# A TOOL TO EVALUATE GRAMMATICAL SPELLING SKILLS OF NATIVE FRENCH ADULTS: A TYPOLOGY BASED ON THE CAUSES OF ERRORS FRENCH GRAMMATICAL SPELLING 

Ngoc Trang Luong

## To cite this version:

Ngoc Trang Luong. A TOOL TO EVALUATE GRAMMATICAL SPELLING SKILLS OF NATIVE FRENCH ADULTS: A TYPOLOGY BASED ON THE CAUSES OF ERRORS FRENCH GRAMMATICAL SPELLING. Languages, Literature and Literacies, Jun 2015, Odense, Denmark. halshs01168695

HAL Id: halshs-01168695
https://shs.hal.science/halshs-01168695
Submitted on 26 Jun 2015

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire HAL, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



## A TOOL TO EVALUATE GRAMMATICAL SPELLING SKILLS OF NATIVE FRENCH ADULTS: a TYPOLOGY BASED ON THE CAUSES OF ERRORS

## French grammatical spelling

French language has a variety of derivational and inflexional morphemes that makes its morphology (Catach, 1986). French morphology is not written as it is pronounced (Jaffre, Fayol, 2014 Adding up to that difficulty for its scriptors, most of the inflexional morphology in particula
(Dubois, 1965). (Dx. the ADJECTIVE «bare»: nu (masculin) - nue (feminin) : both pronounced [ny] mis written French (Fay

Among the variety of forms that French inflexional morphology can display, our study case focuses on particular linguistic skill that is how one transfers plural and gender traits from the word that trigger spelling skills (Gauvin, 2011).
The NOUN «marée", gives singular and feminin traits to the ADJECTIVE «haute» and the PAST PARTICIP «montée» and the 3rd person singular trait to the AUXIIIARY «est

## WHY WOULD ONE MAKE AN AGREEMENT ERROR

Various causes, sometimes several at the same time, may lead to a mistake in the transfer of agreement traits. Some of them are covered by our evaluation tool:

## declarative knowledge (Anderson, 1983) is deficient: metalanguage is not properly learnt and/or grammatical analysis is not precise enough to understand the rule nor trigger its

 application.declarative knowledge is acquired but revision skills are not thorough enough, leading one to leave a mistake while one knows the rule and how to apply it (Largy, 2001; Dédéyan cognitive re Gogntive ressources management lead to a mista
Got, 1991; Fayol, Largy 1992; Fayol, Pacton, 2005)

## HYPOTHESES

.A. It is possible for a student to be able to make correct agreements without knowing the agreement rule (Gaux, Gombert, 1999): procedural > declarative knowledge B. The opposite is possible as well: a student may know the rule, but still make mistakes when he or she writes (ibid.): declarative < procedural knowledge 2. A typology based on the causes of errors might reveal a scale of expertise more obviously than a typology based on grammatical categories.

## COMPOSITION OF THE EVALUATION

6 agreement receivers are tested: NOUN, ADJECTIVE, VERB, PAST PARTICIPLE - ADVERB and INFINITIVE VERB (inhibited agreement).

Each in various configurations:

- distance between the word that giverious configurations: inversion of the typical order (the receiver is placed before the word that triggers the agreement), - existence of an homophonic word of a different grammatical category - presence of a candidate to trigger the agreement in the proximity zone.

Leading to 43 linguistic configurations $=43$ sentences

The evaluation tool is built on 5 exercices:
Sentence writing task (Largy, Fayol, Lemaire, 1996) = translating right after the planification process (Flower, Hayes, 1981) 4. miargy ( Fayol, Lemaire,
3. Revision task
4. Mistake reproduction task (Gaux, Gombert, 1999) : if one can replicate a mistake, one understands the rule 5. Grammatical analysis and use of metalanguage
The instructions of each exercice are here described:

## 1. SENTENCE WRITING TASK

The student has to recall an entire sentence dictated once. The aim claims to assess their memory, not their spelling skills.
ses fréquentations sont bizarres
is parents think some of his friends are weird.
2.SECONDARY TASK PARADIGM
The subjet has to recall a sentence + a list of 3 phonologi-
cally confusable monosyllabic words.
Ex.
Ces marchands ne me semblent pas dignes de confiance.
[NOUN - plural] - perara]
Those sellers don't seem trustworthy to me.
BULLE - MULE - PULL
byl/ - /myl/ - /pyl/

## 4. MISTAKE REPRODUCTION TASK

 3. REVISION TASK Reading the same sentences he had to Readite in prior tasks, the student has towrite
detect an agreement detect an agreement mistake. The insre was a mistake or not in the presented sentence nor how many there could be. Ex.
student reads two different senten-
In the first one lays an agreent senten. In the first one lays an agreement mista- de confiance.

