

THE QUESTION

Beck et al. (2009) propose that variation in comparison crosslinguistically is due to settings of grammatical parameters, such as the Degree Abstraction Parameter. We also know that differences in the denotations of lexical items are responsible for some semantic variation. One question we can ask is what variation in comparatives is due solely to parameter settings and what is due to lexical variation?

1. Comparison in TSWEFAP

- Tswefap (Bamileke Narrow Grassfields; Cameroon) utilizes an "exceed" type comparative in Stassen's (1985) typology
- The gradable predicates used in comparatives are verbs
- Comparatives are formed via one of many strategies involving a serial verb construction with the verb *tchege* 'pass'
- seh n-tchege Chimi Nkwehnwoh a (1)FACT be.tall N-pass C. 'Kuamo is taller than Chimi.'

2. The Degree Abstration PARAMETER

- Beck et al. (2009) argue that languages differ in whether they make use of degrees (Degree Semantics Parameter), with some languages lacking gradable $\langle d, \langle e, t \rangle \rangle$ predicates
- One observation about degrees is that they are semantically much like individuals (objects of type e)
- There are expressions that refer to degrees (4 feet) just like there are expressions that refer to individuals (Mary)
- There are generalized quantifiers over degrees $(\langle d,t\rangle,t\rangle)$ just like there are generalized quantifiers over individuals (<<e,t>,t>)
- Generalized degree quantifiers can QR to create abstractions over variables of type d, just like generalized quantifiers over individuals can QR to abstract over type e variables
- Beck et al. (2009) propose that languages can also differ in whether they allow abstraction over degrees (Degree Abstraction Parameter)
- From these two parameters alone, we can expect to find three types of languages
- No degrees (-DSP): Motu (Autronesian; Papua New Guinea) entirely lacks expressions that reference degrees
- Degrees, but no abstraction (+DSP,-DAP): Mooré (Gur; Burkina Faso) has expressions that refer to degrees but does not allow constructions that require binding of degree variables
- Degrees and degree abstraction (+DSP,+DAP): English has expressions that refer to degrees and constructions that involve degree variable binding
- Beck et al. (2009) discuss 2 constructions that only languages with degrees may have, and they identify an additional 5 constructions that only languages that allow abstraction over degrees may have
- On the basis of these diagnostics I argue that Tswefap has a positive setting for both parameters

EXCEED-COMPARATIVE LANGUAGES AND THE DEGREE ABSTRACTION PARAMETER

Emily Clem

University of California, Berkeley CĽS54, 04/26/2018

3. EVIDENCE FOR DEGREES AND DEGREE ABSTRACTION IN TSWEFAP

 Tswefap allows all the constructions that Beck et al. (2009) take to be evidence for degrees and degree abstraction 					
DIFFERENCE COMPARATIVES					
 Differential measure phrases can appear in comparatives 					
 (2) Chimi a seh pu ta' tswe n-tchege C. FACT be.tall with one head N-pass Nkwehnwoh K. 'Chimi is one head taller than Kuamo.' 	S •				

Comparisons with a Degree

• Type d expressions can be the standard of comparison

(3)			n-tchege ta' meyteh	
	C. FAC	CT be.tall	l N-pass one meter	
	'Chimi is	taller that	n one meter.'	N
DIRE	CT MEASU	re Phr.	ASES	- [
	ct measure licates with	–	an appear with gradable	
(4)	Chimi a	tsey	kilo ghap	

81101 FACT be heavy kilo 10 'Chimi weighs 10 kilos.' (*Lit.* 'Chimi is 10 kilos heavy.')

TWO SOURCES OF SEMANTIC VARIATION

• Parameters: Tswefap is +DAP, accounting for variation between it and -DAP exceed-type languages • The Lexicon: Tswefap and Yoruba differ with respect to scope ambiguities due to lexical variation

4. Scope Ambiguities in TSWEFAP and Yoruba

In Tswefap we find evidence that degree phrases behave like quantifiers in showing scope ambiguities
 (8) yi me ntchohk nge pa' yoh loh kwa' it.is.required that building DEM take exactly sehntimeyteh yeh pege seh n-tchege pa' yi centimeter YEH two be.tall N-exceed like 3SG ne mbi ndeh le INF be now LE 'It is required that the building be exactly 2cm taller than it is now.' You are in a contest where you have to build a model building. Your building is 2.98m tall. ✓ Context 1: ∀w > max The rules state the building must be 3m tall, no more, no less. ?✓Context 2: max > ∀w The rules state the building must be at least 3m tall, but can be more.

