Superlative "ever": A cross-linguistic lexically anchored structural borrowing

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Introduction

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Introduction

English *ever* is a common borrowing in its use to strengthen/ emphasize a superlative (emphatic superlative *ever*. ES-*ever*)

- (1) a. nl: de beste opmerking *ever* 'the best comment ever' matrix language alternative: **ooit** 'ever'
 - b. de: bestes Bild ever 'best picture ever' matrix language alternative: aller Zeiten 'of all times'
 - c. fr: la meilleure idée ever 'the best idea ever' matrix language alternative: de tous les temps 'of all times'
 - d. es: la mejor foto *ever* 'the best picture ever' matrix language alternative: **de siempre** 'of always'

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Introduction

Main question: How does ES-*ever* integrate into the matrix languages distributionally and in their grammar?

- Dutch, German, French, Spanish corpus data show that the distribution of ES-ever depends on matrix language noun-adjective order
- We will present an HPSG-type analysis that models borrowing of ES-ever as a 3 stage process, from construction borrowing to lexical nativization.

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Overview

- Introduction
- Exploratory quantitative study
- Why borrow ES-ever?
- 4 Formal analysis
- Conclusion

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Exploratory quantitative study

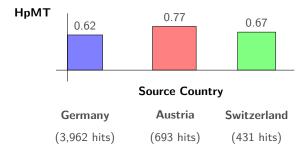
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Method

- Timestamped JSI web corpora 2014–2021 (Kilgarriff et al., 2014)
- Same query for all corpora: ever, excluding for/never/what/who ever: [word!="for|never|than|what|who"] [word="ever"]
- Random sample of 300 hits
- Irrelevant examples (fully English sentences, movie titles, fixed expressions happily ever after, ...)
- Classifying occurrences with emphatic superlative use:
 - Other English material within the ever-noun phrase?
 - For fr/es: relative order of adjective and noun
- Larger corpus:
 - ► Relative position of ES-*ever* within the noun phrase
 - Possible with noun phrases that have no superlative adjective?

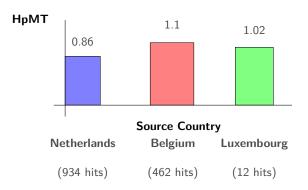
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Basic results: Relative frequency per source country (German corpus) in Hits per Million Tokens (HpMT)



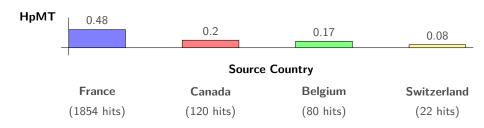
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Basic results: Relative frequency per source country (Dutch corpus) in Hits per Million Tokens (HpMT)



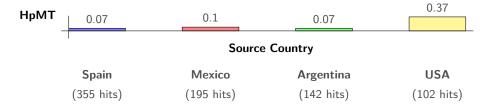
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Basic results: Relative frequency per source country (French corpus) in Hits per Million Tokens (HpMT)



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Basic results: Relative frequency per source country (Spanish corpus) in Hits per Million Tokens (HpMT)



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Basic results: Relative Frequency

- Language family is a good predictor for general ("macro")
 frequency: Germanic languages exhibit greater frequencies than
 Romance languages. Yet no prediction for ("micro") differences within
 one corpus.
- Proficiency in English (According to EPI) seems to be an insufficient predictor:
 - ► Austrians are more proficient (628 | 0.77) than Germans (613|0.62). Austrian ever is more frequent than German ever.
 - ► However, Germans (613|0.62) are more proficient than Swiss (556|0.67), but *Swiss ever* is more frequent.
 - ▶ Belgians (579 | 0.17) are more proficient than French (541 | 0.48), however *French ever* is more frequent.

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Basic results: Relative Frequency

- **Germanic** / **Romance** language contact is also a bad predictor:
 - Swiss (0.08) in the French corpus show lower frequencies than the French do.
 - Belgians (0.17) in the French corpus show lower frequencies than the French do.

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Basic results

	# hits (per mil.words)	# ES-ever
nl	1,532 (0.95)	85 (28% of 300)
de	5,504 (0.65)	159 (53% of 300)
fr	2,550 (0.31)	18 (6% of 300)
es	1,638 (0.09)	35 (12% of 300)

- Big differences in frequencies between the Germanic and the Romance languages in the data.
- nl: highest overall occurrence of *ever*, but many different uses as larger English units.
- de: highest percentage of relevant hits in the samples. ES-ever maybe most prominent in de among the uses of ever.
- Relation between fr and es similar to that between nl and de: More uses of *ever* in fr, but higher percentage of ES-*ever* in es.

