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¹ Understanding the Nature of Code-Switching and Code-Mixing ² of Songhay Speakers of French

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6 Abstract

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The present paper is a descriptive study on the nature of the types of code-switching and 7 code-mixing found among Songhay speakers of French. It aims at identifying and describing 8 the structural nature of the instances of switches by classifying and categorising them 9 according to the existing theories and models on Code Switching and Code Mixing 10 constraints. The paper also reviews proposed definitions on the issue of Code-switching and 11 Code-mixing. The data for the data was collected through interviews and participant 12 observation from ninety participants coming from the regions of Gao and Timbuktu in the 13 north of Mali, and Bamako, the Capital City in the south. The study has identified two forms 14 of switches, inter-sentential and intra-sentential code-switching, in which participants 15 alternate the two codes or insert words from French into Songhay and vice-versa. Analysing 16 the intersentential types of switches, the study confirms the ?equivalence of structure 17 constraint? of S. Poplack (1980) which states that there is no violation of the grammar of the 18 two languages involved in this form of switching where sentences or clauses are juxtaposed. 19 Analysing the intrasentential type of switches, the study shows illustrations where French 20 embedded words in a Songhay-based code are not transformed but they sometimes take the 21 Songhay inflectional affixes to adapt the Songhay grammaticality. This is in line with the 22 ?Matrix Language Frame Model? of C. Myers-Scotton (1993a, b). The study reveals that the 23 intra-sentential switching is more frequently used than the inter-sentential one with 82 24

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Index terms— language contact, code-switching, codemixing, inter-sentential, intra-sentential, code, matrix language, embedded words.

28 1 Introduction

ilingualism is a tradition in Africa considering that language contact phenomena are omnipresent everywhere in
all African linguistic communities. As a result, we can observe linguistic contact phenomena of code-switching
and code-mixing among students and other bilingual speakers of French, who B Author ? ? : Université des
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alternate or mix elements of French language together with their mother tongue in their daily conversations.

Mali is a multilingual country with French as the official language. Several languages have been identified, but only a handful has received recognition from law. According to I. Skattum (2009c), approximately twenty languages among which thirteen have received the status of national languages: Bamanankan, Bomu, Bozo, Dogoso Fulfulde, Hasaniya, Maninkakan Mamara, So?ay, Soninke, Syenara, Tamasheq and Xaasongaxanon. The relationship between the ex-colonial European languages and the local languages in Africa leads to many phenomena of language change and variation. The local languages receive and adapt new terms from the European ones that express concepts or ideas the native speakers do not have in their language.

From this point of view, E. Annamalai (1989, p.48) notes that "in many situations of languages in contact, constituents of one language can be found with the constituents of another language in a number of linguistic phenomena, namely lexical borrowing, transferring, interference, calquing, diffusion, relexification, code-switching and code-mixing, etc." Indeed, the present study concerns the nature of the linguistic contact phenomenon of
code-switching and code-mixing which is the use of two different languages in the same speech, as one of the
impacts of French language on French speaking Africa. It describes and classifies this kind of language practice to

47 see if the structures being switched or mixed conform to the existing theories and constraints on Code-switching48 and Code-mixing.

Considering the Malian context, literature on Code-switching is quasi-inexistent. Recent research works on 49 the topic include M. Minkailou and I. Abdoulaye (2016) who demonstrated how Bamanankan speakers insert 50 French constructions into Bamanankan and/or juxtapose Bamanankan and French constructions. A further 51 related study still by the same authors analysed the phonological processes of adaptation that the switches by 52 Songhay speakers of French undergo (I. Abdoulaye and M. Minkailou, 2017). A last work in this sense, still by 53 M. Minkailou and I. Abdoulaye (2018) pertains to the types of switches made by Fulfulde speakers of French. A 54 concluding remark about all these studies remains the behaviour of the switched French verbs: in fact, the past 55 participle of the switched French verbs is adopted by speakers of Bamanankan, Fulfulde and Songhay as the base 56 form of the verb and is used as such in all their constructions. Regarding Songhay in particular, there is a need 57 for confirmation since the study that was conducted was about the phonology of code-switching. And that is 58 59 how this paper becomes highly significant.

In fact, while the phonological processes involved in Songhay-French Code-switching have been analysed and determined (I. Abdoulaye and M. Minkailou, 2017), the nature and type of switches have not been specifically determined. Therefore, this study aims to contribute and to fill this gap. The paper specifically aims at determining the types of switches made by Songhay speakers of French, the nature of those switches and the behaviour of the past participle of the switched French verbs.

To reach these aims, the following research questions will need to be answered: What are the types of switches made by Songhay speakers of French? What is the nature of those switches? And how does the past participle of the switched French verbs behave?

The significance of the study lies in that it will serve to reinforce the few studies conducted on the languages of Mali. The Malian sociolinguistic landscape needs to be adequately portrayed and made known to the public and to researchers. The paper will further serve to comprehend how far the theories developed so far are applicable to all instances of code-switching. The study will finally confirm or refute the behaviour of the past participle of the switched French verbs by Songhay speakers, i.e. the idea that participants adopt the past participle of the switched French verbs as the base form and use it as such in all instances.

