

P17-0716:1

Swedish Grammar Profile

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Based on work done with: Elena Volodina¹, Yousuf Ali Mohammed*¹, Anders Agebjörn¹, Maisa Lauriala*

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https://spraakbanken.gu.se/larkalabb/svlp (username: demo)





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https://rj.se/anslag/2017/development-of-lexical-and-grammatical-competences-in-immigrant-swedish/ (incl. brief report)

Collaboration:

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Homepage:

https://spraakbanken.gu.se/en/projects/l2profiles

"L2profiles"

Development of Lexical and Grammatical Competences in Immigrant Swedish







Today

- Aims
- Methods
- Examples / demo
- Throughout: future work & lessons learnt
- Summary

Our wishlist for grammar profiling...

- Inflections, parts of speech...
- Word order development, e.g.
 - What occurs in the first position (Sw. fundamentet)?
 - o Is the finite verb always in the second position?
 - Is the clause adverbial in the correct position (depends on the type of clause)?
- Noun phrases
 - Simple: only the head noun or a pronoun? OR
 - Extended: if so with which type of modifiers?
 - Definite or indefinite? Normlike usage?
- Verb phrases
 - O Which tenses?
 - Which type of passive?
 - Are simple or periphrastic forms learnt first and which is more challenging?
 - When do learners understand which past tense / passive to use?

Our wishlist

- Which can we tackle best through the annotation?
- → how well does the automatic annotation work?

- Inflections, parts of speech...
- Word order development, e.g.
 - What occurs in the first position (Sw. fundamentet)?
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 - Simple: only the head noun or a pronoun? OR
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 - Are simple or periphrastic forms learnt first and which is more challenging?
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How reliable is the automatic linguistic annotation?

- POS & lemmatisation (incl. POS, lemgram) work quite well on course books, learner essays and normalised learner essays.
- Dependency analysis not very good.
- → We cannot rely on the dependency analysis
- → Queries must primarily use: POS; MSD; lemgrams.

Volodina, E., Alfter, D., Lindström Tiedemann, T., Lauriala, M. S., & Piipponen, D. H. (2022). Reliability of automatic linguistic annotation: native vs non-native texts. In *Selected papers from the CLARINAnnual Conference 2021*. Linköping University Electronic Press (LiU E-Press).

Receptive and productive

- Learning a language
 - learning to understand (RECEPTIVE SKILLS)
 - learning to produce (PRODUCTIVE SKILLS)

Receptive and productive

- Learning a language
 - learning to understand (RECEPTIVE SKILLS)
 - learning to produce (PRODUCTIVE SKILLS)
 - → Two corpora:
- L2 Course book corpus (Coctaill, Volodina et al 2014) RECEPTIVE
- L2 learner corpus (SweLL-pilot, Volodina et al 2016) PRODUCTIVE
- Both linked to CEFR (COE, 2001)
 - → Compare the development in receptive and productive proficiency.

Usage-based perspective – input important

- Learning is partly implicit.
- Frequency affects learning (cf e.g. Bybee 2008)
- → Important to see how **course books** and **learner essay** usage compares.

Comparison to L1 usage

- Important to be able to compare to reference corpora
 - → Open queries which can be rerun on reference corpora

Interlanguage use and norms

- No error/correction annotation
- Normlike patterns
 - (based on the most authoritative descriptive grammar of Swedish, the Swedish Academy Grammar (Teleman et al. 1999))
- Interlanguage use of normlike patterns overviews in the profile not showing whether correctly used
- Profile → open data → such analysis possible



https://spraakbanken.gu.se/larkalabb/
svlp (username: demo)

Morphological pro

Morphology: word formation patterns

Grammatical profile

Lexical profile Verb patterns Noun patterns Noun patterns

Morphological profile



Sen*lex can be filtered by:

output
gender
nominal declination
verbal conjugation

Adjectival declension

Adjectival & Adverbial structure

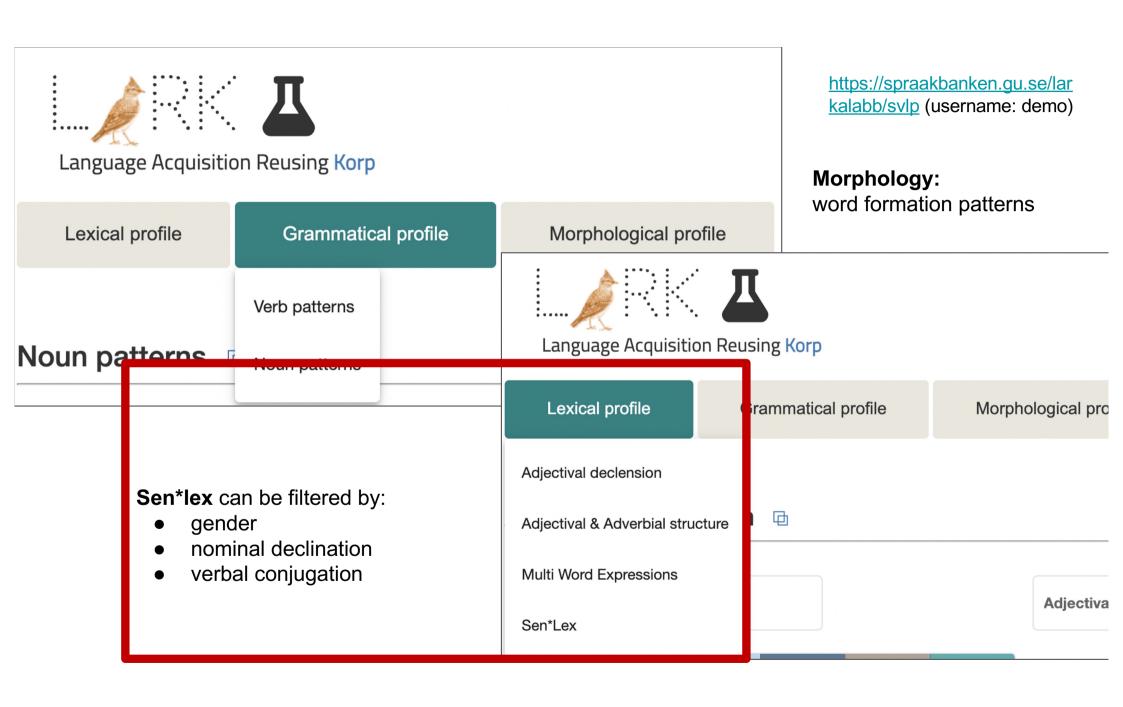
Multi Word Expressions

Adjectival & Adverbial structure

Multi Word Expressions

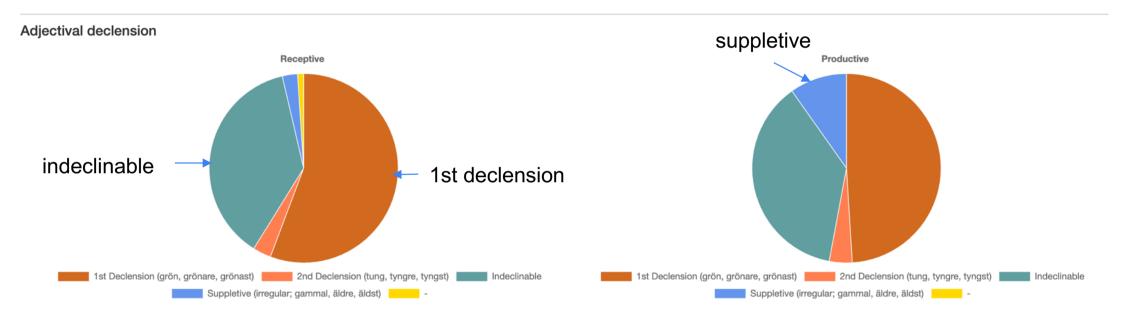
Lexical profile

Grammar profile – grammatical features in the lexical profile



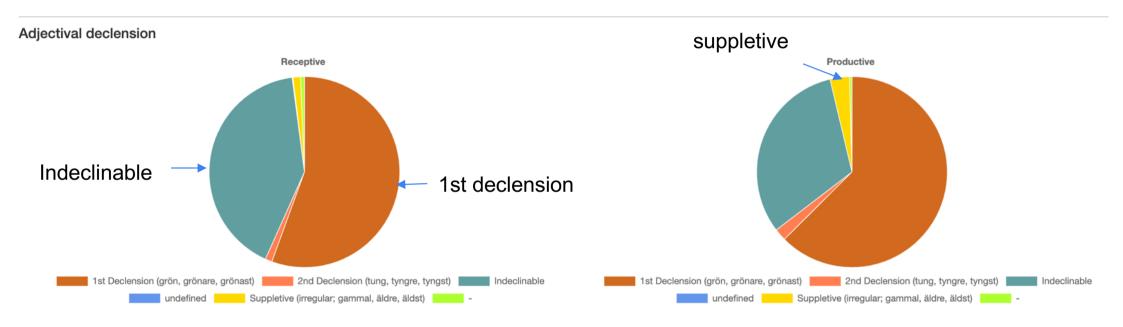
Manual annotation

Adjectival declension (A1)



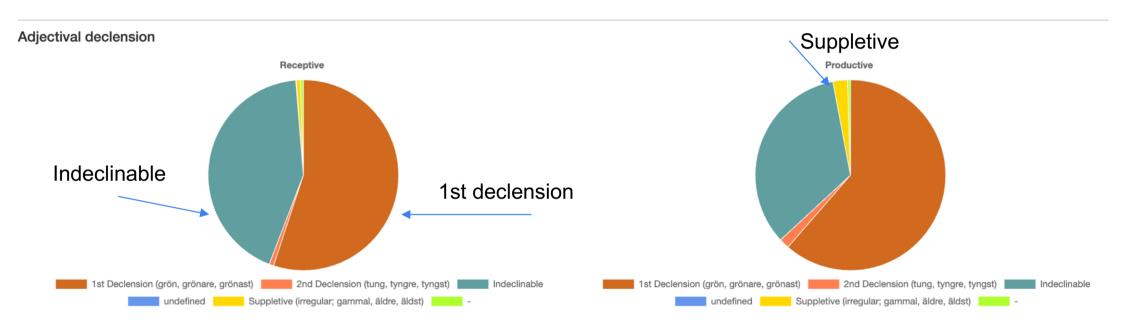
Manual annotation

Adjectival declension (B1)



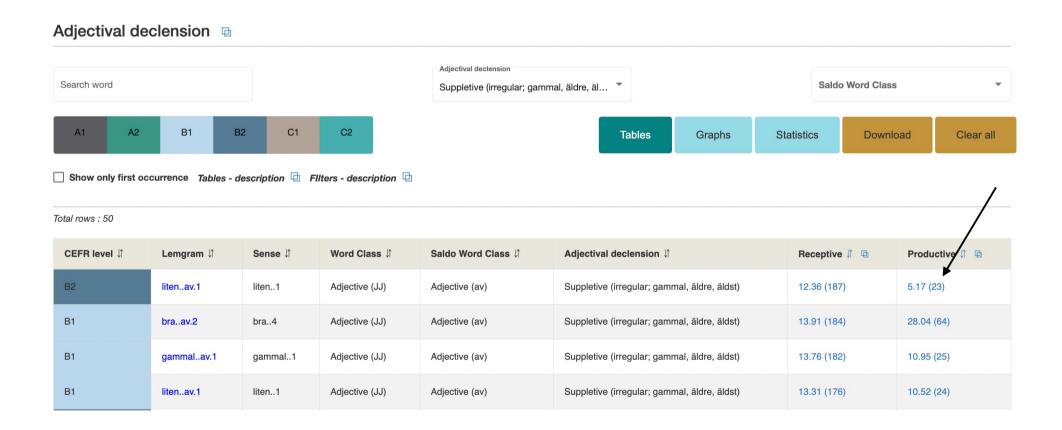
Manual annotation

Adjectival declension (C1)

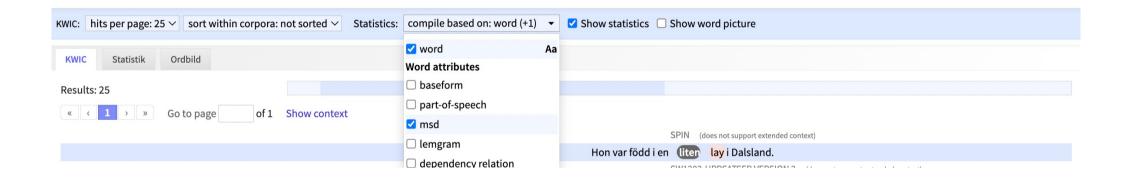


- Learners use suppletive adjectives more than they see them in texts.
- Lemma-based → Do they mainly use the positive form, or do they also also use the suppletive comparative and superlative forms?
- If they do, are they used correctly?

Which forms are used?

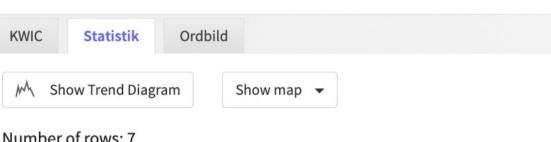


Statistics – compile by MSD



B2 level (prod.) mainly the positive (7+6+2+1=16),

comparitive (8)



The positive form needs to agree with the main word.

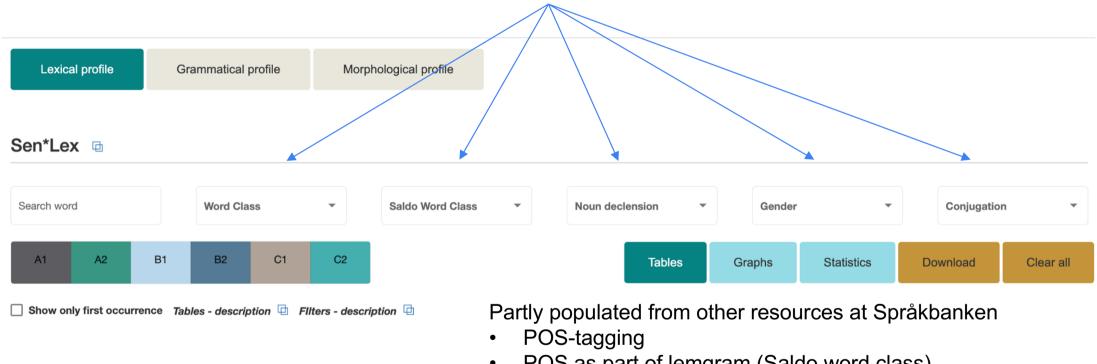
Singular and plural agreement also show suppletion.

