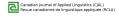
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Material Use in Collaborative Dialogue by Japanese University Students Learning Future Tenses in French as a Foreign Language: A Discourse and Interaction Analysis

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Abstract

This article reports on the use of an experimental material to enable discrimination between the periphrastic future (PF) and simple future (SF) intended for initial level university students in Japan studying French as a Foreign Language. A dyad was filmed using the material in a task on tense choice in short dialogues modelled on Galperin's procedure. A discourse and interaction analysis were then performed on excerpts of the videoed session where the participants interacted with the material. It was found that the material enabled the dyad to complete the task. Moreover, if the pragmatic effect of the SF was not fully grasped, the analysis nonetheless showed that the participants transformed the linguistic knowledge from the material into metalinguistic resources of their own, and that internalization of the targeted concepts occurred to some extent.

Résumé

Cet article rend compte de l'utilisation d'un matériel expérimental pour la discrimination entre le futur périphrastique (FP) et le futur simple (FS) destiné à des étudiants de niveau initial en Français Langue Étrangère à l'université au Japon. Un binôme d'apprenants a été filmé utilisant le matériel au cours d'une tâche sur le choix du temps dans de courts dialogues inspirée de la procédure de Galperin. Ensuite, pour les séquences de la session durant lesquelles les participants ont interagi avec le matériel, une analyse du discours et des interactions a été réalisée. On a constaté que le matériel a permis au binôme de terminer la tâche. En outre, si l'effet pragmatique du FS n'a pas été pleinement intégré, l'analyse a cependant montré que les participants transformaient les connaissances linguistiques du matériel en ressources métalinguistiques qui leur étaient propres, et que l'intériorisation des concepts cibles se produisait dans une certaine mesure.

Material Use in Collaborative Dialogue by Japanese University Students Learning Future Tenses in French as a Foreign Language: A Discourse and Interaction Analysis

Introduction

The present article reports on the analysis of the use by first-year university students in Japan of original material for Future tenses in French. This study seeks to answer two needs: reconciling a crucial domain of grammar—tenses—with language use and documenting how the material designed for this very purpose was used.

For students studying French at university in Japan, grammar is, indeed, essentially a set of explicit rules unconnected with any situation of language use. In the first-year students' schedule, grammar and communication are, significantly, split into two courses without any coordination most of the time: a grammar course and a conversation course, of 90 minutes each, over 15 weeks, resulting in a total course time of 90 hours over the year. In the textbooks for the grammar course, contents are presented from simple to complex, in isolation, and through guidance of metalinguistic descriptions in Japanese based on grammatical terminology from first-language education in France (Delbarre, 2014). Next to the grammatical presentations, the exercises focus exclusively on morphological features. The two main Future tenses are no exception. For instance, students will not learn about the rationale of choice between "votre valise (your suitcase) va tomber" (go-PRS.3SG fall) and "votre valise tombera" (fall-FUT.3SG). Let us think of a simple task involving this choice, as in the following:

Vous êtes monté(e) dans le train:

- Attention, votre valise va tomber! tombera!

You have boarded the train:

- Watch out, your suitcase go-PRS.3SG fall! fall-FUT.3SG!

In the example above, the so-called Go-Future "va tomber", known as periphrastic future, is the only possible choice, because, as we will see, only this tense fits with the understanding the speaker has of the situation. This is an example of what the material for this study was designed for: enabling learners to choose the appropriate tense in various contexts.

The second need we seek to answer is to report on the actual use of such material during an experimental task, which is made of four others of these dialogues with tense choice. Indeed, as Tomlinson and Masuhara (2018) note, "we can still find very little literature on what students actually do with materials" (p. 360). In any case, no example was found of any qualitative analysis of experimental materials that assessed the materials' efficiency within a task in real time. The goal of the present study is therefore twofold: Determining whether our experimental material enables students to discriminate between the periphrastic future (PF) and simple future (SF) and documenting how learners actually use it during the task.

The conception of the material, the implementation of the task—a "collaborative dialogue"—as well as the analysis of the discourse arising when the learners use the material during the task draw on a Vygotskian approach to second language learning.

Moreover, for documenting how learners adapt to their continuously evolving environment during the task, we will further support our analysis with elements from the sociocognitive approach (*inter alia* Atkinson, 2011). This framework is introduced in the next section before presenting the study itself.

Analyzing Discourse and Interaction with the Material: Theory and Method

This study is anchored on the sociocultural theory (SCT) for second language (L2) (Lantolf, 2006; Lantolf & Thorne, 2006). It adapts, on the one hand, the Concept-Based Instruction for L2 acquisition (see Lantolf, 2011), based on Galperin's teaching procedure (1967, 1989, 1992) and integrates, on the other hand, the format of the "collaborative dialogue" (Swain, 2000; Swain, Brooks & Tocalli-Beller, 2002).

SCT considers learning from the perspective of Vygotsky's theory of mental development (2012 [1934]). Two key elements of Vygotsky's theory are of interest in our case: 1) the internalization of concepts – which, in speech, are the meaning of words – and their conscious use by the individual to control her mental activity (concepts "mediate" thinking), 2) the development of concepts in the course of an activity with a more experienced individual, this development covering a zone ("zone of proximal development" in Vygotsky's terms) which varies, in particular, according to the age of the individual and to the domain of the activity.

Some scholars in SCT have brought up to date Galperin's teaching procedure, which specifically draws on these two key elements. In Vygotsky's footsteps, himself also a specialist in mental development, Galperin was specifically interested in improving teaching methods and materials (Haenen, 2001).

Galperin was the promoter of a teaching procedure that aims to guide learners in their problem-solving activity by providing them with a schema detailing the concept that would be useful for carrying out the activity. This orienting schema can be a chart, a diagram, or a visual where the action that the concept achieves is broken down into its parts. Then, the action represented on the card generates oral exchanges during practice – the verbalization phase – and is eventually abbreviated into an action on the mental plane (Galperin,1967, 1989, 1992; see also Arievitch & Haenen, 2005; Haenen, 2001). In Galperin's procedure, conditions for internalization to occur are specifically recreated for educational purposes. According to Gaperin (1989), an advantage of his procedure is that learners avoid the "trial and error" phase, which is costly in time. Another advantage is that the orientating schema avoids the effort of initial memorization: learners unintentionally memorize concepts using the schema in the course of the activity (Galperin, 1989: 70-71).

In L2 acquisition, Galperin's procedure is known as Concept-Based Approach (Lantolf, 2011) or Concept-Based Instruction. The target concepts of the L2—for example, tense-aspect (Gánem-Gutiérrez & Harun, 2011; Negueruela and Lantolf, 2006), phrasal verbs (Lee, 2016), irony and sarcasm (Kim, 2013), *tu* vs. *vous* in French (van Compernolle, 2011)—are represented in diagrams or schemas, then explained and used in communicative activities. The experimental task for testing our material is based on these principles, although Lantolf (2006, 2011)'s proposal to rely on Cognitive Linguistics will not be followed.

Our analysis will focus on the verbalization phase, i.e. the immediate circumstances of the use of the pedagogical material and on the discourse and actions it arouses. Swain (2000) rightly approaches the verbalization phase of Galperin's procedure with her own

notion of "collaborative dialogue" (pp. 104 et sq.), which she defines as "linguistic problem solving through social interaction" (p. 104). In collaborative dialogue, language is a communicative tool at the service of achieving a goal. However, when language takes as its object the language used for a communicative purpose, it also becomes a cognitive tool (Swain et al., 2002). Later, Swain (2010) will call "languaging" the activity in the course of problem-solving which consists in discovering elements of understanding by the mere fact of putting the problem into words. Finally, Swain and Lapkin (2013) report several studies on how L1 mediates L2 tasks. When the L1 serves to focus attention when the task becomes cognitively challenging, these authors envisage the L1 as scaffolding.

