

# Subject-Verb Inversion and Verb Finiteness are Independent in Spanish John Grinstead<sup>1</sup>, Mariana Vega-Mendoza<sup>1</sup> & Grant Goodall<sup>2</sup> SPANISH **PSYCHOLINGUISTICS** <sup>1</sup>The Ohio State University <sup>2</sup>University of California, San Diego ntax Lah

Background	Expe
English and Spanish both have <i>inversion</i> in <i>wh</i> -questions:	Method
What <b>will John</b> say? *What <b>John will</b> say?	Grammati A receptiv spontanec
Qué <b>dijo Juan</b> ? *Qué <b>Juan dijo</b> ?	<u>Participa</u> 55 monoli
A common analysis: I-to-C movement (Rizzi 1991, Pesetsky & Torrego 2001). This satisfies the <i>Wh</i> -criterion.	11 childre Mean age
Is I-to-C adequate for Spanish? Can Wh-Criterion explain inversion in Spanish?	<b>Procedu</b> Children v were babi
Spec C' Where C IP	Then, the different a
Spec I' Bill I VP Spec V'	Each of th and non-a
V PP	The child t
Differences between Spanish and English 1. Embedded questions	4 pairs of
Mary asked what <u>Peter would say</u> . *María preguntó qué <u>Pedro dijo</u> .	8 pairs of 16 pairs o <sup>-</sup>
2. Adverb placement Con quién <u>nunca</u> piensas (tú) hablar? *With whom <u>never</u> do you plan to speak?	
3. Auxiliary verbs *Cuándo <u>ha</u> Juan bailado? When <u>has</u> John danced?	
4. Nature of wh-phrase In Spanish, robustness of inversion depends on wh-phrase (e.g. qué yields stronger effect than cuándo). This is not known to occur in English	
5. Satiation Goodall (in press): Subjects do repeated judgments of unacceptable sentence types: *What John will buy at the store?	<u><b>Results</b></u> Overall av
*¿Qué Juan compró en la tienda? Spanish-speakers show increasing acceptability ratings ("satiation"). English-speakers do not	Finiteness
<u>Interim conclusions</u> Verbs are not in C in Spanish <i>wh</i> -questions. <i>Wh</i> -criterion is not satisfied.	S
Spanish and English use different mechanisms for inversion. English: Close connection between I (finiteness) and inversion (driven by	Finiteness
<i>Wh</i> -Criterion). Spanish: No necessary connection between I and inversion.	
A question for acquisition	
<b>English:</b> Finiteness and inversion correlate (r <sup>2</sup> = .275, p. < .001) (Santelmann et al (2002), Grinstead, Warren, Ricci and Sanderson (2009))	Conclusi Spanish-sp verb form
Spanish: Do finiteness and inversion correlate? Answer unknown. Many studies find children in Spanish and related	Age and
languages form adult-like interrogatives (e.g. Guasti (1996), Serrat & Capdevila (2001)), unlike English-speaking children.	Consistent Grinstead
Methodological problem: Small number of overt subjects (less than 20%) in spontaneous speech in null subject languages.	
<ul> <li>If there is a correlation between finiteness and inversion in child Spanish:</li> <li>this supports the idea that inversion is similar in Spanish and English.</li> <li>If there is <u>not</u> a correlation:</li> </ul>	
<ul> <li>this supports the idea that inversion is fundamentally different in the two languages.</li> </ul>	

# Experiment 1

## **Methodology**

Grammaticality Choice Task (Pratt & Grinstead 2008) A receptive task to get around the small number of overt subjects in pontaneous speech.

### **Participants**

55 monolingual speakers of Spanish, from daycare centers in Mexico City. 1 children excluded for not passing fillers, leaving 44. Mean age of the 44 children: 4;9. Range: 3;2 (39 mo) – 6;6 (80 mo).

### Procedure

Children were introduced to two puppets, and were told that the puppets vere babies and were learning to talk, and sometimes they made mistakes.

hen, the child was presented with a picture of the puppets performing lifferent actions.

ach of the puppets said a sentence about the picture, using both adult-like nd non-adult like combinations of finite and non-finite forms.

The child then had to decide which puppet said the sentence better.

pairs of warm-up items. B pairs of fillers. 6 pairs of experimental items.



Overall average of correct answers: 90%, SD=.106 (N=44) initeness judgments and age were correlated: r= .679, p < .000.



### Conclusion

panish-speaking children by 3;0 distinguish between finite and non-finite verb forms above chance (t(43) = 56.140), p<.001).

### Age and finiteness judgments are significantly correlated.

Consistent with Grinstead, et al (2008) for finiteness in English and with Grinstead et al (2009) for finiteness in Spanish.

# **Experiment 2**

**Methodology** 

### **Participants**

# **Procedure**

4 pairs of warm-up items. 8 pairs of fillers.



## **Results**





.001). Children were not guessing

(N=44, r=-.239, p=.118).

### **Conclusion**

Theory, 2, 335-372

Torrego, E. (1984). "On Inversion in Spanish and Some of its Effects". Linguistic Inquiry, 15, 103-. 130.