Theoretically and conceptually viewed, codeswitching and code-mixing generally appear as a basic language contact phenomenon with key concepts such as code-switching (hereafter CS) and code-mixing (hereafter CM) which are not always explicitly defined in the same ways by researchers. Many distinctive definitions of the two concepts have been proposed.

According to L. Naseh (1997), the earliest definition of code-switching dates back to U. Weinreich (1953), 78 who defines bilingual people as "individuals who switch from one language to the other according to appropriate 79 changes in speech situation". But, in recent literature, there has been some variation in defining the term 'code-80 switching' in comparison to 'code-mixing'. For instance, P. ??uysken (2000, p.1) refers to codeswitching as "the 81 rapid succession of several languages in a single speech event", however, code-mixing refers to "all cases where 82 lexical items and grammatical features from two languages appear in one sentence". As for A. ??entahila and E. 83 Davies (1983, p.302) codeswitching refers to "the use of two languages within a single conversation, exchange or 84 utterance", while J. J. ??umperz (1982, p.59) perceives the concept as "the juxtaposition within the same speech 85 exchange passages of speech belonging to two different grammatical systems or subsystems". 86

According to R. A. ??udson (1980, p.53) "codemixing represents the case when a fluent bilingual talking to 87 another fluent bilingual changes language without any change at all in the situation". He also calls it a kind 88 of language cocktail. In the eyes of P. Trudgill (1992), it is a process in which language users indulge in code-89 switching between languages of such rapidity and density, even within sentences and phrases, that it is not really 90 possible to say at any given time the language they are speaking. Milroy and P. Muysken (1995, p.7) consider CS 91 as "the alternative use by bilinguals of two or more languages in the same conversation". S. Poplack (1993) cited 92 in P. ??uysken, (1994, p.157) defines code-switching as "the juxtaposition of sentences or sentence fragments, 93 each of which is internally consistent with the morphological and syntactic (and optimally, phonological) rules of 94 the languages of its provenance." We note that this definition is in line with J. J. ??umperz's (1982, p.59). 95

Aligning the subject matter of our study with these definitions, we adopt, as a working definition of code-96 switching and code-mixing the approach of B. B. Kachru (1983), R. Singh (1985), and S. Sridhar and K. K. 97 Sridhar (1980) which refers to CS as inter-sentential switches and CM as intra-sentential switches. This approach 98 of CS and CM, we think, is the sum of S. Poplack's (1993) definition of CS as "the juxtaposition of sentences or 99 sentence fragments, each of which is internally consistent with the morphological and syntactic (and optimally, 100 phonological) rules of the languages of its provenance" and C. Myer-Scotton's (1993, p.4) definition of CS as 101 "the selection by bilinguals or multilinguals of forms from an embedded language (or languages) in utterances 102 of a matrix language during the same conversation". As a result, both terms show a systematic combination of 103 elements of two languages in the same speech act by people speaking more than one language in a conversation. 104 In other words, to be closer to the African context of switching as stated by P. Muysken (1994), we adopt this 105 definition as an umbrella term to cover interchangeably the linguistic phenomena of both code-switching and 106

code-mixing that will occur in the insertions or alternations of words or groups of words by Songhay speakers of
 French in verbal interactions.

109 **2** II.

¹¹⁰ 3 Research Methodology

Following the methodologies adopted by variationists such as W. Labov, C. Myers-Scotton, S. Poplack and R. 111 Redouane when doing research on language variation and change phenomena in terms of field methods, the 112 113 design of this study is a descriptive survey guided under an interpretivist approach of research philosophy which 114 involves the description and examination of the processes and mechanisms of codeswitching and code-mixing in 115 the linguistic contact between French and Songhay language, and the impact of this language contact situation. It also involves seeking to categorise and describe the Songhay-French code-switching and code-mixing phenomena. 116 The study has adopted participant observation, which appears particularly useful to this investigation because, 117 according to C. Bowern (2008), it is a source of potential information and a very powerful tool for investigating 118 language contact. C. Bowern (2008) considers also that it is a core tool in sociolinguistics that permits the 119 researcher to do an exploratory work to find out how people actually behave in language use. The advantage 120 of this instrument to our study is that it provides spontaneous data through verbal interactions between the 121 participants. More, it gives the opportunity to record information as it happens in the setting, with the researcher 122 being either active or passive in the activities. 123

The population of the study consists of all Songhay speakers of French, and the sample constitutes of 90 participants selected out of five groups called "grins" 1 III.

126 4 Results and Discussion

in Gao, Timbuktu and Bamako, three principal urban settings where these selected bilingual speakers reside. As
instruments, participant observation and conversational interview have been used to collect the data. Spontaneous
and fresh conversations have been recorded, transcribed and translated into English in an oral corpus. The cell
phone has been used for recording the data. The data are qualitative and have therefore been qualitatively
analysed.