In Vygotskian research in L2 acquisition, the analysis of verbalizations follows Vygotsky's genetic method. This method aims to document the integration of new concepts into the individual's thinking process (Lantolf & Thorne, 2006). Since the analyst seeks to describe changes on short time scales and which occur in real time, this method is also referred to as microgenetic (Ortega, 2008: 224). However, in the literature on Concept-Based Instruction, collaborative dialogue or L2 gesture research (McCafferty & Stam, 2008 for instance), emphasis is not put on local interactions with the material environment of the task, particularly with the pedagogical material. While pedagogical materials are certainly not the main focus of collaborative dialogue analysis, it is of decisive importance in Galperin's procedure as well as in the Concept-Based Instruction. A discourse analysis of the verbalization phase – a collaborative dialogue in Swain's sense – must account for any phenomena relating to the use of the concepts explained in the material (their integration, in the best-case scenario). In L2 acquisition, Atkinson (2011, 2013, 2019) and colleagues (Atkinson et al., 2007; Churchill et al., 2010) propose a holistic framework, named "sociocognitive", which aims to account for the creation of meaning through the course of action.

The participation framework (Goodwin, 2003) is a tool in this approach which we believe is essential to complete the analysis of a collaborative dialogue. Goodwin defines "participation framework" as the participants' joint engagement in an action. When they focus their attention to build an action, the participants mobilize in addition to speech different semiotic resources such as gesture, gaze, and bodily orientation, in combination, in some cases, with material artifacts in their environment. Atkinson (2011) further argues that, during its use, pedagogical material functions as "extended cognition", as defined by Clark and Chalmers (1998). Clark and Chalmers' thesis is that most of the time cognitive processes take place by delegating tasks to artifacts specially designed for this in our environment.

Since they focus on the moment-to-moment organization of interaction, as does the genetic method, these elements from the sociocognitive approach will be integrated to account for the use of the material and the analysis of the discourse it triggers.

The Study

Objectives

In light of these theoretical and methodological principles, an experimental task consisting of five short dialogues was carried out by two dyads of learners at the initial level. In addition to the dialogues, each pair had the material (a worksheet, presented below) that we wanted to test, developed according to the principle of the "orientating schema" in

Galperin's procedure and in the Concept-Based Instruction. The sessions were videoed for analysis. Our goal is to answer the following two questions:

- 1. Does our experimental material enable students to discriminate between the Periphrastic Future (PF) and Simple Future (SF) in those dialogues?
- 2. How do learners use it during the task?

This section will provide the details of the study, starting with the linguistic aspect of the material.

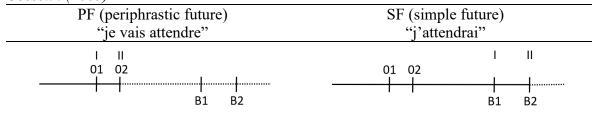
The Contrasting use of the periphrastic future and the simple future

First, three theoretical accounts of the contrasting use of the PF and SF are provided below. These descriptions were selected primarily for the value they have in terms of their adaptation to the Foreign Language classroom.

Process in the possible (PF) vs. the irrevocable (SF)

Gosselin (2005) suggests that a verb in the indicative mood draws a division between the irrevocable and the possible, which he terms "modal cut" ("coupe modale"). Gosselin explains that the living present is characterized by a conversion of the possible into the irrevocable, and the main property of the tense system is to sustain the simulation of this conversion at another point in time (2005: 102). In Gosselin's terminology, this modal cut corresponds to a reference interval I–II and is more precisely operated at bound II (2005: 91). Table 1 below represents the PF and SF in the Reischenbachian stylization used by this author.

Table 1Reischenbachian models for the periphrastic future and simple future, adapted from Gosselin (2005)



Note: "01-02" refers to the speech interval, when the speaker uses the language; "B1-B2" is the process interval, which refers to the time of the situation being evoked; the reference interval "I-II" is the moment at which the process is seen/imagined.

The distinction between the PF and SF becomes clear: with the PF, the process B1-B2 is in the possible, to the right of bound II, but with the SF, the process B1-B2 remains in the irrevocable, to the left of bound II.¹

Related to (PF) vs. detached from (SF) the situation of uttering

The analysis provided by Camussi-Ni (2018) is slightly different, as it is based on the situation of uttering.² First, this author observes that in French, both the non-finite verb and the SF refer to a "potential" process (as opposed to a "confirmed" process). The potential value of the non-finite verb is due to its absence of actual reference to the

situation of uttering. In contrast, the SF draws this value from its reference to this very situation of uttering. Hence, both the PF and SF carry on a potential value in the non-finite verb and in the verb predicated on a grammatical subject, respectively (Camussi-Ni, 2018: para. 7-17). However, the distinction between the two is based on the following:

PF: The auxiliary verb is in the present tense. For Camussi-Ni, the present tense construes a coincidence between the process and the situation of uttering. The basic meaning of the PF in, for example, "ils vont partir [they go-PRS.3PL leave]", is that "a potential situation (partir [leave]) is related to a situation that coincides with the situation of uttering (ils vont [they go-PRS.3PL]), itself constructed by the speaker." (2018, para. 22, our translation)³

SF: Camussi-Ni argues that the SF has undergone a repositioning within the tense system. Considering that it shares with the simple past ("passé simple") the same morpheme [a], Camussi-Ni claims that similar to the simple past, it is also detached from the situation of uttering (2018, para. 23–30).

Predicting from a shared ground (PF) or authoritatively (SF)

Bottineau (2014) focuses more directly on the material scene of linguistic interaction and aims at accounting for how participants coordinate their thoughts through their speaking. Bottineau argues that the relevance of the so-called enactive approach in foreign grammar instruction is to familiarize learners with the fact that grammatical choices shift the participants' position within the environment of the interaction. Hence, the contrast between the PF and SF touches on the attitude of the speaker toward the other participants in relation to the event that is being evoked. With the PF, the speaker invites the listener to share the ground from which the future event is contemplated. On the contrary, the SF excludes the imaginable futures of the other speakers, by authoritatively and performatively deciding on one unique future for all (Bottineau, 2014: 197).

Material

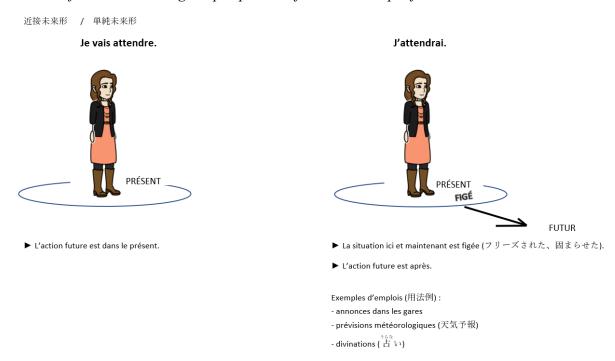
Our material is designed to function as does the "orienting schema" in Galperin's procedure. It must not be based on translation in equivalent verb forms in the L1. On the contrary, it must provide a class-friendly and theoretically coherent instruction of use, so as to promote the internalization of the rationale of choice between the two tenses.

The oppositions between possible/irrevocable (Gosselin) and related to / detached from the situation of uttering (Camussi-Ni) appear transposable in an opposition between the internal and external space. The internal space would be the speaker's bodily space (or of the subject to which the verb is predicated), which would correspond to the speech interval and the situation of uttering, respectively. Bottineau's approach adds an essential dimension to these distinctions by considering how the choice affects the interactional configuration. This differentiation would be mapped onto the opposition between the speaker's bodily space and an external space.

The material—a worksheet—created out of these accounts is reproduced in Figure 1 below.

Figure 1

Material for discriminating the periphrastic future and simple future.



The title of this worksheet, "近接未来形 / 単純未来形" "kinsetsu miraikei / tanjun miraikei" ("close future form / simple future form"), uses the conventional terms found in grammar textbooks. Then, both tenses are illustrated with the visual of a woman standing within a circular space that represents her perceptual present. For the SF, the word "figé" ("frozen") is superimposed, as if it were stamped, onto the space of the present, and an arrow points toward a zone marked as the future. The space ahead is indeed a conventional representation of the future in French speakers' gestures (Calbris, 1990: 88).

