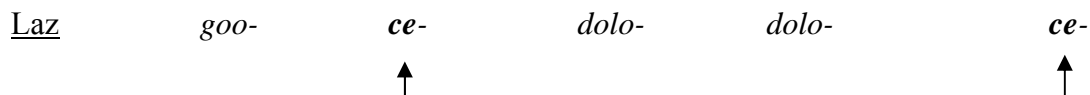
b.	<u>English</u>	<u>Deutsch</u>
	<i>in</i> : [+containment]	<i>in</i> : [+containment]
	<i>on</i> : [+surface]	<i>an</i> : [+surface, + side]
		<i>auf</i> : [+surface, + support from below/superposition]

Hypothesis of a "similarity space" for the topological subdomain of space. The claim is that, crosslinguistically, topological spatial relations are conceptually ordered in the same way along a so-called "IN-ON scale" (Bowerman/Choi 2001, Levinson/Meira 2003: 488). The scale has been developed after investigating 40 genetically and typologically diverse languages. Relators are supposed to denote only adjacent configurations of the scale.

(5)



but:



→Laz relators cover discontinuous parts of the scale, e.g. preverb *ce-* for 'on the head' and 'in the bowl'.

3. Conceptualisation of topological relations in Laz

Data: - Ardeşen-Laz

- fieldwork data collected in Ardeşen using visual stimuli developed by the Language and Cognition Group of the Max-Planck-Institute Nijmegen: two booklets with drawings and photographs showing topological configurations (for a detailed description see Ameka/Levinson 2007 and Kutscher /Genç 2007). The stimuli were tested with 4 fluent speakers
- spontaneous data overheard during the fieldwork stay
- data from spoken narratives (Kutscher/Genç 1998)

3.1 Configurations of Containment

ce-

- (6) *bere yatayi ce-zun*
child bed PRV-lie:3s:PRS

'The child is in the bed.'



- (7) *oşkuri tasi ce-zun*
apple bowl PRV- lie:3s:PRS

'The apple is in the bowl.'



dolo-

- (8) *şişe ūkina dolo-zun*
bottle basket PRV- lie:3s:PRS

'The bottle is in the basket.'



mola-

- (9) *koči oxori mola-xen*
man house PRV- sit:3s:PRS

'The man is in the house/is at home.'



- b. *fincani dolabi mola-dgun*
cup cupboard PRV-stand:3s:PRS

'The cup is in the cupboard.'



meška-

- (10) *kinçi mca meška-xen*
bird tree PRV- sit:3s:PRS



'The bird is in the (hollow) tree (trunk).'

3.2 Surface configurations

goo-

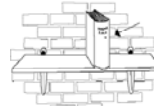
- (11) *fincani masa goo-dgun*
cup table PRV-stand:3s:PRS



'The cup is on the table.'

gola-

- (12) *çitabi ožude gola-zun*
book shelf PRV-lie/stand:3s:PRS



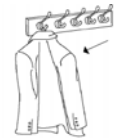
'The book is on the shelf.'

cela-

- (13) a. *rezimi koda cela-bun*
picture wall PRV-hang:3s:PRS



'The picture is on the wall.'



- b. *patto aski cela-bun*
jacket hook down-hang:3s:PRS
'The jacket is attached (lit.: hangs down from) to the hook.'

- (14) *balkoni cela-p-xer*
balcony PRV-1.A-sit:PRS
'I sit on the balcony.' (Kutscher/Genç 1998: 28)

me-

- (15) *mskala koda me-zun*
ladder wall PRV- lie:3s:PRS



'The ladder is leaning on the wall.' (lying along a wall: *ela-zun*)

- (16) *banñi* *kuçxe me-çabun*
 band.aid leg PRV-stick.to:3s:PRS



'The band aid is on the leg.'

4 Hypothesis: IN-ON-scale holds for Laz

4.1 Are there Ground properties which are relevant for the use of preverbs denoting containment configurations?

- extensions of preverbs used for referring to containment configurations

dolo- and meşke-

dolo-: in a (cylindrical) basket (cf. (8)) or a pannier (Laz: *fikina*)

- (17) *mantari* *şişe dolv-o-nzoy*
 cork bottle PRV-VV-be_stuck:3s:PRS
 'The cork is stuck in the bottle.'

