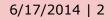


Affectedness in Child Language

with a focus on experimental design

Bart Hollebrandse Affectedness Workshop Nanyang Technological University Singapore





- > Language Acquisition / Variation
- > Methodology
- > Aspect, passives





COST Action A33

- > PI: Uli Sauerland (ZAS, Berlin)
 - Vice-chair: Heather van der Lely (Harvard University)
- Crosslinguistically Robust Stages of Children's Linguistic Performance, with Applications to the Diagnosis of Specific Language Impairment
- > 25 languages, 40+ researchers
- > 2006-2010
- > Funded by COST European Cooperation in Science and Technology
- http://cost.zas.gwz-berlin.de/cost/





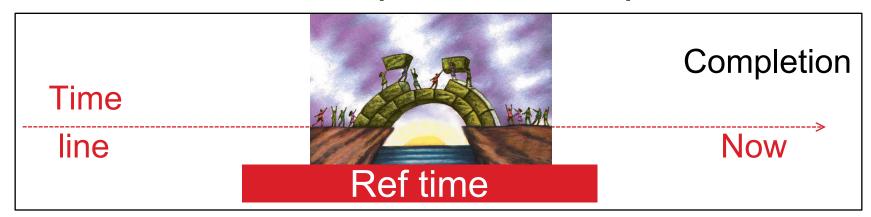
Van Hout, A, Gagarina, N & Dressler W. and many others (2010)

Co-authors & Languages

- > Basque: Marie-José Ezeizabarrena
- > Croatian: Gordana Hržica, Melita Kovačević, Jelena Kuvač, Ana Bosnic
- > Danish: Kristine Jensen-Lopez
- > Dutch: Angeliek v.Hout, Bart Hollebrandse, Judith v.Dijk, Margreet v.Koert
- > English: Alma Veenstra, Napoleon Katsos, Heather van der Lely
- > Estonian: Reili Argus
- > Greek: Katerina Konstantzou
- > Cypriot Greek: Kleanthes Grohmann, Eleni Theodorou
- > Italian: Fabrizio Arosio, Ruggero Montalto, Vincenzo Tabacco
- > Polish: Dorota Kiebzak-Mandera
- > Russian: Katja Abrosova, Natalia Gagarina
- > Serbian: Darinka Andjelković, Masa Popović, Maja Savić, Ana Bosnic
- > Spanish: Isabel Garcia del Réal, Yolanda Rodriguez



Perfective and Imperfective Aspect







Why is Aspect Interesting?

Crosslinguistic variation

- > Parameterized
- > Form
- Markedness
- > Grammaticalization



Crosslinguistic Expression of Aspect

- > Germanic English
- > Greek Modern Greek

Morphological aspect

- > Slavic Russian, Polish, Croatian, Serbian
- > Romance Italian, Spanish
- > Isolate Basque
- > Germanic Danish, Dutch
- > Fin-Ugric Estonian

Aspectual past tenses

Aspect periphrasis

No aspect on verb



Crosslinguistic Expression of Aspect

Morphological aspect

	Imperfective built ^{IMP} bridge	Perfective built ^{PF} bridge
Greek	ehtize mia yefira	ehtise mia yefira
Russian	stroil most	postroil most
Polish	budował most	zbudował most
Croatian	je gradio most	je sagradio most
Serbian	je gradio most	je sagradio most
English	was building	built



Crosslinguistic Expression of Aspect

> Aspectual tenses

	Imperfective built ^{IMP} bridge	Perfective built ^{PF} bridge
Spanish	construía un puente	construyó un puente
Italian	costruiva un ponte	ha costruito un ponte
Basque	zubia <u>egiten ari zen</u> bridge build ^{IMP} PROG was	zubia <u>egin du</u> bridge build ^{PF} has



Crosslinguistic Expression of Aspect

Aspect periphrasis

	Imperfective	Perfective
	built ^{IMP} bridge	built ^{PF} bridge
Dutch	was een brug aan het bouwen	heeft een brug gebouwd
	was a bridge on the build	has built a bridge
Danish	var ved at bygge en bro	havde bygget en bro
	was by to build a bridge	had built a bridge



Crosslinguistic Expression of Aspect

> No verbal aspect, but object case marking

	Imperfective built bridge ^{IMP}	Perfective built bridge ^{PF}
Estonian	ehitas sil-da built bridge ^{PART}	ehitas sil-la built bridge ^{GEN}



RESEARCH QUESTIONS AND HYPOTHESIS



Research questions

- > Are there universal milestones in aspect acquisition?
- > Are there language-specific effects?



