Reprinted from

journal of **PRAGMATICS**

Journal of Pragmatics 32 (2000) 1363-1386

Language mixing in the weak language: Evidence from two children[☆]

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journal of PRAGMATICS

An Interdisciplinary Journal of Language Studies

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Language mixing in the weak language: Evidence from two children **

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opment of the beginnings of code switching. © 2000 Elsevier Science B.V. All rights guage choice as a function of addressee. Again, the two children show differences in develswitching in adult bilinguals. The roots of code-switching can be seen in the early use of langual child begins to produce in her weak language has a profound impact on the type and the differences in mixing patterns over the time period. It is argued that the age at which a bilinfrequency of code-mixing. Language mixing in young bilinguals is very different from codeing for both children reflects their dominance in French. However, the two children show ering their first intensive contact with English, their weak language. The pattern of code-mix English bilingual sisters (2;3 and 3;6). Their production is studied during a time period cov This study examens the frequency and the type of language-mixing in two young French

1. Introduction

codeswitching ask questions concerning the functions or conversational activities a instance, bilinguals can use codeswitching to mark direct speech or side sequences in bilingual performs when s/he codeswitches (Auer, 1984, 1998b; Wei, 1998). For 1995, 1998; Jørgensen, 1998; Sebba and Wootton, 1998). Discourse perspectives on tool for speaker identity and speaker alignment (Myers-Scotton, 1993; Rampton, Considered from a social constructionist point of view, codeswitching is a powerful The complexity of codeswitching has been studied from a variety of perspectives.

of French and English: a longitudinal study? Foundation and the Harvard Graduate School of Education (1988-1989), 'The simultaneous acquisition The work reported on here was made possible through a grant given to the author by the Spencer

a narrative (Gumperz and Hernandez-Chavez, 1972; Romaine, 1989). Yet another utterances (Pfaff, 1979; Poplack, 1981; Sankoff and Poplack, 1981; DiSciullo et al., perspective on codeswitching investigates structural constraints on codeswitching; what kinds of elements can be switched and where switching can occur in bilingual 1986; Muysken, 1990).

day to the next. It is an additional competence which the bilingual child must acquisition of both languages. Bilingual children will become bilingual adults. studies of bilingual first language acquisition, language mixing is considered somein young bilingual children is the same thing as codeswitching in adult bilinguals. In imposed by both languages (Poplack, 1980). No one would argue that code-mixing bilingualism. It has even been argued that certain types of code alternations in adult studies of adult bilingual speech, code alternation is considered an integral part of registers, styles or voice during conversation, bilinguals may switch languages. In in conversations between bilingual individuals. Just as monolinguals may switch Codeswitching competence does not emerge full blown in a bilingual child from one thing that the bilingual child will eventually overcome through further mastery and bilingual speakers are proof of complete control over the syntactic apparatus Codeswitching is a widespread phenomenon in bilingual speech communities and

results in a large number of mixed utterances in which grammatical morphology guage dominance. An abrupt change in the children's language environment dominant in French for production. The mixed elements in their English producwith English, their weak language. Before their first intensive contact with Engis very different from codeswitching of adult bilinguals. Language mixing in the torces them to produce more in their weak language. This forced production tion, essentially one-word units, are very predictable and strongly related to lanlish, the two children were balanced bilinguals in comprehension, but were very two bilingual sisters to be studied here abounds during their first intensive contact from the strong language, French, is called upon to bolster up the weak language, The work presented here will show how language mixing in young bilinguals

ductions in French at the beginning of the study reported on here are essentially twoword combinations. The oldest child (3;6) is well beyond this stage in her strong first intensive contact with the weak language is important in understanding mixing language. The developmental stage attained in the strong language at the time of the The two children differ in age by fifteen months. The youngest child's (2;3) pro-

ences, however, in their ability to switch language as a function of the language of bilingual development. It will be argued, however, that there are important differbeginning to emerge in the children's production. The two children show differin the two children's production. Codeswitching, as opposed to language mixing, is their addressee. Intense contact with the weak language is an essential factor in their One particular type of code alternation, situational codeswitching is just emerging

ences between the children due to differences in age and developmental stage of the

2. Situational codeswitching vs. non-situational codeswitching

and Gumperz, 1972; Auer, 1984; Jørgensen, 1998). refer to discourse functions of language alternation in bilingual interaction () tings in conversational situations. Non-situational codeswitching will be use ing will be used here to refer to language choice based on participants, topics o situational or metaphorical (Gumperz, 1982) codeswitching. Situational codesw that between situational or participant related (Auer, 1984) codeswitching and, ing role in speech events (Gumperz, 1982). An important distinction to be dra Early approaches to codeswitching were particularly interested in its context

ing on their interlocutor (Genesee et al., 1995; Goodz, 1989, 1994; Meisel, 1 son families are sensitive to the language of the addressee. In their second ye Much research has shown that bilingual children raised in one language - one two languages according to situation, inside the home versus outside the h children, according to the parents' strategies for using the two languages with environment. Still other parents opt to use only one language in the home. R home. Others maintain a strict 'one person-one language' principle within the l child. Some parents speak both languages to the child, inside as well as outsid erature, Romaine (1989: 165-168) establishes an inventory of types of bilir life, they reveal this sensitivity through the appropriate choice of language dep than differentiate the two languages according to speakers, these parents separat the choices they make concerning language use in the home. In her review of th codeswitching. Research on young bilinguals has emphasized how families diffi Some young bilinguals, very early on, have been shown to use situat

social relations. Romaine (1989: 151) gives an example of this important symbol and English emphasize the boundaries established in discourse between 'we' guals, Punjabi is reported to signify in-group, informal, personalized activities, w distinction between in-group and out-group signaling. For Punjabi/English b use codeswitching to emphasize their identity as mixed (Poplack, 1980). A selection in bilingual conversations (Auer, 1984, 1998b). Bilingual speakers can erate children, bilingual conversationalists can use codeswitching to mark addre can spell out words between themselves in the aim of excluding their young pi English signifies more out-group or formal activities. The switches between Pur important expressive function of codeswitching is in establishing 'we' and 't fathers of monolingual children may use another language or monolingual par can be used to include or exclude a particular listener. Just as bilingual mothers (Blom and Gumperz, 1972; Gumperz and Hernandez-Chavez, 1972). Codeswitc dependent on participants or settings, and can mark a number of discourse func-In distinction to situational codeswitching, non-situational codeswitching is

turing functions. It can contextualise side sequences and open or close sequences in conversation. When introducing sign Non-situational codeswitching can also accomplish a number of discourse st

eventual return. Bilingual speakers can indicate such departures and returns by using one language for the main discourse and framing the side sequences with the other language (Alfonzetti, 1998). When speakers, monolinguals or bilinguals, wish to produce a narrative in conversation, they must signal a desire to suspend normal turn-taking practices. Codeswitching can be a useful instrument as a story preface, in which the prospective story teller signals, through a change in language, an upcoming extended stretch of uninterrupted talk (Alfonzetti, 1998). Many functions of codeswitching, then, are not specific to bilinguals, but are discourse functions that all speakers mark using any language (Rampton, 1995). Codeswitching can be considered an additional means of marking discourse function, available only to bilinguals.

