

HET INTERESSEERT ME GEEN ENE JE-WEET-WEL
THE PRODUCTIVITY OF MINIMIZING CONSTRUCTIONS
IN PRESENT-DAY DUTCH

Margot Van den Heede & Peter Lauwers

OVERVIEW

1. The minimizing construction
2. Productivity
3. Methodology
4. Productivity at the macro-level
5. Productivity of the micro-cx
6. Relations between the two slots
7. Conclusion

1. THE MINIMIZING CONSTRUCTION

*Ik wil **geen seconde missen** van de Olympische Spelen.*

‘I don’t want to miss a second of the Olympics’



*Nina Derwael en Sunisa Lee **geven elkaar geen duimbreed toe**.*

‘Nina Derwael and Sunisa Lee don’t budge an inch’

*Het **kan hem geen bal schelen**.*

‘He doesn’t give a damn’

1. THE MINIMIZING CONSTRUCTION

A construction with different slots:

[geen]



the element of negation (quantifier)

[MINIMIZING NOUN]

[PREDICATE]

1. THE MINIMIZING CONSTRUCTION

A construction with different slots:

[geen]

[MINIMIZING NOUN]

[PREDICATE]



a noun that denotes a small quantity
and that is used to reinforce sentential negation

1. THE MINIMIZING CONSTRUCTION

A construction with different slots:

[geen]

[MINIMIZING NOUN]

[PREDICATE]

1. THE MINIMIZING CONSTRUCTION

A construction with different slots:

[geen]

[MINIMIZING NOUN]

[PREDICATE]

NOT included (if the minimizer has a lower-level scope)

U betaalt geen cent extra ‘You don’t pay a penny extra’

Hij heeft geen greintje geduld ‘He doesn’t have a grain (of) patience’

2. PRODUCTIVITY IN GENERAL

Productivity: a multi-faceted concept

- **Lexical scope:** “Productivity refers to the range of lexical items that may fill the slots of constructions” (Perek 2016: 66) TYPE FREQUENCY
- **Extensibility:** “the extensibility of a pattern to new types” (Barðdal 2008: 29) HAPAX FREQUENCY