General Hypothesis

- Reliable form-meaning relations are easy to acquire
- > What determines reliability?
 - More obligatoriness >> more optionality
 - Less ambiguity >> more ambiguity

 One-one >> one-many >> many-many

Clark 1993, Slobin 1973, 1985

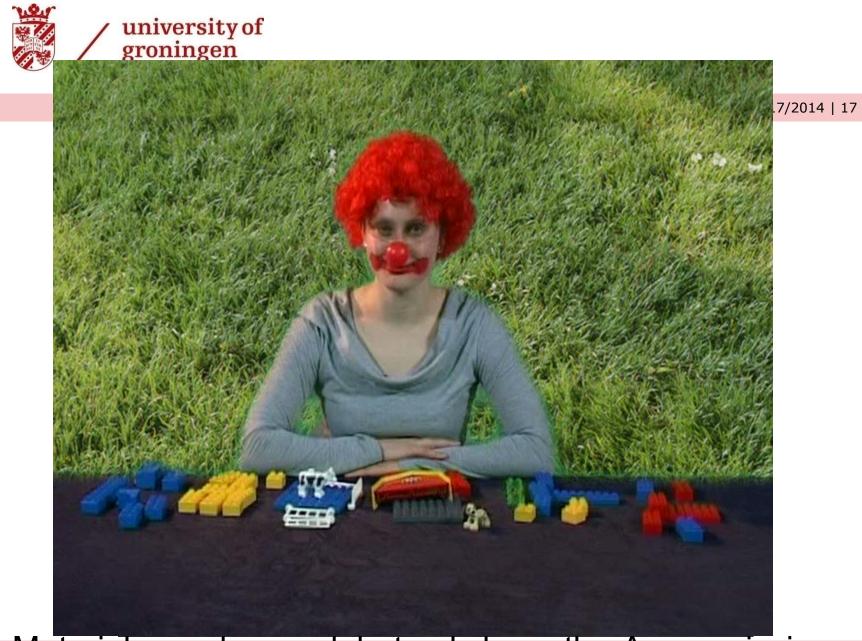


METHODS



Participants

- > 5-year-olds
 - N ≈ 20 in 12 lgs
 - Total N=247
- > Adults
 - N ≈ 10 in 12 lgs
 - Total N=135



Materials can be used, but only by authorAs permission.



Tasks & Design

> Truth value judgment

While the music was playing, ...

- > the clown built-PERF a bridge
- the clown was building-IMP a bridge

- > Elicited production
- > While the music was playing, ...

	Imperfective	Perfective
Complete	yes	yes
Incomplete	yes	no ←
Completion entailment		

	Form
Complete	
Incomplete	



Materials

- > Telic VPs: Transitive V + singular count noun
- > 6 Items per condition
- > Lexical effect: Verbs from 2 aspectual classes
 - Incremental theme
 Build, make, draw
 - Change of state
 - Open, close, blow out





