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A Salish Stage in the Acquisition of English Determiners: Unfamiliar 'Definites'

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A Salish Stage in the Acquisition of English Determiners: Unfanjiliar 'Definites' Lisa Matthewson, Tim Bryant and Tom Roeper University of Massachusetts, Amherst

While the adult English determiner system encodes a definiteness distinction, many languages do noit do so. This cross-linguistic variation raises the question of how the acquisition of determiner systems proceeds. In this paper we report on an experiment which indefinite articles. On the basis of the results from this experiment, we propose that children acquiring English go through a stage during which their determiner system parallels that of Salish languages, rather than adult English, in the distinctions it encodes. We then speculate about the possible consequences of this analysis for the theory of language acquisition.

1. Introduction

In adult English, the determiner system encodes whether or not discourse referents are already established in the discourse. It does this by means of the contrast between *the* and α , as illustrated in (1). While (1a) is felicitous in an out-of-the-blue context, (1b) is not; (1b) requires that all interlocutors share knowledge of a previously-introduced girl.¹

(1) a. A girl sang. b. The girl sang. However, there are languages which do not make this distinction in their determiner system. One such language is St'at'innects (Lillooet Salish). In St'at'innects, determiners encode whether or not the speaker is able to make an existential assertion about an individual (Matthewson 1998). Thus, the distinction between (1a) and (1b) is absent. If the speaker knows that a girl existed, and that she sang. (2) is the appropriate unterance. It is irrelevant whether or not the hearer shares knowledge of this girl (see section 2 below for further details).

 ft'-em [ti smém'lhats-a] sing-NTR [DET girl-DET]
 The/a girl sang.' This cross-linguistic variation raises an interesting question for acquisition, especially when combined with the observation that there is some delay in the acquisition of the semantics of the English definite article (see e.g. Maratsos 1974, Schaeffer 1999, Matthewson and Schaeffer

¹ We are assuming Heim's (1982) 'familiarity' theory of the definite / indefinite contrast, and we are simplifying for the purposes of exposition. See section 6 below for discussion of some uses of the definite article which are not straightforwardly captured by the 'familiarity' theory.

2000, Schafer and de Villiers 2000, among many others). The possibility arises that children who are acquiring English pass through a stage when they display a St'át'innets-like determinet system. The current paper reports on an experiment designed to test this hypothesis. We will argue that children do indeed pass through such a stage.

The structure of the paper is as follows. In section 2, we introduce the St'4t'incets determiner system, and outline our hypothesis about a 'Salish stage' in the acquisition of the Baglish determiner system. Section 3 describes the experiment, and section 4 presents the results. We will show that a subset of the English-speaking children had productions which mirrored the predicted responses of adult Salish speakers. Section 5 discusses and analyses the results. In section 6, we speculate about the consequences of our findings for the theory of language acquisition of. We suggest that a 'Salish stage' in the acquisition of English determiners is not an accident, but could be an inevtable step on the path from those grammars that lack determiners altogether to those which encode definiteness in the English way.

2. Salish determiners

St'at'incets (also known as Lillooet) is a Northern Interior Salish language spoken in the southwest interior of British Columbia, Canada. The language is endangered; almost all fluent speakers are over the age of 60. Example sentences come from fieldwork unless otherwise noted, and are presented in the practical orthography of the language created by Jan van Eijk.

In St'ar incets, the basic division within the determiner system is between those determiners which result in an existential assertion, and those which do not. (The system also makes plurality and deticit distinctions which are not relevant here; see Matthewson 1998 for detailed discussion.) The distinction corresponds roughly to the difference between a widest-scope existential quantifier, and a narrow-scope existential quantifier. Some examples are given in (3) and (4) of an existence-asserting determiner and a non-existence-asserting determiner respectively.

(3) a. ft'-em [ti smúlhats-a] sing-nYTR [DET woman-DET] 'The/a woman sang.'

Bx [woman (x) & sing (x)]

b. cw7aoz kw-s ft'-em [ti smúlhats-a] NBG DET-NOM sing-LNTR [DET woman-DET] 'The/a woman didn't sing.'

∃x [woman (x) & ¬ [sing (x)]]

c. cuz' tsa7cw s-Mary lh-t'fq-as [ti qelhmémen'-a] going.to happy NOM-Mary HYP-atrive-3CONI [DET old.person(DIMIN)-DET] 'If the/an elder comes, Mary will be happy.'

 $\exists x \text{ [elder } (x) \& \text{ [come } (x) \rightarrow \text{happy } (m)]]$

(4) a. cw/aoz kw-s ft'-em [ku smúlhats] NEG DET-NOM sing-INTR [DET woman] 'No women sang.'