Below the visual for the PF, a sentence reads: "L'action future est dans le présent." ("The future action is in the present"). For the SF, the first sentence reads: "La situation ici et maintenant est figée (フリーズされた、固まらせた)." ("The situation here and now is frozen ((has been) frozen, hardened.") Below, examples of use are provided: "annonces dans les gares, prévisions météorologiques (天気予報), divinations (占い)" ("station announcements, weather forecasts, divinations").

The visual elements and the explanations are the results of our effort in tailoring the theoretical accounts to the context of use. The circle that stakes out the present around the woman is meant to match the notions of speech interval in Gosselin's (2005) analysis and that of the situation of uttering in Camussi-Ni's (2018) work. The notion that with the PF, the potential action occurs within the situation of uttering is taken over nearly word-forword ("L'action future est dans le présent.").

To highlight that the tenses differ in the way they sustain the emerging stance of the speaker and listeners, we opted to emphasize the peculiar pragmatic effect of the SF with the metaphor of freezing. This metaphor is meant to suggest that the authoritative choice the speaker is making in predicting one unique future, as Bottineau (2014) argues, is a constraint which limits every participant's movements. In our view, it seemed important to

stress the fact that this constraint is felt in the present. The present is frozen, as it must conform to a unilateral future. Finally, the notion that "L'action future est après" ("The future action is after") refers to the detachment of the event from the situation of uttering, as described by Camussi-Ni (2018).

Participants

At the start of 2020, the four participants of this study were recruited in the author's institution via announcements in classes. They were explained the goal and design of the experiment. They provided their written and informed consent for the use of their anonymized audio-video recordings and written data, collected during the experiment, for research purposes. In full accordance with the standards of my institution, they received financial compensation for their participation in the three experimental testing sessions. Among the participants, three were Japanese, and at the end of their first university year. They have been named Mika, Hiroki, and Ryōta for the purpose of reporting in this paper. The fourth participant, who was Burmese, and at the end of her second university year in a four-year bachelor's program in English, has been named Kyaw. Table 2 below provides information on the participants' background in French language study, including the estimated rate of grammar courses taken by them.

Table 1 *Participants' background in French language study at the beginning of the experiment.*

Name	Age	Year of Study	Learning of French (as of February 17, 2020) (in hours)
Hiroki	19	1	~120 h (80 % grammar)
Kyaw	20	2	~150 h (60 % grammar) + self-study
Mika	19	1	~180 h (65 % grammar)
Ryōta	19	1	\sim 60 h ⁶ (100 % grammar) + self-study

At the beginning of the first session, we conducted individual interviews with each participant to assess their acquisition stage (Bartning & Schlyter, 2004) in spontaneous oral production. I asked them to introduce themselves, to report on what they had done the day before, what they had planned for the day after, etc. A short picture-based narrative task was also used to elicit the use of past tenses. Measurements indicated that all participants were at stage 2 (post-initial), marked by the emergence of grammatical phenomena and an increasing number of finite forms (Bartning & Schlyter, 2004: 295). Individual differences seemed to be influenced by the number of study hours. Notably, Ryōta demonstrated lesser control over utterance structure and genre agreement. The four participants used the PF for basic reference to the future.

Corpus

The experimentation was implemented in four stages (approximate time in minutes in parentheses: 1) presentation (5), 2) pair-work (12), 3) sharing with the other pair (7), and 4) synthesis with the instructor (the author) (5). The four stages were videoed with two cameras. For constituting our corpus, the following inductive procedure was applied.

The videoed sessions were first browsed through, without preconception. At stage 2, the dyad with Ryōta and Hiroki proved to have a larger volume of exchanges and interaction with the material than the other dyad and was then selected. For each of the five dialogues, we further selected every sequence where the dyad interacted with the material. For the 10 excerpts constituted this way, speech, gesture and interaction with the material will be described in line with our objectives. "Interaction with the material" includes pointing or gazing at the worksheet (represented above in Figure 1), and every manipulation of it. "Gesture" is defined following Kendon (2004) as any visible bodily action that has "the features of manifest deliberate expressiveness" (p. 15).

The transcription conventions are as follows: \: falling intonation; /: rising intonation; ____: overlapped words; wo-: unfinished word; (()): transcriber's description; (n s): measured pause of n seconds; xxx: incomprehensible ("x" the number of syllables). In the body of the transcription, the numbers inserted refer to the screen captures—shown below the transcription—taken from the video footage at this very moment in the discourse. A translation of each excerpt is added in the right-hand column.

Results

Situation 1

(vous êtes monté(e) dans le - Attention, votre valise	train) va tomber! tombera!	valise:スーツケース tomber:落ちる
(you have boarded the train - Watch out, your	,	
suitcase	fall-FUT.3SG!	

We will first comment on the dialogue above to explain the choice of tense, so we can better judge the work achieved by the dyad. In situation 1, the speaker is spurred on by spontaneous empathy and warns the passenger. The falling of the suitcase is certainly not irrevocable (Gosselin, 2005); the potential action (Camussi-Ni, 2018) is in the speaker's present, and the suitcase's instability becomes an observation shared (in the sense of Bottineau's (2014) characterization) with its owner. Consequently, "tomber" in the PF, "va tomber", is the correct choice.

1	Н	0'04	attention\ votre valise	"Attention, votre valise
2			(1s)	
3		0'09	tombera\(1)	tombera!"
4	R	0'10	tombera\	tombera!"
5			(1,4s)	

6	Н	0'13	ochiru darō∖ (2)	It will probably fall !
7	R	0'14	ki ki o tsukenasai/(3)	Watch, watch out
8			(1,4s)	
9		0'18	votre valise/ tombera\	"Votre valise tombera !"
10			(1,3s)	
11			a kore ē kocchi(4) janē/	Ah, this, uh, not this <u>one here</u> ?
12	Н	0'22	((laughter))	
13			sō\	Really?





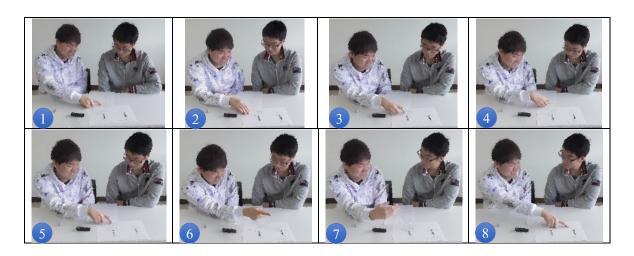
Ryōta and Hiroki have put the worksheet⁷ with the dialogues between them within their immediate field of vision. The worksheet of the material is placed just above it (Photos above). These two documents are the two foci of the "participation framework" (Goodwin, 2003). Ryōta and Hiroki's engagement in this participation framework can vary but will remain stable until the end of the task.

Here, Hiroki immediately chooses "tombera" and translates it with "ochiru darō" (l. 6). At this moment, Ryōta raises his head towards the material (Photos 2 to 3). In line 7, he engages again in the reading of the dialogue (Photos 3 to 4), then contests his partner's choice.

Hiroki's preference for direct translation illustrates well what can be termed the "think in L1 to speak in L2" effect, characteristic of students at initial levels (Pavlenko, 2014: 303). In Japanese, the future is the default reading of the -RU form of eventive predicates (Jacobsen, 2018); for example, "ochiru" ("to fall"). Hiroki adds the epistemic modal "darō", which can be loosely translated here as "will". However, Hiroki has obviously misunderstood the situation of the dialogue. Indeed, the speaker cannot establish the certainty of the fall of the suitcase.

