Slope-based geocentric descriptions in Chiapas Zoque: linguistic resources and patterns of use

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Central aim

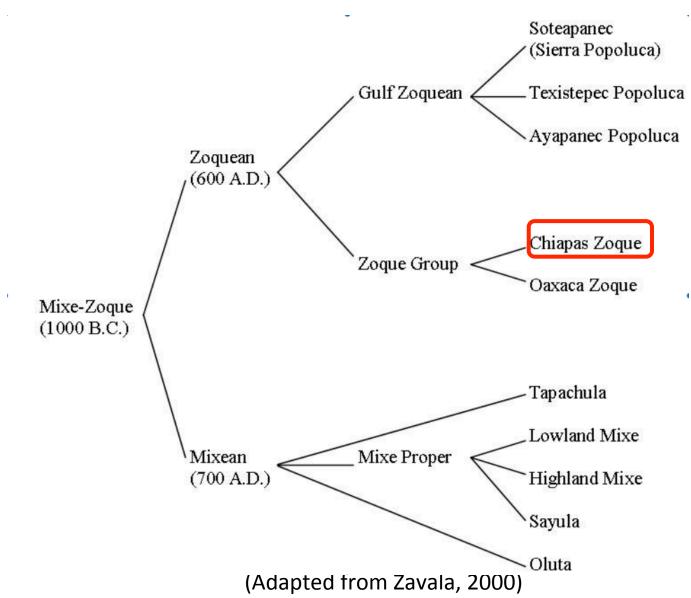
To unpick the relationship between,

- The considerable difference in the usage of slope-based (SB) locative statements across different scales
- 2. The inability to form fully specified slopebased locative statements using the linguistic resources available to CZ speakers

Outline

- Introduction (language, fieldwork location, SB descriptions in CZ)
- Usage patterns (different scales)
- Linguistic resources & conceptual structure
- Discussion
- Summary

Chiapas Zoque



Fieldwork (2013-present)

- Conducted in Ocotepec town, Chiapas
- Population of municipio ~ 11,000
- 99% of whom speak CZ
- 64% bilingual

Data taken from Mexican Census (2010)



(Adapted from Zavala, 2011)

Town Geography

- Situated in steep-sided valley
- Dominant slope from south to north
- Town slopes down at edges
- Many smaller slopes along many different orientations in the village itself.



Nature of SB directions - conceptual

 Anchored by ``most prominent" slope in location of figure and ground -> geomorphic

• Freely used on flat surfaces

Nature of SB descriptions - formal

- Terminology borrowed from vertical direction
 Verbal roots: ki?m `ascend' and m9?n `descend'
 - Adverbs: kehsi/kehsme `above' (RN:top=LOC) ke?me/ke?ji `below' (RN:bottom=LOC)

(1) k9?m9 n9 j-?9?m-m9?n-u te? po?ks-t9k
 below PROG 3A-look-descend-DEP.II DET sit-INSTR
 'The chair is looking down (downhill)'

PATTERNS OF USE

Scales and domains

- Scales
 - Manipulable e.g. balls, chairs, cups
 - Non-manipulable (town) e.g. houses, cars, people
- Types of statement
 - Projective locative: specifies a search region for a figure using an FoR
 - Orientational: aligns a facet of figure with an external direction

Pattern of use - town

 SB descriptions used frequently in *all* domains -> narratives, public space descriptions, route descriptions etc

Location

(2) te? karo ø-?it-u kehsme
DET truck 3B-EXIST-CP above
'The truck is above (further up the hill)'

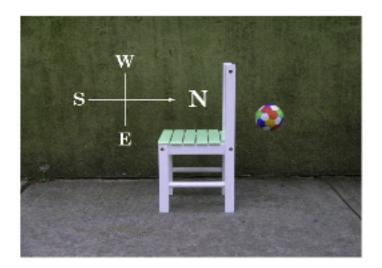
Orientation

(3) te? karo ø-ken-ki?m-u k9hsi DET truck 3B-look-ascend-CP above 'The truck is facing up (the slope)'

Manipulable-scale

• The Ball and Chair communicative task (B&C; Bohnemeyer, 2008)