→*dolo-*: [Ground: cylindrical]

meşke-: in a narrow object like a hole in a tree, cf. (10)

- (18) *d-i-mpulu* , *nçala bardi meşka-xedu*,
 MOD-VV-hide:3s:PRS hay.stack PRV-sit:3s:PAST.PFV
va gam-ulun
 NEG PRV-go:3s:PRS
 '(The man) hid, he sat in the hay stack, he did not come out of it.'
 (Kutscher/Genç 1998: 155)

→*meşke-*: [Ground: dense, narrow]

gola- vs. cela- vs. ela-

go-la-: 'being on a shelf', cf. (12).

- (19) *golo-b-ulur*
 PRV-1.A-go:PRS
 'I go along a horizontally oriented road or path'

ce-la-: 'hanging down on the wall', cf. (13), 'being on a balcony', cf. (14).

- (20) a. *cele-b-ulur*
 PRV-1.A-go:PRS
 'I go down a road/path (e.g. in the mountains)'
- e-la-*: b. *ele-b-ulur*
 PRV-1.A-go:PRS
 'I go up a road/path (e.g. in the mountains)'

→ *-la-* [Ground: strip]

Shape properties of the ground seem to be relevant for the usage of Laz preverbs:

- | | | | | |
|------|-------------------------------------|-----------------------------|---------------------|----|
| i) | Ground is striplike or has an edge: | <i>gola-</i> , <i>cela-</i> | (vs. <i>goo-</i>) | ON |
| ii) | Ground is cylindrical: | <i>dolo-</i> | (vs. <i>ce-</i>) | IN |
| iii) | Ground is dense, narrow: | <i>meşka-</i> | (vs. <i>mola-</i>) | IN |

→locative classification (Allen 1977, Aikhenvald 2000)

Comparable to the cluster concepts for containment and surface configurations in Tiriyo (Levinson/Meira 2003) and Palikur (Aikhenvald/Green 1998), Laz seems to have a finer grained differentiation in the conceptualisation of containment and surface configurations, i.e. the IN-ON-scale may need some rearrangement but in principle holds also for Laz.

But:

4.2 The orientation of configuration is also relevant for configurations which - from a geometrical perspective - are containment relations

dolo- vs. *mola-*

dolo-:

- (21) *zeytiniyayi dolo-b-u-bi*
olive.oil PRV-1.A-VV-pour:[1>3]s:PAST.PFV
'I poured olive oil into (the cow's mouth).' [the cow is lying on the ground]
(Kutscher/Genç 1998:34)

mola-

- (22) *řici řari molo-b-i-bi*
mouth water PRV-VV-pour:1.A:PAST.PFV
'I put water in my mouth.' [in order to spray it on swarming bees]
(Kutscher/Genç 1998:40)

cela-/ela- vs. *gola-*, *ceşka-/eşka-* vs. *meşka-*

cela-/ela-: 'Ground is a **vertical oriented** striplike object (e.g. a mountain path)' vs.

gola-: 'being on a shelf', 'going along a horizontally oriented road or path' (cf. section 3.1) vs.

ceşka-/eşka-: *ceşke-bulur* 'I go down in a mountain forest', *eşke-bulur* 'I go up in a mountain forest'

-> 'Ground is a **vertical oriented** dense or narrow object' vs.

meşka-: being in a small place (like a hole in a tree), cf. (10) being in a dense or narrow object (like a hay stack)', cf. (18); moving **horizontally** amidst a narrow or a dense object'

5 New Claim: Laz preverbs cannot be ordered according to the IN-ON-scale

- Orientation of configuration relevant for (geometrical) containment configuration (e.g. *dolo-* vs. *mola-*)
- Preverb *mo-* does not refer to meaning components such as [surface] or [containment], see section 5.1
- There are preverbs which refer to both surface (ON) and containment (IN) relations (*ce-*), see section 5.2

5.1 Semantic extension of the topological uses of *mo-*

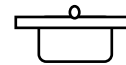
- (23) *ƙapayi* *tencere* *mo-zun*
lid pot PRV-lie:3s:PRS

'The lid is on the pot.' (in case of lid belonging to pot)



- (24) *ƙapayi* *tencere* *goo-zun*
lid pot PRV-lie:3s:PRS

The lid is on the pot.' (in case of lid too big for pot)



- (25) a. *kitabi ƙapayi* *mo-zun*
book slip.case PRV-lie:3s:PRS

'The book is in the slip case.'



- b. *maçindri ƙiři* *mo-zun*
ring finger PRV-lie:3s:PRS
'The ring is on the finger.'