2. PRODUCTIVITY IN GENERAL

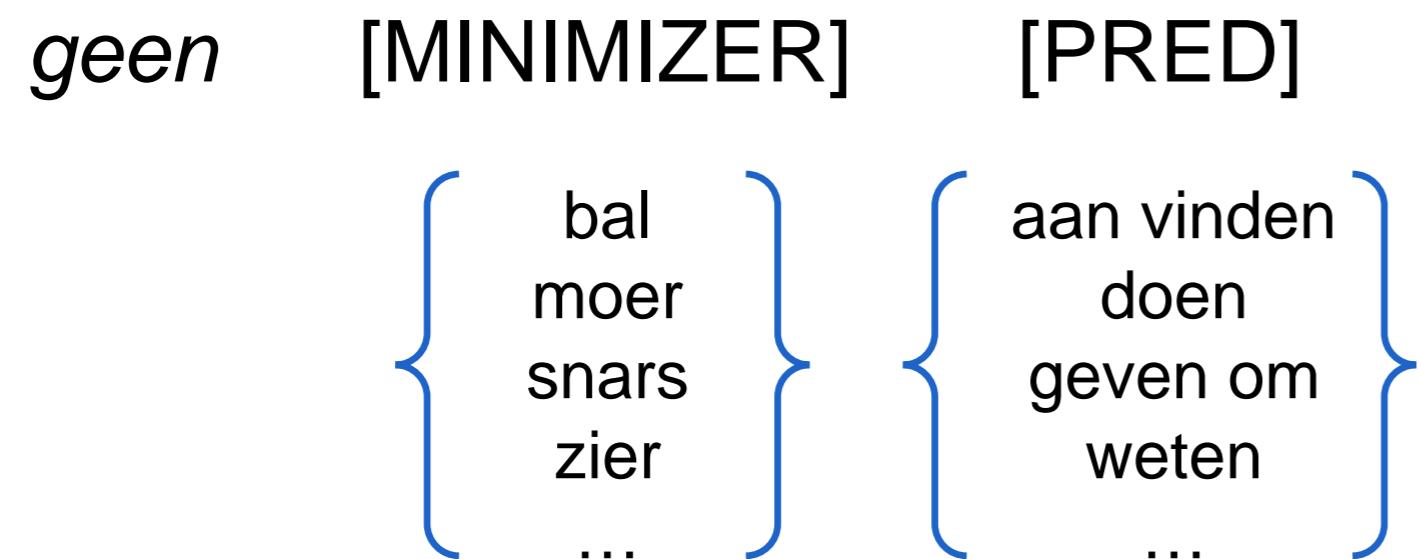
Productivity: a multi-faceted concept

- **Lexical scope:** “Productivity refers to the range of lexical items that may fill the slots of constructions” (Perek 2016: 66) TYPE FREQUENCY
- **Extensibility:** “the extensibility of a pattern to new types” (Barðdal 2008: 29) HAPAX FREQUENCY
- “Syntactic productivity is multidimensional – different aspects of productivity are not necessarily correlated (though they often are)” (Zeldes 2012: 135)

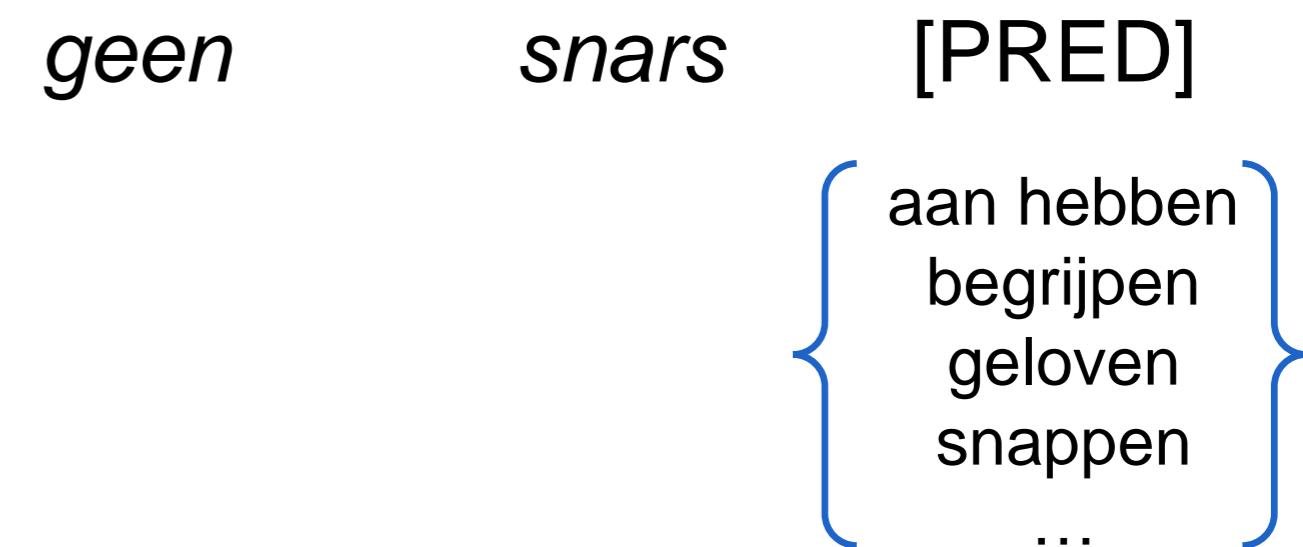
2. PRODUCTIVITY OF THE MINIMIZING CONSTRUCTION

At different levels of schematicity

The productivity of the **macro-construction**: the range of items that fill the minimizer-slot, the range of predicates and the interaction between the two slots



The productivity of the **micro-constructions** (= the slot of the minimizer is filled): the range of items that fill the predicate-slot



3. METHODOLOGY

Synchronic corpus research: Dutch Web 2014 (nITenTen14),
available on Sketch Engine



Netherlandic Dutch subcorpus: 1.9 billion tokens

[lemma="geen|gene|genen|geene|geenen"] [] {0,2}

[word="bal"] within <s/>

3. METHODOLOGY

Synchronic corpus research: Dutch Web 2014 (nITenTen14),
available on Sketch Engine