In the classification of the instances of codeswitching and code-mixing of Songhay speakers of French, the analysis of the data focuses on the structural dimension of code-switching and code-mixing practices.

As far as the structural dimension of codeswitching and code-mixing is concerned, we have classified our data 134 into two separate segments, following E. Boztepe's (2005) point of view stating that the intra-sentential and 135 inter-sentential distinction can distinguish the two types of switches equally well. In this vein, considering the 136 137 structural constraints of the switch points, the first segment will group instances of codeswitching, and the second 138 segment will group instances of code-mixing. Then, we will categorise the different 1 "Grin" is the name for a kind of commonplace where friends usually meet after work to chat and while away time. It is also the place 139 where people of the same age group meet to while away time or to converse. switches found in each segment, 140 and identify the morpho-syntactic structures encountered. 141

The segmentation of our findings follows the definition of E. Boztepe (2005) according to which intersentential switching, sometimes called extra-sentential switching, is the type of switching which takes place at sentence or clause boundaries, or outside the sentence or the clause level; while intra-sentential switching is the type of switching which takes place within a sentence or a clause.

This classification and categorisation of our findings are based on the two dominant theories to the problem of 146 147 syntactic constraints on code-switching: the alternation and the insertion approach, as P. ??uysken, (1994, p.156) pointed out. Thus, the theoretical background of the classification of the instances of intersentential switching 148 found in our data is based on S. Poplack's (1980) word-order-equivalence which states that switches occur at 149 sentence or clause boundaries. The theoretical background of the instances of intrasentential switching found in 150 our data is based on C. Myers-Scotton's (1993a, 1993b) linguistic model for intra-sentential codeswitching known 151 as the Matrix Language Frame Model. The first model shows that switches occur between sentences or clauses; 152 the second model consists of the insertion of a foreign lexical or phrasal category into a given system. 153

In her study of bilingual Puerto Rican in New York City, S. Poplack distinguishes three types of codeswitching: 154 inter-sentential, tag-switching and intrasentential, as can be seen in figure 1 Figure 1 shows the three types of 155 codeswitching proposed by S. ??oplack (1980, p.615). She (S. ??oplack, 1980, p.605) opined that tag-switching 156 157 "requires least bilingual proficiency and minimal knowledge in L2". She stated that "inter-sentential switching 158 requires more knowledge in L2 and intrasentential switching requires a high level bilingual proficiency because the 159 speaker needs to know enough of the grammar of both L1 and L2 in order to be able to produce grammatically 160 correct utterances" (S. Poplack 1980, p.605). Though S. Poplack affirms in her study that inter-sentential and intra-sentential are of equal use, Romaine (1995, p.123) points out that "all the three types of switching can 161 be encountered within one discourse." Contrary to S. Poplack's (1980) classification of the types of switches, 162 in our study the data are classified according to two types of switching, as proposed by E. Boztepe (2005): 163 inter-sentential switching and intrasentential switching. We think that tag-switching can be grouped with intra-164 sentential switching because both involve inserting words from one language into another. From this point of 165

view, we propose three representations of the types of Songhay-French codeswitching: inter-sentential switching,
 intra-sentential switching and reverse direction of intra-sentential switching.

Thus, figure 2, as seen below, proposes to represent the inter-sentential type of code-switching of Songhay speakers of French. The two circles indicate the two languages involved in CS. The circles are of equal size, this is to fit the "equivalence Constraint" of S. S. Poplack (1980). The circles run parallel to each other; this indicates that the two languages involved in the switching are parallel constructions. The opposing direction of the two parallel arrows indicates that the inter-sentential switching is bidirectional.

On the basis of this parallel construction of two different codes, it can also be stated that the production of intersentential constructions by bilingual speakers requires competence in both languages. Following this definition, P. Muysken (1994, p.156) explained that the phenomenon of switching in the alternation model resembles the kind under which codes are switched between turns or utterances. In this section, the kinds of sentences and clauses encountered in the instances of the inter-sentential switching of Songhay speakers of French extracted from the oral corpus of our data are described. The descriptions are based on S. Poplack's (1980Poplack's (, 1981)) claim for the word-order equivalence between the languages involved arguing that switching occurs at

180 specific switch points in discourse. In other words, speakers switch codes between sentences or clauses.

¹⁸¹ 5 b) Instances of inter-sentential switching at sentence level

In the extracts below, speakers place sentences of Songhay and French side by side. They do this without violating the internal structures of the two languages. This point of view goes with S. Poplack's (1980Poplack's (, 1981)) word-order equivalence between the languages involved in code-switching. We can notice that the juxtaposition of the sentences in Songhay and French varies according to the situations and the speakers: In these three extracts speaker : Uhh hu! (.) Parle maintenant. Maa n'a har? "Come on! (.) Speak up now. What did he say?" 1B2

? juxtaposes Songhay and French sentences. In the first extract, the juxtaposition consists of a declarative simple sentence in French followed with a direct question in Songhay introduced by an interrogative pronoun 'maa' (what, which). While in the second extract, the juxtaposition consists of two declarative sentences in Songhay followed with two sentences in French, a declarative complex sentence and an interrogative sentence. In the third extract, we have an interjection followed with an imperative sentence in French and an interrogative one in Songhay.