In any case, the sequence of actions shows that Ryōta relied on the material to make his choice. In Excerpt 2 (immediately following), Ryōta repeats his claim, pointing to "va tomber" (Photo 1). Hiroki acknowledges his mistake, but with the slightest concession, observing that "it's not a divination" (1. 4)—he refers to one of the examples of use for the SF on the material. Sensing that his partner does not understand, from line 5 onward Ryōta further explains his choice:

2 (1,9s) 3 0'27 ya e ko(1)cchi da to omō No, uh, it's there I think! 4 H 0'28 kocchi/ kore uranai ja nai ka\a sokka uranai ja nai ka\a divination, I see, it's not a divination 5 R 0'32 datte a chi(2)gau eto kō Well, uh, no this, uh, this. 6 H 0'35 mmh Mmh. 7 R 0'36 koko(3) Here. 8 (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) Watch out, it's going to fall, it say	1	R	0'26	are/ (for himself)	Hey?
3 0'27 ya e ko(1)cchi da to omō No, uh, it's there I think! H 0'28 kocchi/ kore uranai ja nai ka\ a sokka uranai ja nai ka\ a sokka uranai ja nai No, uh, it's there I think! There? Because it's not a divination, I see, it's not a divination S R 0'32 datte a chi(2)gau eto kō Well, uh, no this, uh, this. Mmh. R 0'36 koko(3) Here. (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) I 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh			0 20		Ticy.
4 H 0'28 kocchi/ kore uranai ja nai ka\ a sokka uranai ja nai ka\ a sokka uranai ja nai ka\ a divination, I see, it's not a divination 5 R 0'32 datte a chi(2)gau eto kō Well, uh, no this, uh, this. 6 H 0'35 mmh Mmh. 7 R 0'36 koko(3) Here. 8 (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh				(1,98)	
4 H 0'28 kocchi/ kore uranai ja nai ka\a sokka uranai ja nai ka\a divination, I see, it's not a divination 5 R 0'32 datte a chi(2)gau eto kō Well, uh, no this, uh, this. 6 H 0'35 mmh Mmh. 7 R 0'36 koko(3) Here. 8 (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) 11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh	3		0'27	ya e ko(1)cchi da to omō	No, uh, it's there I think!
6 H 0'35 mmh Mmh. 7 R 0'36 koko(3) Here. 8 (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) 11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh	4	Н	0'28	•	divination, I see, it's not a
7 R 0'36 koko(3) Here. 8 (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) 11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh	5	R	0'32	datte a chi(2)gau eto kō	Well, uh, no this, uh, this.
8 (0,7s) 9 0'37 datte kore/(4) Well, this 10 (0,8s) 11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh	6	Н	0'35	mmh	Mmh.
9 0'37 datte kore/(4) Well, this 10 (0,8s) 11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh	7	R	0'36	koko(3)	Here.
10 (0,8s) 11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) mmh mmh mmh	8			(0,7s)	
11 0'38 ki o tsukete ochiru de tte iu\ bikkuri māku ga tsuiteiru shi\ ano\(5) Watch out, it's going to fall, it say and there's an exclamation mark, uh	9		0'37	datte kore/(4)	Well, this
11 0'38 Ri o tsukete ochiru de tie iu\ bikkuri and there's an exclamation mark, uh	10			(0,8s)	
12 H 0'42 mmh Hum.	11		0'38		Watch out, it's going to fall, it says, and there's an exclamation mark, uh
	12	Н	0'42	mmh	<u>Hum.</u>
yabai o(6)chiru yo mitaina\ ima(7) 13 R 0'42 okiteiru(8) kono l'action future est dans Something like, hey, it's falling, it happening now, this "L'action future est dans	13	R	0'42	okiteiru(8) kono l'action future est	
14 H 0'48 <u>e kore tte sa</u> <u>Uh, this, actually</u>	14	Н	0'48	ē kore tte sa	Uh, this, actually
15 0'49 le présente le présent."	15		0'49	le présente	le présent."
16 (2,1s)	16			(2,1s)	



In line 5 (Photo 2), Ryōta reorients the worksheet of the material in his direction: he seems to adjust the means that his explanation requires, but these means are that which need to be explained, hence the hesitations. These hesitations from lines 5 to 10 show that he is looking for ways to reformulate the problem for the benefit of Hiroki. Ryōta first considered the use of the material and pointed to the SF column (Photo 3). However, he changes his mind and points again to the dialogue (Photo 4, 1. 9). In line 11, he literally proceeds to an analysis of the utterance, resorting to reported speech, with the Japanese marker "tte iu", and noticing the punctuation. By focusing on the situation of uttering, he is able to—correctly—demonstrate how the utterance is anchored in the present.

However, in line 13, Ryōta goes further and impersonates the speaker, using again a marker for quoting, "mitai na" ("like"). The segment from Photo 5 to 6 corresponds to what Kendon (2004) calls the "preparation", preceding the stroke of a gesture. The stroke achieves the gesture's expressiveness (p. 112). Kendon's thesis (2004) is that gesture is an integral component in the construction of the utterance. Here, the stroke coincides with the verb "ochiru", and determines its spatial reference: the place of the object about to fall. Ryōta's gesture then accomplishes an "abstract deixis" (McNeil, 2005: 40) as the gesture builds up the target and surrounding environment in the absence of tangible objects. For McNeill (2005), gesture and speech develop the same underlying idea in two different semiotic modes: continuous and synthetic, discontinuous and analytic, respectively. This author envisages this underlying idea as a "growth point", the minimal psychological unit simultaneously unfolding its content in speech and gesture. However, beyond the complementarity between gesture and speech, a more holistic analysis of interactions must emphasize that Ryōta and Hiroki's environment has changed as the suitcase is imagined in it. For instance, Nevile et al. (2014) counts in the "interactional ecology of objects", the set of affordances—in the Gibsonian sense—of the objects in the environment in which one engages, the abstract objects created as supports of thought in discourse. Here, the suitcase is now present and mobilizable in thought, and its observation is shareable—the very value of the PF that Ryōta strives to illustrate.

Ryōta's next gesture makes sense in the "ecology" of this environment: He does not rest his hand but goes on with another gesture composed of two rapid strokes of the hand towards his bust (Photo 7). The sequence of the two gestures (Photos 6 to 7) demonstrates that the suitcase is in the same time as that of the body: this gesture towards the body intervenes on "ima" ("now"). Interestingly, only then does Hiroki turn his head towards his partner (Photo 7). Finally, Ryōta concludes his explanation with his hand now shaping into a pointing gesture on the column of the PF on the worksheet (Photo 8).

This rapid succession of pointing gestures in this excerpt performs a specific function. Indeed, the expressiveness of a pointing gesture is specific. Pointing is "a deictic gesture used to reorient the attention of another person so that an object becomes the shared focus for attention" (Butterworth, 2003: 9). Here, in the same participation framework—in Goodwin (2003)'s sense—, the consequentiality of Ryōta's gestures concretely builds up relationships between the words of the dialogue, the concepts from the material, the imaginary suitcase, the body of the speaker, and the tense of the Foreign Language, relationships that would otherwise remain abstract.

Situation 1 represents the first concrete use of the material. In the four next excerpts, Ryōta and Hiroki turn their attention to it, temporarily setting the dialogues aside.

