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Mutual Intelligibility between closely related languages

22/20/00/12

›Sebastian Kürschner

>Charlotte Gooskens

LOT course 19 - 23 January 2009



Mutual Intelligibility between closely related languages

Intelligibility:

- The degree to which a speaker of one variety understands the speech of another closely related variety
- > Can be expressed in a single number

Closely related languages:

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> Language varieties (dialects and languages)

Mutual Intelligibility between closely related languages

Assumptions:

- > First confrontation (inherent intelligibility)
- > Spoken language only

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Semicommunication

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Haugen (1966)

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- > \approx nonconvergent/asymmetric/bilingual discourse, receptive bilingualism
- Speakers of different but related languages each speak their own language and still comprehend one anothers' languages
- Mutual intelligibility is sometimes imperfect and asymmetric





Factors explaining intelligibility	
	27-1-2009 (9
Linguistic	
> sounds	
> prosody	
> lexicon	
> morphology	
> syntax	
Extra-linguistic	
> attitude	
> contact	
 linguistic experience 	
> orthography	
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	Central questions
1.	How can the mutual intelligibility between closely related languages be measured?
2.	How can the relevant (extra-)linguistic factors be measured?
3.	To what extent are the (extra-)linguistic factors predictors of intelligibility?
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Day-to-day program

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Monday: intelligibility testing

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1. Introduction

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- 2. Overview of methods for measuring intelligibility
- 3. Practical: participation in an online web-based intelligibility experiment

Day-to-day program



Day-to-day program



Day-to-day program 273.309.10 Thursday: relating linguistic distances to intelligibility scores 1. Practical: linguistic factors determining intelligibility 2. Linguistic factors of Danish-Swedish intelligibility 3. Lexical distances 4. Morpho-syntactic distances



Project I

Linguistic determinants of mutual intelligibility in Scandinavia

27-1-2009 (17

- VIDI, financed by NWO
- 1 January 2006 1 January 2011
- · Project members:
 - · Charlotte Gooskens
 - Sebastian Kürschner
 - Renée van Bezooijen

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• Anja Schüppert

Mutual intelligibility of language varieties in the Low Countries: linguistic and attitudinal determinants

Project II

27-1-2009 1 18

- VNC, financed by NWO and FWO
- 1 January 2007 1 January 2011

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• Project members from Leuven, Nijmegen and Groningen

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	Measuring intelligibility	

Measuring intelligibility

> Opinion testing > Functional testing > Observations

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Opinion testing Questionnaire with speech samples • Judgments on a scale Example Tang & Van Heuven (2007): • Recordings of 15 Chinese dialects • The fable "The North Wind and the Sun". • 24 listeners from each of the places where the dialects were spoken • 'How well do you believe monolingual listeners of your own dialect would understand the speaker?'





Functional testing: texts ///> Questions about content of text • % correct answers Example Delsing/Lundin Åkesson 2003: • Speech samples: recordings of Danish, Norwegian and Swedish news items • Danish, Norwegian and Swedish listeners • 5 open questions, for example: What kind of animal is this text about?' 'For how long did he do this job?'

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Functional testing: texts
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Recorded Text Testing (RTT)
• Questions about story or retelling
Example Kluge (2007):
 Recording of an autobiographical text (3 min)
Divided into 10-12 segments with short pauses between
 Identification of core elements by L1 speakers
Listeners retell each segment
% correctly retold core elements
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Functio	nal testing: texts	
Cloze test		/27-1-2009/(32///)
Example:		
No, I		•
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Functional testing: texts	
Cloze test	27-1-2009 (33
Example:	
No, I	·
No, I <u>hated school</u> .	
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Functional testing: words

- Example Impe (in progress):
- · 10 Dutch Standard varieties in Belgium and The
- · 20 existing words and 20 non-words in each
- · Listeners from the same places as the speakers
- · Lexical decision task + multiple choice task
- · Reaction times measured with E-prime
- · Reaction times of correctly recognized words

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	observations	
	Observations of real language situations	
	 Number of misunderstandings, repairments, reformulations, pauses, turn taking etc. Arranged or real conversations 	
	Example Börestam Uhlmann (1994): • Pairs of Scandinavians were asked to arrange a low-budget party	
	Example Zeevaert (2005): • Observations of real Nordic meetings	
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Opinion versus functional testing
Tang & Van Heuven:
Correlations between opinion tests and functional
tests of intelligibility among 15 Chinese dialects:
<i>r</i> = .80
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35% unexplained variance

						777799999
A	voiding p	rimin	g effects	5		
L	atin square	e design	:			
1	cach of the	, cost ia	uguageo,	and yet h	icuis woi	uo m
	each of the never hear	e langua s the sa	ages in eo ume word	ual prope l twice	ortions, a	and
	each of the never hear	e langua s the sa	ages in eo ame word Test	ual propo l twice version	ortions, a	and
	each of the never hear	e langua s the sa	ages in eo ume word Test II	ual prope l twice version III	IV	and
	each of the never hear languages	e langua rs the sa I A	ages in ec ime word Test II D	ual prope l twice version III C	IV B	and
	each of the never hear languages 1 2	e langua rs the sa I A B	ages in ec ume word Test II D A	ual prope l twice version III C D	IV B C	and
	each of the never hear languages 1 2 3	e langua s the sa I A B C	ages in ecume word Test II D A B	ual prope twice version III C D A	IV B C D	and



Methodological considerations

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- Stimulus material:
- Same for all varieties
- Comparable speakers (gender, age, voice quality etc.)
- Sentences not too long
- Suitable level of difficulty
- Not translations from one test language
- Control language

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