Selection based on literature, exploratory searches in the
corpus (“geen N”) and searches based on frequent predicates

- List of 244 minimizers
 - Annotation: 100 tokens per minimizer
- (possible for 46 minimizers)

OVERVIEW

1. The minimizing construction
2. Productivity
3. Methodology
- 4. Productivity at the macro-level**
5. Productivity of the micro-cx
6. Relations between the two slots
7. Conclusion
8. Next steps

4. PRODUCTIVITY AT THE MACRO-LEVEL

Dataset: 6224 tokens

Focus: slot of the minimizer

[MINIMIZER]

Type frequency	244
Hapax frequency	83
Dis legomena	23
Tris legomena	12

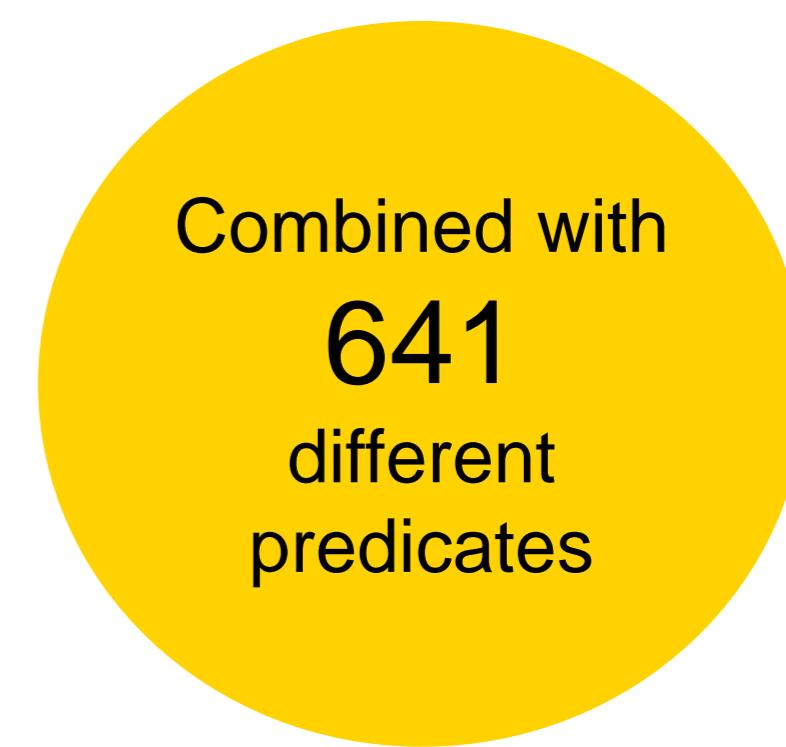
4. PRODUCTIVITY AT THE MACRO-LEVEL

Dataset: 6224 tokens

Focus: slot of the minimizer

[MINIMIZER]