Excerpt 3

1	Н	0'52	ē kore dō iu koto	Uh, this, what is this about?
2		0'54	kono imi yoku wakannai\(1)	I don't understand it well.
3		0'55	l'action future(2)	"L'action future"
4	R	0'56	ē kore/ wa are janai no\ ano	Uh, this, uh, it's not, uh
5		1'00	l'action future est dans le présent to iu no wa\	"L'action future est dans le présent", that is to say
6		1'05	mō ima masani oki yō to shite iru yō na kanji janai	It's like right now already it's about to happen, no?
7			(1,8s)	
8	Н	1'09	a	Ah.
9			(2,5s)(3)	





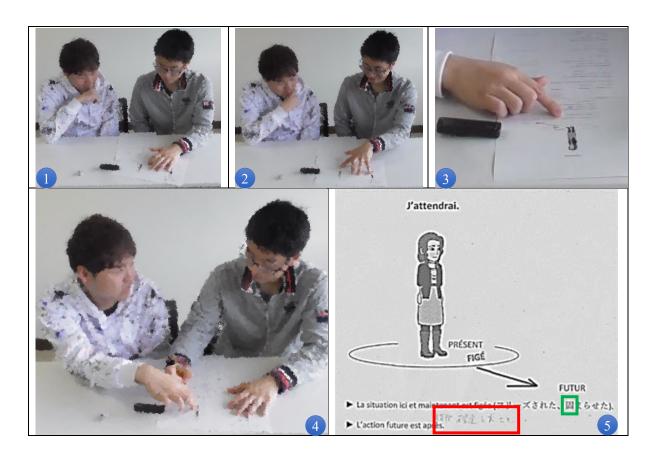


The key passage of this excerpt is the paraphrase of the PF by Ryōta in line 6. Although Ryōta just illustrated the specific anchoring in the present of this tense by impersonating the speaker, Hiroki points to some terms of the material still problematic for him and read them (Photo 1). After Hiroki, Ryōta points to the same terms, reads, and comments on them (l. 4 to 6. Photos 2 to 3). Ryōta's paraphrase uses the grammatical means of the Japanese language to render the aspectual value, first with the adverbial "masani" ("right now") and then with the complex form "-yō to shite iru", which expresses imminence (as in the periphrastic phrase "to be about to").

What occurs here is, we argue, what Swain (2010) calls "languaging", the fact to bring about new understanding by talking through a problem. Indeed, talking entails the externalization of ideas into words, which in the process brings up associations that one did not think of before. In our case, the material does not provide a translation. Then, when Hiroki asks for an explanation, Ryōta answers but his search for equivalence in L1 is new to him as well (l. 6 is a question).

The exploration of the material continues in Excerpt 4.

1	Н	1'13	kore ga/(1)	This
2			(1s)	
3		1'14	mmh	Mmh.
4			(2,4s)	
5		1'17	kore dō iu koto/(laughter)(2)	This, what is this about?
6	R	1'19	<u>kore</u>	<u>This</u>
7	Н	1'19	<u>furī</u> zusareta	" <u>fro</u> zen"
8		1'20	situation ga	The "situation"
9	R	1'22	la situation ici et main <u>tenant est</u>	"La situation ici et <u>maintenant</u> <u>est</u> "
10	Н	1'24	maintenant ga	"maintenant" is
11	R	1'25	figée	"figée."
12		1'26	mō nanka hobo <mark>kakutei</mark> de okiru koto ja nai	It's something nearly, well, already set to happen, no?
13			(1,5s)	
14		1'30	ko <mark>tei</mark> sa(3)re- ē/	fixed.
15		1'32	et maintenant est figée	" and now is frozen."
16	Н	1'34	a tashikani <mark>kakutei</mark> shita mitai na\	Ah, I see, something that's been decided, sort of.
17	R	1'37	ima nanka sore ga mirai ni okiru kōi no jōken ga sorotteru tte iu koto ka\(4)	Somehow the condition for the action to happen in the future is fulfilled with this now, something like this.
18	Н	1'41	mmh	Mmh.
19	R	1'42	tsumari	In short.
20		1'42	a sō iu koto da\	Ok, this kind of thing.
21			(6,1s)	



In excerpt 4, Hiroki asks the same question, this time about the SF (Photos 1 to 2, 1. 1 to 5). Photo 2 shows him reorienting the worksheet. In lines 9 and 11, Ryōta also reads the description of the SF. The metaphor of freezing stands for a present limited by the speaker's unilateral decision. In Lines 12 to 14, in "languaging", Ryōta paraphrases the explanation written on the worksheet. As he does so, he reuses a kanji that first was used in the material, "kata-" in "katamaraseta" ("hardened", see section 3.3.), and incorporates it with its Chinese reading "ko" into the term "kotei" ("fixation", l. 14). This kanji is framed in green in the transcription and in Photo 5, which is the worksheet that was on the table. However, it is the metalinguistic commentary line 12 that inspires Hiroki. Indeed, a few seconds later, Hiroki exclaims, "Ah, I see, something that's been decided, sort of', using the term "kakutei" ("decision, determination") provided by his partner. At line 17, Hiroki starts writing down "hobo kakutei shita koto" ("the fact of being nearly decided") onto the material next to the grammatical description (Photo 5, in red). The last link in this spontaneous web of signs is "tei", for the idea of "regularity", which appears both in "kakutei" and "kotei" (in yellow). This sequence will prove crucial for the remainder of the task: through interaction with the material, new signs—which, in Vygotskian terminology, mediate concepts—emerge, are recombined in discourse, and, in the case of "kakutei", hand-written back onto the material.

However, if this term, "kakutei", Hiroki's choice for "decision, determination", as a characterization for the SF is compatible with Gosselin (2005)'s value of irrevocability, it is less so with the negation of the choice of others, as in Bottineau (2014)'s description (see section 3.2.). Eventually, in line 17, Ryōta's commentary, tends to approach this

dimension, although it is the reverse that would be correct: it is the speaker's unilateral decision that conditions (constrains) the present.

The dyad continues reading the grammatical description of the SF (Excerpt 5 below):

Excer	nt	5

LXCE.	ւրւյ			
1	R	1'49	de <u>l'action</u>	And "L'action"
2	Н	1'49	l'action future(1)	"L'action future"
3	R	1'50	future est	"future est"
4	Н	1'53	après	"après."
5	R	1'53	après	"après"
6			(2,5s)	
7		1'56	e	<i>Uh</i>
8			((laughter))(2)	
9		1'58	a après te demo	Ah, "après", it says, but
10	Н	1'59	mmh/	Yes?
11	R	2'00	tukiru tte koto wa	The fact that it runs out
12		2'04	are	Uh?
13		2'05	(3)kankaku(4) kankaku ((laughter)	A sensation, a sensation.









This description, "L'action future est après" ("The future action is after"), is correct from a formal point of view, but puzzles the dyad, hence the laughter (l. 8). From Photo 2 to 3, Ryōta wonders about "after", and then he points to the words on the worksheet with a comment whose meaning, unfortunately, escapes us. It is true that the effect of the SF is more abstract than that of the PF, which is anchored in the present experienced by the speaker. However, "the fact that it runs out" (l. 11) and "a sensation" (l. 13) remain vague from the analyst's point of view. The characteristics Ryōta sought to describe cannot be known.

Hiroki cuts short these speculations and concludes the first dialogue:

Excerpt 6

1	Н	2'07	ja kore ga/(1)	Anyway, this one it is.
2	R	2'08	hai	Yes.
3			(4s)	
4		2'12	kore	This one.
5	Н	2'13	sō ne∖	Indeed.
6	R	2'14	ima masa ni ochiru yo tte keikokushiteiru kara	Because I'm warning you, "Hey, it's about to fall, right now"
7	Н	2'19	mmh ue ka\	Well, up.
8	R	2'19	ue da to omou\	Up I think.
9	Н	2,22	tashika ni zenzen kakutei(2)shitenai mon na\	It's certainly not sure at all
10		2'23	tomeyō ga aru\(3)	There's still a way to stop it.
11			(2,3s)	







Slightly replacing the worksheet, Hiroki redirects the discussion to the solution that was chosen, the PF (Photo 1). In line 6, Ryōta reuses the terms he previously used in excerpt 3, "it's about to fall". Similarly, as he points to the column of the SF (Photo 2), Hiroki reuses the metalinguistic term he appropriated: The fall of the suitcase is not confirmed or decided indeed ("kakutei shitenai", 1. 9). The following comment is indicative of a good understanding of the value of the tense: "There's still a way to stop it" corresponds to the modal value of the PF—process envisaged as possible—as described by Gosselin (2005, see section 3.2.).