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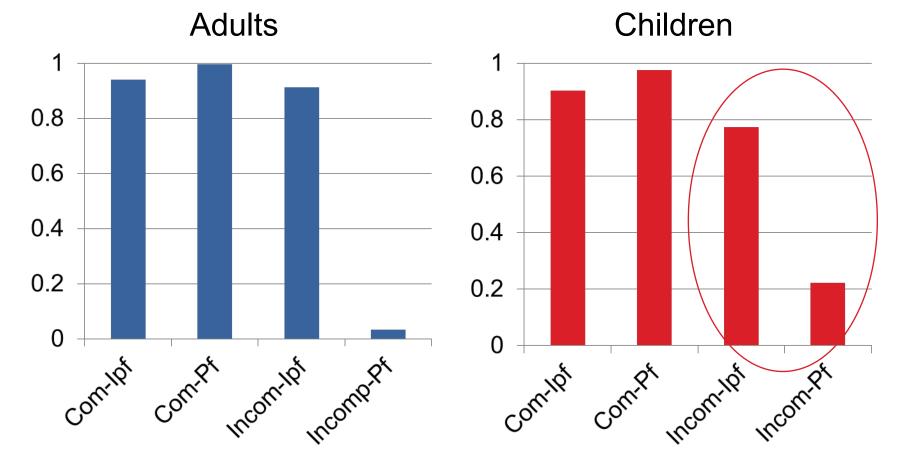
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RESULTS



Comprehension

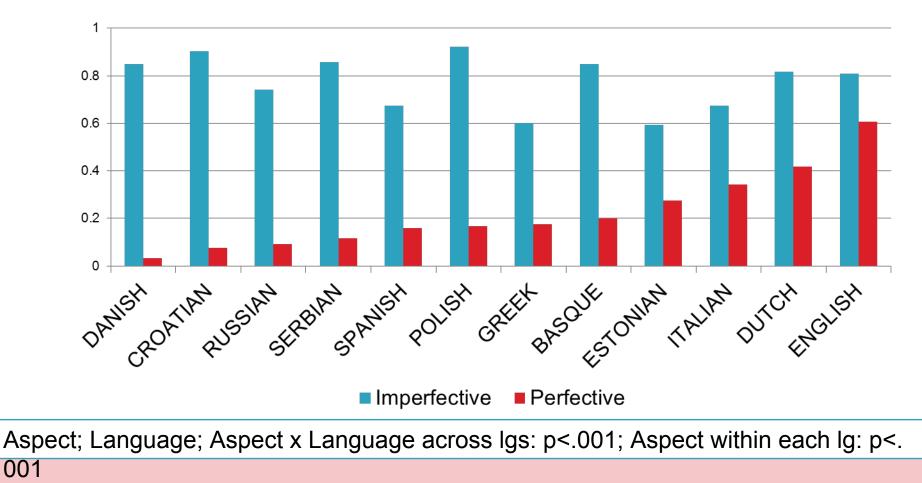


Age not significant



Reject IMP for Incomplete Accept PERF for Incomplete

Children–Incomplete: imperfective vs perfective



001



Lexical effects

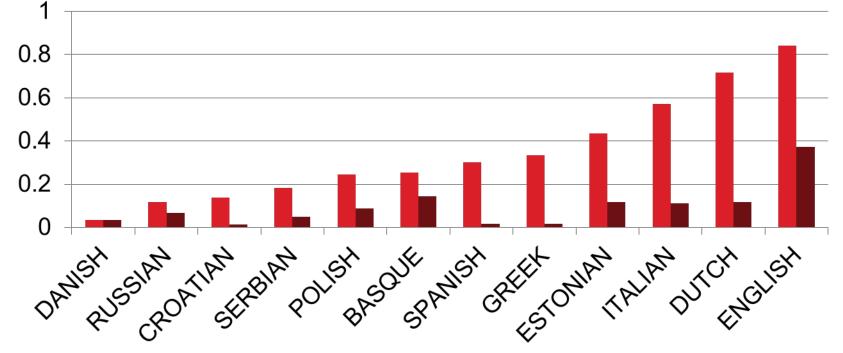
Aspectual class plays role too

- > Change verbs -- open, close, blow out
 - Firm completion entailment in all Igs
- > Incremental verbs -- build, make, draw
 - Fewer completion entailments
 - Even for adults in some lgs
 - Crosslinguistic variation