En liten artikel 'a small article' Små artiklar 'small articles'

Numl	ber	of	rows:	7
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	word	msd		Total
~	Σ	Σ	•	159.2 (25)
	mindre	JJ.KOM.UTR+NEU.SIN+PLU.IND+	¢	51 (8)
	liten	JJ.POS.UTR.SIN.IND.NOM	•	44.6 (7)
	små	JJ.POS.UTR+NEU.PLU.IND+DEF	•	38.2 (6)
	lilla	JJ.POS.UTR+NEU.SIN.DEF.NOM	•	12.7 (2)
	minst	JJ.SUV.UTR+NEU.SIN+PLU.IND.N	•	6.4 (1)
	litet	JJ.POS.NEU.SIN.IND.NOM	•	6.4 (1)

Grammatical features for lexical items



Manual checks of lists necessary.

- POS as part of lemgram (Saldo word class)
- Noun declension
- Gender
- Conjugation

Most common adjectives at A1

Adjective abbreviationsMultiword adjectives

Saldo word class

Adjective

Lexical profile – Sen*lex

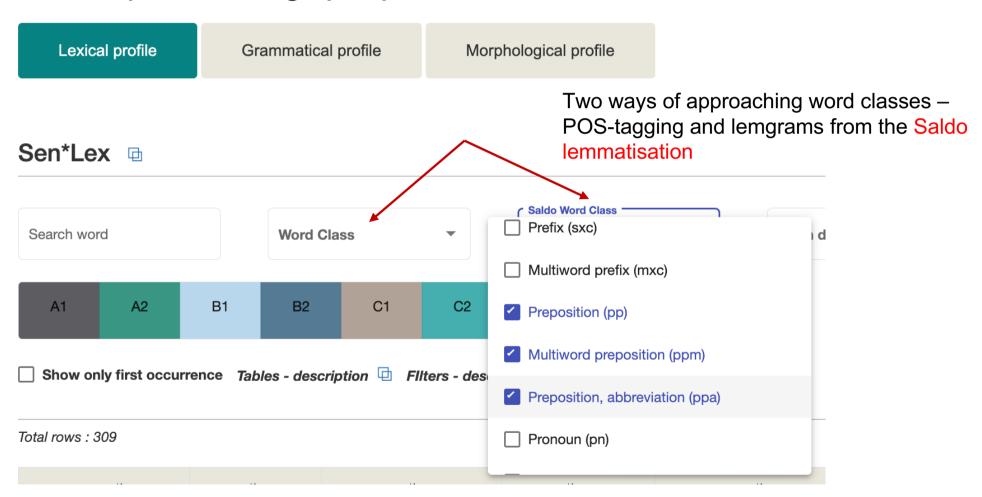
Receptive (course books)

- Halv 'half'
- Liten 'small'
- Stor 'big'
- Ny 'new'
- Svensk 'Swedish'

Productive (learner essays)

- Bra 'good'
- Halv 'half'
- Svensk 'Swedish'
- Trött 'tired'
- Somalisk 'Somalian'

Parts of speech, e.g. prepositions



Prepositions (Saldo lemgrams)

	A1	A2	B1	B2	C1
Receptive	26	36	64	78	77
Productive	7	21	32	40	47
Productive prepositions	I, på, till, från, utan, av	I, på, till, från, av, hos	I, på, till, av, från, utan	I, på, av, till, från, på grund av	I, på, av, till, på grund av , från
Eng. translations	In, on, to, from, without, of	In, on, to, from, of, at (someone's house)	In, on, to, of, from, without	In, on, of, to, from, because	In, on, of, to, because, from



Language Acquisition Reusing Korp

Lexical profile

Grammatical profile

Morphological profile

Verb patterns

Noun patterns

Noun patterns

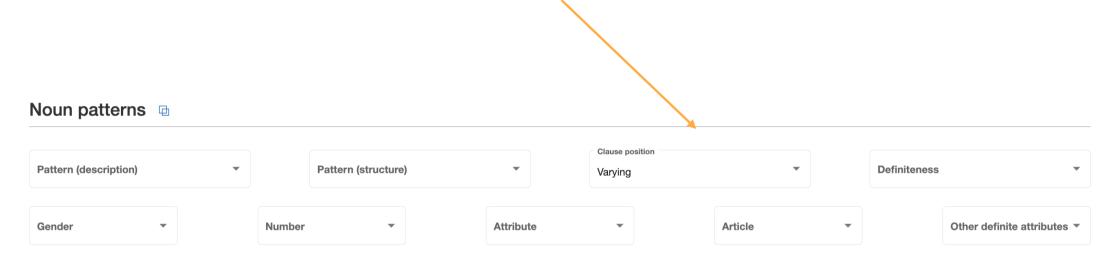
Norm-based patterns

- All patterns are based on Swedish L1 norms (based on SAG, the Swedish Academy Grammar, Teleman et al. 1999 – descriptive grammar)
- Important to use the most widely accepted description of the language as a foundation.
 - Research-based -> possible to use for both research and teaching

Norm-based patterns

- Non-normlike PATTERNS will not usually be found,
 - e.g. *en boken 'a book-DEF'
- Non-normlike USAGE might still be found a pattern might be used in the wrong context…,
 - e.g. *Jag spelar gitarren. 'I play-PRES. guitar-DEF.'
- Possible future work: non-norm patterns
 (some already available in the documentation but not included in the profiling tool)

Best overviews → Only varying clause position



Initial clause position -

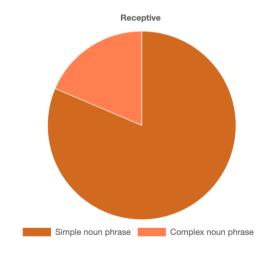
makes it easier to capture some patterns.
Also included in the varying clause position. → important to exclude from overviews.

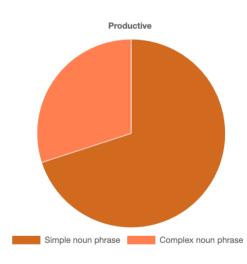
(→ default setting?)

A1 more complex NPs in production...

- Varying clause position
- All occurrences



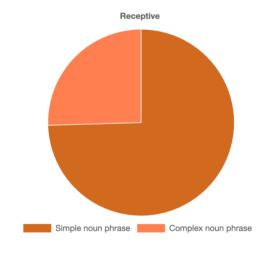


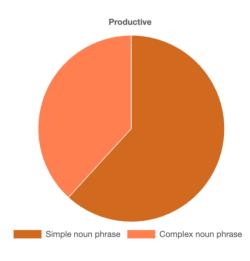


A2 more complex NPs in production...