Taking Excerpt 1 as a point of comparison, the understanding achieved by Hiroki is noteworthy: He now has metalinguistic terms adapted from the material and provided by Ryōta, sufficient—from his point of view—to discriminate between the two tenses. We argue that the dyad is indeed building up "cognitive tools", that is, means to orient the

thinking process involved in L2 use (see Swain, 2000; Swain et al. 2002; Swain and Lapkin, 2013).

Situation 2

(vous fixez un rendez-vous) On se retrouve où ?:

Votre ami(e): On se retrouve où? 待ち合わせはどうする?

Vous : Je vais être au Starbucks.

serai

Votre ami(e): Ok.

(you settle an appointment)
Your friend: Where do we meet?

You: I go-PRS. 1SG be at Starbucks.

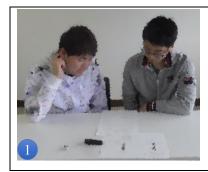
be-FUT.1SG

Your friend: Ok.

Here, the moment of the appointment is in no way related to the situation of uttering: I am already with my friend. Moreover, the irrevocable quality of the future situation comes from the fact that my information limits to one place the possibility for my friend to find me. The SF, "serai", is the most appropriate tense.

1	R	2'53	je serai ka je vais(1) être ka\	"je serai" or "je vais être"
2	Н	2'58	mmh	Mmh.
3			(1,9s)(2)(3)	
4	R	3'02	je	"je"
5	Н	3'04	shita ka na/	Below, I think.
6	R	3'05	sō yo ne sore de nanka will mitai no monyaru nanka kō <u>kekkō</u>	Below indeed, this, somehow it's something like 'will', there is a lot of
7	Н	3'10	<u>ah</u>	Ah ok!
8	R	3'11	kakushin ga aru will mitaina\	There is certainty, like 'will'.
9	Н	3'13	nanka (?) xx kioku ga aru	Somehow (?) xx there is a memory.
10			(1,5s)	
11	R	3'17	XXX	xxx
12	Н	3'17	ha	Well

13	R	3'18	shita no je serai de atteru ne	Below, "je serai" fits well.
14	Н	3'20	mmh	Mmh







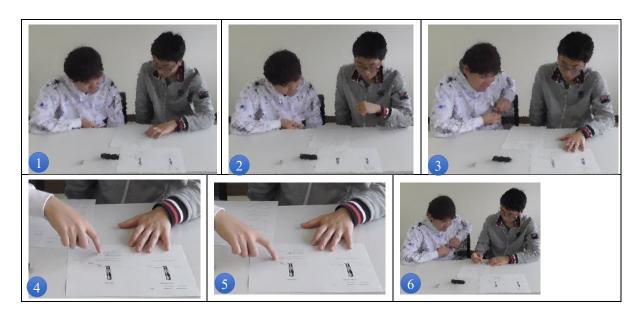
The dyad quickly finds out the solution. The sequence of the three photos shows how Hiroki proceeds after Ryōta poses the alternative between "serai" and "vais être" (Photo 1). Hiroki glances at the column of the SF (Photo 2) and of the PF (Photo3) and then offers the correct answer. As a justification, Ryōta puts forward a comparison with English. This point will be discussed later because comparison with English is not an adequate means. In any case, Ryōta refers to the assumed epistemic value of "will" to choose the SF, using the term "kakushin" ("conviction, certainty") close to "kakutei" (1. 8) The dyad then engages in an exchange which we have not been able to transcribe in full. The comparison with a "memory" (1. 9) can only be understood from Hiroki's point of view. However, there is indeed with the SF a detachment, in the sense of Camussi-Ni (2018), of the future situation from the situation of uttering, as there is in the direction of the past with a memory.

Situation 3

- Demain, on	va être le combien?	on est le combien ?:
	sera	今日は何日?
- Le 15.		
- Tomorrow, one	go-PRS.3SG be what date?	
	be-FUT.3SG	
- The 15.		

When one consults the calendar, it is not its cultural artifactuality which is looked at. The time that is measured seems that of a natural order. Here, the person who asks the question puts himself or herself in a position to be reminded of this order, by definition non-negotiable: the SF, "sera", is the most appropriate choice.

1	R	3'58	demain	"demain"
2			(1s)	
3		3'59	ashita wa nan nichi ni naru	What is the date tomorrow?
4	Н	4'00	kakutei(1) kakuteishiteiru(2) keredomo kyō ga wakaranakereba wakannnai\	It's sure. It's sure, although if you don't know the date of today, you can't say.
5			(5s)	
6	R	4'11	kore wa shita/	This one is below.
7			(1,4s)	
8	Н	4'14	ētto dōnarō na	Well, how is that
9	R	4'16	kore wa shitana ki ga suru\	It looks below-ish to me
10	Н	4'18	shita ka\(3)	Below?
11			(1,3s)	
12	R	4'20	datte(4)	Look
13			(1,3)	
14		4'22	yohō da mon yohō yohō to iu ka	There's this forecast thing, forecast if you can say that.
15			kore(5) kakutei suru shi	And it's sure.
16			(1,6s)	
17	Н	4'28	mmh	Mmh.
18			(1,3s)	
19		4'30	sō ne kae yō ga nai mon da\((writing))(6)	Indeed, something that can't be changed.
20			(1s)	
21		4'33	shita\	Below.
22	R	4'34	furi- figée figée ga dakke	Fro-, "figée", "figée", was it?
23	Н	4'37	mmh	Mmh.



The sequence of Photos 1 to 2 shows what Hiroki accomplishes: In line 4, he first responds with the term he gave himself to characterize the SF, "kakutei", and only then does he look on the worksheet at the column which matches with the tense (Photo 2). This means that the concept, in the Vygotskyan sense, becomes functional. The concept of "kakutei"—idiosyncratic, which raises other questions—is being internalized: Hiroki is making of it a mental tool for choosing the tense.

The dyad continues along the path of the SF. Photo 3 shows Hiroki reorienting the worksheet, readjusting the participation framework by doing so. In Photos 5 and 6, both have a hand on the worksheet of the material, which becomes a shared focus of attention. Ryōta exploits an analogy—which is correct—between the calendar and the example of the weather forecasts on the material, while also showing its limit ("if you can say that", l. 14). In line 15, he uses, "kakutei", the term used by his partner, but that he created (see Excerpt 4). While ticking "sera" (Photo 6), Hiroki adds a comment: "something that can't be changed". In the next dialogue, he will make the distinction of "can / can not be changed" a new cognitive tool. Finally, Ryōta uses the original term for the SF from the worksheet.

Situation 4

(vous marchez vers la gare) rater le train :

Votre ami(e): Il est quelle heure? 電車に乗り遅れる

Vous: 17h15.

Votre ami(e): On va rater notre train!

ratera

(you are walking to the station) Your friend: What time is it?

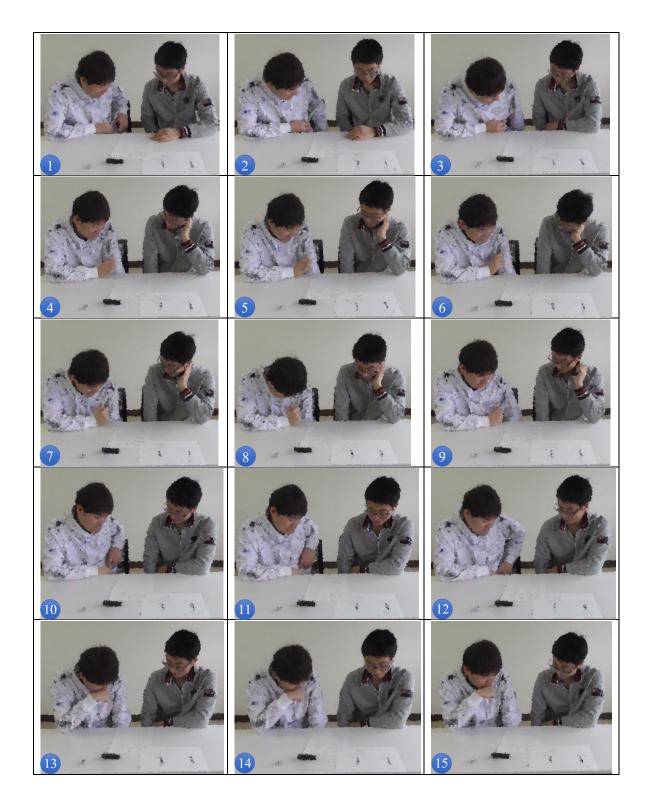
You: 17h15.