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English elements in the noun phrase

	# English noun	# English adjective	# both English
nl	14 (16% of 85))	10 (29%)	7 (8%)
de	4 (3% of 159)	4 (3%)	3 (2%)
fr	2 (11% of 19)	5 (28%)	2 (11%)
es	10 (29% of 35)	10 (29%)	8 (23%)

(2) Examples from es:

- a. no Engl: la mejor risa *ever* 'the best laughter ever'
- b. Engl A: best comentario ever 'best comment ever'
- c. Engl N: los peores remakes ever 'the worst remakes ever'
- d. all Engl: el worst deal ever 'the worst deal ever'

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English elements in the noun phrase

- (2) Examples from es:
 - a. no Engl: la mejor risa *ever* 'the best laughter ever'
 - b. Engl A: best comentario ever 'best comment ever'
 - c. Engl N: los peores remakes ever 'the worst remakes ever'
 - d. all Engl: el worst deal ever 'the worst deal ever'
 - All combinations possible in nl, de, fr, es
 - Engl N: typically a loan word
 - Engl superlative A: only with ES-ever!
 (no plain cutest/coolest/worst N in the corpora!)
 - ES-ever combines with matrix superlatives and enables the use of English superlative forms.

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Form of English adjectives

- fr/es: English loan adjectives occur only with synthetic superlative and in A-N order
- nl/de: analytic superlative also attested:
- (3) de: das wohl most awkward und most random Kompliment ever 'probably the most awkward and most random compliment ever'
 - ullet Stronger restriction on which English adjectives can be licensed in fr/es than in nl/de!

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fr/es: Relative order of A and N

	A-N <i>ever</i>	N-A <i>ever</i>	overall N-A (vs. A-N)
fr	16 (89% of 18)	2 (11% of 18)	67%
es	24 (67% of 35)	11 (31% of 35)	65%

- (4) a. es, A-N: la mejor canción *ever* 'the best song ever'
 - b. es, N-A: las portadas más photoshopeadas *ever* 'the most photoshoped portals ever'
 - fr/es: A-N order less common, but possible (for some adjectives)
 - A-N order with ES-ever more frequent than in fr/es in general
 - Preference for A-N order and restriction on which adjectives can be used pre-nominally could be a language-internal reason for the frequency difference in the Germanic vs. Romance data.

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Position of ever

- Always after the head noun,
- but allowing for other post-head elements in between
- (5) a. nl: Beste <u>einde</u> [van een sinterklaasgedicht] *ever*! 'best end of a Saint Nicholas poem ever'
 - b. nl: Mooiste <u>nieuws</u> ever [in deze coronatijd] 'most beautiful news ever in this corona time'
- (6) a. fr: le plus gros <u>démarrage</u> [de l'histoire des consoles] *ever* 'the biggest boot in console history ever'
 - b. fr: le meilleur <u>couple</u> <u>ever</u> [de la série]
 'the best couple ever of the (tv) series'

Same positional possibilities as for other elements inside a noun phrase in the matrix language.

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Position of ever (cont.)

- Additional position possible in English:
 - (7) en: the biggest ever firework show
- Order "A ever N" not attested in our 300-hits samples
- One example found in the French corpus, ...
- (8) fr: je te présente mon premier (et sûrement le seul ever) I to.you present my first and certainly the only ever tutoriel coiffure! hairstyle tutorial
 - ...maybe *le seul* ever 'the only ever' is a parenthetical full noun phrase here?
 - Prenominal serialization not possible for matrix language competitor.
 ES-ever just uses slots available in the matrix language noun phrase.

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Morpho-syntactic superlative required?

	superlative	other
nl	85 (100% of 85)	0 (0% of 85)
de	159 (100% of 159)	0 (0% of 159)
fr	18 (100% of 18)	0 (0% of 18)
es	33 (94% of 35)	2 (6% of 35)

- Almost all cases in the 300-hits samples with morpho-syntactic superlative
- Other cases exist in English and in the considered matrix languages:
- (9) a. en: my favorite game ever
 - b. en: one of the top recruits ever at Arizona
- (10) a. de: Und den ungeschlagenen Rekord *ever* hält ein Fußball-Profi! 'unbeaten record ever'
 - b. fr: I'un de mes jeux favoris ever 'one of my favorite games ever'

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Morpho-syntactic superlative required?