The following are examples of inter-sentential switching in which speakers from Bamako, Gao and Timbuktu juxtapose sentences in Songhay and French: 1B5 ? : Ay ?i baa ye faajikaaray. (.) C'est tout! (0.2) Je peux disposer? "I don't want to chat. That's all! (.) May I leave?" T5

?: Woodi ti nee da k'a har yer se. (.) Yer na guna ga. (0.2) On n'a pas vu ça. "It's that he told us.We didn't see it. We didn't see it." T11 As a matter of fact, it can be stated that the practice of inter-sentential switching by Songhay speakers of French is general because we have found examples of this kind of code-switching in all the five selected "grins" of our sample. We can also say that in all the examples, there appears a kind of parallel use of Songhay and French codes through sentences in both languages. This supports the claim that in the intersentential switching, the switching phenomenon is bidirectional.

202 : Je voulais résumer, c'est tout! (0.2) Ay har, Ablo wane ciinidi ga ? "I wanted to summarize, that's all! I 203 said, concerning what Ablo has just said?"

²⁰⁴ 6 c) Instances of inter-sentential switching at clause level

In the extracts below, speakers juxtapose in the same sentence clauses in Songhay and French in a way that the internal structure of the two languages is not violated. This juxtaposition shows clauses in Songhay and French within the same sentence where we have either the main clauses juxtaposed to the subordinate ones, or independent clauses juxtaposed to each other. For example, in the following extract, speaker 1B6

209 ? juxtaposes two clauses in the same sentence where the main clause is in French while the subordinate clause 210 is in Songhay. The word 'telephone' is not considered here as a switched word, but as an integrated word in 211 Songhay:

212 **7** 1B6

In the extracts below, the juxtaposition of clauses in Songhay and French language varies according to the situations and the speakers. We can also notice that in the inter-sentential switching at clause level, like that at sentence level, the clauses are used in parallels in both codes. So, the switching phenomenon in this kind of switches is bidirectional, too: : Moi, je me demande mise ka ra boro ma huray ni doo hal a ma jaw ni telephonedi ni wane bomodi cire. "I wonder how someone could get into your house and take your phone under your head." 1B2 : [...] (0.4) Saadi ka a wii kur, il a mis l'as carreau 4

- 219 ?
- 220 . "As soon as he won, he dropped the ace of diamonds. 1B6

?: Ah, ay ta bay nin ka c'était trop fort, quand même. "Ah, really, ((the clause in Songhay means literally "I know that")) it was too funny, honestly." 1B6 4 One of the playing cards : Ay bara tarey yah, donnes-moi ma situation-là. "I was outside, tell me my situation." In this segment, we describe and categorise the morphological

224 features of the instances of intrasentential switching encountered in the 18 conversations of our oral corpus. Our

descriptions follow C. Myers-Scotton's (1993a, 1993b) Matrix Language Frame Model, according to which there 225 is an asymmetrical relation between the matrix and the embedded language in the switching situation. In other 226 words, this model states that the two languages involved in a conversation do not have the same status. One 227 of these two languages must be the base code, the "matrix language" as C. Myers-Scotton may call it, that 228 is, the medium of the conversation where alien words or phrases are inserted. In C. Myers-Scotton's Model, 229 content morphemes can be inserted into mixed constituents only when congruent with the matrix language 230 categories, while function morphemes cannot, that is to say that the grammatical morphemes must be from the 231 base language. This kind of switching is largely the most frequent among our participants. 232

In the following extracts, speakers insert different categories of words from French into Songhay language. The 233 procedure looks like what P. ??uysken (1994, p.156) called placing 'an alien lexical or phrasal category' into a 234 given language. In this case, the Songhay language is the base code, that is, the medium of the conversations, 235 and French language plays the role of embedded language, that is, the language that provides the repertoire of 236 the 'alien' words. This proves that the intra-sentential switching is unidirectional because the conversation is 237 directed only in one of the two codes involved. But, the reverse direction is possible when the speaker changes 238 the direction and uses the other code instead as the medium of the conversation, as will be seen further in this 239 article. We propose to distinguish the different categories of the 'alien' words 'imported' from French into the 240 241 Songhay language in the following extracts.

242 8 e) Verbs found in the intra-sentential switching of Songhay 243 speakers of French

²⁴⁴ In the extracts below, we have noticed that the speakers insert in a Songhay-based code the past participle of ²⁴⁵ the verbs in French. Consider the verb forms in the following:

? 1B3 ? : Bari, war gagné wala? "Bari, did you win?" 2B1 : Le programme-là ka damndi, (h), à la mairie de
Goundam 5

248 9 ?