The early use of codeswitching as an instrument to struggle for power and rights in conversation has been studied in young Turkish-Danish bilinguals by Jørgensen (1998). This study suggests that up until approximately 8 years of age, language choice among bilingual children depends largely upon situational factors such as participants and setting. It is only after that age that language alternation serves discourse functions such as giving and taking rights in conversation or influencing events according to speaker desires. In Rampton's (1995) landmark study of ethnicity and language use (including non situational codeswitching) among bilingual adolescents in urban Britain, the youngest subjects are 11 years of age.

While situational codeswitching is well attested in very young bilingual children in one language-one person families, non-situational codeswitching would seem to be outside the possibilities of young bilingual children. Full-blown mastery of codeswitching is an additional pragmatic competence that bilingual children must develop. Such a development appears to extend well beyond early childhood. It is not surprising that non-situational or metaphorical codeswitching is not observed in young bilinguals. Discourse related codeswitching requires social, as well as pragmatic and textual competence, that are beyond the capacities of young children, be they bilingual or monolingual.

3. Structure in codeswitching vs. structure in language mixing

Research on formal aspects of codeswitching is abundant. In the brief discussion which follows only one aspect will be discussed: the relationship between interand intrasentential codeswitching and language proficiency. Intersentential codeswitching involves the use of sentential constituents from two languages in the same discourse. Each sentential constituent obeys the grammar of its respective language. Intrasentential switching occurs within the confines of a single sentence or clause constituent. Codeswitching within constituents requires access to the syntactic apparatus of both languages, since each of the monolingual fragments making up the code switched sentence should be internally grammatical (Sankoff et al.,

Come receased armies that intrasentential codeswitching is produced only by the

rative discourse. functions, for example to include side sequences or background information in nar also appear to use more metaphorical, non-situational codeswitching for discursive switching was more frequent in the younger group. Older, more balanced, bilingual tential switching was more frequent in the older bilinguals, while intrasententia anced bilinguals, while the younger group was more dominant in Arabic. Intersen instruction introduced later. The researchers report that the older subjects were bal younger generation, born after this period, was schooled in Arabic with Frenc younger generation (16- to 24-years-old). The older generation attended school whe study. The two groups differed in age: the older generation (28- to 40-years-old), th codeswitching, making only minimal use of intrasentential codeswitching. Other Morocco was a French Protectorate and French was the language of instruction. Th jects avoided intrasentential switching. Two groups of bilinguals participated in the Morocco, Bentahila and Davies (1992) found that the most fluent and balanced sub research, however, argues just the opposite. In a study of Arabic/French bilinguals i Puerto Rican Spanish/English bilinguals to rely heavily on intersententia

Poplack (1980) also noted that for fluent adult bilinguals, higher-level constituents (e.g., sentences or clauses) tend to be switched more frequently than lower level constituents (e.g., one word switches including nouns, determiners, verbs adverbs, adjectives). A very regularly observed exception to this constraint is the cat egory noun, which is particularly favoured for switching (Pfaff, 1979; Poplack 1980; Berk-Seligson, 1986). A bilingual may codeswitch a noun, for example, to refer to a notion which has no equivalent in one language. Myers-Scotton's (1979) work on codeswitching between Kikuyu and English bilinguals in Kenya shows how university students switch to English in Kikuyu sentences to refer to concepts specific to technical subjects.

Language mixing in bilingual children is quite different from codeswitching o older bilingual children and adults in the size of the mixed item. While single-work switches are rare in older bilinguals (except nouns), young bilinguals often show one word-switches in multiword utterances. In addition to the size of the switched element, the type of item mixed is quite different from adult bilinguals. Single-work switches in bilingual children are overwhelmingly grammatical morphemes (Redlinger and Park, 1980; Vihman, 1985; Lanza, 1992, 1995).

Many studies of one parent-one language situations have shown that from the beginning grammatical development in bilingual children (where there is relative balanced production in the two languages) proceeds simultaneously and independently, with no interference between the two systems (De Houwer, 1990; Klinge 1990; Meisel, 1990; Müller, 1990, 1995). However, for many bilingual childrengrowing up in one language – one parent situations, one language wins out over the other. Most typically, the majority language of the community in which the child lives becomes the strong or dominant language, while the minority language, ofter spoken only by one isolated parent, becomes the weaker language (De Houwer 1990; Klinge, 1990; Meisel, 1990; Müller, 1990, 1995). In a very careful examina-

tion of mixing in five French-English bilinguals (ages 1; 10 to 2;2) Genesee et al

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the child's choice of language, young bilingual children do mix the two languages. In particular, young bilingual children mix when there is a dominance of one language over the other.

Petersen (1988) proposes the 'dominant language hypothesis' which predicts a directionality of mixing: grammatical morphemes should come from the child's dominant language. In word internal code mixing, grammatical morphemes of the dominant language are combined with lexical morphemes of the non-dominant language, but not vice versa (De Houwer, 1990). Lanza (1992), in her study of a Norwegian-English child dominant in Norwegian, shows indeed that both bound grammatical morphemes and grammatical words from Norwegian are 'borrowed' into English utterances. English bound morphemes and function words, however, do not co-occur with Norwegian lexical morphemes.

Schlyter (1993) was one of the first to ask about the development of the weak language. Based on her study of young French-Swedish bilinguals, Schlyter (1993) concludes that the strong language exhibits all characteristics of normal L1 development, as regards the development of central grammatical phenomena such as finiteness, word order, and placement of negation. While no studies have claimed that the development of the strong language differs from that of monolingual children of that language, there is growing evidence that the weak language develops in a very different way from the strong language (Jisa, 1989, 1995; Parodi, 1990; Schlyter, 1993, 1994, 1995; Schlyter and Håkansson, 1994).

Schlyter (1994: 69) has enumerated some of the indications in production that indicate a weak language. The child may show a marked preference for using one language in situations where both languages could be used. A second indication is a general reticence to use one of the languages in utterances consisting of more than yes or no. A smaller vocabulary and a shorter MLU in one language as compared to the other are also indications of a weak language. The weaker language, however, exhibits greater variation in the acquisition of central grammatical phenomena, from errors to complete non-existence of the grammatical construction in question. The weak language often shows an absence of modals, subordinate clauses and past reference. The child may avoid marking agreement in combinations of subject and verb altogether, resulting in a high frequency of isolated prepositional phrases and noun phrases. Or the child may replace the missing items by borrowing grammatical categories from the strong language into the weak language.

Language dominance develops when the child has greater exposure to one language and needs it in order to communicate with more interlocutors (Grosjean, 1982; Lanza, 1992). Changes in exposure patterns bring about profound changes in the weak language. The child is called upon to use the weak language in more and varied contexts with a larger range of interlocutors. The purpose of the work presented here is to show how language mixing evolves during a period of intense contact with the weak language. A second underlying purpose is to illustrate that the development of the weak language is influenced by the stage of grammatical development.