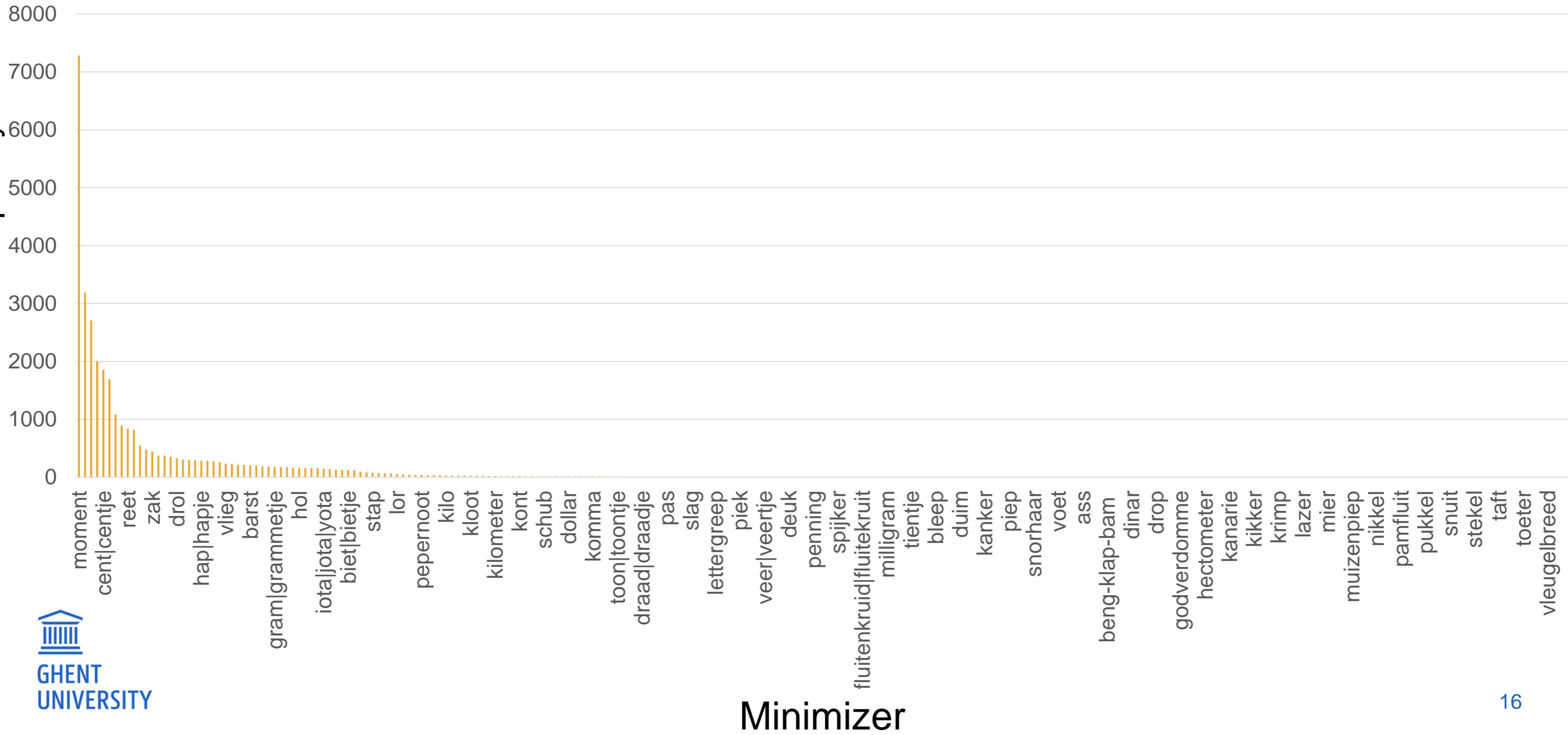
Type frequency	244
Hapax frequency	83
Dis legomena	23
Tris legomena	12