- c. *ƙuçe modvala* *ƙuçe mo-zun*
shoe foot PRV-lie:3s:PRS
'The shoe is on the foot.'

- with movement verbs used as a proximal deictic marker 'towards speaker'

- (26) *ko-mo-xti*
MOD-PRV-go:2s:IMPER
'Come here!'

➔ *mo-* 'belonging-to-relation'

5.2 Semantic extension of the preverb *ce-*

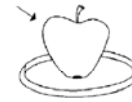
- (27) *oxorza araba ce-xen*
 woman car PRV-sit:3s:PRS



'The woman sits in the car.'

IN

- (28) a. *oşkuri řabayi ce-zun*
 apple plate PRV-lie:3s:PRS



'The apple is on the plate.'

ON/IN

- b. *masa hali ce-dgun*
 table carpet PRV-stand:3s:PRS
 'The table is on the carpet.'

semantic overlap of *ce-* and *goo-*: [two speakers out of 4 used *ce-*, two used *goo-*]:

- (29) *şeyi masa ce-zun / goo-zun*
 cloth table PRV-lie:3s:PRS



'The cloth is on the table.'

ON

- (30) *mşkala me-m-i-du ce-fti* DOWN
 ladder PRV-1.U:VV-put:[3>1]s:PRS PRV-go:1.A:PRS
 'She put the ladder (on the wall) for me (and) I went **down**.' (Kutscher/Genç 1998:83)

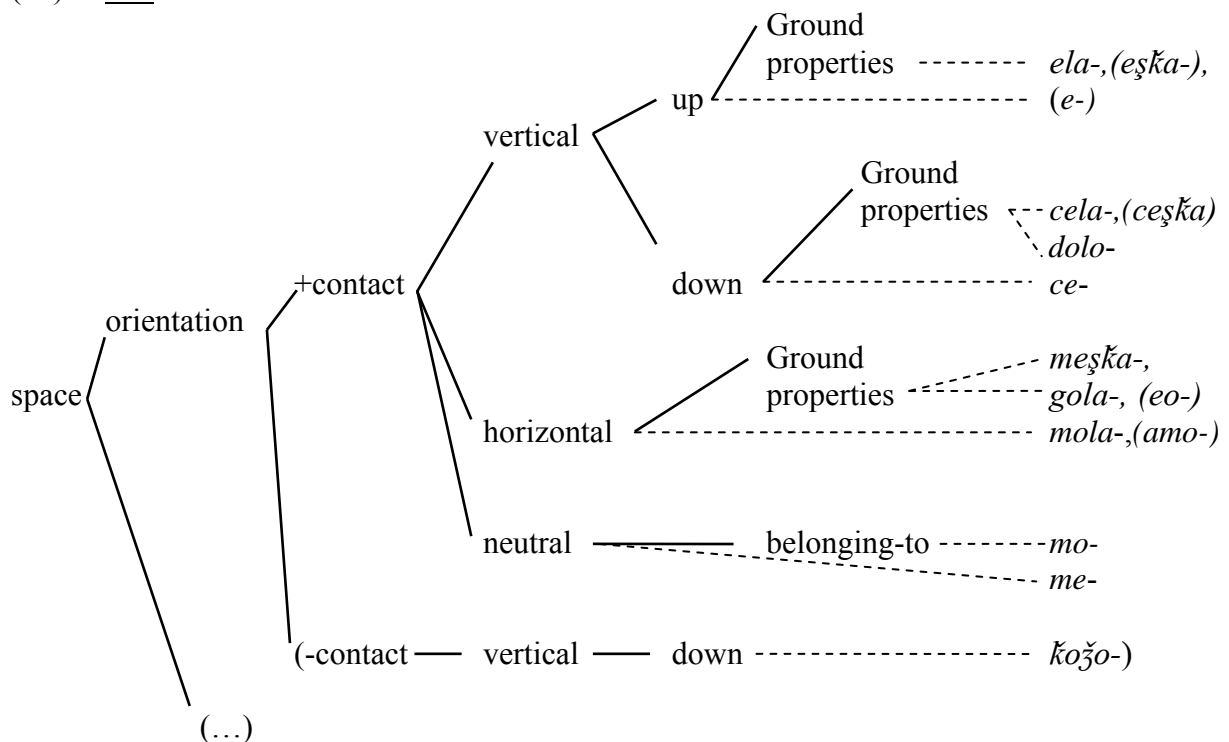
5.3 Clustering of Concepts in Laz

table (1)