-là, i reconduit ga. "The programme that was planned, (h), at the town hall in Goundam, they renewed it." 2B8 Speaker : Non! A na fini deh! (0.2) "No! It's not finished deh! "1B3 has inserted in his speech the past participle of the verb 'gagner'. The action of the verb is stated in a past tense corresponding to the 'passé composé'. We notice that the full form of the 'passé composé' which should be 'avez gagné' is not used. The first part of the verb which is 'avez' is omitted. This is because the use of 'avez' is not congruent with the grammatical structure of Songhay language which requires placing the infinitive form of a verb before the subject to express past actions, for example: Ay kaa "I have come" or "I came" Ali koy "Ali has gone" or "Ali went".

Speaker 2B1 also uses the same form of the verb, the past participle of the verb 'reconduire' at the end of his speech, 'i reconduit ga'"they renewed it", in French "Ils ont reconduit cela". Speaker 2B8 , like 2B1 and 1B3

? , uses the same form of the verb, the past participle of 'finir'. However, it appears that the verbs used in these three examples are from different groups of verbs in French. 'Gagner' is a verb of the first group, 'reconduire' is a verb of the third group, and 'finir' is a verb of the second group.

So, we think that, whatever the group of the verb is, the embedded verb takes the form of the past participle in 261 all the instances of our study where a single word is embedded as verb. But, when we have more than two verbs 262 embedded, only the first verb form is in the past participle, the other forms follow the grammatical rules of the 263 embedded language, like 'commencé à voler' in this extract: the intra-sentential switching, we have personally 264 265 observed the speech of language teachers and communicators to find out if other forms of the following verbs like 266 'gagner', 'reclamer', 'coller', 'finir', 'fournir', 'reconduire', 'repondre', 'atteindre' (found in our data) can be used in an intra-sentential switching of a Songhay speaker of French instead of the past participle. From this observation, 267 it can be stated that the past participle of these verbs is generally embedded in an intra-sentential switching of 268 a Songhay speaker of French. Other forms of these verbs do not work in this kind of switching because they will 269 not be congruent with the grammaticality of the Songhay language used as base code in switching practices with 270 French. For example, in this extract:? 2B1 271

If we substitute the subject 'war' (second person plural) with other subjects like 'ay' (first person singular) or 'yer' (first person plural) or 'Ali nda Moussa', the switching will always work with the same verb form 'décollé': Han ka war décollé? "The day you leave?" -Han ka ay décollé -Han ka yer décollé -Han ka Ali nda Moussa décollé.

But, if we substitute the verb form 'décollé' with other verb forms like 'decolle'(first or third person singular) or 'decollons' (first person plural) or 'decollent' (third person plural), the switching will not work with the grammatical system of the Songhay language:

-Han ka ay décolle (is not appropriate in Songhay-French switching) -Han ka yer décollons (is not appropriate in Songhay-French switching) -Han ka Ali nda Moussa décollent (is not appropriate in Songhay-French switching).

The same way, if we substitute 'décollé' with other verbs like fournir or atteindre, the switching will always work with their respective past participle forms, and other verb forms will not be congruent in this kind of switching:

-Han ka war fourni. From this angle, if we consider the verb form in the following extrcat:? 2B2

The embedded verb collé is preceded by a Songhay veb 'kaa' which is conjugated in a perfect tense with the Songhay modal verb 'go', here in the contracted form 'o'.

In French, when two verbs precede each other, only the first is conjugated and the second must be in the infinitive form. This rule is violated in the Songhay-French code-switching. 'Collé', instead of the infinitive form, takes here the past participle form, because of the switching phenomenon. The infinitive is not congruent with Songhay internal system in the switching. This phenomenon is not a serial verb construction. Research needs to be done to find out if it is a case of vowel harmony. This is obvious when we substitute 'coller' with 'reconduire' or 'fournir', two verbs of second and third group:

293 : Hey, wa koti a ra nga baadi war ma noo ga a se, yer'o kaa collé ga. "Hey, you cut his share from the banknote
294 and give it to him, we will stick it after." ? : Le programme-là ka damndi, (h), à la mairie de Goundam-là, i
295 reconduit ga. "The programme that was planned, (h), at the town hall in Goundam, they renewed it." 3B1-

?: [?] (0.2) Ay ta nda ciimi, ay si hin ka har ye repondu ga quoi. (0.4) Beero, tu peux ? comme beero go nee, yaama a ma may hayka a har yer se a ra. "[...] Really, I cannot say that I am able to answer it. Beero, can you ? as beero is here, maybe he can tell us something about it." G3 :

299 10 ?