- Varying clause position
- All occurrences

Pattern (structure)

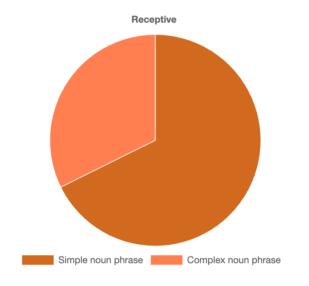


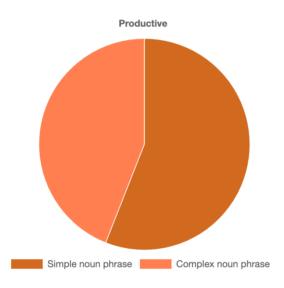


B1 more complex NPs in production...

- Varying clause position
- All occurrences

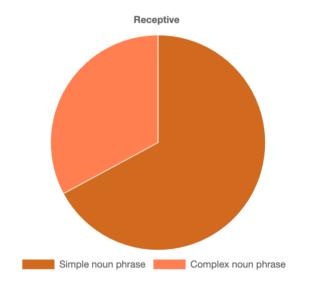
Pattern (structure)

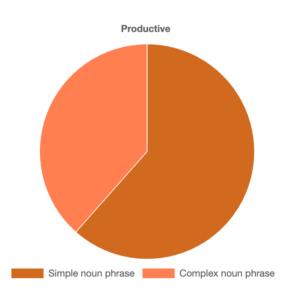




B2 more complex NPs in production... – but nearly equal

Pattern (structure)

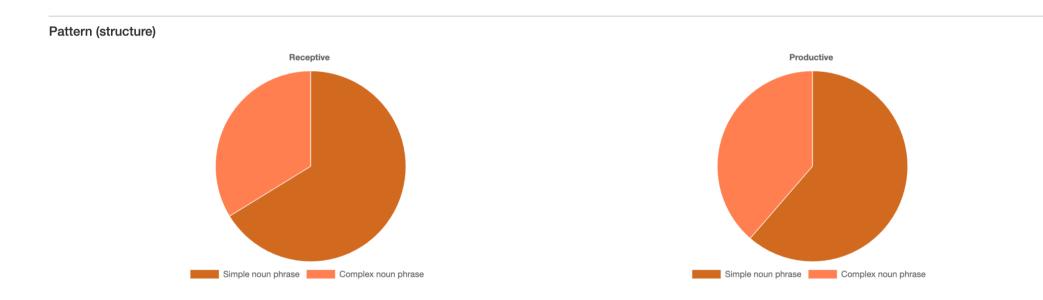




- Varying clause position
- All occurrences

C1 more or less equal...

- Varying clause position
- All occurrences



- Assessment complex NPs are seen as part of higher proficiency
- Are complex NPs used in the same way in learner writing as in L1?
- Is there overuse? Topic related? Assessment driven?

Most common complex NPs (varying position) – A1 prod.

15c. PossINP-gen Nsg (<i>min kompis</i>)	Complex noun phrase	1.65 (125)	16.75 (106)
6e. A Npl (kör <i>gula bilar</i>)	Complex noun phrase	2.06 (156)	7.27 (46)
2e. A Nsg (när hon var <i>liten flicka</i>)	Complex noun phrase	1.54 (117)	5.69 (36)
6f. A Npl (att använda <i>alternativa sätt</i>)	Complex noun phrase	0.91 (69)	5.06 (32)
15d. PossINP-gen Nsg (<i>lärarens telefonnummer</i>)	Complex noun phrase	0.74 (56)	2.05 (13)
2f. A Nsg (med stort intresse)	Complex noun phrase	0.42 (32)	1.26 (8)

2e A Nsg:

"när hon var liten flicka" when she was little girl 'when she was a little girl'

'Naked nouns'
Can only be used in certain contexts.
There may be errors in usage.

Language data

Quite a lot of language examples: Jag talar svenska. 'I speak Swedish'



Counter-norm usage:

*Den skolan är __ mycket **bra skola**. Den skolan är **en** mycket **bra skola**. That school is **a** very **good school**.

Compare to a learner corpus with correction labels... SweLL gold

Elena Volodina, Lena Granstedt, Arild Matsson, Beáta Megyesi, Ildikó Pilán, Julia Prentice, Dan Rosén, Lisa Rudebeck, Carl-Johan Schenström, Gunlög Sundberg and Mats Wirén (2019). The SweLL Language Learner Corpus: From Design to Annotation. Northern European Journal of Language Technology, Special Issue.

Frequency – link to search → reference corpora

Click on the frequency → Hits in Korp & query → can change the corpus



CEFR level ↓↑	Pattern (description) ↓↑	Pattern (structure) ↓↑	Receptive ↓↑ ⊕	Productive
A1	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	1.00 (76)	1.42 (9)
A2	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	1.04 (145)	1.41 (37)
B1	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	0.74 (137)	1.57 (27)
B2	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	0.83 (139)	2.75 (74)
C1	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	0.89 (148)	3.26 (94)
C2	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	NaN (0)	2.86 (5)

Change corpus → e.g. SweLL



SweLL gold original – correction labels & level

correction label	▼approximate level		Total
Σ	Σ	*	6,209.3 (918)
C,_L-W L-W:2	Nybörjare	•	5.8 (1)
C,_L-WUNDEFUNDEF	Nybörjare	•	5.8 (1)
L-Der,_O,_O-Comp L-Der:2,_O:2,_O-Comp:2 L-Der:3,_O:	Nybörjare	•	6.8 (1)
L-Ref,_S-AdvUNDEFUNDEF	Nybörjare	• (5.8 (1)
L-W C S-Clause	Nybörjare	•	5.8 (1)
L-W L-W:2 L-W:3 L-W:4	Nybörjare	• (5.8 (1)
L-W L-W L-W:2	Nybörjare	• (5.8 (1)
L-W M-Gend,_O O	Nybörjare	•	5.8 (1)
L-W M-GendUNDEF	Nybörjare	•	5.8 (1)
L-W M-NumUNDEF	Nybörjare	•	5.8 (1)
L-W,_M-Verb S-Clause M-Def	Nybörjare	e	5.8 (1)
L-W O L-Der,_O,_S-Type	Nybörjare	• (5.8 (1)
L-W,_S-TypeUNDEF L-W,_S-TypeUNDEF	Nybörjare	© (5.8 (1)
L-W,_S-TypeUNDEF M-Def	Nybörjare	•	5.8 (1)
L-WUNDEF L-Der,_S-Type	Nybörjare	© (5.8 (1)
L-WUNDEF L-W,_M-Num	Nybörjare	• (5.8 (1)
L-WUNDEF M-Num	Nybörjare	•	5.8 (1)
L-WUNDEFUNDEF	Nybörjare	• (5.8 (1)