⊐∃x [woman (x) & sing (x)]

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^{*} We are very grateful to the members of the Umass Acquisition Lab group, to the audience at SULA, and to Henry Davis for helpful feedback and suggestions. We are also very grateful to St at incess consultants Beverley Frank, Gertrude Ned, Laura Thevarge, and Rose Whitey. Thanks to Jeannette Schaeffer for first helping us to see the possible connection between English child language and Saith. This work is supported in part by NIH NO1 DC8-21D4 Contract to H Seymour (Diagnostic Procedum for Identification of Afro-American Speakers) and by SSHRCC grant #410-95-1519 to H. Davi.

As mentioned above, many researchers have observed that children learning English go	a stage where they have not mastered the adult determiner system. The usual claim children during this stage 'overnse' the definite article, they produce definite DPs w corresponding discourse referents are not yet familiar to all discourse participants. As observed by Metrhancon and Cabacka (Anon), 4, 2, 2, 2,	productions of English-speaking children who overuse is a unsunct simularity between the productions of English-speaking children who overuse the definite article and the St'át'incets system. This leads us to propose the hypothesis in (8).		This hypothesis makes the following prediction about English-acquiring children in the stage. These children should accept sentences containing <i>the</i> even when a familiar di referent is not picked out. This amounts to treating English <i>the</i> similarly to St' <i>st'incets ti</i> .	3. The experiment	Account to them s (1982) Tamitarity theory of definiteness, which was introduce briefly above, the English definite article is <i>presuppositional</i> ; it is felicitous only in di contexts where the presupposition of familiarity is met. On the other hand, in St'át'incets Salish more generally, no determiners introduce presuppositions of this kind. This fundamental distinction between the two adult systems.	Based on this idea, we designed an experiment to test whether English-acquiring child aware that the definite article is presuppositional. The experiment tested comprehension than production. The crucial cases involved uses of the definite article which should leave	to presupposition failure, or to a 'no' answer, for English-speaking adults, but which woo to a 'yes' answer for Salish-speaking adults. The child mericinent for the conduction of the risk of the list.	Arrican American) from the Northeast region of the United States. The children ranged from 3 years, 5 months to 7 years, 9 months with the mean age being 5 years, 4 mont adult participants were 25 University of Massachusetts undergraduates from an intro Linguistics class.	The experiment contained four types of test question, with a total of eighteen test qualitogether. Three of the question types involved the actine ont of scrinted stories using	objects (puppets and toys). Participants watched the acted-out scenarios, and after each sight they were asked a yes-no question. The first of the question types contains noun phrase	form a NP, and is illustrated in (9). (9) a NP [Mary rides a scooter] "Look, Mary rode a scooter."	
b. cuz' tsa7cw s-Mary lh-t'íq-as [ku qelímémen'] going to happy NOM-Mary HYP-arrive-3CONT [hær old harscon(Ghama)]	t happy.' appy (m)	Crucially, familiarity is irrelevant to determiner choice in this language. This is illustrated in (5) and (6). $(5a,b)$ contain discourse-initial utterances; the referent of the noun phrase is unfamiliar to the listener in each case. The determiner used is $t_{i,,a}$.	(5) a. áts'x-en-lhkan [ti wa72 qwetsp p[ktsa] i see-TR-ISG.SUBJ [DET PROG move picture] when PAST evening-3CONJ 'I saw a movie last night.'	 b. húy'-ihkan ptakwlh, ptákwlh-min lts7a [ti smém'lhats-a] going.to-18G.SUBJ tell.story tell.story-APPL DBIC [DET woman(DIMIN)-DET] 'I am going to tell a legend, a legend about a girl.' 	In (6), the second sentence in each case involves coreference with a discourse referent which is familiar to the listener, by virtue of having been overtly introduced. The determiner used is still $t_{i,a}$.	(6) a. húy'-lhkan ptakwih, ptákwih-min lts7a [ti smém'lhats-a] going.to-18G.SUBJ tell.story tell.story-APPL DEIC [DET woman(DIMIN)-DET] 'I am going to tell a legend, a legend about a girlj'	wa7 ku7 flal láti7 [ti smém'lhats-a] PROG QUOT cry DEIC [DET woman(DhAIN)-DET] The girli was crying there.' (van Eijk and Williams 1981:19)	b. ts7a [ti 111'tun-a smúthats] papt káti7 wa7 t'ak szácen ti ts'147-a here [DET old-DET woman] always DEIC PROG go carry DET basket-DET "There was this old womanj who was always carrying a basket"	cw7aoz kw-a-s ka qwál'-a [ti smúthats-a] NEG DET-PROG-NOM OOC speak-OOC [DET woman-DET] The womani didn't say anything.' (van Eijk and Williams 1981:80)	This situation contrasts with English, where familiarity or otherwise of a discourse referent is obligatorily marked, as illustrated in (7) .	(7) a. I'm going to tell a legend about a girli The / #a girli was crying.	Summarizing so far, we have seen that in adult English, the distinction between familiar and novel discourse referents is overtly encoded; a definite DP cannot be used to introduce a new discourse referent. In St at innects, on the other hand, the distinction between familiar and new discourse referents is not overtly encoded. The same determiner (<i>tid</i>) can be used both to access a familiar discourse referent and to introduce a new one. This feature of lacking a familiarity-based definite/indefinite contrast is shared by all Salish languages for which adequate data exist (see Matthewson 1998 for an overview).	