4. Methodology

4.1. The two subjects

The corpus reported on here is part of a large longitudinal study of the acquisition of French and English by two young sisters. Systematic audio and video recording began when the oldest child, Odessa, was 2;8 and the youngest, Tiffany, was 1;5 Two-hour recordings were made every two weeks with the children interacting either with their father, or with their mother or with both parents at the same time Both children were born and raised in France. Their father is French and their mother, American. Respecting a rather strict one language-one person principle, the father spoke French to the two girls, the mother, English. The language uses between the parents is French. The children were recorded until the second childrenched her sixth birthday.

In their early years, the children had much more exposure to French than to Eng lish. From the age of three months both children spent roughly 5 to 6 hours a day in a monolingual French-speaking day care center. Until the age of 2;9 Odessa was exposed to English exclusively in interactions with her mother. After that age Odessa began attending a bilingual nursery school in which English was used in the morning and French in the afternoon. While the French teachers in this bilingual school have very little command of English, the English teachers (all native speak ers) speak French. Until the age of 2;3 Tiffany, the youngest girl, received English input exclusively from her mother. At the age of 2;5 Tiffany began attending the same bilingual nursery school as her sister.

The first intensive contact with English took place when Tiffany was 2;3 an Odessa 3;6. The children spent two months with their mother, without their father in California. For both children this was their first contact with completely monolin gual English-speakers. During the two-month stay in California the children wer audio-recorded almost everyday with a variety of interlocutors and their mother. A very rough first transcription was made by the mother within 48 hours of recording These rough transcriptions were annotated with notes concerning the non-verbal situation and background information about the events, objects and people either present in the situation or being talked about. Subsequently, a first complete transcription was made by the mother and then verified by bilingual French-Englis assistants. Part of the data recorded over these two months make up the corpus the will be examined in this article.

While no difference was noted for either child in comprehension of French or English, a very big difference was noted for production of the two languages: French was very clearly the dominant language for production. The mother spoke English to the children, but made no effort to force them to speak English. Their stay in California represented an abrupt change in the community language and produced whe Arnberg (1987) might refer to as a 'linguistic shock' in which the children foun themselves face to face with many and varied speakers of English.

4.2. The data

either French, English or Mixed following De Houwer's (1990) guidelines. A child period representing approximately 12 consecutive days. Thus, Period 1 covers the word utterance, the utterance was coded depending on the language of the other lexoui/yes/ouai/yeah/OK were not counted. When non/no/nah and OK were in a multiitems in it were English. Single word utterances consisting of only non/no/nah or matical) in it were French and an utterance was considered as being English if all the utterance was considered as being French if all the lexical items (lexical and gramfirst 12 days, Period 2 the second 12 days and so forth. Each utterance was coded as non-language specific when the child used them in single-word utterances to refer to (maman/mommy, papa/daddy, dad, mamie/granny, papi/grandpa) were considered ical items. Proper names and kinship terms for the children's significant adults other items in the utterance which determined the classification of the utterance as their own mother, father, grandmother or grandfather and are not considered here. French, English or Mixed. When kinship terms were used in multiword utterances, it was the language of the The data collected over the two months were divided into five time periods, each

change in the children's production over the two months. ances in the utterance type for a given period. When there were less than 50 utterspecific utterances are excluded. Also given on Tables 1 and 2 are the MLUs for ances for an utterance type, the MLU was not calculated. Figures 1 and 2 trace the English, French and Mixed utterances. The MLU was calculated using all the utter-English and Mixed utterances for Tiffany and Odessa respectively. Non-language Tables 1 and 2 give the number and percentage of total utterances of the French,

5. Rapid development of English

Mixed utterances during Period 2 remains stable and falls during Period 5. Period 1 to Period 4, and falls slightly during Period 5. For Odessa, the number of production. The number of Mixed utterances steadily increases for Tiffany during Odessa's production during Period 1. Subsequently, English begins to dominate in French utterances dominate in Tiffany's production during Period 1 and 2 and in

dal, 1983). During Period 1 Tiffany's English MLU is roughly equivalent to two of duction between children regardless of age (de Villiers and de Villiers, 1978; Ron-English MLU is greatly inferior to English monolingual subjects of her age. While Brown's (1973) monolingual subjects, Adam and Sarah, at equivalent ages. Odessa's Tiffany's French and English MLU are close, there is a large difference between One of the advantages of using MLU is that it allows reliable comparison of pro-

Number of French, English and Mixed utterances and percentages of total utterances: Tiffany 2,:

**************************************	Period 1	Period 2	Period 3	Period 4	Peric
Age	2;3	2;3	2;4	2;4	2:5
English	68	78	272	243	235
	(12%)	(26%)	(48%)	(50%)	(58%
LMU	1.79	1.7	2.18	2.04	2.16
French	430	201	158	105	74
	(74.5%)	(56%)	(28%)	(22%)	(18%
LMU	1.46	1.87	1.95	1.43	1.66
Mixed	78	55	133	135	96
	(13,5%)	(18%)	(24%)	(28%)	(24%
LMU	3.03	3.05	2.64	2.93	3.06
Total utterances	576	304	563	483	405

Number of French, English and Mixed utterances and percentages of total utterances: Odessa 3;

	Period 1	Period 2	Period 3	Period 4	Perio
Age	3;6	3;6	3;7	3;7	3;8
English	108	155	709	44	242
	(12%)	(46%)	(73%)	(75%)	(87%
LMU	1.33	2.35	2.65	3.25	3.01
French	688	118	79	34	5
	(80%)	(35%)	(8%)	(6%)	(2%)
LMU	3.65	2.73	2.21	1	
Mixed	74	62	188	114	32
	(8%)	(19%)	(19%)	(19%)	(11%
LMU	4.81	4.14	4.48	5.2	
Total utterances	866	335	976	592	279

Odessa's English and French MLU.

Period 1 ಕ

English Period 2

- French

Mixed utterances

Period 4

Period 5

utterances

50 50 50 20

1 It should be noted that in the months preceding the two months in California, Odessa's MLU in

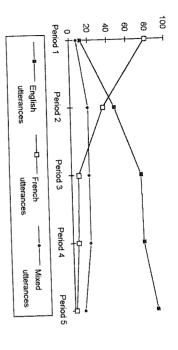


Fig. 2. English, French and Mixed utterances from period 1 to period 5 (in percentages).