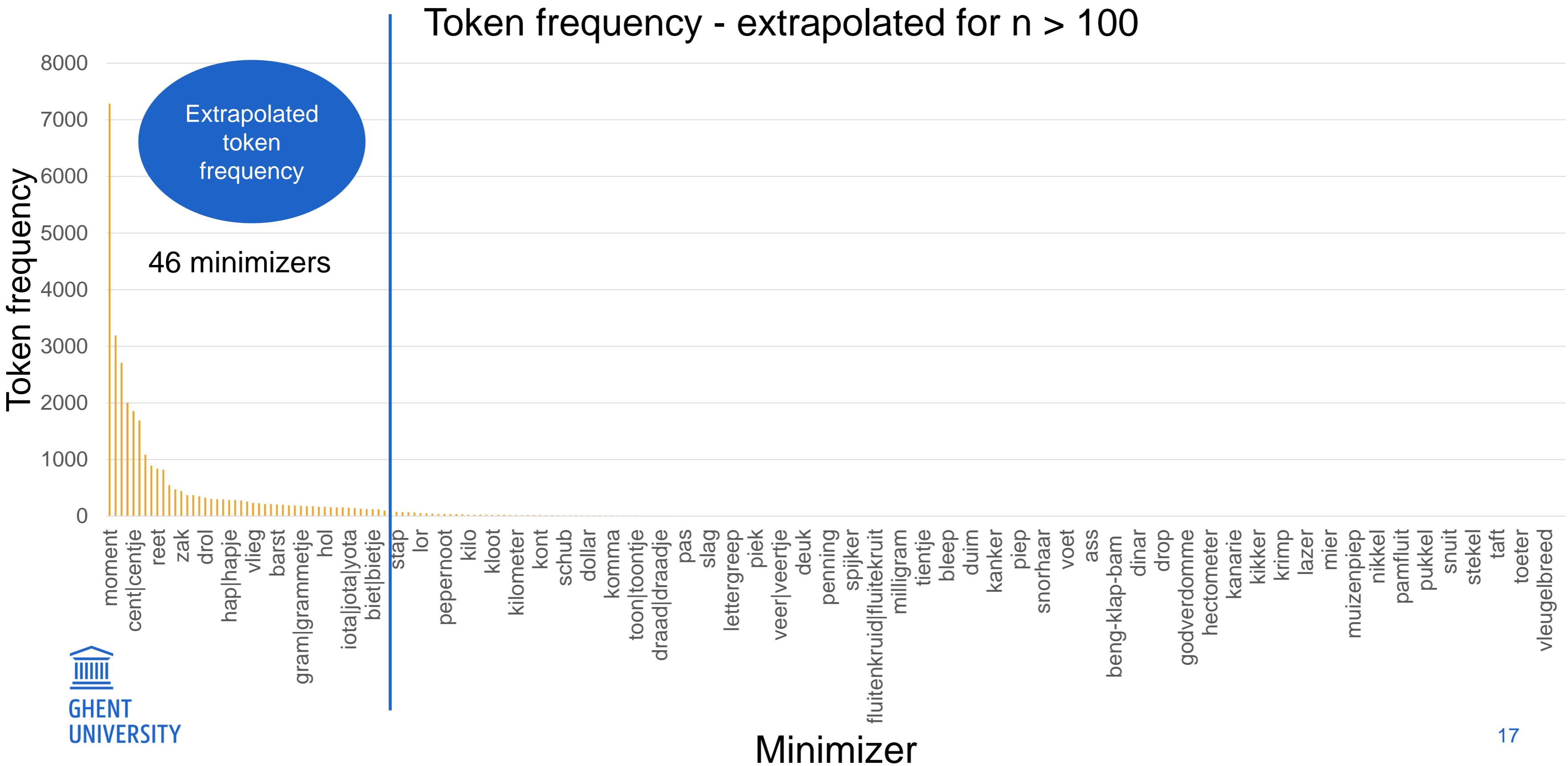
4. PRODUCTIVITY AT THE MACRO-LEVEL

Token frequency - extrapolated for $n > 100$

Token frequency



4. PRODUCTIVITY AT THE MACRO-LEVEL

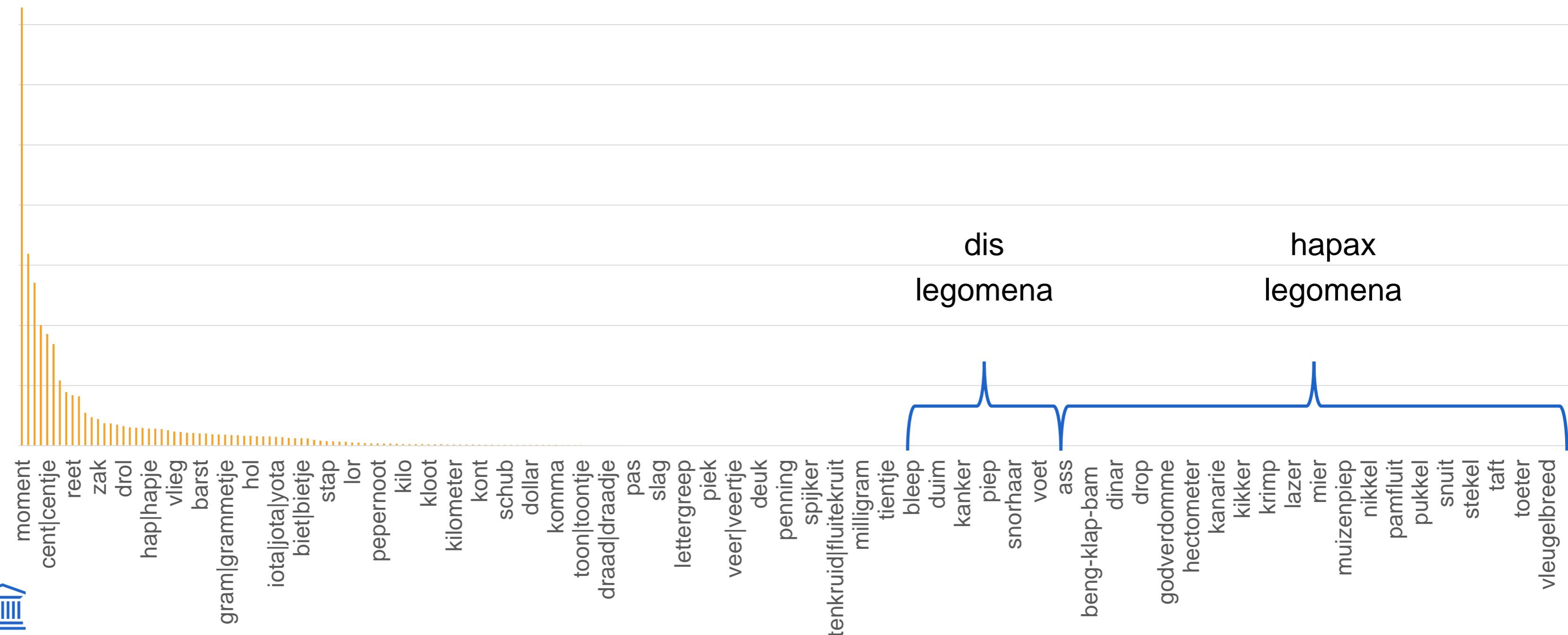


4. PRODUCTIVITY AT THE MACRO-LEVEL

Token frequency - extrapolated for $n > 100$

Token frequency

8000
7000
6000
5000
4000
3000
2000
1000
0



4. PRODUCTIVITY AT THE MACRO-LEVEL

Productive?

- high type frequency of the minimizing slot
- extensibility of the slot: large number of hapax legomena

4. PRODUCTIVITY AT THE MACRO-LEVEL

Productive?

- high type frequency of the minimizing slot
- extensibility of the slot: large number of hapax legomena

Key notions: analogy, context

*Sommige dierenartsen snappen er **geen hondendrol** van*
‘Some veterinarians don’t understand a dog turd about it’

*Hij lijkt **geen graspol** te geven om het amateurvoetbal*
‘He doesn’t seem to give a clump of grass about amateur soccer’

*De kamerleden interesseert het **geen ene je-weet-wel***

‘It didn’t interest the members of the Parliament a single you-know-what’