Children–Incomplete perfective

Incremental -- build, make, draw vs Change -- open, close, blow out

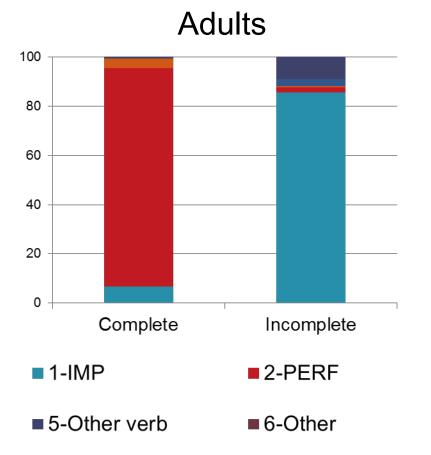


■ Incremental--build, make, draw ■ Change--open, close, blow out

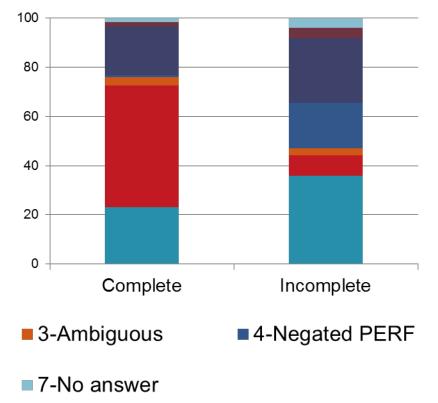
Across Igs: Language x Aspectual class x Aspect: p<.001



Production



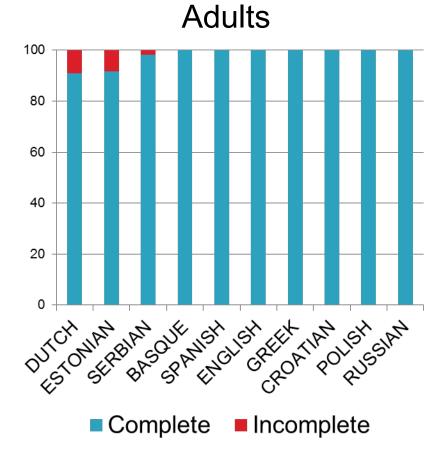
Children



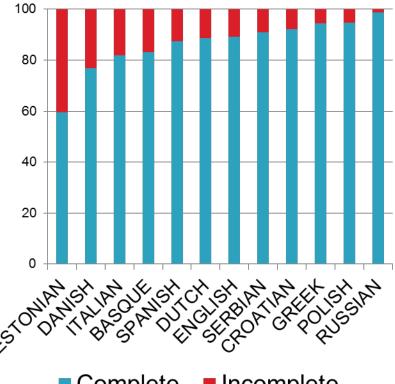


Underuse PERF for Complete

Production PERF



Children

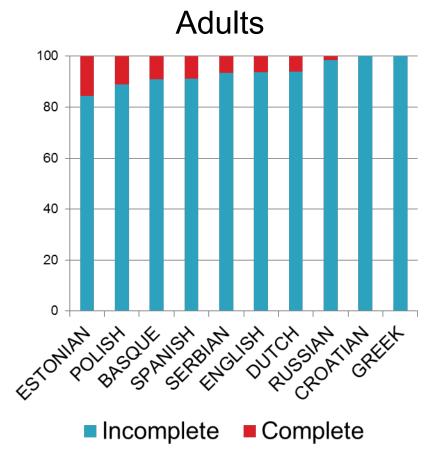


Complete Incomplete

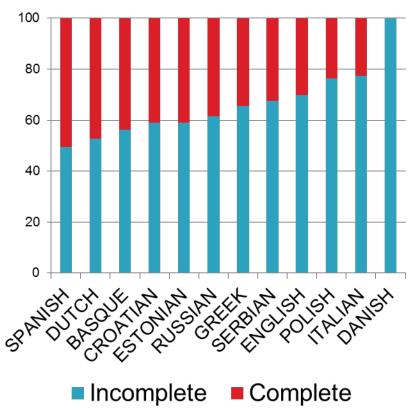


Overuse IMP for Complete

Production IMP



Children





Dutch

- Periphrasitic => Imperfective
 De clown was een brug aan het bouwen.
 the clown was a bridge on the build
- > Present perfect => Perfective
 - De clown heeft een brug gebouwd.
 - the clown has a bridge built.
- Simple past => either one
 De clown bouwde een brug.
 the clown built a bridge