Odessa 3;6 to 3;8

During the two months, Tiffany's English MLU increases slightly from 1.79 to 2.16. At the end of the two months her English MLU is close to monolingual English-speaking child of equivalent ages (Brown, 1973; Chapman, 1981; Chapman and Kohn, 1978). Tiffany's developmental curve is gradual and close to that of monolingual children. Odessa's English MLU increases much more during the two months, gual children. Odessa's English MLU increases much more during the two months, is closer to monolingual child of 16 to 23 months (de Villiers and de Villiers, 1973; is closer to monolingual child of 16 to 23 months (de Villiers and de Villiers, 1973; is closer to at al., 1981; Seitz and Stewart, 1975). Odessa's English MLU during Periods 4 and 5 corresponds to monolingual children of 30 to 40 months of age (Cunningham et al., 1981; Chapman, 1981). Although she does not completely attain monolingual norms, Odessa's rapid development of English production during attain monolingual norms, Odessa's rapid development of English production during the two months shows that when a bilingual child is placed in a context where her two months shows that when a bilingual child is placed in a context where her the receptive competence accumulated before the period of intense contact translates rather quickly to productive competence.

6. Patterns of language mixing

For both children the MLU for Mixed utterances is always superior to the MLU for either language. The percentage of Mixed utterances is considerably higher than for either language. The percentage of Mixed utterances is considerably higher than that reported for bilingual children showing a relatively clear balance between the two languages (De Houwer, 1990; Meisel, 1989; Redlinger and Park, 1980; Swain and Wesche, 1975; Taeschner, 1983; Vihman, 1985). The mixing pattern in both children reveals a very clear dominance for French: utterances with French lexical items contain French bound and free grammatical morphemes; utterances with English lexical items contain French free grammatical morphemes and; utterances with

Table 3 and Table 4 show the type of mixing during Period 5 for Tiffany an Odessa respectively. During this Period 24% of Tiffany's utterances are Mixed. 115 of Odessa's utterances are Mixed. Mixed utterances were divided into two cate gories: functors and others. Functors include unbound grammatical morpheme. Others refer to lexical items. While the rate of mixing is higher than for other bilingual children reported on in the literature, the type of mixing is very similar (Lanz. 1992; Redlinger and Park, 1980; Swain and Wesche, 1975; Vihman, 1985). Bot children mix French grammatical morphemes (pronouns, prepositions, articles an connectors) in their English production. In addition, Tiffany uses the negative marker 'pas', deixis markers 'ça' [that], 'lâ' [there] and the existential marker 'c'es [it's]. Tiffany also shows a larger proportion of mixed utterances which included French verbs, nouns, adjectives and auxiliaries compared to her older sister.

Table 3 Mixed utterances (types) during Period 5 (24% of total utterances): Tiffany 2;5

Transport the transport of the transport	
Types	Tokens
Fonctors	
	10
ma sweater	
Prepositions	16
\dot{a} (for dative, locative and possessive constructions)*	
coffee à mommy (=mommy's coffee)	
the high chair pour Odessa	
	15
is this <i>le</i> sweater mommy?	
see le kitty?	
Connectors 6	-
et me	
mais come on	
Negation	32
I wan pas chair	
pas dry	
pas monmy that shoe [that's not mommy's shoe] Deixis, Existentiels	_
ga mommy coffee [that's mommy's coffee]	
c'est cold	
s switches	90 (80%)
Others: Nouns, verbs, auxiliaries, adjectives I wan poire	23
met Odessa high chair là	
	23 (20%)

The use of the French preposition \dot{a} to encode dative, locative and possesive constructions is typic:

113

Total mixes

Mixed utterances (types) during Period 5 (11% of total utterances): Odessa 3;8

Types	Tokens
Fonctors	-
Pronouns	,
tu see?	
what this tu got?	
moi I get down	د
	1.2
the sun is coming dans my eyes	
a daddy avec a child on his shoulders	
	o
take la spoon	
tu do what avec le table?	5
	10
go like this <i>et après</i> foot's clean	
oming	36 (00%)
Total functor switches	30 (92%)
Others: Nouns, verbs, auxiliaries	ω
a pul like me (corrected to 'sweater' in next turn)	
on met little pot	
on va push ok?	
Total others	3 (8%)
Total mixes	39

made during the two months preceding the trip to California, however, eliminates high rate of mixing: parental mixing. Examination of the transcripts from recordings arguable that this kind of switching is intersentential as the discourse marker tagged activity the mother says 'BON, let's go' or 'BON, should we clean up this mess?' It is mixing consists of discourse markers, especially 'bon' [good, so] and 'alors' [so] concerns the use of English nouns in French utterances. The mother's major type of of mixing is quite different from the children's. The father's main type of mixing mother range from 0% to 3%. In addition to a lower rate of mixing, the parents' type In addition to strong dominance in French there is another possible cause for this Oesch-Serra, 1998). The dominance of French would seem to account for the high course markers has been described as very typical of bilingual adults (Auer, 1984; to the beginning of the utterance carries its own sentential prosody. Use of such distagged to the beginning of English utterances. For example, to mark the end of an 1 ranges from 0% to 6% depending on the recording. The same figures for the this hypothesis. The father's rate of mixing during the two months preceding Period

proportion, as well as the type of Mixed utterances in the children's production. Replacing French lexical items with English lexical items was much less prob-

> she is right, her aunt promptly lowered the kitchen curtains to block the sun. monolingual aunt, 'the sun is coming DANS my eyes', she is counting on the fact objects to dictate their responses (Clark, 1973, 1977; Cook, 1978; Hoogenraad et will often ignore the preposition altogether, using the canonical relationship between between objects. In act-out comprehension tasks very young monolingual chil adults will make the same kind of inference between the objects to be related. the communicative situation. Prepositions, for example, establish relations in relation to the bucket is smaller. In Odessa's Mixed utterance addressed to 1978). For instance, a bucket will be treated as a container if the object to be loc

an all purpose connector such as 'et' [and] or 'et pis' [and then] to conjoin prop tional content of the conjoined utterances as much as it comes from the connec quence) (Jisa, 1984/1985, 1987). The semantic meaning comes from the prop connects as by the connector itself (Auchlin, 1981a,b; Moeschler, 1981; Rou tions related by a number of semantic relations (eg., sequentiality, cause, con 1981; Schiffrin, 1982; Van Dijk, 1977a,b). Young monolingual children often The meaning of a connector is often determined as much by the proposition

morphology from their strong language, French, into their weak language, Engl the literature, the type of mixing is very much the same. They borrow grammat While Odessa and Tiffany mix more than other bilingual children reported or

7. Differing patterns of mixing in the two children

much further along in the grammatical development of her dominant language tl periphrastic future and she uses a number of subordinate constructions. the passé composé and the imparfait. She encodes future events using is Tiffany. She has acquired agreement, makes reference to past events using b The two children differ, however, in the evolution of Mixed utterances. Odess:

liftany's affirmative constructions using the verb 'wan'. instance, 'wan cuillère' [want spoon] and 'wan juice'. Table 5 lists all the tokens use 'wan' to ask for something necessitating the intervention of another person, production. Out of 2331 total utterances in her corpus for the two months, 311 (13) [want] during Period 1. In fact 'wan' is one of the most frequent verbs in Tiffan' context. To clarify utterances as clear requests, Tiffany begins to use the verb 'wa mation) or 'mommy give me your spoon' (request), depending on prosody and spoon] can mean 'mommy's spoon' (identification), 'mommy my spoon fell' (inf considerable interpretation on the part of the adult. Maman CUILLERE [momi et al., 1998). Bound and free grammatical morphemes are just beginning to appear the two months preceding the trip to California. Two-word constructions requ basis of her word combinations (Brown, 1973; Braine, 1976; Slobin, 1985; Basse Tiffany, as for all young children, content words, especially nouns, make up The majority of Tiffany's utterances in French are two-word constructions.