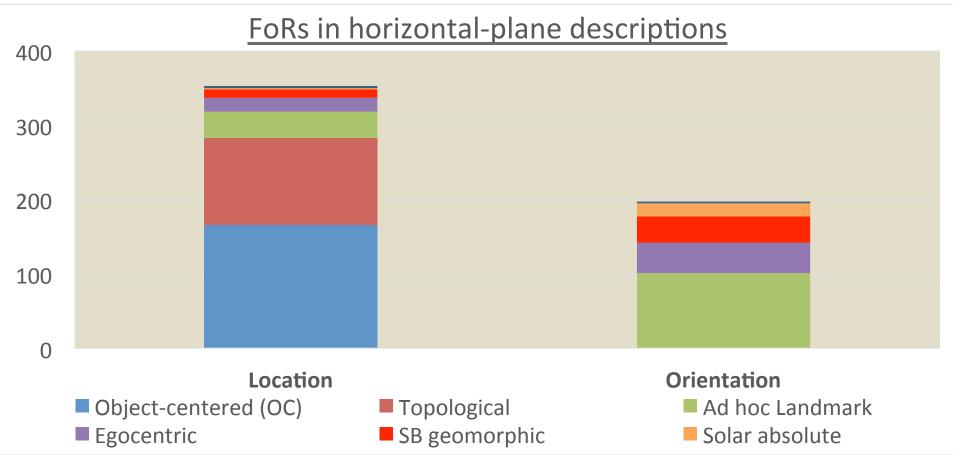




- 10 participants (6 men, 4 women), aged: 18-50
- All runs conducted in same location -> bottom of a small hill

Manipulable-scale – location, orientation

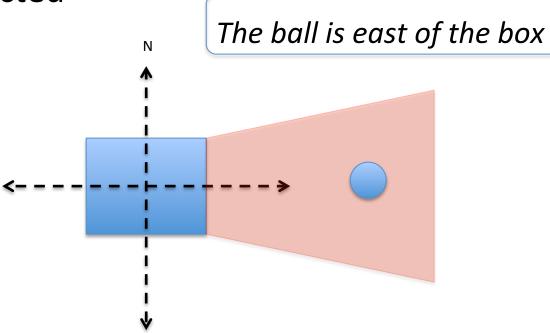
- Slope-based descriptions were used in:
 - 3% of locative statements
 - 18% of orientational statements



LINGUISTIC RESOURCES

Conceptual structure - location

Requires a ground off which a spatial ``search region'' is projected



 External directions -> need way of associating direction with a ground object

Locative statements – grounds

- Postpositions k9?m9 & k9hsi -> vertical direction only
- (3) te? po?ks-t9k=k9hsi Ø-?it-u pelota DET sit-INSTR=on.top.of 3B-EXIST-CP ball 'The ball is on top of the chair'
 - Relational nouns -> vertical absolute, OC and relative frames
- (4) te?=?is j-k=hs=i ø-pots-nej-u tum= pelota 3.PRO=GEN 3PSR-RN:top=LOC 3B-to.be.thrown-ASSUMP-CP one ball 'A ball has been thrown on its (the chair's) top'

Slope-based locative statements

- Not possible to explicitly state ground object using only SB directions
- (1) te? karo ø-?it-u kehsme
 DET truck 3B-EXIST-CP above
 'The truck is above (further up the hill)'

(6) j-tse?ŋna=?omo=p9=te? j9?m9 k9hsm9...
3PSR-side.region=in=REL=PRED here above
'It is at its (the chair's) side, above (uphill from) here'

DISCUSSION

Discussion - relationship

 Manipulable scale -> relationship between linguistic resources and usage patterns

 Non-manipulable -> no relationship between linguistic resources and usage patterns

Difference due typical precision required and contexts given

Discussion – manipulable scale

Context: precision requires ability to state arbitrary ground

Historically

 Dispreference for external directions -> no development of linguistic resources from objectcentered descriptions

Synchronically -> dispreference

- Ineffective strategy for stating location on a manipulable scale, particularly in B&C context
- Historical dispreference

Discussion - town

- Ground = deictic or town centre
- (5) j9?ki k9?ji ni-ti?j9=na?ak ha j-?it-9 j9?ki here below no-thing=CONTR CNEG 3B.D-EXIST-DEP.I here 'Here below there wasn't anything'
 - Conventionalisation ->
 - Negates under-specification
 - Frequent use does not require development of additional linguistic resources

Summary

- The linguistic resources of CZ do not allow for fully specified, slope-based locative statements
- This is related to a historical dispreference for such descriptions on a manipulable scale
- Synchronically -> strong dispreference
- No such relationship exists on the scale of the town due to the existance of conventional grounds -> relatively high frequency of use