- Occurrence with top in nl, de, fr (for es in esTenTen18)
- More fine-grained look at de: also with absoluter Tiefpunkt 'absolute low point', Highlight, and Lieblings-N 'favorite N'
- Same flexibility of matrix-language alternatives:
 - (11) a. nl: ...zit Ronaldo nu in de top drie ooit 'R. is now in the top 3 ever'
 - b. de: mein <u>Lieblings-</u>Jazz-Song aller Zeiten 'my favorite Jazz song ever'
 - c. fr: son chanteur <u>favori</u> de tous les temps 'his/her favorite singer of all times'
 - d. es: tus películas <u>favoritas</u> de todos los tiempos 'your favorite movies of all times'

Semantic restriction to unique maximum, not superlative morphology in English and matrix languages.

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Data summary

- ES-ever uses the same structure as the matrix-language alternatives
- ES-ever makes the uses of additional English adjectives possible
- "emphatic superlative markers" in English and in the matrix languages are not restricted to morpho-syntactic superlative

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Why borrow ES-ever?

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Other uses of English ever

- NPI: Nobody has ever ..., Did you ever ...?, If you have ever ...
- Clausal superlative/comparative: a better/ the best N [I have ever ...]
- Non-clausal degree: as good as ever, better than ever
- None of these attested with matrix lexical material in our 300-hits samples!!
- But: occasional occurrence of denn/als ever 'than ever' (de) in the overall corpus
- (12) a. nl (2): ik ben meer ready dan ever 'l am more ready than ever.'b. de (1): schlechter als ever 'worse than ever'

Only ES-*ever* is borrowed productively! (Androutsopoulos 1998, 542 for German)

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Borrowing a word in just one use?

- Only ES-ever is borrowed productively! (Androutsopoulos, 1998, 542)
- Common in borrowing:
 - ▶ chicken (en \mapsto de, Wiese 2021): only as food item
 - (13) de: Chicken im Brot chicken in.the bread 'roll with chicken spread'
 - überhaupt (de → nl, Fisseni 2009): only borrowed as a discourse particle, not as a negation intensifier
 - (14) nl: En wie ben jij ueberhaupt dat je dergelijke
 And who are you überhaupt that you such
 uitlatingen naar iemands hoofd slingert??
 utterances to/at somebody's head throw

'And who are you anyway that you throw such utterances at somebody's head?'

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Why borrow ES-ever?

- No "need": ES-ever seems to be semantically and structurally equivalent to matrix-language alternative
- Bilingualism with Engl. common among users and in the domains (internet, entertainment, ...)
- Matras (2011): "malfunction" (lapses in control over language selection)
- Field (2002), Matras (2011): stressed discourse particles high on borrowability scale
- Competition:
 - Shorter/structurally simpler than matrix language alternative (de,fr,es)
 - Additional meaning? (youth lang., entertainment domain, marker of high degree of excitement?)
- Why only borrow ES-ever?
 - ► ES-*ever* phonologically more salient than all other uses.
 - Stress on other non-clausal degree constructions: expected next extension – confirmed!

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Formal analysis

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Syntactic analysis of (English) ES-ever

- Same syntax as for other NP-internally extraposed degree phrases (van Eynde, 2007; Kay & Sag, 2012)
 - (15) en: [[so willing to help out][that they called early]]
 - Extraposition via EXTRA list
- Element with superlative meaning puts ever on its EXTRA list
 - superlative particle (most),
 - superlative morpheme (-st),
 - suppletive superlative adjective (best),
 - top-degree prefixoid (top-)
 - top-degree noun (highlight)

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English ES-ever

- Modifies some element with a superlative semantics, typically a superlative adjective.
- Must be on the EXTRA list of the element it modifies
- Ignored here:
 - semantics: domain widening
 - pragmatics: high excitement

PHON
$$\langle ever \rangle$$

SYNS I

HEAD MOD CONT nom-obj
RESTR $\{ ..., superlative, ... \}$

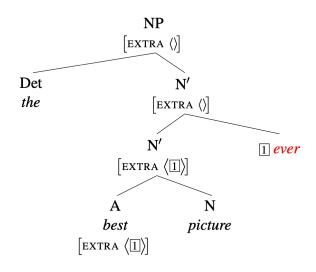
LID ever_en

(from here on: AVMs even more simplified)

(from here on: AVMs even more simplified)

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en: the best picture ever



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Adjective order in HPSG

- English (Sadler & Arnold, 1994):
 - Prenominal adjectives do not allow for post-modifier or complements
 - ► [N⁰: A⁰ N⁰] vs. [N': N' AP]
- French/Spanish (Abeillé & Godard, 2000):
 - Analysis analoguous to Sadler & Arnold (1994)
 - Largely lexical difference between pre- and postnominal adjectives
 - Majority of adjectives: postnominal
- Dutch/German:

All adjectives prenominal, even if phrasal: [N': AP N']

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How does ES-ever integrate into the matrix language?