The rate of mixing often increases with proficiency in both languages (Redling

			MILITARITY CONTINUES CONTI		
	Period 1	Period 2	Period 3	Period 4	Period 5
French		AAA			
Nouns	ça	ça	ça	ξa	
3	bonbon	bonbon	bonbon	bonbon	
	dodo	dodo	dodo	dodo	
	de l'eau	de l'eau	bain	champignon	
	ma soupe	'core de l'eau	là	bain	
	oiseau	beaucoup	sucre	poire	
	сшізіпе	papa			
	сонтеан	dodo			
	cuilère				
	deux				
	chaise				
	les chaussures				
	"core"				
	'core soupe				
	'core ça				
Verbs	boire	boire	boire	boire ça	
		$*****ii'$, $**\varphi^{II}$,	mamiller***	tir partir	
English		ţ		,	
Nouns	milk	ice cream	coffee	high chair	milk
	juice	juice	juice	bottle	my bottle
	ice cream	spoon	spoon	spoon	candy
		,	eggs	candy	yogurt
			crayon	grape	cookie
			tomatoes	peach	sweater
			water	kitty	my lap
		`	bottle	this	
			bread	mommy	
			cucumbers	dolly	
			the glass		
			some tomatoes		
			some more bottle	le	
			this one		
			my bottle		
Verhs		wash	00	see	see 'em
0		see it	go pipi	go pipi	go pipi
			go caca	go see (it)	get down
			get out	get out	have it
			take off	get down	
			talk Hannah	swimming	
			open this	have it	
			write		

[`]core = encore [more]

mixes are constructed using 'wan' with a French noun or verb during Periods 1 ar tinues to increase during Periods 3 and 4 in Tiffany's production. bers, crayon). Nevertheless, as can be seen in Table 1, the frequency of mixing co lents (spoon, water, more) and acquires many new English words (tomatoes, cucur 2. During Period 3 Tiffany replaces many of her French words with English equiv lish lexicon, mixed forms with 'wan' decrease. As can be seen in Table 5, mar

issue interdictions (3). pas' and 'plus' as markers of negation in French. During Periods 1 and 2 'non' used in one-word negation to answer questions (1), to refuse suggestions (2) and Tiffany's production, negation. Before her trip to California, Tiffany was using 'noThis increase in mixing can be understood by examining another construction

M:² Tiffy-Tiffy you're tired

M: should you take a night-night?

let Odessa do it honey

non. non.

(3) (T, O et M are looking in the refrigerator)

maman

what honey?

O: c'est quoi ça? [what is that?]

(Odessa points to a bottle of coke)

non non. pique. [no no. stings]

Anaphoric negation such as in (4) is very productive in French.

(4) (M asks Tiffany to sit in her chair)

M: Tiffy sit down

→ T: non. côté maman [non. next to mommy]

(I want to sit next to mommy)

again] to encode the absence of something or someone ((5) and (6)), to give negative other adverbial constructions 'pas là' [not there], 'pas ça' [not that], 'pas 'core' [not there] bird won't come out], 'pas manger la soupe' [won't eat the soup], before nouns an orders (7) and to comment on quality (8). but before main verbs, 'pas pleurer moi' [won't cry me], 'pas sortir l'oiseau' [the [to be], 'avoir' [to have/to be], 'vouloir' [to want], 'aimer' [to love], 'aller' [to go 'Pas' is used after what functions as auxiliaries (Blanche-Benveniste, 1990): 'êtra

(5) pas là le kitty [the kitty isn't there]

6 pas place [(there's) no room]

9 pas là

[don't (put it) there

8 pas bon

[(it's) not good])

are not dirty], 'pas BIG' [that's not big], 'pas CLEAN' [that's not clean] and with binations with mixed elements are observed with adjectives, 'pas DIRTY' [my hands During Period 3, when her English lexicon increases rapidly, many two-word com-

9 (O and T are sitting at the kitchen table. M is cooking with her back turned to O and T. T has a child's spoon on which there is the picture of a bird dressed in pants and a jacket.)

bear

M: that's a teddy bear? a bea:r?

no. a bird

pas bird. a te:bear

expected 'wan' and 'pas' begin to be used together (10). unanalysed form 'don't' to issue interdictions. During Periods 4 and 5, as might be anaphoric negation (no. finish. (= no (I'm not) finished). 'Not' is used in an During her stay in California 'pas' is beginning to be replaced by 'no', first in

(10) (M and T are sitting at the kitchen table. M gives T a biscuit.)

no:. wan 'gurt.

you wanna yogurt?

<u>M</u>: oh honey. I don't think you'll eat it will ya?

ио

M: o:ka:y

(M gives T a yogurt)
M: there ya go

!trug,

M: here lemme get ya a spoon

(M gives T a spoon. T tastes the yogurt)

wan pas. wan pas 'gurt

that's what I thought Tiffany. you didn't want any yogurt

Many other mixes constructed with 'wan PAS' are observed during Periods 4 and 5

utterances decrease. The evolution of negation in Odessa's English production is quite different from that of Tiffany. During Periods 2 and 3 a wide variety of negato explain why Tiffany's Mixed utterances continue to increase and Odessa's Mixed tive forms are observed (11). A comparison of the evolution of English negation between the two children helps

- (11) a. I can't see
- I don't want it
- c. Tiffy no clean up the mess
- d. I no want taste it
- e. I wan pas now

iliary (12a-c). give way consistently to forms such as (11a) and (11b) where the negative element are observed in monolingual English children in the early acquisition of negation 5, 6 are of the preverbal form and 12 show the negative element attached to an auxis attached to an auxiliary. Out of 18 negative predications produced during Period (Bloom, 1970; Bellugi, 1967). During Period 5, the preverbal forms are beginning to forms such as (11c) and (11d) persist until Period 5. Such preverbal negative forms During Period 3 mixed negative forms such as (9e) disappear. Preverbal negative