Summarizing

- Language variation in Indo European language acquisition
- > Movies for comprehension and productio
 - Beavers (2013) (my modification)
 - John walked (to the cafe)
 - ∃e∃s∃g[walking'(j,s,e) ∧ result'(s,g,e)]



Passives



11 languages (274 + 198 children)

- Catalan
- Cypriot Greek
- Danish
- Dutch
- English
- Estonian
- Finnish
- German
- Hebrew
- Lithuanian
- Polish



Design + Materials

- > Method: Picture choice
- > Verbs used:

carry, examine, comb, cover, draw, feed, hug, make-up, push, scratch, tickle, wash, wipe/dry.

Long – short passives





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MIJN FOTOBOEK



























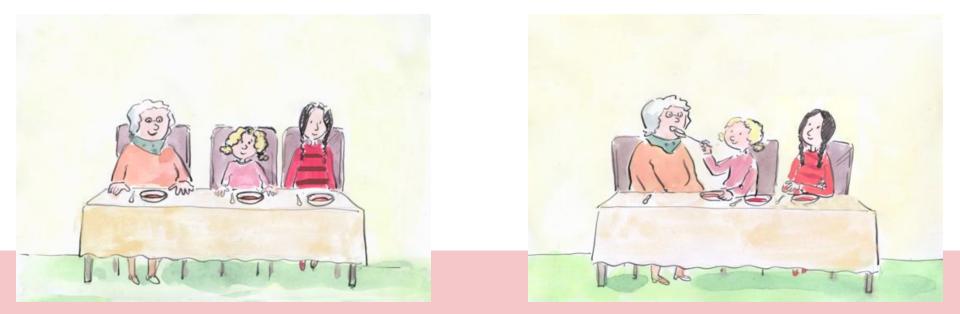
































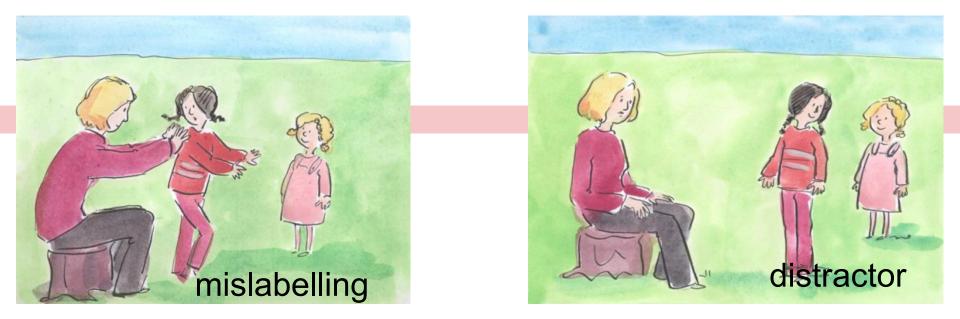




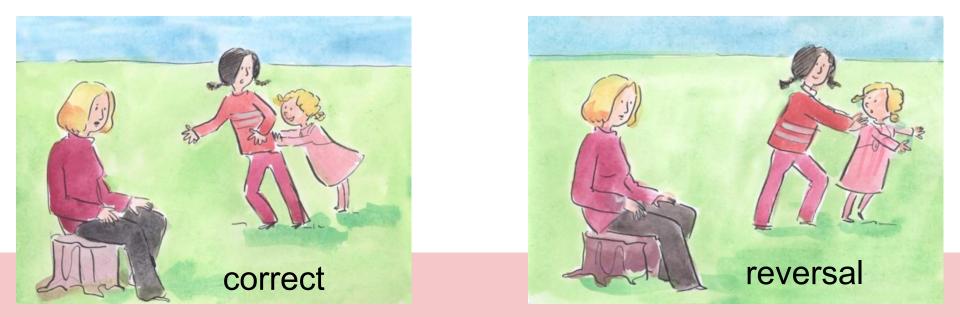








The big girl was pushed by the little girl.





6/17/2014 | 50

Results

- > Short earlier than long passives
- > Mistakes are revearsals (to active)



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THANK YOU