² The enclitic portion of the article ti...a is deleted after the progressive auxiliary wa7.

³ Although the similarity between the English-acquiring children and the St'at'incets adults was already noticed by Matthewson and Schaeffer (2000), a different theory was proposed there to account for the English children's system.

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in adult English, and requires a 'yes' answer. The prediction for a Salish stage is also for a 'yes' answer, since in adult Salish the corresponding question means, 'is it the case that there is a introduced and crucially the question is felicitous corresponds question in (9) contains an indefinite noun phrase (a scooter) which novel discourse referent, since Barbie's scooter has not been overly differs from the overtly-introduced scooter that Mary rode.⁴ Therefore, answer, since in adult Salish the corresponding question means ' scooter that Barbie rode?' These predictions are summarized in (10). ves-no The

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predictions: a NP <u>(</u>0

Adult English predicted answer: YES. Salish-stage predicted answer: YES. ተተ

to a novel discourse An example is given The next group of questions also contained a noun phrase corresponding referent, but in this case, the noun phrase was definite rather than indefinite. in (11).

- [Try to put a necklace on Bert, but it falls off] "Every time Bert puts his necklace on the necklace falls off. The necklace is broken. the NP Ē
 - - [Put a different necklace on Ernie] "Look at Ernie. Did Ernie wear the necklace?"

adult English speaker is not predicted to answer 'yes' to this question, since the necklace should pick out the already-introduced necklace that Bert tried to wear, and not the necklace that Ernie ends up wearing. We predict that an adult English speaker will answer either with 'no', or with an overt challenge to the presupposition failure which is induced (a., the adult might challenge the experimenter on their use of the necklace when referring to a necklace other than Bert's). For Salish, on the other hand, we predict a 'yes' answer. This is because familiarity is irrelevant for Salish article use, and the corresponding Salish question means something like 'there is a necklace, did Ernie wear it?" predictions for these questions crucially differ between adult English and adult Salish. The

the NP predictions: (12)

- Adult English predicted answer: NO (or challenge). Salish-stage predicted answer: YES.
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questions were controls. The first of these contains it questions, The remaining two groups of and is illustrated in (13).

- [Bert drinks from a cup] "Look, Bert drank from a cup." ÷ 3)

from a different cup] Ernie drink from it? [Ernie drinks f "Did Ernie dri 4 In all cases, the second object introduced differed visually from the first, e.g. it was a different color and/or size

The *it* questions are predicted to give rise to 'no' answers, both for adult English and for Salish-stage speakers, since in both English and Salish, the pronoun *it* should pick out the already-introduced cup which Bert drank from.

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it predictions: []

- Adult English predicted answer: NO. Salish-stage predicted answer: NO. ተተ

These it questions were included as a control set, to test whether the children understand familiarity, independently of their article systems. If there is a difference between the children's we will have strong of their article systems. If there is a difference between the children' responses to the *it* questions and their answers to the *the NP* questions, we will have strond supporting evidence for the claim that their 'problem' has to do with the determiner system rather than with presuppositional items in general

The final type of questions contained out-of-the-blue *the*, and were of the form illustrated in (15). These questions all involved clear presupposition failures induced by the definite article.