4. PRODUCTIVITY AT THE MACRO-LEVEL

Cluster analysis based on the co-occurring predicates in the dataset

Method: pam (Partitioning Around Medoids), for N = 100 (46 minimizers)

4. PRODUCTIVITY AT THE MACRO-LEVEL

Cluster analysis based on the cooccurring predicates in the dataset

Method: pam (Partitioning Around Medoids), for N = 100 (46 minimizers)

	Number of minimizers	Average silhouette width	Minimizers (from high to low silhouette width)
1	5	0,69	<i>moment, seconde, minuut, dag, ogenblik</i>
2	3	0,65	<i>centimeter, millimeter, duimbreed</i>
3	17	0,51	<i>fuck, moer, fluit, zak, bal, hol, reet, biet, donder, ruk, barst, klap, flikker, snars, zier, jota, hout</i>
4	5	0,49	<i>sterveling, mens, ziel, kip, hond</i>
5	5	0,34	<i>stuiver, euro, cent, brood, drol</i>
6	11	0,10	<i>druppel, vlieg, gram, hap, woord, spaan, letter, spat, strobreed, steek, meter</i>

4. PRODUCTIVITY AT THE MACRO-LEVEL

“The silhouette value measures the degree of confidence in the clustering assignment of a particular observation” (Divjak & Fieller 2014: 432)