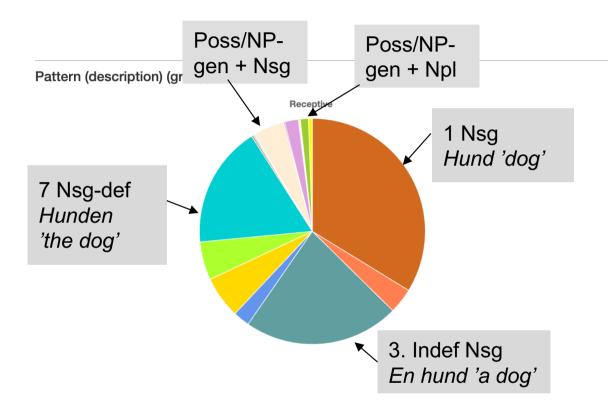
Nybörjare = beginner

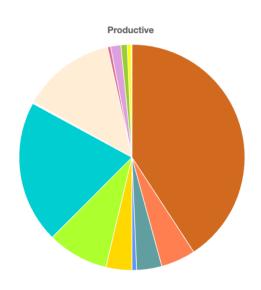
SweLL gold original – correction labels & level

□ correction label	◆approximate level	Total
UNDEFUNDEF	Avancerad	1,826.3 (270)
UNDEFUNDEF M-Num	Avancerad	155.6 (23)
UNDEF M-GendUNDEF	Avancerad	108.2 (16)
L-WUNDEFUNDEF	Avancerad	94.7 (14)
UNDEFUNDEF M-Def	Avancerad	74.4 (11)
UNDEFUNDEFUNDEF	Avancerad	47.3 (7)
UNDEFUNDEFUNDEFUNDEFUN	Avancerad	40.6 (6)
UNDEF O-Comp O-Comp:2	Avancerad	40.6 (6)
UNDEF M-NumUNDEF	Avancerad	40.6 (6)
UNDEF M-DefUNDEF	Avancerad	40.6 (6)
☐ M-VerbUNDEFUNDEF	Avancerad	40.6 (6)
UNDEFUNDEF O-Comp	Avancerad	27.1 (4)
UNDEFUNDEF O	Avancerad	27.1 (4)
UNDEFUNDEF L-Der	Avancerad	27.1 (4)
UNDEF L-WUNDEF	Avancerad	27.1 (4)
L-WUNDEF M-Num	Avancerad	27.1 (4)

Avancerad = advanced

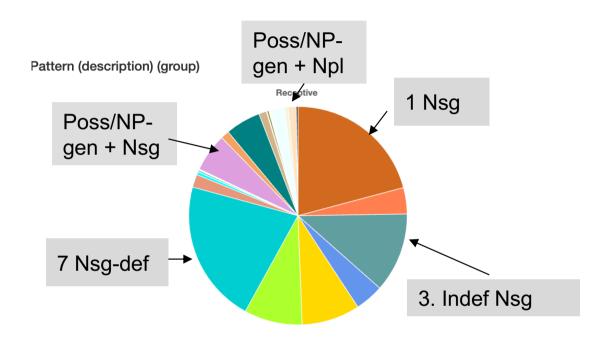
NB.
More poss./NP-gen. in the productive data



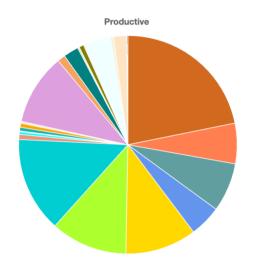


NP patterns

A1, varying position



NB.
More poss./NP-gen. in the productive data



Noun patterns

B1, varying position

Future work: Follow up questions

- Are NPs used in a normlike manner?
- How are learners learning NP patterns & rules?
- Are there enough complex NPs in the input?
 - Complex NPs often require agreement number, gender, etc.
 - Agreement is important in assessment.
 - Some patterns rare and hard to learn?
- Why are more NPs with a possessive modifier used in the productive data? (← A1 can-do's, topic,...)

Noun patterns: Definiteness

Definiteness in Swedish – a challenge for learners

- Swedish has different means of expressing definiteness:
 - 1. Definite suffix (main marker of definiteness):

boken 'the book'

Definiteness in Swedish – a challenge for learners

- Swedish has different means of expressing definiteness:
 - 1. Definite suffix (main marker of definiteness): boken 'the book'
 - **2. A) Definite suffix and definite article (DOUBLE DEFINITENESS)** compulsory with most preposed attributive modifers:
 - den intressanta boken 'the interesting book'
 - 2. B) Demonstrative pronoun *den här* (DOUBLE DEFINITENESS):
 - den här boken 'this book'

Definiteness in Swedish – a challenge for learners

- Swedish has different means of expressing definiteness:
 - 1. Definite suffix (main marker of definiteness): boken 'the book'
 - 2. A) Definite suffix and definite article (DOUBLE DEFINITENESS): den intressanta boken 'the interesting book'
 - 2. B) Demonstrative pronoun den här (DOUBLE DEFINITENESS): den här boken 'this book'
 - 3. Possessive pronouns, genitives and demonstrative pronoun *denna* without the definite suffix:

min bok 'my book'

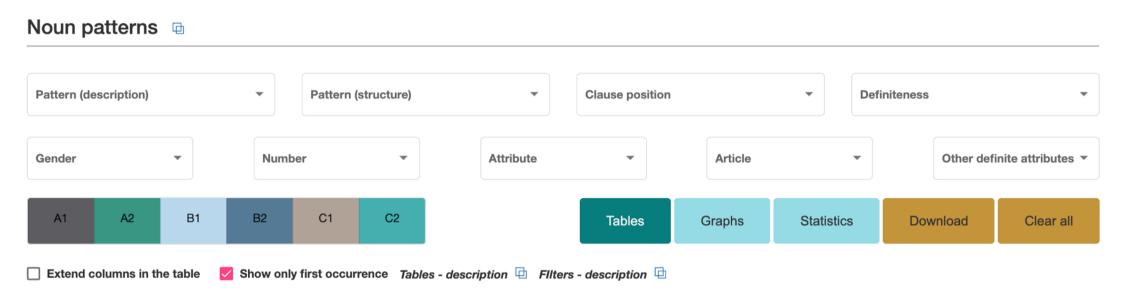
Thereses bok 'Therese's book'

denna bok 'this book'

- Noun patterns (28+) (based on Agebjörn (unpubl.) and Svenska Akademiens Grammatik (SAG, Swedish Academy Grammar))
- All patterns divided according to gender: 28 x 2 = 56
- Some according to position initial or any position → 56+
- All patterns tagged with:
 - o pattern structure
 - clause position
 - definiteness
 - o gender
 - o number
 - attribute
 - article
 - other definite attribute
 - → filters