"Did you get the elephant out of your hair?" (15) What is crucial about these questions is that the presupposition induced by *the* cannot plausibly be accommodated. For example, it seems impossible for someone hearing the question in (15) to accommodate the presupposition by adding a discourse referent for an elephant into the common ground, since it is clear that there were no elephants in the listener's hair.⁵ Given that presupposition accommodation is impossible, the prediction for an English adult speaker who hears (15) is that the presupposition failure should be challenged. For example, an expected response might be 'What elephant?'. Thus, this group of questions should allow us to probe more closely into whether the children know that the definite article introduces a presupposition in English

the-blue questions with a simple 'no', since the Salish article does not induce any presupposition. However, there is a slight complicating factor, which is that when such a strange question is asked, a speaker might still challenge the existential assertion (since the question maans something like 'there was an elephant, did you get it out of your hair?'). Therefore, the predicted differences between the two for any grammars are not as clear as we would have liked for this set of questions. See section 5.3 below for discussion of a follow-up pilot experiment on Julike an adult English speaker, an adult Salish speaker should be able to answer such out-ofpresuppositional items.

[16) out-of-the-blue the NP predictions:

etc.). Adult English predicted answer: challenge (WHAT ELEPHANT, etc.). Salish-stage predicted answer: NO or challenge (WHAT ELEPHANT, ተተ

See the Appendix for a complete list of the experiment questions. The questions were given in a mixed order (i.e., not all questions of one type were grouped together).

answered with simple 'yes' or 'no' answers to these questions, never challenging the presupposition failure of the definite article. Since one possible explanation for their failure to pilot versions of the experiment, we used questions which were less 'outlandish', such as 1 you see the girl in the bathroom?" or "Does the key fit the lock?". Children consistently vered with simple 'yes' or 'no' answers to these questions, never challenging the challenge the presupposition was that they were accommodating the presupposition, we revised he questions to be 'non-accommodatable' answered 5 In , Did U

Group' count represents a subgroup of the child participants, whereas the 'Salish-Stage in large part according to the Salish-stage predictions. For the out-of-the-blue *the* questions, the percentages in the table refer to the number of challenge responses given. percentages of labeled 'Child Table 1 displays the predicted adult Bnglish and Salish responses, along with the J 'yes' responses given by each group of participants in the study. The column l Results (All)' contains the results from all 25 child participants, whereas the 4. Results

Table 1

					_
Salish-Stage	18/22	29/36	1/17	*1/23	
Group	(81%)	(80%)	(5%)	(4%)	
Child Results	69/84	108/150	43/75	*8/100	
(All)	(82%)	(72%)	(57%)	(8%)	
Adult English	98/100	24/148	18/100	*62/100	
Results	(98%)	(16%)	(18%)	(62%)	
Salish Stage Prediction	yes	yes	ou	no/what	
Adult English Prediction	yes	ou	ou	what	
Experimental	Did Barbie ride a	Did Ernie wear the	Did Ernie drink	Did you get the	
Question Type	scooter?	necklace?	from it?	elephant out?	

* represent % 'challenge' responses

are divided into those involving Table 2 gives the raw data for the Salish-Stage Group of children. The questions the four groups discussed above; those involving a NP, those involving the NP, it, and the out-of-the-blue the cases.

Table 2

	and the second se						
	Salish-Stage Prediction	Child 1	Child 2	Child 3	Child 4	Child 5	Child 6
a NP 1	Ves	DD	Ves	VAC	2		0011
a NP 2	Vec	UPC	2011	3		21	36
2 N/D 2		31	3	3	3	3	yes
4 (M 2	Yes	yes	yes	yes	Ves	ves	•
a NP 4	yes	yes	yes	yes	yes	ves	
the NP 1	yes	ves	ves	ves	Ves	Ves	VAC
the NP 2	yes	yes	ou	ves	2	S C	VAS
the NP 3	yes	yes	yes	ves	8	2	VES
the NP 4	ycs	yes	yes	ou	Ves	ves	Ves
the NP 5	yes	yes	yes	yes	ves	ves	ves
the NP 6	ycs	yes	yes	yes	Ves	ves	ou
it 1	ou	ou	ou	ou	01	ou	UU
it 2	no	no	ou	01	ou	ou	Q
it 3	no	ou	01	VCS	ou	ou	
out-of-blue 1	no/what	ou	what	2	8	Q	Qu
out-of-blue 2	no/what	ou	•	Ves	ou	ou	ves
out-of-blue 3	no/what	ou	yes	ves	ou	ves	ves
out-of-blue 4	no/what	ou	QU	Ves	2	2	VAC

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Discussion

The first striking thing to note about Table 1 is the difference between the adult responses to the *the NP* questions (16% 'yes' answers) and the children's responses to these questions (72% 'yes' answers, across all the children). Considering that the Salish-stage prediction for these questions is a 'yes' answer, this strongly supports our hypothesis that English-learning children go through s a 'yes' answer, ti Salish-like stage. The second important result is that we were able to isolate a group of six children whose productions closely mirrored the predicted responses of the adult Salish speakers. The mean age for this group was 6 years 3 months. As can be seen from Table 1 and Table 2, this group of children not only answered with 'yes' to the *the NP* questions, as a Salish speaker would, 80% of the time, they also very consistently *failed* to answer 'yes' to the *it* questions. This indicates that while these children are avare of familiarity and presupposition, they are not using these notions in their article systems. Again, the existence of this group of children supports our original hypothesis that there is a Salish stage in the acquisition of the English determiner system.