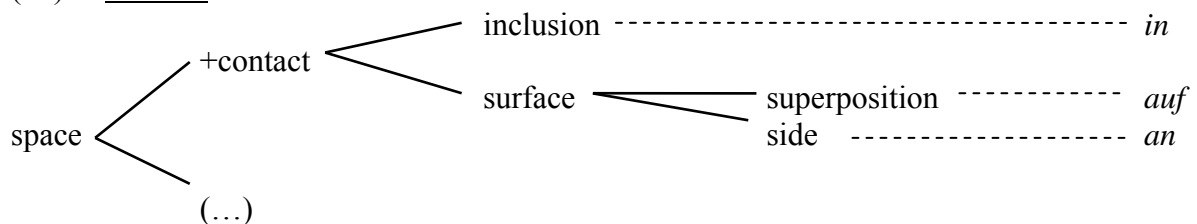
ORIENTATION	GROUND PROPERTIES	INCLUSION ?		
VERTICAL ("up")	--	-	<i>e-</i>	UP ON LADDER
	dense, narrow strip	?	<i>eşke-</i>	UP IN FORREST
	-----	-----	-----	-----
	--	-	<i>ele-</i>	UP ON PATH
("down")	--	-/+	<i>ce-</i>	IN CAR, ON PLATE, DOWN ON LADDER
	dense, narrow strip	?	<i>ceşke-</i>	DOWN IN FORREST
	-----	-----	-----	-----
	--	-	<i>cele-</i>	DOWN ON WALL, DOWN ON PATH
HORIZONTAL	cylindric	?	<i>dolo-</i>	IN BASKET(PANNIER), IN BOTTLE NECK
	dense, narrow strip	+	<i>meşke-</i>	IN TREE CAVE, IN HAYSTACK
	--	-	<i>gola-</i>	ON SHELF
	--	+	<i>mola-</i>	IN HOUSE
NEUTRAL (+belonging)	--	-/+	<i>goo-</i>	ON TABLE
	--	-	<i>mo-</i>	LID ON POT
	--	-	<i>me-</i>	ON LEG, LEANING ON WALL

- Comparing two Taxonomies of Space

(31) Laz:



(32) German:



The taxonomy of conceptual components of preverbs used to express topological configurations in (31) shows that these components specify the configuration between a Figure and a Ground, but also relate to properties of the Ground ([strip], [dense], [cylindric]). In contrast to European adpositional (e.g. German in (32)) and Fennic/NE-Caucasian locative case systems, Laz seems to focus mainly on features such as [orientation] and [shape properties of ground] whereas the former treat components such as [inclusion] and [surface] as the fundamental features.

6 Conclusion

- For Laz, concepts such as surface and containment seem not to be fundamental spatial concepts. In addition, the IN-ON-scale proposed by Bowerman/Choi (2001) and Levinson/Meira (2003) is not applicable for topological expressions in Laz (cf. (5)).
- Rather, concepts such as orientation of the configuration ([vertical: downwards], [horizontal]), shape properties of the ground ([striplike], [cylindrical]), and „belonging together“ (lid on pot) are relevant for the meaning of Laz preverbs.

A typology of spatial conceptualisation:

With respect to the fundamental concepts of space, we find at least two types of languages:

- Type 1 (English, German, Finnish, Turkish, etc.):
topological spatial concepts are ordered according to the IN-ON-scale. All seem to have nominal relators (adpositions, local cases).
- Type 2 (Laz, Mingrelian?):
topological spatial concepts relate to endpoints of path configurations. The relators are part of the verbal complex.

Abbreviations

A	Actor	PRV	preverb
IMPER	imperative	s	singular
MOD	speaker modality/focus particle	U	Undergoer
NEG	negation	VV	version vowel
NOM	nominative	[>]	verbform is marked for two arguments, subject (= Actor) acting on object (= Undergoer)
PAST.PFV	past perfective		
PRS	present tense		

Laz orthographie

Examples are written in the Lazoğlu/Feurstein-alphabet introduced to the Laz community in Turkey in 1984. It deviates from the Caucasianists' transcription in the following graphemes (<Laz = Caucasianist>):

<ç = č>, <c = j>, <k = k'>, <ḡ = p'>, <ş = š>, <č = t'>, <ǰ = c>, <ǰ̇ = c'>

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