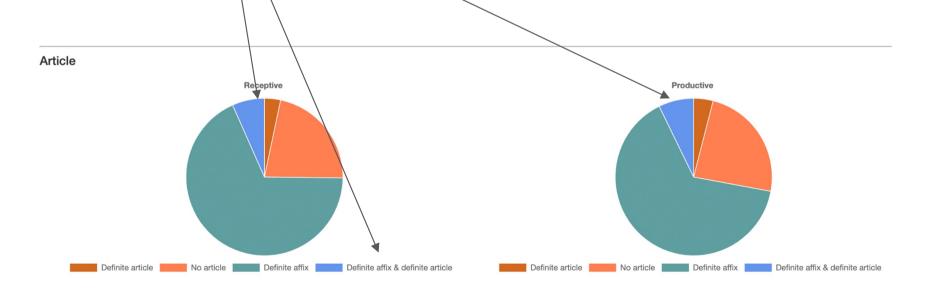
	Singular				Plural						
	#	Art./ pron./gen.	Adj. attr.	N	Def. suff.	#	Art./ pron./ gen.	Adj. attr.	N	Num. suff.	Def. suff.
IN- DEF.	3	en/ett		N	-	5	-		N	pl	-
	4	en/ett	Α	N	-	6	-	Α	N	pl	-
	1	-		N	-	5	-		N	pl	-
	2	-	Α	N	-	6	-	Α	N	pl	-
DEF.	7	-		N	-en/- et	17	-		N	pl	-na
•	8	den/det	А	N	-en/- et	18	de	А	N	pl	-na
	11	den/det		N	-	21	de		N	pl	-
	12	den/det	Α	N	-	22	de	Α	N	pl	-
	9	den här/ den där		N	-en/- et	19	de här/ de där		N	pl	-na
	10	den här/ den där	А	N	-en/- et	20	de här/ de där	А	N	pl	-na
	13	denna		N	-	23	dessa		N	pl	-
	14	denna	Α	N	-	24	dessa	Α	N	pl	-
	15	min/Kalles		N	-	25	mina/Kalles		N	pl	-
	16	min/Kalles	Α	N	-	26	mina/Kalles	Α	N	pl	-
	27	-	e.g. förra, andra	N	-en/- et	28	-	e.g. förra, andra	N	pl.	-na

Nouns patterns – choose by pattern or filter



Definite NPs only – 'articles' at B2/C1/C2

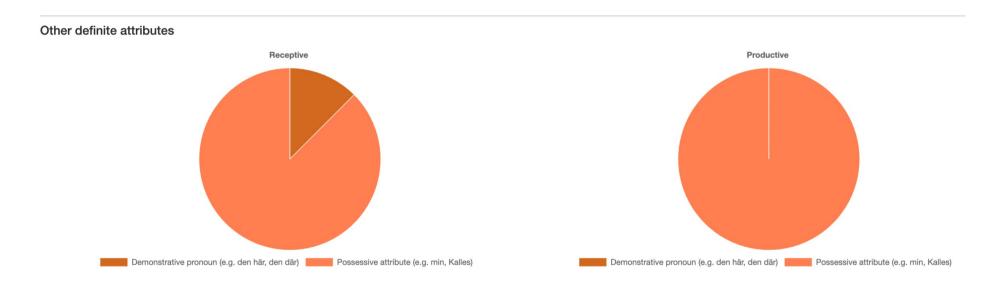
- Definiteness usually = definite affix (Sw. slutartikel)
- Double definiteness only slightly more common than only definite article den / det / de
- No article forms include possessive pronouns, genitives, some demonstrative denna which take bare nouns.



Demonstratives, possessives, genitives with adjectival attributive modifers



POSS / GEN / DEM.PRON. + ADJ. A1 – no demonstratives in learner data

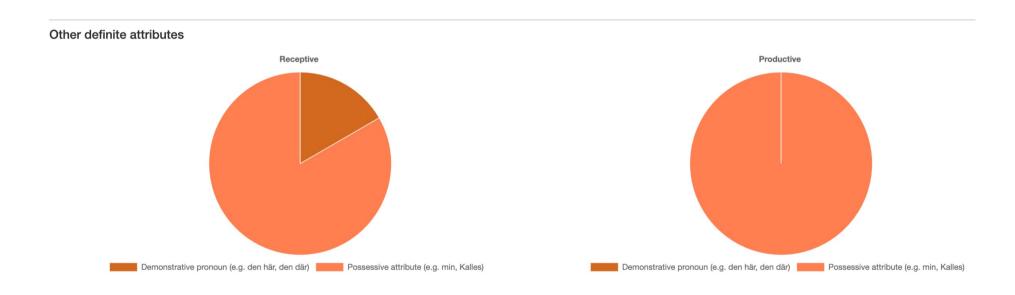


A1 – no demonstratives in learner data – not surprising

A1: "Can introduce him/herself and others and can ask and answer questions about personal details such as where he/she lives, people he/she knows and things he/she has." (COE 2001, p. 24)

 \rightarrow focus on personal \rightarrow possessive pronouns

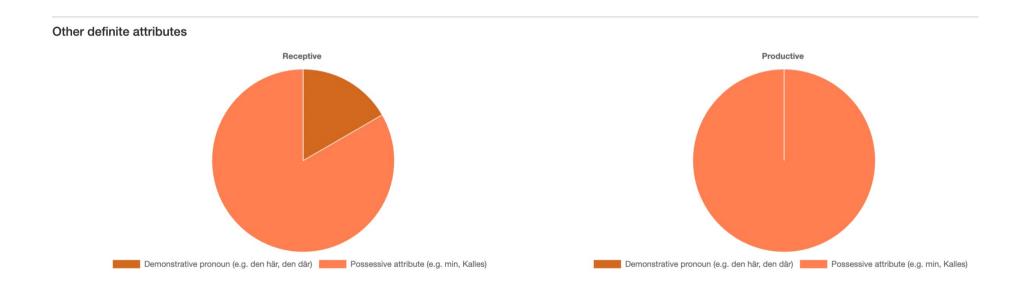
A2 – still no demonstratives in learner data



A2: "Can communicate in simple and routine tasks requiring a simple and direct exchange of information on familiar and routine matters. Can describe in simple terms aspects of his/her background, immediate environment and matters in areas of immediate need." (COE, 2001, p. 24)

→ Writing tasks → lack of demonstratives

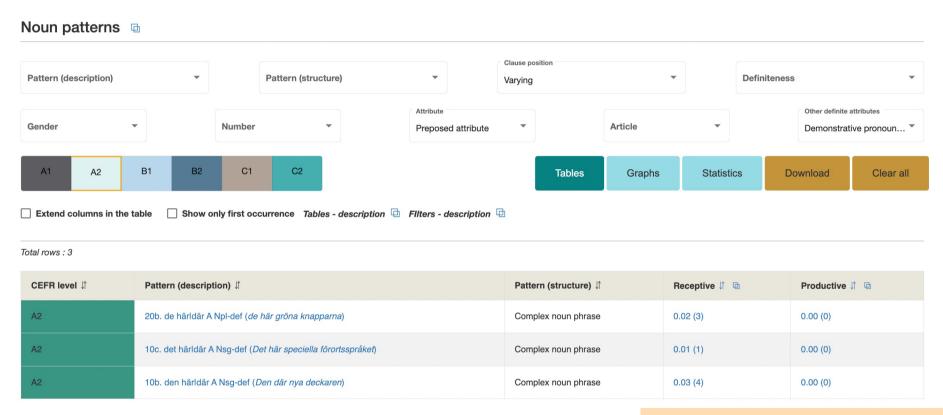
A2 – still no demonstratives in learner data



Are they really not producing any demonstratives

OR are they combining them with the wrong morphological form?

Non-norm usage?