In the remainder of this section we discuss the results in more detail, highlighting also some questions for further research

5.1. Adult responses

The adult responses provided good support for our base-line assumption that the scenarios tested require an indefinite article in adult English. When a definite article was used (as in e.g. 'The car is broken. Did Bert drive the car?'), adults gave 'no' responses 84% of the time. The adults' clarifications of their replies were especially revealing; some examples are provided in (17).

- "Not THE hat, A hat." طح در مع مرجع 3
- "No, he drove a different bike." "Bert wears his hat, not Ernie's."
- "Bert is wearing a hat, but not Ernie's hat." "No, Mary took A scooter not THE scooter.

 - "Mary took HER scooter.

The responses in (17) overtly challenge the incorrect use of the definite article in cases where a novel individual is being referred to.

The question might be raised as to why there were still 16% 'yes' answers by adults to the *the* NP cases. It is not the purpose of the current paper to investigate this issue, especially since there was still a very marked difference between adults and children with respect to precisely this point (16% 'yes' answers vs. 72% 'yes' answers). However, we would nevertheless like to The quest NP cases. was still

⁶ The Salish-stage group consistently failed to answer with 'what?' responses to the out-of-the-blue *the* cases, which is consistent with the idea that in Salish, the corresponding determinet does not induce a presupposition. However, we noted above that the contrast between the English and Salish adult grammats is not as clear as we would have liked for this test, since an adult Salish speaker could challenge the assertion of existence of e.g. an elephant. It would be interesting to contrast the percentage of challenge responses to presupposition-inducing items *not* involving determiners (see section 5.3 below for discussion of such an experiment).

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y 5.2. Children's responses	As mentioned above, the children generally offered many more 'yes' responses to the <i>the NP</i> cases than adults did, a result which supports our hypothesis of a Salish stage in the acquisition of English determiners. However, the most important result concerns the sub-group of children (six in total) whose productions closely mirrored the predicted responses of an adult Salish speaker. The results for this group of children are repeated in (20).	(20) Results for Salish-stage gr <u>a NP</u> <u>2913</u> 2913 2913			fact that no child exhibited a pattern like an adult reveals both the intricacy of this domain and the subtlety of the experiment. It is plausible that children are working out details here until a very late stage. In addition, a subtle experiment offers more possibility for distraction. Therefore we find it particularly noteworthy that a clear set of individuals patterned exactly as Salish advite 7		As discussed in section 3 above, the questional items out-of-the-blue definites were designed the definites were designed to determine whether the children would challenge a presupposition failure induced by the definite article. As can be seen from Table 1 above, only 8% of the children's answers to these definite article. As can be seen from Table 1 above, only 8% of the children's answers to these definite article.		pronominal reference with ease. On the onthe thank, there are cases where children seem to fail to construct a discourse property, for example with wh-words that are D-linked. ("Here is a group of boys. Which ones are weating hats?" Pointing to girls with hats in the picture is incorrect for	
propose the following hypothesis about what could be going on with the 16% 'yes' answers by	Firstly, note that the familiarity theory of definiteness which we are adopting requires defining the sub-part of the entire world within which there must be a unique familiar discourse referent. For example, the mere fact that the listener has encountered a situation at <u>some</u> stage in their life which contains a unique elephant is not enough to license the use of a definite description <i>the</i>	elephant. The elephant must be familiar within some current discourse situation. Secondly, it is known that the mere presence of an individual in the interlocurs' visual fields can sometimes be sufficient to license the use of a definite description, even if that individual has not been overly referred to (see for example Heim's 1982 discussion of this issue, and see also Hawkins [978).	Putting these two facts together, it seems that it could be marginally possible for the adults to view the second sub-part of each scenario as a new discourse situation, within which there is a unique e.g. bike or car which has been visually introduced. This would license the use of <i>the</i> , and account for the possibility of a 'yes' answer (thanks to J. Michael Terry and Jill de Villiers for discussion of this idea).	This idea is supported by a group of adult English speakers (18/148 responses, 12%) who gave answers consisting of 'yes' plus a clarification. We interpret this type of response, which is illustrated in (18), as meaning that these adults were being 'charitable' in allowing the use of the definite, but clarifying that it was a new discourse referent rather than the previously-established one which is being picked out.	 (18) a. "Yes - HIS car." b. "Yes, but it is not the same as Bert's." c. "Yes, but a different scooter than Barbie's." 	The explanation just outlined can also directly account for the 18% 'yes' answers by adults to the <i>it</i> questions.	It is worth mentioning that there is an interesting alternative hypothesis which could account for the adult 'yes' answers to the definite cases. This is that there may be a residue of the Salish option even in adult Bnglish. See section 6 below, where we briefly discuss an experiment by Shafer and de Villiers (2000) which provides initial evidence that this might be the case.	Returning to our experiment, one result which might initially appear surprising is the fact that a proportion of adults did not respond with challenges to the out-of-the-blue <i>the</i> cases; only 62% of these questions elicited a 'challenge' response. However, this is only an apparent problem. Investigation of the actual responses reveals that almost none of the non-challenge answers consisted of a simple 'yes' or 'no'; almost all of these answers were jokes. Some examples are	given in (.9.). (19) a. "Yeah, I sold her to the zoo to pay off tuition." b. "Before or after it crippled me?"	In summary, then, the adult data supports our base-line assumption that the scenarios tested require an indefinite noun phrase in adult English. We now turn to discussion of the children's results.

