

separate-syntax vs. shared-syntax accounts

De Bot, 1992 – bilingual blueprint of the speaker

- conceptualiser construction of a preverbal message
- language-specific formulators grammatical and phonological encoding
- articulator pronunciation

Ullman, 2001 – declarative/procedural model

- lexicon declarative memory system
- L1 grammar procedural memory system
- L2 grammar (not fully automatic) both declarative and procedural memory systems

Hartsuiker et al., 2004 – bilingual lexicalist model

- conceptual level (conceptual information)
- lemma level (combinatorial, category, featural information)
- word-form level

present perfect vs. passé composé

Do French-English bilinguals have a single, languageindependent representation of *present perfect* and *passé composé*, or two separate ones?

> auxiliary verb + past participle Mary has written a book. Marie a **écrit** un livre.

Usage differences

present perfect

- recent past
- results of past events

past simple

- distant past
- no link to the present

passé composé

Auxiliary verbs

English

have Mary has written a book. Mary has left.

French

avoir 'have' – unergative verbs Marie a écrit un livre.

être 'be' – unaccusative verbs Marie est sortie.

The organisation of grammatical tenses in the bilingual mind: English present perfect and French passé composé

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cross-linguistic syntactic priming

cross-linguistic syntactic priming – more frequent production of a sentence with a given syntactic construction in one language (e.g., The book has been read) following the exposure to the equivalent version of the construction in a different language (e.g., La lettre a été écrite)

Stimuli

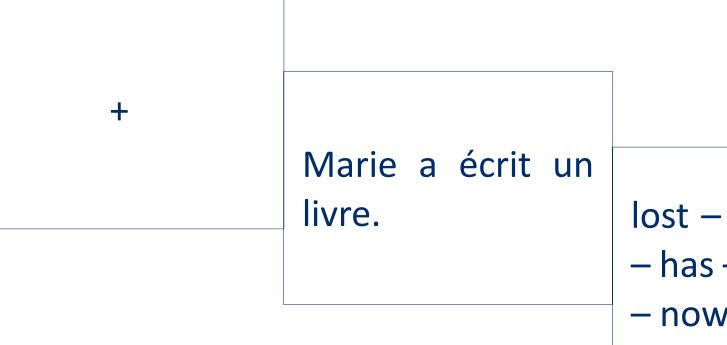
1. experimental condition

- prime sentence in French in *passé composé* Marie a écrit un livre
- target words enabling for the formation of a sentence in English in both *present perfect* and *past simple* John – has – lost – his – keys + additional words not fitting the sentence

2. baseline condition

- prime noun phrase in French *le livre de Marie* 'Mary's book'
- target formed on the same principle as in the experimental condition

Procedure



Hypothesis

more *present perfect* sentences in the experimental condition (after a *passé composé* prime) as compared to the baseline condition (after a noun phrase prime)

lost – keys – have – has – his – when – now – John

Stimuli

- mes friends sont arrived 'my friends are arrived'

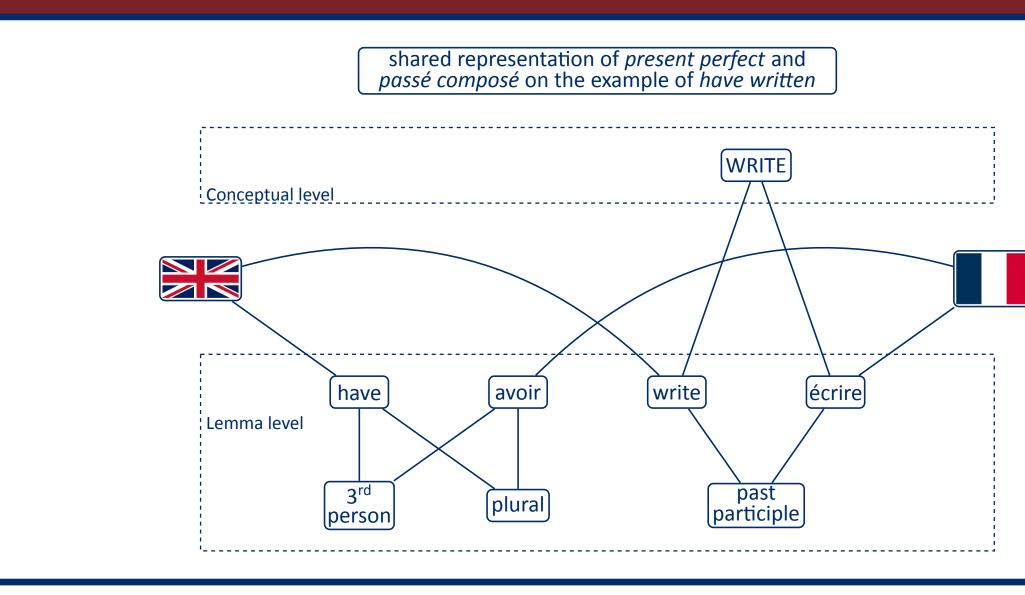
2. baseline condition

- the écrit has livre 'the written has book' divergent
- mes arrived sont friends 'my arrived are friends'

Procedure

Hypothesis bilingual sentence superiority effect greater accuracy of recall for correct-order sequences (experimental condition) as compared to random-order sequences (baseline condition), regardless of auxiliary verb differences

present perfect & passé composé within bil lexicalist model (Hartsuiker et al., 2004



Rapid Parallel Visual Presentation

sentence superiority effect – more successful memorisation of grammatically correct sequences of words as compared to the same words presented in a random order

.. experimental condition

- convergent
- has écrit the livre 'has written the book'
- divergent
- convergent

has écrit the livre

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Stimuli

- 1. convergent condition
- 2. divergent condition

Procedure

Hypotheses





eye-tracking

eye-mind hypothesis – cognitive processes linked to the focus of human eyes (e.g., longer fixations for difficult words, more regressions for ambiguous sentences)

Recently Mary has written a book. (Récemment Marie a écrit un livre.)

*Last year Mary has written a book. (L'année dernière Marie a écrit un livre.)

> **Recently Mary has** written a book.

- 1 2 3 4 5
- 1 unacceptable
- 5 acceptable

1. eye movements – convergent condition

shorter fixations and fewer regressions for French-English bilinguals (facilitation) than for Polish-English bilinguals

2. eye movements – divergent condition

longer fixations and more regressions for French-English bilinguals (interference) than for Polish-English bilinguals

3. acceptability judgements – divergent condition

higher ratings for French-English bilinguals (interference) than for Polish-English bilinguals

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