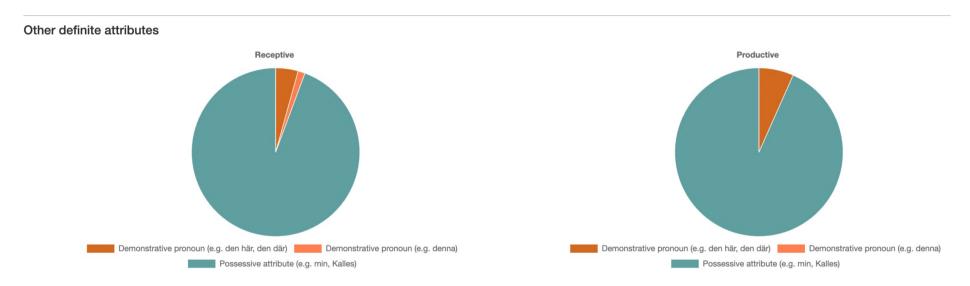
CLICK
Access corpus data + other corpora

Change the query → non-norm → still no hits



B1

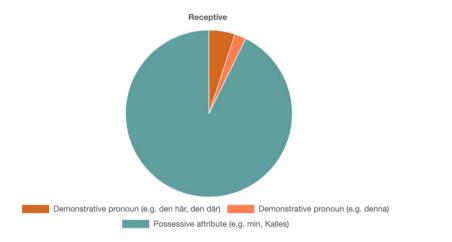
B1: "Can produce simple connected text on topics which are familiar or of personal interest. Can describe experiences and events, dreams, hopes and ambitions and briefly give reasons and explanations for opinions and plans." (COE, 2001, p. 24)

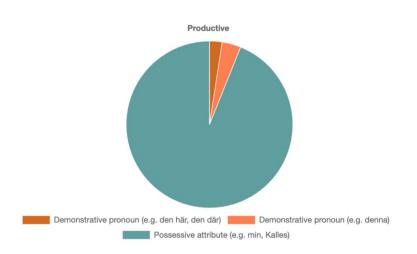


- Some demonstrative pronoun den här 'this' in the learner data
- Demonstrative denna 'this' new at this level in course books more formal than den här

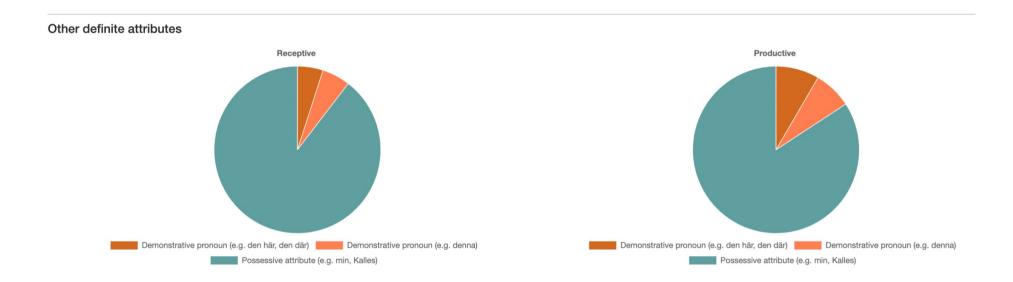
Β2

Other definite attributes





- Denna 'this' new in learner data. Denna is more common in formal writing, and in certain regions.
- More common than den här 'this' in learner data —> Why?
 Overuse of denna? Due to non-normative usage of den här?



- More demonstratives in receptive and productive.
- Denna 'this' & den här 'this' equal proportions

Previous research on definiteness

NOTE:

Our patterns are norm-based but might be used in non-norm contexts

Nyqvist 2018:19 – grammaticality judgement test, double definiteness, immersion (16 years old) vs non-immersion students (15 years old)

Acquisition order (75 % accuracy):

- (1) **Double definiteness:** common singular > neuter singular > plural
- (2) **Definiteness with PRG attributes:** *den här* > genitive attribute with adj. > possessive attribute with adj. > *denna*
- Den här 'this' occurs with the definite suffix the most common way of marking definiteness.
- Denna 'this' is quite rare in input and occurs with the more unusual bare noun.

Comparison with L1 reference corpora easily done

- Reference corpora not visible inside the profile, but...
- All of our patterns can be easily searched also in reference corpora available in Korp, Språkbanken Text, Gothenburg.
- No overview (future work but requires downloading queries)
- Let's look at one pattern:

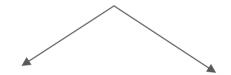
pattern 1b – hard for learners to know when to use the 'naked' indefinite form

Många köpte **hund** under covid. many buy-PT **dog** during covid "Many bought **a dog** during covid"

Frequency – link to search → reference corpora

Click on the frequency → Hits in Korp → can change the corpus to an L1 reference corpus

Många köpte **hund** under covid. many buy-PT **dog** during covid "Many bought **a dog** during covid"



CEFR level ↓↑	Pattern (description) ↓↑	Pattern (structure) ↓↑	Receptive ↓↑ 回	Productive □
A1	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	1.00 (76)	1.42 (9)
A2	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	1.04 (145)	1.41 (37)
B1	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	0.74 (137)	1.57 (27)
B2	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	0.83 (139)	2.75 (74)
C1	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	0.89 (148)	3.26 (94)
C2	1b. Nsg (Jag kan <i>svenska</i>)	Simple noun phrase	NaN (0)	2.86 (5)

Custom CQP query: Get the CQP tutorial

Skilsmässa är

[(msd = "NN\.UTR\.SIN\.IND\.NOM") & pos = "NN" & lex not contains "januari\.\.nn\.1" & lex not contains "februari\.\.nn\.1" & lex not contains "mars\.\.nn\.1" & lex not contains "augusti\.\.nn\.1" & lex not contains "juni\.\.nn\.1" & lex not contains "juni\.\.nn\.1" & lex not contains "augusti\.\.nn\.1" & lex not contains "juni\.\.nn\.1" & lex not contains "juni\.

Search ▼ KWIC: hits per page: 25 V sort within corpora: not sorted V Statistics: compile based on: word ▼ □ Show statistics □ Show word picture KWIC Statistik Ordbild Results: 148 « < 1 2 3 4 5 6 > » Go to page of 6 Show context COCTAILL LESSON TEXT Straat låter det vara varmt där, han låter kvinnorna vara vackra, de fattiga fattiga och de rika rika. Uppfostran blev snäsor och luggar, » Gud som haver » och vara lydig. Mamma kommer ut. Lunch i morgon? Finska talas av ca 250 000 personer i Sverige. Mamma tog några bestämda steg mot vardagsrummet.