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questions was not as clear as we might have liked. Moreover, we up up up to f an evidence that children would challenge a presupposition failure made on the part of an experimenter, even if the children had the presupposition firmly in their grammar (thanks to Barbara Partee and other participants at SULA for discussion of this point). Therefore, we designed and ran a small pilot experiment to test whether children are willing and able to

our main of various Ę This pilot experiment tested eight children from the same geographical region as for experiment. The children were asked questions containing presupposition failures examples of questions asked are given in (21) experiment. kinds. Some e

- (21)
- (said by experimenter who is not wearing a skirt) (asked at time when children have not eaten soup) "Look, do you like my skint?" فعة
 - "Do you want more soup?" (asked at tin "Do you want to read the newspaper again?" "Do you want to jump over my car again?"
 - 50

While not

all children responded with challenges to these presupposition failures, there were clear challenge responses, examples of which are given in (22). number of

- "I didn't cat no soup.' فد ته 2
 - "I didn't drink no soup." "I didn't do that."

 - ن ټ ن ټ ټ
- "T can't read no newspapers." "T didn't have no coffee." "T didn't go up on no roof."
- presupposition failures by adult experimenters. If this is correct, then it provides more support for our claim that the tendency for children to answer 'yes' to incorrect uses of the definite article relates to the developmental stage of their determiner systems, rather than to some more general 'problem' related to presuppositional items in general.⁸

The Determiner Path in Acquisition Theory 6

In this section we provide some discussion of the implications of our results for the theory of language acquisition. We shall outline the theoretical challenge, discuss the acquisition logic, and attempt to integrate the data which supports our perspective. Our claims throughout are more or less tentative, since these are large questions which are in many cases only just beginning to researched 5 8

Therefore, uses. This assumption, far from necessary, reflects an emerging consensus. We assume that a child requires a "triggering experience" (Chomsky 1976), which entails simultaneous and coincident information from syntax, semantics, and the pragmatics of situations in order to justify a change distinctions are often reflected in syntactic trees. part of the triggering information that the child Let us assume firstly that semantic semantic distinctions are a natural in the grammar.

Secondly, let us assume that UG has a set of universal syntactic options, in a fixed hierarchical order, from which the child must select those appropriate to his or her grammar. While

, since the adult determiners. ⁸ In this respect, the Salish-stage children directly parallel adult Salish speakers, Salish grammar contains many presuppositional items, but lacks presuppositional

X IS and te and subject to cross-linguistic variation. Parallel arguments for CP, for adverbs, and the intricate variety of properties of N/NP and DP suggest that each grammar selects a of possible nodes, or of distinguishable Feature Bundles for particular nodes (and/or complex 6 the possible ithin 5 indicates that the substructure fundamental relations of dominance appear to be universal, the range particular options for semantic composition).9 The work of Pollock now extensive. g finally intrica subset

upshot for acquisition is that the child must select which semantic options, and hence which nodes, are in his grammar. The

various parameters. For instance, the presence of missing subjects in English ("seems nice") could lead to a mis-setting of the pro-drop parameter. Therefore, the child's grammar may (a) undergo rapid reversals, or (b) maintain partially incompatible grammars for different lexical domains (much as we maintain different affixation rules for Anglo-Saxon and Latinate well-known that what the child hears contains many contradictory clues (see for example Weissenborn and Roeper 1991). The surface of language provides information that will support almost any grammar - in a word, data are available which could lead to opposite settings of grammar? It of the target part does the child go about determining which options are vocabulary How