Your friend: One go-PRS.3SG miss our train!

miss-FUT.3SG

Contrary to the relentless order of the days on a calendar, the future presence of the two persons on the train depends on their present behaviour. Since missing the train is only a possibility, only the PF is suitable here: "on va rater".

1	Н	4'39	il est quelle heure\	"Il est quelle heure?"
2	R	4'42	il est quelle heure\	"Il est quelle heure?"
3	Н	4'44	17 heures\	17h
4			(4s)	
5		4'48	<u>15</u>	15
6	R	4'48	nan ji	What time
7			(5s)	
8		4'53	yabē densha ni noriokureru yo nan ji ni kite go ji jugo fun to iwarete/	'Hey, we'll miss the train,' it says, 'what time does the train arrive'
9	Н	4'57	mmh	Mmh.
10	R	4'58	yabē densha ni okureru	'Hey, we'll miss the train'
11	Н	5'00	kō(1) uena ki(2) ga suru(3)	This <u>looks like up to me</u> .
12	R	5'00	kore o e	This, I, uh
13	Н	5'03	on va rater/ notre train\	"On va rater notre train!"
14	R	5'07	kore ore shita shitana ki(4) ga suru	For this one, below, I'd go below.
15	Н	5'09	maji(5) ka\ ((laughter))(6)	Seriously?
16		5'11	kore ma(7)da(8) ka-(9) amari kakuteishitenai\(10) (11)kakutei\(12) sō\	It's not su-, not really sure yet, like a decision
17	R	5'15	mmh	Mmh.
18	Н	5'17	kaeyō to omoeba kaereru	If you think you will change it, it can be changed.
19		5'20	hashireba maau to iu imi da(13)kara\	Because if you run, you can make it.
20	R	5'22	mmh(14)	Mmh.
21	Н	5'22	ue ka na to omou\	So, that's up, I think.
22	R	5'24	on va(15) rater notre train	"We'll miss our train!"



The dyad reads the dialogue by translating it (l. 1 to 10). Here, a mistake is made: 17:15 is understood as the time of arrival of the train. This does not change the stakes: The two persons must hurry to be on time.

Hiroki immediately proposes the correct solution, but Ryōta opts for the SF. The whole sequence shows a series of five almost identical visual interactions during which

Hiroki is turned towards the worksheet of the material (Photos 2 to 3, 5 to 6, 8 to 9, 11 to 12 and 14 to 15), whilst arguing for the PF. If it is not easy to determine which part of the material he is looking at, the sequence is nonetheless evidence that Hiroki relies on the material to produce his speech. Galperin (1989) writes about the advantage of using "orienting schemas" (or just "cards" in the following quote) to lessen the burden of prior memorization: "The cumbersome content of the cards is learned unexpectedly easily in action in the process problem-solving. The capacity of involuntary memory is much greater than the capacity of voluntary memory [...]. Furthermore, [...] this involuntary memory can be guided quite reliably and even accelerated considerably" (p. 70). We argue that this is what we are witnessing here, at least in the case of Hiroki. The worksheet of the material becomes a landmark for regulating his thinking process and speech (for instance 1. 16) and functions, we argue, as an external memory, drawing on Galperin's (1967, 1989, 1992) own accounts of his procedure, but also as a "cognitive extension" (Clark & Chalmer, 1998: 12). Indeed, the ambition of developing material in Concept-Based Instruction is, in our view, that the design is based on an assumed continuity of cognition within the environment, as argued by the proponents of the extended mind thesis.⁸

Finally, Hiroki concretely illustrates the modal value of possibility of the PF with a further comment in the form of an if-clause, "if you run, you can make it" (l. 19).

A fundamental point is the absence of a pointing gesture—but not of interactions. We interpret it as a tendency to "the abbreviation of action" in the sense of Galperin (1967, 1989, 1989). Hiroki is, it seems, able to recognize in the different configurations (settling an appointment, checking the date, deciding to hurry...) attributes pertaining to the relation with the present particular to the PF or the SF.⁹

Situation 5

(à une petite fille)

Vous : Quand tu vas être grande, qu'est-ce que tu veux être ?

seras

L'enfant : Je veux être actrice!

(to a little girl)

You: When you go-PRS.2SG be grown up, what do you want to be?

be-FUT.2SG

The child: I want to be an actress!

The notion of a situation of uttering detached from the present captures well the stakes of the choice here. The little girl and I both know that, for a child, growing is an implacable destiny: "seras" should be preferably used.

1	R	6'55	grande / ōkiku nattara nani ga su- shitai gatteiutekina koto ka	" grande", when you grow up, what do-, what would you like to do, kind of thing.
2	Н	7'00	mmh	Mmh
3		7'01	deshitara	And if so
4	R	7'02	kore wa shita ka	This is below, no?
5	Н	7'03	haiyū haiyū ka kore	Actress, actress this
6			(1,6)	
7	R	7'06	je veux être actrice joyū	"Je veux être actrice!", actress
8	Н	7'10	mmh	Mmh
9			(1,5s) (1)	
10		7'13	e(2) a(3)	Well, uh
11		7'14	ōkiku nattara(4)	When you grow up
12	R	7'15	haiyū/	an actress.
13			(2s)(5)(3s)(6)	
14	Н	7'20	ōkiku naru no wa kaku(7)tei yō na(8) s-seras kara na	Talking about being grown up, there is like certainty, because "seras"
15	R	7'25	kore wa seras no ki ga suru vas être to sera quand tu seras grand	This one is a "seras" to me, "vas être" and "quand tu seras grand
16	Н	7'35	qu'est-ce que tu veux être	" qu'est-ce que tu veux être?"
17			(4s)	(4s)
18	R	7'40	mmh	Mmh.
19	Н	7'42	ja iikka shita de	Well, ok then, below.
20	R	7'43	quand tu seras\ mmh	"Quand tu seras", mmh.



As in the previous excerpt, the dyad no longer points to the material and just checks the analogy with the situation by looking at the worksheet. First, translation leads Ryōta and Hiroki towards the right solution, the SF (l. 4). The first visual interaction with the worksheet occurs a few seconds later (Photos 2 (Hiroki) and 3 (Ryōta)). In line 9, Ryōta takes a look at the material (Photo 5) and then returns to the dialogue (Photo 6). At this moment, Hiroki also turns to the material and verbalizes the link between the content of the dialogue and the value of the tense by resorting to his metalinguistic tool, "kakutei" (l. 14), which allows the dyad to conclude (Photo 8).

Discussion

Ryōta and Hiroki found the 5 answers. For situations 1 and 4, the anchoring in the present of the future event—the imminent fall of the suitcase, and the departure of the train—was associated with the PF. An intrinsic sense of limitation in situations 2, 3 and 5, where reference is made to an appointment, the calendar, and the child's age, oriented the dyad towards the SF. It should be noted that here the PF can also possibly be used¹⁰ even if the SF is preferred. However, the positive outcome of the whole task is obviously limited in its generalizability, since it is valid only for these dialogues and under the conditions of this experience. For instance, the use of the SF for attenuated order was not tested. Above all, learners with another L1 and in regions of the world where the culture of grammatical instruction is different would have carried out the same task in a completely different way.