- Stage 1 (constructional borrowing): A.en N.en ever
 - (16) es: el coolest job ever 'the coolest job ever'
- Stage 2 (construction with just one en-element): A(P) N ever
 - (17) es: la mejor canción ever 'the best song ever'
- Stage 3 (lexical borrowing of ever):
 - integration of ever into the matrix vocabulary (potentially with a marking as a borrowing)
 - French, Spanish: N A ever
 - (18) es: las portadas más photoshopeadas *ever* 'the most photoshoped portals ever'

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Modelling borrowing

- Diasystematic Construction Grammar (Höder, 2012, 2018)
 Communicative Situations (Wiese, 2021)
- Both: multilectal and multilingual language users have a single grammar, whose elements (words, constructions, rules, ...) can be marked as to belonging to different varieties or lects.

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Modelling borrowing

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- Diasystematic CxG:
 - language user has a lexical entry of ever, marked for English (idioconstruction)
 - plus lexical entry marked for both English and the matrix language subgrammar (diaconstruction)

Aspect of ES-*ever* being a borrowing from English is lost in the rather symmetric notion of a diaconstruction.

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Modelling borrowing

- Diasystematic Construction Grammar (Höder, 2012, 2018)
 Communicative Situations (Wiese, 2021)
- Both: multilectal and multilingual language users have a single grammar, whose elements (words, constructions, rules, ...) can be marked as to belonging to different varieties or lects.
- Comm-Sits:
 - Similar case (Wiese, 2021): In German, the (English) word chicken is used for chicken meat in diner contexts.
 - Analysis: lexical entry for the borrowed form that has this restricted semantics (and an adjusted phonology),
 - but marked as being associated with the English word *chicken*.

Not fully clear: How to integrate this link between the matrix language lexical entry and the English into the grammar?

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Formalization in Head-Driven Phrase Structure Grammar (HPSG)

- No previous HPSG work on borrowing
- but integrating social meaning/register:
- Wilcock (1999); Bender (2005); Machicao y Priemer et al. (2022): Register value per utterance, no explicit marking of individual elements as borrowing, but possibly modelling of overall effect.
- Paolillo (2000); Asadpour et al. (2022): social meaning/ adequacy for particular situation types considered as projective meaning (conventionalized side messages) to be encoded as part of the CONTEXT feature (Green, 1994)

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Asadpour et al. (2022): baba 'bottle' – child directed speech

```
PHON 1 (baba)
    C-INDS SPEAKER 2 ADDRESSEE 3
```

By using the word *baba* in the meaning of 'bottle', speaker and addressee mutually believe that the English speech community normally believes that the word is used while talking to a child.

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Grammars relativized to communicative situations

- Adaptation of Wiese (2021): COMM-SIT address-child
- Any part of an utterance can be marked for its conventionally-associated communicative situation(s)
- "Named languages" are valid values for communicative situations:
 - ► English-language element within a matrix language utterance:

 [COMM-SIT en]
 - ► Matrix-language element within a matrix language utterance:

 [COMM-SIT fr], ...(here: [COMM-SIT matrix_lang])

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Including borrowing

- Listeme marking: LID (à la LISTEME in Richter & Sailer 2009)
- English ever: LID ever_en
- Loan-ever : LID ever_matrix-lang
- Loan-*ever* construction: LID *A-N-ever-cx*
- Borrowing inference: (X believes that) X and Y mutually believe that the target expression is a borrowing of the source expression.

```
    lex-borrowing
    cx-borrowing

    SOURCE ever_en
    SOURCE list(signs)

    TARGET ever_matrix-lang
    TARGET A-N-ever-cx
```

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Stage 1: Constructional borrowing

- English adjective noun + ever
 - (19) es: Nuevamente se posiciona como el coolest job ever recently the positions as the coolest job ever 'Recently, it positions itself as the coolest job ever.'
- Given the overall English proficiency of B2/C1, syntactic analyzability can be assumed
- Borrowing of an English, prenominal adjective that modifies an English noun and requires an extraposed ES-ever.