[?] (.) Deh ni ma ni objectifoo atteint, c'est ça quoi! "[...] Anyhow, you have to achieve your objective, that's 300 right!" G14 : [...] Mais Sam, nga mo a nka dixième repris, takaa woo nda ir na Backoo 7 -Embedded verb forms 301 with Songhay affixation Some French verbs follow the process of derivational affixation in the Songhay language. 302 These embedded verbs are formed by adding to the French verb the Songhay derivational affix '-ndi'. In Songhay 303 language, this derivational affix is added to a verb to form another verb, as we can notice in the speech of tee nda 304 cere. [...] Waatidin, Sam nda ? nda Ousmane Issoufiwoo, nda Albaa?ayan ? "[...] But Sam also repeated tenth 305 306 form, that's why we did the Baccalaureate together with him. [...] That time, Sam and ? and Ousmane Issoufi, and Albaasha and others ?" T11 ? where the speaker uses pure Songhay (bayndi, "to make know") compared 307 to the speeches of 2B8, T9, T11 where the speakers embed the French verb forms with the Songhay affix '-ndi': 308 2B8309

? : Savoirnd'ay! Maa n'o hinse yane? "Make me know! What have you done for me?" T9 7 Short for baccalaureate : [?] Sanda woodi ti nin ? sanda woodi ti nin, nda yer'o wir ka passerndi message quoi! (.) [...] " That is ? that is in case we need to pass a message!"

? T11 f) Nouns found in the intra-sentential switching of Songhay speakers of French : [...] Mais, je crois que,
njorfudi, nda i hiraw misedi ka borodiyo kaa nda, hayadi'o organiséndi! [...] "[...] But, I think if we pay correctly
the money as it should be, the thing will be organised! [...]"

In the extracts below, speakers insert different kinds of nouns from French into the Songhay language: compound nouns, common nouns, proper nouns, abstract nouns, collective nouns. These nouns are used either as subject or as object.

However, we have found that these embedded nouns sometimes keep the Songhay inflectional affixesdi/-o/-wo (for singular nouns), -diyo/-wey (for plural nouns) which indicate the Songhay definite nouns. As for the Songhay indefinite nouns, the embedded words do not undergo any change for singular nouns, but the plural nouns take the inflectional affixes -yo/-yey (-yo in Timbuktu dialect, -yey in Gao dialect).

This angle confirms C. Myers-Scotton's (1993a, 1993b) Matrix Language Frame Model, according to which the grammatical morphemes must be from the base language and 'content morphemes can be inserted into mixed constituents only when congruent with the matrix language categories'. Nouns are content words, and they adapt here the Songhay grammaticality:

-Definite form of nouns, singular (-di/-o/-wo) and plural (-diyo/-wey)? 1B2

? : Policediyo kur ka dam constadi ka ra i har () [...] "All the policemen that did the report in which they said ()" G1 -Indefinite form of nouns, singular (bare form) and plural (-yo/-yey)

330 : A ga Biblo feuillewey kortu deh a g'i bibiri. "He tore out the sheets of his Bible and rolled them up in 331 pieces."

332 **11** ? **2B1**

? : Ciji, yer nda ngi borodiyo bara débat timmente ra meh. "Last night, we held a long debate with them, 333 you know." : Joueuryo ka ja ngi ?aa hay gi hal more i'g'i goro banc de touche ? "These players, since they 334 have been playing till now, they are still sitting on the substitutes'bench?" The adjectives encountered in the 335 336 Songhay-French intra-sentential switching of our data are largely numerals and adjectives of quality. Other kinds 337 of adjectives are used, but less frequent than numerals and adjectives of quality. Like nouns, some of these 338 adjectives take the inflectional affixes -di/-o/-wo (for singular nouns), -diyo/-wey (for plural nouns), confirming 339 C. Myers-Scotton's (1993a, 1993b) point of view in her Matrix Language Frame Model, according to which content morphemes, like nouns here, adapt the grammar rule of the base language. 340

-Examples of embedded numerals ? [A too fort ra nong'ka], wala a way ka ?indi war, nda a gay hal a g'o ciini ra, a'a cii hal a ma bendi nga moo wooyo si fer. A go daabu gi nin ka cii. "He is so smart that when he wants to fool you, he feigns to close his eyes from the beginning till the end of his speech. He closes them and goes on speaking." G11 ? : Ya nka si baa ya troisième leger tee, donc, troisième fort no ay ga baa. "I don't like to make light tea, I
like strong tea." G15 -Example of the embedded distributive adjective 'chaque' (each):

: Il y a des gens, un moment-là, ils sont pas ? i ?ii disponible. (0.2) Waati fooyan goo no, i ga regretté ?
"There are some people, at a certain point, they are not ? they are not available. After sometimes they regret ?"
? T14 h) Adverbs found the in intra-sentential switching of Songhay speakers of French : Jour di ti chaque
jeudi wala? "About the day, is it on Thurdays?" Contrary to verb forms, nouns and adjectives, the adverbs we
found in this Songhay-French intrasentential switching are fixed words. All these adverbs do not undergo any
change.