Also important, perhaps more so, is the answer to our second question: How was the material used? Two answers emerge. First, the analysis shows that Ryōta and Hiroki developed their own resources in interacting with the material, stimulated by the goal of completing the task. Ryōta, in "languaging" (Swain, 2010), uses "kakutei" while paraphrasing the explanation of the SF from the material (Excerpt 4). Hiroki takes up the word as a "cognitive tool". This does not contradict the claim that L1 happens to mediate the learning of the L2 (see Swain & Lapkin, 2013), quite the contrary. However, to promote real multilingualism right from the beginner level, displaying the target forms in a way that they remain irreducible to translation should be emphasized.

The second point is that, with hindsight, a movement of internalization becomes visible through the task, in accordance with the design of Galperin's procedure. Clear evidence is the regularly decreasing volume of gesture: from Ryōta's impersonation in the first

dialogue and the many pointing gestures on the material to the simple glances to it for the last two dialogues. Further studies would be useful to report on subsequent states of internalization.

The use of the material, however, has not always been smooth. The main problem is the limited understanding of the value of the SF as described by Bottineau (2014), while this description is the most stimulating in the context of a Communicative Approach. The solution would be to represent, by a means that suits the teacher, the inclusion of the other participants in the choice of the perspective on the event with the PF, and their exclusion in the case of the SF. The choice of tense could also be addressed in a situation where the speakers' communicative goals are opposed in relation to the same event. For example:

Votre ami(e): On va rater notre train! Your friend: We'll miss our train!

Vous : Eh bien, on le ratera! You: Fine, we'll miss it!¹¹

Another problematic point was the implicit use of the contrast between "be going to" and "will" in Excerpt 7. For learners, the temptation of the analogy is great as both English and French have a Go-Future. As a result, the SF is considered close to "will". The fact is, without going into details, that the PF is mostly translated as "will" (Celle, 1997), as in the example above. Mika and Kyaw, in the other dyad, wasted considerable time due to this erroneous analogy with English.

Regarding our theoretical and methodological options, it seems to us that a holistic perspective for the analysis is fully justified to integrate discourse and interactions with the material, unlike a sole focus on gestures (as in McCafferty & Stam (2008)) which would not have been compatible with our goal to account for the use of our material. An example that illustrates this point is the case study reported on in Lantolf (2010), based on McNeill's "growth point" model. An English L1 student is interviewed by the investigator on her choice of tenses in a narration task in French L2. The author assumes that the student's gesture is a depiction of the schema provided in class four months earlier (Galperin's procedure was followed). This intuition is not without interest, but it seems necessary to us to document how such schemas are used in the first place, as we tried to do. The analysis of gestures in the SCT for L2 adopts McNeill's "growth point" model. However, accounting for the interaction with objects goes beyond the relationship between speech and gesture. Manipulations of objects further change the conditions in which subsequent gestures occur by modifying the affordances in the environment (Nevil et al., 2014). About McNeill (1992)'s work, Goodwin wrote: "However, in that its analytic point of departure is processed inside the mind of the individual speaker/gesturer, this approach does not provide the resources necessary for investigating how phenomena outside the speaker, for example, a consequential physical environment, contribute to the organization of gesture" (2003: 23). This observation is still relevant in our opinion and justifies documenting the learning process in Galperin's procedure in a holistic theoretical framework given the importance of the material in this procedure. For this reason, the methodology of Atkinson and colleagues in their sociocognitive approach was used as a model in this study.

Beyond the inherent variety of levels, domains and designs, our study also converges with others on the fact that Concept-Based Instruction can contribute to a better understanding of L2 concepts and promote their conscious use in context (Gánem-

Gutiérrez & Harun, 2011; Kim, 2013; Lee, 2016; Negueruela and Lantolf, 2006; van Compernolle, 2011). The present study, however, addressed the use of the material in real time, and the data obtained distinguishes it from these. A manifestation of the internalization process could then directly be inferred from the observation of a reduction in the volume of gesture and manual interactions with the material.

Another level of comparison is the theoretical perspective chosen to describe the target concepts. For example, Negueruela and Lantolf (2006), Gánem-Gutiérrez & Harun (2011) and Lee (2016) rely on internal representations of the event from the speaker's point of view regardless of the situation of uttering, much in the spirit of Cognitive Linguistics—an option suggested by Lantolf (2006, 2011). In our study, however, and with the reservations expressed above, it is from the angle of its pragmatic effect that we tried to approach the contrast between the PF and the SF, a choice in this respect similar to Kim (2013) and van Compernolle (2011).

Conclusion

The initial idea of the present study was to reconcile grammatical instruction and language use in French at initial levels of university in Japan. Galperin's procedure seems to us to be well suited to this challenge in this specific context. According to his inventor, this procedure has, as mentioned, the advantage of avoiding the trial-and-error phase. Even if imperfect— there is not enough room here to imagine all the possible improvements—the material tested helped learners, even beginners, to take, at least to imagine, the perspectives on the situation that are specific to the two Future tenses in French. Grammatical instruction should be carried out, obviously, in parallel with sessions focused on oral communication, where for fluidity dialogues are written and role-played. We also believe in the virtue of collaborative dialogue that promotes autonomy.

Moreover, Galperin's procedure also seems to us to be suitable for the testing of material, and the work, perhaps still not well known, of this continuator of Vygotsky can give rise to an important reflection on teaching materials. Indeed, it is rare to see learners perform a learning task without consulting resources. On the contrary, in the course of a task, simple or complex, learners will use all means available to achieve their goal—completing the task, sometimes misusing these resources. It is the role of the teacher to provide resources that help learners to complete the task. From a Vygotskyan perspective, however, it is the internalization of the resources that is, for the teacher, the real goal.

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Notes

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¹ This is in fact not always the case. The aspect is a oristic except if, with an atelic process, a punctual reference interval is more salient than the process interval. For example: "À huit heures, il dormira." (Gosselin, 2005: 148–149) ("At 8, he will be sleeping.")

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² The situation of uttering can be that of locution, the actual place and moment of speaking, or embed the situation of locution and then become an abstract reference system (as in reading). For this reason, in Camussi-Ni's paper, the situation of uttering is said to be internal to the utterance.

³ " une situation potentielle (partir) est mise en relation avec une situation coïncidente avec la situation d'énonciation (ils vont), elle-même construite par le locuteur."

⁴ The rationale of using the PF does not lie in the "closeness" of the action as much as in the stance the speaker shows to be taking, as argued by Bottineau (2014; see section 2.3. above). As for "tanjun miraikei", "tanjun" indeed means "simple," but it is a mere translation of the metalinguistic term taken from French first-language grammar. "Simple," as opposed to "compound," is not self-explanatory in Japanese, in which there is no past participle. Our choice to use these terms nonetheless is a compromise.

⁵ Reading: "furīzusareta, katamaraseta".

⁶ In the hours of study, there are variations below and beyond 90 hours, a number which corresponds only to a standard curriculum at the end of first year.

⁷ We purposefully gave only one worksheet of the material and one of the dialogues, so as the interaction with the pedagogical material converge.

⁸ Let us not forget that Hiroki has, in a sense, contributed to the material with the inscription he previously made on it, "hobo kakutei shita mono" (see Excerpt 4).

⁹ Galperin (1992: 62) explains how the abbreviation phase occurs: "In the orienting part, inasmuch as it is applied to a variety of materials, the key attributes are differentiated from attendant attributes, and the essential attributes are united into a stable system, into a visual image or a concept. Thereafter, the object is readily recognized on the basis of a characteristic combination of attributes; for this reason, the orienting activity is sharply abridged, to the point of immediate recognition." See also Arievitch and Haenen (2005) and Haenen (2001).

¹⁰ This was indicated to us by an anonymous reviewer, whom we thank. Indeed, as Abouda and Skrovec (2015) point out, the SF is losing ground to the PF. This, however, does not call into question their contrastive use.

¹¹ Suggested by Didier Bottineau (p. c.)

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