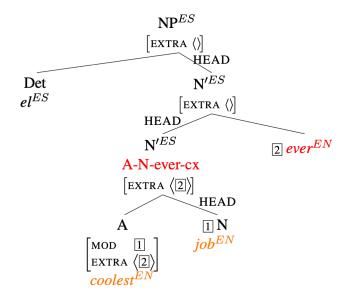
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Constructional borrowing

```
HFAD
            noun
LID 4 A-N-ever-cx
EXTRA (2)
 \begin{array}{c|c} \mathsf{CTXT} & \mathsf{CI} & \left\{ \text{ ..., } \left[ \text{ COMM-SIT } \textit{matrix\_lang} \right], & \left[ \begin{array}{c} \textit{cx-borrowing} \\ \textit{SOURCE} \ \boxed{5} \\ \textit{TARGET} \ \boxed{4} \end{array} \right], \ ... \end{array} \right\} \ \bigg| \ \bigg| 
                   | HEAD | AFORM superlative | MOD | I | | EXTRA | [2] [ LID ever_en ] |
HEAD noun
```

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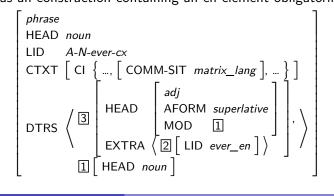
Stage 1: es: el coolest job ever 'the coolest job ever'



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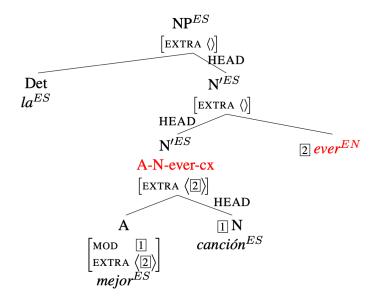
Stage 2: es: la mejor canción ever 'the best song ever'

- The A-N-ever-cx is structurally parallel to matrix language A-N combinations
- It can be bleached with the only constuctional element remaining being ever
- The construction is no longer marked as a constructional borrowing, but as an construction containing an en-element obligatorilly.



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Stage 2: es: la mejor canción ever 'the best song ever'



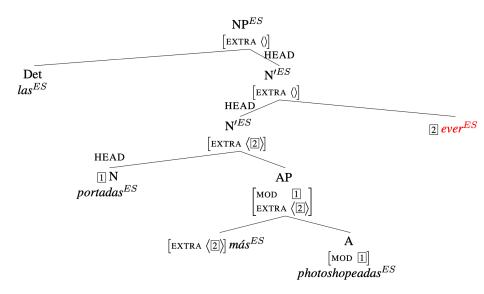
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Stage 3: es: *las portadas más photoshopeadas* ever 'the most photoshoped portals ever'

- ever is nativized and behaves like an ordinary superlative intensifier of the matrix language
- The is element can occur in other adjective-noun combinations, i.e., including both A-N and N-AP combinations

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Stage 3: es: las portadas más photoshopeadas ever



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Sketch of the lexical entry of borrowed ES-ever

```
HEAD MOD CONT nom-obj
RESTR { ..., superlative, ... }

LID 2 ever_matrix-lang

SPKR 4

CTXT

CI { [ comm-sit matrix-lang ], [ excitement EXP 4], ... }

[ lex-borrowing SOURCE ever_en TARGET 2], ...
```

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Differences between de/nl and es/fr

- Stage 1: same in all four languages
- Stage 2:
 - de/nl: possible with all adjectives
 - es/fr: only possible with prenominal adjectives
- Stage 3:
 - de/nl: no difference in the data to stage 2, but maybe in productivity
 - es/fr: also possible with postnominal adjectives
- \Rightarrow More versatility in the use of ES-*ever* in Dutch and German than in French and Spanish in Stage 2 already!

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Conclusion

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Conclusion

- Constructional borrowing:
 - English ever is borrowed in one use, as ES-ever,
 - ► ES-*ever* enables the use of English adjectives that otherwise don't occur in the matrix language.
- Lexical borrowing:
 ever is integrated into the standard matrix-language degree phrase
 constructions.
- Expected next step: use in other non-clausal degree constructions
- Difference between languages?
 - Language family as factor? (Romance vs. Germanic)
 - Adjective-noun order (language internal) (for ex. Croatian [A-N], Welsh [N-A])
 - Level of English proficiency (language external)? Not identifiable as factor in our data
- Why is ES-ever borrowed into so many languages?

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Thank you!

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