DEGREE QUESTIONS

Questions involving a bound degree variable are possible

seh ndohk pa'lieh Chimi a (5)FACT be.tall QUANT how 'How tall is Chimi?'

BUBCOMPARATIVES

Subcomparatives, where the standard of comparison involves a second gradable predicate, are possible

- (6) Chimi a seh n-tchege pa' nkhe Nkwehnwoh FACT be.tall N-pass like rope K. ne seh INF be.tall A 'Chimi is taller than Kuamo's rope is long.'
- **VEGATIVE ISLAND EFFECTS**

Negation in the standard of comparison is unacceptable

yu ta' nwa'nye me yeh teuk * Chimi a (7)FACT buy one book ME it expensive C. n-tchege yoh yi sop mi nteh yu a N-pass DEM REL no person NEG buy REL Intended: 'Chimi bought a more expensive book than the one no one bought.

Beck et al. (2009) demonstrate that Yoruba uses degrees Howell (2013) argues that Yoruba allows degree abstraction in degree questions and subcomparatives and shows negative island effects

However, Yoruba does not show scope ambiguities

- ìwé náà gbọdò gùn ju (9)lọ pèlú ìyen book the has.to is.long exceed that.one go with ojú-ewé márùn gérégé five exactly page 'The book has to be exactly 5 pages longer than that (Beck et al., 2009, Appendix 2) one.' Your paper is 10 pages long. ✓ Context 1: $\forall w > max$
 - In order to meet the class requirements it must be 15 pages long, no more, no less. # Context 2: $\max > \forall w$
 - In order to meet the class requirements it must be 15 pages long, but can be more.

Beck, S., Krasikova, S., Fleischer, D., Gergel, R., Hofstetter, S., Savelsberg, C., Vanderelst, J., and Villalta, E. (2009). Crosslinguistic variation in comparison constructions. Linguistic Variation Yearbook, 9:1-66. Howell, A. (2013). Abstracting over degrees in Yoruba comparison constructions. In Proceedings of Sinn und Bedeutung 17, 271-288. Stassen, L. (1985). Comparison and Universal Grammar. Basil Blackwell, Oxford.

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5. LEXICAL VARIATION IN EXCEED-COMPARATIVE LANGUAGES

• Howell (2013) argues that the lack of scope ambiguities in Yoruba is not due to a lack of degree abstraction

- Howell hypothesizes that *gerege* 'exactly' is not a degree operator, but rather a sentential operator, and notes that Yoruba otherwise lacks modified numeral measure phrases • Without a true degree operator like *exactly*, *ojú-ewé márùn* 'five pages' will literally mean 'at least five pages'

• This will derive an 'at least' reading for both the wide and narrow scope of the degree quantifier

• The addition of the sentential operator *gerege* would then rule out all stronger alternatives, yielding only the 'exactly' reading

• The prediction of Howell's account is that if a language with comparatives like Yoruba has modified numeral measure phrases, it may display scope ambiguities

• In Tswefap, we do find modified numeral measure phrases, and Tswefap does show scope ambiguities

• Therefore, Tswefap lends support to Howell's hypothesis that the presence/absence of scope ambiguities in languages with other evidence for degree abstraction correlates with the presence/absence of modified numeral measure phrases

CONCLUSIONS

• Tswefap shows clear evidence for degree abstraction based on all of the criteria proposed by Beck et al. (2009)• Some variation among exceed-type languages is due to the fact that they can exhibit either setting for the DAP • The presence of scope ambiguities in Tswefap supports Howell's (2013) claim that a lack of modified numeral measure phrases in Yoruba leads to a lack of ambiguity • Some variation among exceed-comparative languages is due to differences in lexical items rather than grammatical parameter settings

REFERENCES

CONTACT INFORMATION

eclem@berkeley.edu http://www.linguistics.berkeley.edu/~eclem/