- (12) a. I don't want it.
- b. I won't eat it.
- c. I'm not finished

stage four, with appropriate placement of the negative element inside the verb phrase anaphoric negation (9). The third stage, preverbal negation (11c,d) is followed by (2). The second stage, two-word negation, includes anaphoric negation (4) and nonguages (L1 and L2). The first stage consists of one-word negation, such as in (1) and Wode (1977, 1984) examined the acquisition of negation in a variety of learner lan-

after auxiliaries, but before main verbs. normal late errors for French acquiring children (Guillaume, 1927: 214; Wode, sional errors were observed with the placement of the negative in complex verb 1977, 1984). Tiffany, on the other hand, was moving into stage three. 'Pas' is found 'j' aime bien pas $\varphi a'$ (= j' aime pas bien φa , [I don't like that very much]). These are phrases, 'ça fait tomber pas' (= ça fait pas tomber, [that doesn't make (it) fall]), Before her trip to California, Odessa was well beyond stage four in French. Occa-

rench post-auxiliary forms 'aime pas' [I don't like (it)] and preverbal forms, 'pas manger la soupe' ['not eat the soup' = I won't eat the soup). The differences guage as in their strong language. Odessa is moving into a consistent stage four 'no cry me' coexist with Mixed utterances 'wan PAS gurt' [(I do)n't want yogurt] and (12a-c). Tiffany is moving into stage three: preverbal English forms 'no wan juice', During Period 5, both children attain roughly the same level in their weak lan-

child's developmental stage in her strong language at the point of intense contact to a profound change in exposure to English. It is equally important to consider the cal morphology grammatical categories, Tiffany is at the beginning of her acquisition of grammatiwith the weak language. While Odessa has acquired considerable knowledge about

8. Situational codeswitching

children. One of the first indications of codeswitching is found in language choice as tently than Tiffany. fornia. Odessa appears to attend to meaning and language earlier and more consishow the two children differ in language choice in the beginning of the stay in Calidetermined by language of the interlocutor. In this final section, it will be shown The ability to codeswitch in addressee appropriate ways also differs for the two

One of the children's favourite monolingual playmates, Andy (A), is a monolingual adult family friend. The total number of English and French utterances addressed to A by the two girls during Periods 1 and 2 is shown on Table 6.

adressed to A during Periods 1 and 2

()dessa 114	Illiany , t		Total		Offergilos adioseca so in como
100	105	30	English	i :	g
	92	42	% Engusii	@ English	
	9	42	I lonen	French	
	08	Jo	70	%French	

pany. For instance, in giving an object to A, Odessa says 'voilà' [here] or 'tiens' differs between the two children. The nine cases of wrong language choice in quently than does Tiffany. In addition, the type of utterances in the wrong language teddy bear, 'où il est?' [where is he?]. In answer to A's question 'where's the cat?', guage utterances in Tiffany's production are also accompaniments. The other others, with a pointing gesture that also answers the question. Twelve of the 42 'wrong' lancalls "accompaniments". The words are redundant with the actions that they accom-Odessa's production are essentially one-word utterances which Dore (1977, 1979) occupies her attention. she answers 'i mange' [he's eating], barely lifting her head from the puzzle which however, are more referential, for example, she asks A about the whereabouts of her [take]. In answer to A's where-question, Odessa answers 'c'est là' accompanied As shown in Table 6, Odessa makes the 'wrong' language choice much less fre-

switches to English are observed only in Odessa's production (13) and (14). False starts, in which the child begins an utterance in the wrong language and then

(13) (O and A are looking at a book.)

talls on the racoons have striped tails

 \rightarrow 0: oui comme ς - like this?

(O points to the tail of the racoon)

(14)(O and A are reading a book. O wants to read the book that they had just fi ished. O takes the book that is in A's hands.)

voilà

A: I can't read the book

→ 0: mais en- again

(O gives A the book that they had already finished.)

A: no not again. no I have to finish this book first

Odessa also translates utterances directed to different speakers (15)

(15) (O and A are in the living room. M crosses the room on her way to kitchen.)

O: maman je veux de l'eau $(\Rightarrow M)$ [mom I want some water]

OK just a second

 \rightarrow O: I'm thirsty (\Rightarrow A)

during Period 5. Self corrected repairs and translations are absent from Tiffany's production, evo

semantics and language. Tiffany respects semantics, but not necessarily language repeating a previous speaker's utterance or part of an utterance, Odessa respec A final difference between the children concerns conversational repetitions. Who

(16) (T, O, an adult friend, E, and M are looking at a book.)

that's a little doggy. I'll hide my ball here, who's this?

I dunno

you don't know?

 \leq (whispers 'a worm' to Odessa)

it's a:

→ 0: a worm

it's a worm, and the worm says hey watch out

→ 0: watch out

(T tries to take the book from E)

ca:t. (⇒T) wait a minute. wait a minute. he likes to: bark at the cat. that's a littl

petit chat

[little cat]

TOTOTIONS INCTIONS 1, 7 of Tiffany's 21 repetitions of English are in French. From Period 2 on, Tiffany' From Period 1, Odessa's repetitions of English are always in English. During Perio

8. Conclusion

equivalent English functors very rapidly. Tiffany, on the other hand, was just ment of her strong language. Although she showed considerable mixing at the identical for the two children. Odessa was further along in grammatical developduring the two months in California. The impact of the change, however, was not and functions. It would be an error, then, to attribute either the amount or the patbeginning of the two-month stay, she replaced French grammatical functors with study highlight the importance of studying input and its use from the learner's estimated by their production, previous to receiving the input. The findings in this Both children were receiving the same English input. Their treatment of that attained in language production in the strong language is an important variable. tern of mixing solely to an abrupt change in language environment. The level what more conservative in establishing English equivalents for grammatical forms beginning her acquisition of grammatical morphology in French. She was someinput, however, varies because of differences in their linguistic knowledge, as perspective. Both children experienced an abrupt change in their language environment at

codeswitching of bilingual adolescents and adults, but she is well into the development of situational codeswitching. Tiffany shows much less sensitivity to language language of her addressee. She is no where close to the full-blown non-situational tion was to speak louder. ing grandmother. When her grandmother displayed incomprehension, Tiffany's reac-France, Tiffany often used English when addressing her monolingual French-speakof her addressee. An interesting anecdote: during the week following her return to Odessa also shows a more precocious capacity for code choice depending on the

addressed to them, producing in English was a different matter. Had the two children developing grammar. While neither child showed difficulty in understanding English opment at the time that s/he is forced to produce in intense contact. guistic environment is obvious, but equally important is the child's linguistic develnot spent two months in an English speaking environment, their competence in English would most probably have remained passive. The impact of the change in lin-The data from these two children underscore the importance of production in

to exactly what this type of bilingual child understands in less contextualised, more ous cases of incomprehension of the English addressed to them. Future studies of the of comprehension in English as monolinguals. This is perhaps an erroneous presupbeen presupposed throughout this study that Odessa and Tiffany had the same level controlled studies of comprehension in the weak language. development of the weak language in bilingual children should pay careful attention ations in which these children were observed and recorded, there are never any obviposition. More precisely, it should be said that in the in-context conversational situ-An important methodological point should be addressed in this conclusion. It has

Alfonzetti, Giovanna, 1998. The conversational dimension in codeswitching between Italian and dialection in Sicily. In: P. Auer, ed., Codeswitching in conversation: Language, interaction and identity, 1998b 180-214. London: Routledge.