The child, then, should systematically consider and reject inappropriate grammars. Rejection of grammars requires crucial counter-evidence. Williams (1981) has argued, in this vein, that UG is organized to maximize falsifiability.

that the child Turning to our particular concern, namely the acquisition of article systems, note the would encounter evidence that falsifies a Salish determiner in the following context: Adult: "I got a book for Christmas, but I am not reading the book now." (said while reading another book). ຄິ

This sentence can be construed as true only under the non-Salish English assumption that *the* induces reference to a unique familiar entity in the discourse. If the child assumes the correctness of the adult grammar, then this sequence forces rejection of the Salish grammar. This kind of information should shift the grammar to the unique referent criterion which fits English. More refined contexts might allow a reflection of the Salish option to continue in the adult grammar (see below)

e.g. Roeper 1973. 1981 that all of a child's output should be seen in grammatical terms. 1970s (see leads immediately to the natural aquisition assumption of a minimal (economic) grammar as the Initial State which is expanded in response to evidence, a perspective which has emerged independently from intuitional similar grammar of children Where does the acquisition process start? Although the hyper-abbreviated

A plausible hypothesis is that the initial state grammar contains no determiners at all, since grammars exist without them, such as Chinese. This claim is easily supported: children begin

⁹ Cinque (1999), for instance, argues that there are 62 distinguishable adverb nodes, while Rizzi (1997) argues for a five-way split in the CP. While one may assume that there is a universal syntactic hierarchy, it apparently allows for refinements which reflect particular grammars. ¹⁰ This approach has come to be widely accepted, but the issue has been heartily debated for formulation of UG (see for instance Crain and Thornton 1998).

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Under this perspective, as the child moves down this list (which is like "moving up the tree"), he or she should acquire more distinctions. The basic hypothesis is that children move from N, to NP, to DP. Within the NP category we have listed different sub-categories, which could differ from each other, but which also share syntactic properties (for example, not functioning as syntactic barriers to movement).¹³ The order we offer here for the different sub-cypes of NP is In effect, higher nodes in the tree are where most, if not all, language particular decisions are reflected. This has the following consequence: Under the perspective just proposed, there would be a progression from N to NP to DP, with each of these forms containing further distinctions, or perhaps having slightly different node definitions (as proposed in Categorial Grammar and also under Bare Phrase Structure). In schematic form we have: looks progressively for distinctions that expand the syntactic / semantic tree toward more ifficity", with familiarity / uniqueness marking the "most specific" option. The same claim holds for Chinese speakers. Therefore the acquisition logic reflects a profound asymmetry in UG^{-14} (ii) Here is a house. The roof is nice. ¹³ See Pérez-Leroux and Roeper (1999) for discussion of syntactic differences between N, NP It is worth noting that the traditional assumption in cognitive psychology is that children only derstand unique reference, since all forms of generalization come later. We are arguing that parallel to many other arguments in acquisition, we can advance the hypothesis that the In the acquisition of a determiner system, the child must pass through a Salish stage. represented, much less acquired. Therefore our proposal should be seen as an acquisition sketch of course, far from a full theory of how all these distinctions should merely a conjecture, since we really do not know yet when the finer distinctions appear NP+ contrast two introduced sets => the (English dialect) Salish speakers should never go through an English stage in acquisition. DP+ familiar/unique => the (English) There is a strong hypothesis that follows from this Determiner Acquisition Path: NP+ familiar or non-familiar member of a set \Rightarrow ti...a (Salish) DP+ part/whole marker => *the* NP+ specific member of a set => NP+ expletive => the a NP+ non-specific member of a set => grammar imposes the opposite assumption. (25) N = Kind/generic understand unique 2000). We are, "specificity" and DP 14 It is Now, child I (<u>3</u>0) 6 ¹¹ Imagine that a man says to his wife after a bike trip, "I put all the bikes in the garage," to which she replies, "but you didn't put THE bike in the garage did you?" The stress would lead the hearer to search for a specially designated object, like the hidden birthday present bike. ¹² (i) seems to be more difficult for a child than (ii): a child. The full story of their acquisition is quite incomplete. There is evidence that children grasp part l whole relations before unique reference (Schafer and de Villiers 2000, Avrutin 1999),12 and that they overuse expletive determiners (de Villiers and Roeper 1995, Baauw These contrasts, though not all common in linguistic discussion, are common in the daily life of Expletive *the:* "He has <u>the</u> ability / audacity / acumen /... to sing." (de Villiers and Roeper 1995, Baauw 2000) which, minimally, the child must consider or reject Member of one of two introduced sets (English dialect): "Here's two cats and three dogs. One fell over, which one?" "Did you bring THE hat?" (special shared knowledge)¹¹ "John has a cookie. Bill ate the cookie." (can be Bill's) Unique familiar object: (English) "John has a cookie. Bill ate <u>the</u> cookie." (= John's) "Where's the bathroom?" "Oh, I left my book on the counter at the store." "I have a toy airplane, but the wing is broken." Cultural familiarity / Easy accommodation: "The dog." (Schafer and de Villiers 2000) Specific indefinite: "I am looking for <u>a</u> book." (particular) (and this is probably an incomplete list) us consider the range of distinctions Forms of "non-specific" reference: with bare nouns (e.g., "I want cookie."). Part-whole connection: Any member of a set: "want a cookie" "want cookie" (child) Forms of "specific" reference hat. The hat is big Generic or kind: "cookie-cutter" Contrastive Salish:

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Here is a

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 Given two contrastive sets, 30% of respondees could refer definite. Note that as expected, if one refers to the whole set, (29) Experimenter: "Two cats and three dogs were on a fe One bunch fell off. Which?" (29) Experimenter: "Two cats and three dogs were on a fe Thus, in a sense, the Salish grammar reappears when referrinements inside it for some speakers. "The a sense, the Salish grammar reappears when referring the provided an example where one interpretation erace not such that one excludes the other, or in cases where (19) which have slightly inconsistent parts leading to subtle dia continuouple drammars. The refined environment is "Salish" answer should come as no suprise. In effect, a grammar, but has pieces of Multiphe Grammars (Rooper (19) which have slightly inconsistent parts leading to subtle dia child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish grammar means that it is child pases through a Salish speaker to 'revert' to reappear in unusual contproposed, we would not expect a Salish speaker to 'revert' to proposed, we would not expect a salish speaker to 'rever' to threefore we sought evidence that children util score to the pursued a classic logic in this paper. Given the forture strement in the evidence there the strement in the evidence at the conclusion at the strement. The evidence at the strement in the strement the strement in the conclusion at the strement in the strement of the strement in the strement in the strement of the strement in the st	 Statist and de Villarer Goldon Tarley Fordanders i franchen och solution and de Villarer of the author and the author and de Villarer of the author and the au	st in which a / sh-type English ne St' at inncets							-	-					0	9			(2)	ţ				e an option for		(4)	÷						[BERT WFA BING THE BI A CK UAN]			A LIC HAL GERS THIN OVER DY A CAR AND IS GONE. HERE COMES BERT,	-			-			(3)	ŝ		-																		(7)	(7)	(2)	ē	ę				-								In a non-unique	th a non-unique	th a man			Colifet momenta and and a second s	Colist management of the second se					LUUX, MATY TODE & SCOOLET.																		6	(F)	(T)					6							e	E		÷	ŧ	:					:	:						The own will unlee upgs were on a rence.	T WO VALS ANIU ULITEC UDES WELE ON A FENCE.	I WU CAIS AND UNCE DORS WERE ON A FENCE.	1 WO Cals and three dore were on a fance	W Cate and three down mean on a firm		
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Did Bert use the horn?

Look, Bert drove a car. Ernie looks busy. Did Emie drive a car? ⊛

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¹⁵ This reader may note that this resembles "the emergence of the unmarked" in Optimality Theory, and has also been discussed as a "subparameter" in acquisition (Weissenborn and Roeper 1991).

Did you get the giraffe off the table?

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Look, Bert has a cup. Emie looks thirsty. (<u>0</u>

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Ernie have a cup? Does]

Look, Bert wants to ride his bike home from school, but his tire is flat. The bike is broken. Ernie is riding home. (E)

Did Emie ride the bike

Every time Bert puts his necklace on the necklace falls off. The necklace is broken. Look at Ernic. (13)

Did Ernie wear the necklace?

knee? Did you get the airplane off my (13)

The scooter that Barbie likes to ride is broken. Look, Barbie wants to go to the movies. Mary is riding to the movies. (14)

Did Mary take the scooter?

Look, Ernie has a hat. Bert looks hot. <u>(5</u>

Does Bert have a hat?

Look, Bert drank from a cup. 9

Did Ernie drink from it?

Did you like the food? 3 Look, Bert threw a phone. Look, Ernie is in a bad mood. (18)

Did Ernie throw it?

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