353 **12** ? **1B4**

?: Hey, kaa din ay motoodi; après kur ay nda ni go joué. "Hey, come and take my motobyke; after, we play
together." T13 ?: Mais, c'est-à-dire, après hawme handudi, ma? ga ti a maa, bor'ka prêt, akoydi'o hin ka hajje
? "So, that is, after Lent, you know, any preson who is ready can ?" T12 ?: N'o may combien? "How much do
you get?" FG2:

? Woo no ma bay ka? staryey ti ir. (0.2) Ay nee tellement que staryey ti ir, a si hin ka selen ya ne. "It is 358 a fact that we are stars. I say we are stars, that's the reason why she couldn't talk with me" T7 : Ay har a 359 boori! (0.2) Franchement, a na ti Ablo wane idée woo foo, puisque war mara woo jaatindi In the conversations of 360 Songhay speakers of French, speakers sometimes reverse the direction of the conversation using alternately both 361 languages as base code in their discourse. This does not challenge, anyhow, the unidirectional character of the 362 intrasentential switching because the conversation is directed only in one of the two codes involved. The speaker 363 only changes the direction and uses the other code instead as the medium of the conversation. In our data, we 364 found some examples of intra-sentential switching where the base code of the discourse is not Songhay language 365 as seen in the extracts above, but French instead. In these examples, the Songhay embedded words generally 366 express emphasis, excitement, surprise, joy, anger, agreement or disagreement, time, and other exclamations. 367

368 13 Conclusion

Ay ta, je suis quelqu'un qui me déplace beaucoup. (.) [...] "As for me, I am particularly always on move. (.)"
The issue of code-switching and code-mixing is a language phenomenon facing all languages in contact situation.
In Mali, it is a consequence of the multilingualism that characterises the Malian linguistic landscape and the

Malian society as well. The data have revealed that the practice of code-switching and codemixing by Songhay speakers of French is becoming general.

Table ?? shows the final results of all the participants involved in the study with 1169 total amount of utterances 374 or speeches grouping 539 speeches of code-switching and code-mixing representing 46%, 443 speeches in native 375 language only representing 35% and 220 speeches in French-only representing 19%. The use of code-switching 376 and code-mixing is higher than the use of the native language, and French-only is less used. The table shows also 377 that the use of intrasentential switching is considerably higher (82%) than the use of inter-sentential switching 378 (18%). As a matter of fact, this predominance of intra-sentential switching confirms the "size of constituent 379 constraint" of S. Poplack (1980Poplack (, 1981)) and supports the claim that smaller language units like nouns 380 or verbs tend to be more switched than larger ones like sentences or clauses. 381

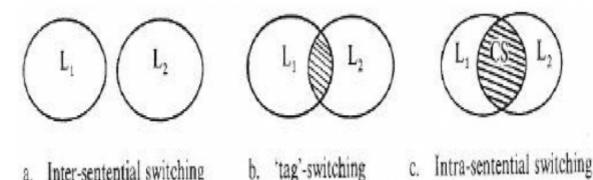
382 14 46%

Theories on code-switching and code-mixing claimed by S. Poplack and C. Myers-Scotton have been revealed to be applicable to the different forms of the two types of switching in the study of Songhay speakers of French. Among these types, the intra-sentential one abounds much, representing 82% of the total number of the speeches of our data, as shown in table ??. This type of switching, based on C. Myers-Scotton's (1993a) insertion model is, according to P. ??uysken (1994, pp.156-162) "typical of the African code-switching materials".

The predominance of intra-sentential switches is evidence that confirms S. Poplack's (1980Poplack's (, 1981) "Size of Constituent Constraint" according to which smaller language units like nouns, determiners, verbs, adverbs, and adjectives are more frequently switched than larger size of constituents such as sentences and clauses. It also supports the works of other researchers like S. Berk-Seligson's (1986) study on Hebrew-Spanish, C. W. Pfaff's (1979) S. Poplack's (1980Poplack's (, 1981)) and L. A. Timm's (1975) studies on English-Spanish where smaller size of switches like nouns, verbs, adverbs, adjectives, etc. were had been found to be more frequently used than larger ones.

395 The study has found verbs, nouns, adjectives, adverbs, conjunctions and exclamations in French language 396 that are inserted in Songhay-based conversations. We have also noticed that most of the inserted verb forms are 397 past participles, and this concerns all the three French verb groups. Among the categories of the intra-sentential switching, the predominance of nouns is also noticeable throughout our data, though we did not consider any 398 statistics to show their exact number and suggest future research to do so. However, the most striking finding 399 in our study is the frequent use of the past participle of the verbal forms of switches. But, this claim should be 400 taken with care, for more research needs to be done in order to investigate the grammatical categories of the 401 Songhay-French intra-sentential switching using other data collection procedures. 402

We recommend that future research studies be done to generate new data and new findings on the problem of 403 code-switching and code-mixing of Songhay speakers of French for further refinements. It will also be interesting 404 to undertake more research work on codeswitching and code-mixing issues on other languages in the Malian 405 linguistic landscape such as code-switching of Songhay speakers of Bamanankan, Bambara speakers of French, 406 Fulfulde speakers of French, Fulani speakers of Songhay, Fulani speakers of Bambara, Songhay speakers of Kel-407 Tamasheq and codeswitching between French and other Malian national languages. Though various efforts have 408 been made and are being made, the government must support any action aiming at protecting, preserving and 409 promoting the national languages.