Arnberg, Lenore, 1987. Raising children bilingually: The pre-school years. Clevedon: Multilingua

Auchlin, Antoine, 1981a. Mais heu, pis bon, ben alors voilà, quoi! marqueurs de structuration de la con

Auchlin, Antoine, 1981b. Réflexions sur les marqueurs de structuration de la conversation. Etudes d Linguistique Appliquée 44: 88–103. versation et complétude. Cahiers de Linguistique Française 2: 141-159.

Auer, Peter, 1984. Bilingual conversation. Amsterdam: Benjamins.

Auer, Peter, 1998a. Introduction: Bilingual conversation revisited. In: P. Auer, ed., Codeswitching in conversation: Language, interaction and identity, 1-24. London: Routledge.

Auer, Peter, ed., 1998b. Codeswitching in conversation: Language, interaction and identity. London

Bassano, Dominique, Isabelle Maillochon and Elsa Eme, 1998. Developmental changes and variability in the early lexicon: A study of French children's naturalistic productions. Journal of Child Languago

Bellugi, Ursula, 1967. The acquisition of negation. Ph.D. thesis, Harvard University.

Bentahila, Abdelali and Eiryls E. Davies, 1992. Codeswitching and language dominance. In: R.J. Har ris, ed., Cognitive process in bilinguals, 443-458. Amsterdam: Elsevier.

Berk-Seligson, Susan, 1986. Linguistic constraints on intrasentential codeswitching: A study of Spanish/Hebrew bilingualism. Language in Society 15: 313-348.

Blom, Jan Petter and John Gumperz, 1972. Social meaning in linguistic structures: Code switching in Blanche-Benveniste, Claire, 1990. Le français parlé: Etudes grammaticales. Paris: Editions du CNRS. Norway. In: J. Gumperz and D. Hymes, eds., Directions in sociolinguistics, 407-434. New York:

Bloom, Lois, 1970. Language development: Form and function in emerging grammars. Cambridge,

Braine, Martin D.S., 1976. Children's first word combinations. (Monographs of the Society for Research in Child Development 41.) Chicago, IL: University of Chicago Press, Child Development Publica-

Brown, Roger, 1973. A first language: The early stages. Cambridge, MA: Harvard University Press. Chapman, Robin S., 1981. Mother-child interaction in the second year of life. In: R. Scheifelbusch and D. Bricker, eds., Early language: Acquisition and intervention, 201–250. Baltimore, MD: University

Chapman, Robin S. and Laurence L. Kohn, 1978. Comprehension strategies in two and three year olds: Animate agents or probable events? Journal of Speech and Hearing Research 21: 746-761.

Clark, Eve, 1973. What's in a word? On the child's acquisition of semantics in his first language. In: T. Moore, ed., Cognitive development and the acquisition of language, 65-110. New York: Academic

Clark, Eve, 1977. Strategies and the mapping problem in first language acquisition. In: J. MacNamara, ed., Language learning and thought, 147-168. New York: Academic Press.

Cook, Nancy L., 1978. 'In', 'on' and 'under' revisited again. In: Papers and Reports on Child Language Development 15: 81-88. Stanford, CA: Department of Linguistics, Stanford University.

Cunningham, Charles E., Ellen Reuler, Jane Blackwell and Jennifer Deck, 1981. Behavioral and linguistic developments in the interactions of normal and retarded children with their mothers. Child Development 52: 62-70.

De Houwer, Annick, 1990. The acquisition of two languages from birth: A case study. Cambridge:

de Villiers, Jill G. and Peter A. de Villiers, 1973. A cross-sectional study of the acquisition of gramma Cambridge University Press.

de Villiers, Jill G. and Peter A. de Villiers, 1978. Language acquisition. Cambridge, MA: Harvard Uni-

DiSciullo, Anne-Marie, Pieter Muysken and Rajendra Singh, 1986. Government and code-mixing. Jour-

Dore, John, 1979. Conversational acts and the acquisition of language. In: E. Ochs and B.B. Schieffelin, Dore, John, 1977. 'Oh them sheriff': A pragmatic analysis of children's responses to questions. In: S Ervin-Tripp and C. Mitchell-Kernan, eds., Child discourse, 137-163. New York: Academic Press. nal of Linguistics 22: 1-24.

Genesee, Fred, Elena Nicoladis and Johanne Paradis, 1995. Language differentiation in early bilingual eds., Developmental pragmatics, 339-361. New York: Academic Press.

Goodz, Naomi S., 1989. Parental language mixing in bilingual families. Infant Mental Health Journal development. Journal of Child Language 22: 611-631.

Goodz, Naomi S., 1994. Interactions between parents and children in bilingual families. In: F. Genesee,

ed., Educating second language children. New York: Cambridge University Press.

Grosjean, François, 1982. Life with two languages. Cambridge, MA: Harvard University Press. Guillaume, Paul, 1927. Les débuts de la phrase dans le langage de l'enfant. Journal de Psychologie

Gumperz, John, 1982. Discourse strategies. Cambridge: Cambridge University Press.

Gumperz, John and Eduardo Hernandez-Chavez, 1972. Bilingualism, bidialectualism and classroom 84-108. New York: Teacher's College Press. interaction. In: C.B. Cazden, V.P. John and D. Hymes, eds., Functions of language in the classroom,

Hoogenraad, Robert, Robert Grieve, Paul Baldwin and Robin M. Campbell, 1978. Comprehension as an guage, 163-186. New York: Plenum. interactive process. In: R. Campbell and P. Smith, eds., Recent advances in the psychology of lan-

Jisa, Harriet, 1987. Sentence connectors in French children's monologue performance. Journal of Prag-Jisa, Harriet, 1984/1985. French preschoolers' use of et pis [and then]. First Language 5: 169-184.

Jisa, Harriet, 1989. The process of language replacement. Actes du symposium AILA/CILA: Minorisation linguistique et interaction, Commission Interuniversitaire Suisse de Linguistique Appliquée, matics 11: 607-621.

Jisa, Harriet, 1995. L'utilisation du morphème BE en anglais langue faible. AILE 6: 101–127.

Klinge, Swantje, 1990. Prepositions in bilingual language acquisition. In: J. Meisel, ed., Two first lan-Jørgensen, Jens N., 1998. Children's acquisition of codeswitching for power wielding. In: P. Auer, ed. Codeswitching in conversation: Language, interaction and identity, 237-258. London: Routledge.

guages: Early grammatical development in bilingual children, 123-154. Dordrecht: Foris. Lanza, Elizabeth, 1992. Can bilingual two-year-olds codeswitch? Journal of Child Language

Lanza, Elizabeth, 1995. Language mixing in infant bilingualism: A sociolinguistic perspective. Oxford: Oxford University Press.

Meisel, Jürgen M., 1989. Early differentiation of languages in bilingual children. In: K. Hyltenstam and L. Obler, eds., Bilingualism across the lifespan: Aspects of acquisition, maturity and loss, 13-40.