GRAMMATICAL ANALYSIS
This exercice is divided into two parts. In the first one the student is asked to draw a line to connect a speci fic word with the one that triggers its agreement. In the
second part, the metalinguistic knowledge is tested as second part, the metalinguistic knowledge is tested as
the subject has to write the name of given labels such as the subject has to write the name of given labets such as
«noun», «verb», «direct object» etc... under the corres ponding words in a list of sentences. The labels are tho
se that appear when they learn French agreement rules se that appear when they learn French agreement rules. Ex. ADJECTIVE - NOUN

## COMBINATION OF RESULTS $=$ DIAGNOSIS

e add up the results to each sentence of each task for each student. The combinaison of the results leads to a broad diagnostic as follows:

## No error in both production tasks

Agreement is correct in the production task, but an error occurred in one of the other exercices Error in the production task Error in the production task
Error in the production task revision task
The error is not detected in the revision task
Declarative koowedge OK
Error in the production task
The error is not detected in the revision task
Deficicency in the declaratite knowledge
Working memory overload

## STUDY CASE

Population:
Population:
2 classes of 20 students each, all of them were picked out by their teacher because of their various difficulties in French spelling and writing in general.
GROUP 2: 1st year of Bachelor degree in Agronomic Engineering ( $20-22$ year old). Students' background $=2$ years in Preparatory Class (in Chemistry, Biology or Mathematics)


RESULTS AND DISCUSSION
In each little square, the letter refers to a code that specifies the cause of the error, based on the combination of the results of all 5 exercices. Vertically, the table is sorted according to a linguistic typology (i.e. according to the grammatical category of the agreement receiver: NOUN, ADJECTIVE, VERB, PAST PARTICIPLE, ADVERB AND INFINTV VERB).
feel towards any class, as all classes are generally very heterogeneous, even among the same curriculum.
In dark green squares, the letters $\mathrm{a}, \mathrm{b}$ and c correspond to correct agreements in both production tasks for a specific linguistic structure associated with incorrect declarative knowledge. In other words, the student knows how to make the agreement pro perly but is not able to explain the rule nor make a correct grammatical analysis using the proper metalanguage.

| a $\mathrm{c} \mathrm{b}=$ production OK but doesn't <br> know or understand the rule | GROUP 1 (number of occurence) | GROUP 2 (number of occurence) |
| :--- | :---: | :---: |
| $\mathrm{c}=$ production OK but grammatical <br> analysis is incorrect | 154 | 189 |

Hypothesis 1.A. «tt is possible for a student to be able to make correct agreements without knowing the agreement rule (Gaux, Gombert, 1999)" is validated. In y
ly.

| $\mathrm{k} \mathbb{I} \mathrm{l}=$ production is incorrect but de-- | GROUP 1 (number of occurence) | GROUP 2 (number of occurence) |
| :--- | :--- | :--- | $\mathrm{k} \& \mathrm{l}=$ production is incorrect

clarative knowledge is learnt

Hypothesis 1.B. «The opposite is posside as well: a student may know how to explain the rule, but still make mistakes when he or she writes (ibid.)" is validated


TABLE 2 - Students' evaluations according to the type of errors
 RESULTS AND DISCUSSION

In each little square, the number representents a specific structure of agreement so that the student and the teacher can spot specifically the linguistic context where the error occured. Vertically, this table is sorted according to the cause of errors that

Scale of expertise
In terms of remediation, if we consider that teaching declarative knowledge needs more ressources than enhancing revision skills for example, a scale of expertise may be established according to the «depth» of defficiencies. That scale is very visible
with TABLE 2. with TABLE 2 .
If we compare TABLE 1 on the left with TABLE 2 above, it appears that it is easier to assess the skills of a class if we use a typ
. logy based on the causes of the errors rather than the grammatical categories. We might then want to reconsider how sequen
ces are built in remediation; it probably has to differ from how the same skills are aquire at school, one rule after another.

Hypothesis 2 «A typology based on the causes of errors might reveal a scale of expertise more obviously than a typology based on grammatical categories» is validated but still needs to be discussed as it requires class interventions using a typology based on the causes of errors to assess the efficiency of such a scale of expertise.

##  <br>  