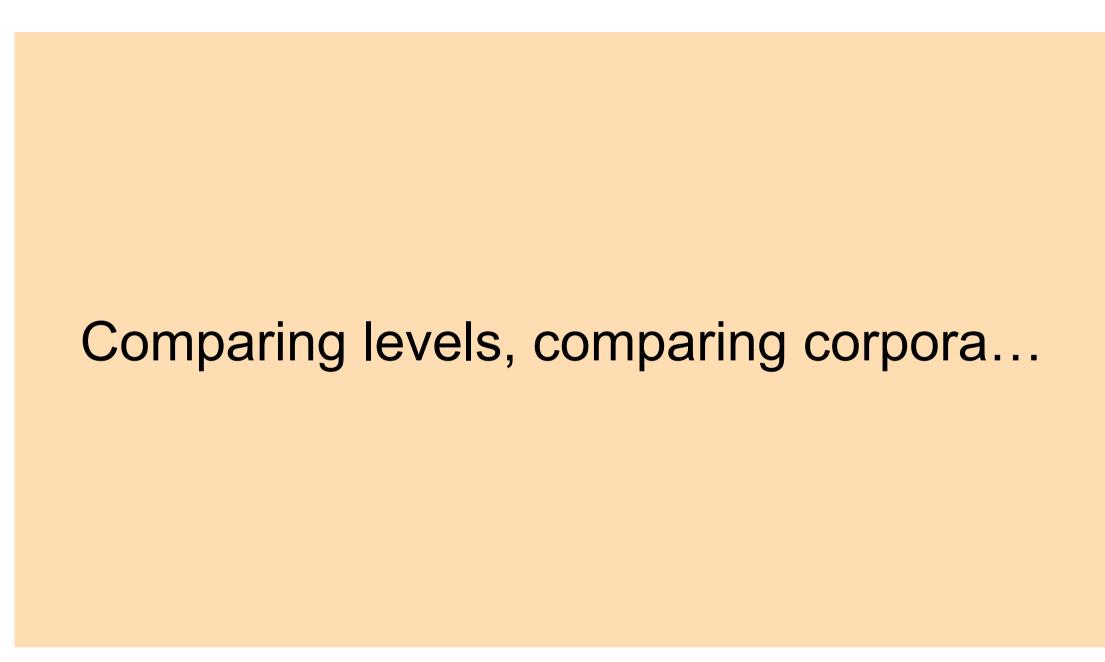
en vanlig orsak men många föräldrar är redan från början ensamboende.

Change to a reference corpus

e.g. newspapers GP 2013 (Göteborgsposten) Remove the level from the search SPRÅKBANKENTEXT 2 of 275 corpora selected — 652.00K of 15.19G tokens Active CQP query in simple search: Active CQP query in extended: Custom CQP query: Get the CQP tutorial [(msd = "NN\.UTR\.SIN\.IND\.NOM") & pos = "NN" & lex not contains "januari\.\.nn\.1" & lex not contains "februari\.\.nn\.1" & lex not contains "mars\.\.nn\.1" & lex not contains "april\.\.nn\.1" & lex not contains "maj\.\.nn\.1" & lex not contains "juni\.\.nn\.1" & lex not contains "juli\.\.nn\.1" & lex not contains "augusti\.\.nn\.1" & lex not contains Remove the level

Newspaper: *Trial started...; Woman raped...; Traffic planning must...*

KWIC Statistics Wo	ord picture
Results: 21,142	
«	5 6 7 8 9 10 11 12 13 14 15 > » Go to page of 846 Show context
GP 2013	
Rättegång inleds	i New Orleans i ett civilmål mot oljebolaget BP anklagat för att inte ha tagit katastrofen vid den läckande oljekällan i Mexikanska golfen 2010 på allvar.
Kvinna våldtagen	
Trafikplanering måste	vara framåtriktad.
Folkbildning i	ett väldigt fint format.
10-åring överfölls	av man i bil
Hörna för	Gais, Muhrén som skytt – och Niklas Hellqvist i Sirius som fullföljde efter att skottet avlossats.
Stress och	krav på snabbare flöden genom förlossningsavdelningen skulle med andra ord kunna leda till att de kloka riktlinjer som arbetats fram inom projektet " S
Raggare och	Serotonin är två låtar av krautpionjärerrna Can, med svenska texter, ett sound som både skaver och har rymd.
Rektor har	sagt att hon ska se vad hon kan göra, säger Josefin Krantz.
Confitering är	ett gammalt sätt att konservera och laga till anklåren.
Polis kontrollerar	en bil vid Rundradiogatan.
Minister misstänkt	för plagiat avgår
ordförande i	SKL:s utbildningsberedning



How can we compare these?

- Currently relative frequency in Swedish L2 Grammatical Profile is occurrences / 100 sentences
 - Total tokens → not the best for grammatical constructions, important to relate to sentences, clauses or phrases.
 - Verb phrases first → per 100 sentences
- Future research: Which is the best relative measure?
 - Nouns relative in comparison to the total number of nouns?
 - Verbs relative in comparison to the total number of verbs?

Preliminary comparison (newspaper & learner essays)

	GP 2013 (newspaper)	A1 prod.	A2 prod.	B1 prod.	B2 prod.	C1 prod.
1b Nsg (per 1 mil. tok.)	1253.1 (21142)	1740.1	1355.1	1086.4	1619.8	1806.0
1b Nsg (per 100 sent.)	1.69	1.42 (9)	1.41 (37)	1.57 (27)	2.75 (74)	3.26 (94)
3b Indef Nsg (per 1 mil. tok.)	8091.2 (136 515)	5800.5	6519.2	7162.1	6523.1	6897.5
3b Indef Nsg (per 100 sent.)	10.91	4.74 (30)	6.80 (178)	10.35 (178)	11.07 (298)	12.44 (359)
7c Nsg-DEF (per 1 mil. tok.)	4375.9 (73830)	2706.9	2014.4	1609.5	1072.6	1940.5
7c Nsg-DEF (per 100 sent.)	5.9	2.21 (14)	2.10 (55)	2.33 (40)	1.82 (49)	3.50 (101)

Possible **underuse** of all patterns, except 1b & 3b from B2 (per 100 sentences). 1b, 3b possible signs of **overuse** from B2. → needs further study.

Future research

- Best way of normalising the frequencies...
- Development of non-normative patterns per level
 - → patterns in the non-normative usage
- Could more norm-like usage be stimulated by increased usage in e.g. coursebooks?
- Data Drive Learning

Swedish L2 profile – providing possibilities...

Teaching

Learning

Assessment

Research

- Open access to empirical data (learner data behind access license)
- Open access to reference corpora, possible to search in exactly the same way.
- Further analysis needed.
- ICALL exercises based on the material should be explored.

Underway:

- L2 Swedish development prepositions, passives, past tenses, definite NPs etc
- Prefixes
- Morphological complexity

References

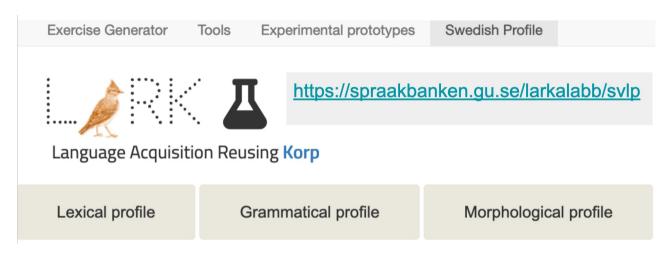
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Swedish L2 Profile





https://spraakbanken.gu.se/larkalabb/svlp (demo)

Workshop profiling L2 lexis and grammar, (20 April 2023)

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