Inter-sentential switching 8.

'tag'-switching b,



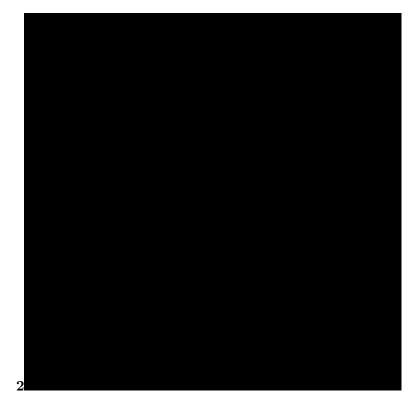


Figure 2: Figure 2 :

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Figure 3: Figure 3



Figure 4: Figure 3 :

Figure 5:

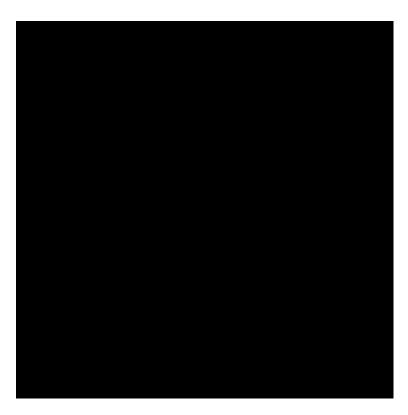


Figure 6: ?:



Figure 7: 4)



Figure 8: 2B3

Figure 9:



Figure 10: FG2?: 6 ?-



Figure 11: FG2?:



Figure 12: FT2-?:

Figure 13:

'. (.) Maa n'o wii ga nda?
"We're playing 'Cent'. Which card should you play?"
1B2

? ?

Figure 14: :

	Yer'o kaa reconduire ga. (is not approp	riate in		
	Songhay-French switching)			
-Yer'o kaa fournir g	ga. (is not appropriate in Songhay-			
	French switching)			
	But,			
-Yer'o kaa recondu	it ga.			
-? Examples of em	bedded verbs of first group like			
	'gagner' (to win)			
? 2B8			:	
			Muusa	
			na cii	
			(0.2)	
			Muusa	
			na	
			cii,	
			ay ga	
	reclamé! "Moussa didn't say anything.	Moussa		
	didn't say anything, but I claimed!"			
?	G1	: Baa zaarikayo a c	cindi ka connecté. "Even thi	
	morning she was connected."			
?	G9	: Sanda, boro no a	na dam a ra ka? g'a géré.	
	"Well, he engaged someone who manag			
?	G1	: Ah, donc, ni n'k'a renforcé deh! "Ah, so, you		
	just reinforced it!"	, ,	, , , ,	
?	-			

Figure 15:

1

			Speeches /	[/] utterances			
Number	City	CS and CM Interse	entential Intr	asentential	Only Songhay (Only French	Total
1	Bamako	69	247		256	182	754
2	Gao	15		89	74	14	192
3	Timbukt	u12		107	80	24	223
Total		96	539	443	410 410	220	$1169 \ 1169$
						220	
Percentag	ge	18%		82%	35%	19%	100%

Figure 16: Table 1 :

© 2019 Global Journals ka ye guna, c'est vraiment très intéressant! (.) [?] "I say, well done! Honestly, in 411 addition to Ablo's idea, the meeting itself, it is really very interesting!"? T12 : Bon! (.) C'est pas forcément 412 bara akoydi ma bana njerfu. (0.2) Laissons ca! "Well! It's not compulsory that the person should pay a fine. 413 Forget it!" ((Here, speaker T12 i) Conjunctions found in the intra-sentential switching mistakenly uses this adverb 414 415 instead of the adjective forcé))

The conjunctions encountered in the Songhay-French intra-sentential switching are fixed words, and like the 416 adverbs, these embedded conjunctions also do not undergo any change in their initial form. ? : Yer kondey woo, 417 yer ti talkayo kondey, mais boro kur ka wirci dam a ga, wala bun, wala ijemaa, yer kur'o koy. "Our association is 418 an association of poor people, but any member who got sick, or a death in his family, or naming ceremony in his 419 family, we all go to his place." Jigiba, that is, Jigiba's voice, when he is speaking ?": ?ine nda Jigiba, i kur mana 420 baa cere, c'est-àdire quoi, Jigiba jindo, nda a ?elen mane quoi ? "There is no much difference between Shin and 421 ? G13 j) Exclamations found in the intra-sentential switching : Mazaa borey là, i ga yenje parce que, (h) n' ga 422 bay, c'est des villages contigus () "Mazaa people are quarrelsome because, you know, they are adjoining villages 423 ()424

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