Moeschler, Jean, 1981. Discours polémique, réfutation et résolution des sequences conversationnelles. Meisel, Jürgen M., 1990. INFL-ection: Subjects and subject-verb agreement. In: J.M. Meisel, ed., Two first languages: Early grammatical development in bilingual children, 237-298. Dordrecht: Foris. Cambridge, MA: Cambridge University Press.

Müller, Natascha, 1990. Developing two gender assignment systems simultaneously. In: J.M. Meisel, ed., Müller, Natascha, 1995. L'acquisition du genre et du nombre chez des enfants bilingues (français-alle-Two first languages: Early grammatical development in bilingual children, 193-294. Dordrecht: Foris, Etudes de Linguistique Appliquée 44: 40-69.

Muysken, Pieter, 1990. Concepts, methodology and data in language contact research: Ten remarks from mand). AILE 6: 65-99. the perspective of grammatical theory. In: Papers for the workshop on concepts, methodology and

Myers-Scotton, Carol, 1979. The context is in the message: Syntactic and semantic deletion in Nairo and Kampala varieties of Swahili. In: I. Hancock, ed., Readings in creole studies, 111–128. Ghen

Myers-Scotton, Carol, 1993. Social motivations for codeswitching: Evidence from Africa. Oxforo

Oesch-Serra, Cecilia, 1998. Discourse connectives in bilingual conversation: The case of an emergir Italian-French mixed code. In: P. Auer, ed., Codeswitching in conversation: Language, interactic and identity, 101-124. London: Routledge.

Parodi, Teresa, 1990. The acquisition of word order regularities and case morphology. In: J.M. Meise ed., Two first languages: Early grammatical development in bilingual children, 157–192. Dordrech

Petersen, Jennifer, 1988. Word-internal codeswitching constraints in a bilingual child's grammar. Lii guistics 26: 479-493.

Pfaff, Carol W., 1979. Constraints on language-mixing: Intrasentential codeswitching and borrowing Spanish/English. Language 55: 291–318.

Poplack, Shana, 1980. Sometimes I'll start a sentence in Spanish y termino en español: Toward a typo ogy of codeswitching. Linguistics 18: 581-618.

Poplack, Shana, 1981. Syntactic structure and social function of codeswitching. In: R. Duran, ed., Latin language and communicative behavior, 169-184. Norwood, NJ: Ablex.

Rampton, Ben, 1995. Crossing: Language and ethnicity among adolescents. London: Longman. Rampton, Ben, 1998. Language crossing and the redefinition of reality. In: P. Auer, ed., Codeswitchin

in conversation: Language, interaction and identity, 290-317. London: Routledge.

Redlinger, Wendy E. and Tschang-Zin Park, 1980. Language mixing in young bilinguals. Journal of Child Language 7: 337–352.

Retherford, Kristine S., Bonnie C. Schwartz and Robin S. Chapman, 1981. Semantic roles and residua guage 8: 583-608. grammatical categories in mother and child speech: Who turns into whom? Journal of Child Lar

Romaine, Suzanne, 1989. Bilingualism. Oxford: Blackwell.

Rondal, Jean A., 1983. L'interaction adulte-enfant et la construction du langage. Bruxelles: Pierr

Roulet, Eddie, 1981. Échanges, intervention et actes de langage dans la structure de la conversation Etudes de Linguistique Appliquée 44: 7–39.

Sankoff, David and Shana Poplack, 1981. A formal grammar for codeswitching. Papers in Linguistics International Journal of Human Communication 14: 3–46.

Sankoff, David, Shana Poplack and Swathi Vanniarajan, 1990. The case of the nonce loan in Tamil. Lar guage Variation and Change 2: 71-101.

Schiffrin, Deborah, 1982. Discourse markers: Semantic resources for the construction of conversation Ph.D. thesis, University of Pennsylvania.

Schlyter, Suzanne, 1993. The weaker language in bilingual Swedish-French children. In: K. Hyltenstar and A. Viberg, eds., Progression and regression in language: Sociocultural, neuropsychological, an linguistic perspectives, 289-308. Cambridge, MA: Cambridge University Press.

Schlyter, Suzanne, 1994. Early morphology in Swedish as the weaker language in French-Swedish bilin gual children. Scandinavian Working Papers on Bilingualism 9: 67-86.

Schlyter, Suzanne, 1995. Formes verbales du passé dans des interactions en langue forte et en langu faible. AILE 6: 129-152.

Schlyter, Suzanne and Gisela Håkansson, 1994. Word order in Swedish as the first language, second lan guage and weaker language in bilinguals. Scandinavian Working Papers on Bilingualism 9: 49-66

Sebba, Mark and Tony Wootton, 1998. We, they and identity: Sequential versus identity-related expla identity, 262-286. London: Routledge. nation in codeswitching. In: P. Auer, ed., Codeswitching in conversation: Language, interaction and

Seitz, Sue and Catherine Stewart, 1975. Imitations and expansions: Some developmental aspects o mother-child communications. Developmental Psychology 11: 763–768.

- Swain, Merril and Mari Wesche, 1975. Linguistic interaction: Case study of a bilingual child. Language Sciences 17: 17-27
- Taeschner, Traute, 1983. The sun is feminine: A study on language acquisition in bilingual children. Berlin: Springer.
- van Dijk, Teun A., 1977a. Text and context: Explorations in the semantics and pragmatics of discourse. London: Longman.
- van Dijk, Teun A., 1977b. Connectives in text grammar and text logic. In: T. van Dijk and J. Petöfi, eds., Grammars and descriptions: Studies in text theory and text analysis, 11-63. Berlin: de Gruyter.
- Vihman, Marilyn M., 1985. Language differentiation by the bilingual infant. Journal of Child Language 12: 297-324.
- Wei, Li, 1998. The 'why' and 'how' questions in the analysis of conversational codeswitching. In: P. Auer, ed., Codeswitching in conversation: Language, interaction and identity, 156–179. London: Routledge.
- Wode, Henning, 1977. Four early stages in the development of L1 negation. Journal of Child Language
- Wode, Henning, 1984. Some theoretical implications of L2 acquisition research and the grammar of interlanguages. In: A. Davies, C. Criper and A.P.R. Howatt, eds., Interlanguage, 162–184. Edinburgh: Edinburgh University Press.

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Publication information: Journal of Pragmatics (ISSN 0378-2166). For 2000, volume scheduled for publication. Subscription prices are available upon request from the Publish from the Regional Sales Office nearest you or from this journal's website (http://www.vier.nl/locate/pragma). Further information is available on this journal and other Elsevier ence products through Elsevier's website: (http://www.elsevier.nl). Subscriptions are acce on a prepaid basis only and are entered on a calendar year basis. Issues are sent by stan mail (surface within Europe, air delivery outside Europe). Priority rates are available request. Claims for missing issues should be made within six months of the date of disp Subscriptions at special reduced rate for members of the IPrA: Previously, the IPrA Secret has collected orders and payment for these reduced rate subscriptions from its members subsequently sent these to Elsevier Science B.V. for further handling. IPrA members may of these subscriptions directly from Elsevier Science B.V.

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