	Number of minimizers	Average silhouette width	Minimizers (from high to low silhouette width)
1	5	0,69	<i>moment, seconde, minuut, dag, ogenblik</i>
2	3	0,65	<i>centimeter, millimeter, duimbreed</i>
3	17	0,51	<i>fuck, moer, fluit, zak, bal, hol, reet, biet, donder, ruk, barst, klap, flikker, snars, zier, jota, hout</i>
4	5	0,49	<i>sterveling, mens, ziel, kip, hond</i>
5	5	0,34	<i>stuiver, euro, cent, brood, drol</i>
6	11	0,10	<i>druppel, vlieg, gram, hap, woord, spaan, letter, spat, strobreed, steek, meter</i>

4. PRODUCTIVITY AT THE MACRO-LEVEL

	Number of minimizers	Average silhouette width	Minimizers (from high to low silhouette width)	
1	5	0,69	<i>moment, seconde, minuut, dag, ogenblik</i>	TIME
2	3	0,65	<i>centimeter, millimeter, duimbreed</i>	DISTANCE
3	17	0,51	<i>fuck, moer, fluit, zak, bal, hol, reet, biet, donder, ruk, barst, klap, flikker, snars, zier, jota, hout</i>	TABOO...
4	5	0,49	<i>sterveling, mens, ziel, kip, hond</i>	PEOPLE
5	5	0,34	<i>stuiver, euro, cent, brood, drol</i>	MONEY
6	11	0,10	<i>druppel, vlieg, gram, hap, woord, spaan, letter, spat, strobreed, steek, meter</i>	LANGUAGE, WEIGHT...

4. PRODUCTIVITY AT THE MACRO-LEVEL

	Number of minimizers	Average silhouette width	Minimizers (from high to low silhouette width)
1	5	0,69	<i>moment, seconde, minuut, dag, ogenblik</i>
2	3	0,65	<i>centimeter, millimeter, duimbreed</i>
3	17	0,51	<i>fuck, moer, fluit, zak, bal, hol, reet, biet, donder, ruk, barst, klap, flikker, snars, zier, jota, hout</i>
4	5	0,49	<i>sterveling, mens, ziel, kip, hond</i>
5	5	0,34	<i>stuiver, euro, cent, brood, drol</i>
6	11	0,10	<i>druppel, vlieg, gram, hap, woord, spaan, letter, spat, strobreed, steek, meter</i>

MONEY

geen (droog) brood verdienen
‘to earn not a (dry) bread’

geen drol kosten
‘to cost not a turd’

4. PRODUCTIVITY AT THE MACRO-LEVEL

	Number of minimizers	Average silhouette width	Minimizers (from high to low silhouette width)
1	5	0,69	<i>moment, seconde, minuut, dag, ogenblik</i>
2	3	0,65	<i>centimeter, millimeter, duimbreed</i>
3	17	0,51	<i>fuck, moer, fluit, zak, bal, hol, reet, biet, donder, ruk, barst, klap, flikker, snars, zier, jota, hout</i>
4	5	0,49	<i>sterveling, mens, ziel, kip, hond</i>
5	5	0,34	<i>stuiver, euro, cent, brood, drol</i>
6	11	0,10	<i>druppel, vlieg, gram, hap, woord, spaan, letter, spaf, strobreed, steek, meter</i>

PEOPLE


geen vlieg kwaad doen
'to hurt not a fly'

4. PRODUCTIVITY AT THE MACRO-LEVEL

	Number of minimizers	Average silhouette width	Minimizers (from high to low silhouette width)
1	5	0,69	<i>moment, seconde, minuut, dag, ogenblik</i>
2	3	0,65	<i>centimeter, millimeter, duimbreed</i>
3	17	0,51	<i>fuck, moer, fluit, zak, bal, hol, reet, biet, donder, ruk, barst, klap, flikker, snars, zier, jota, hout</i>
4	5	0,49	<i>sterveling, mens, ziel, kip, hond</i>
5	5	0,34	<i>stuiver, euro, cent, brood, drol</i>
6	11	0,10	<i>druppel, vlieg, gram, hap, woord, spaan, letter, spat, strobreed, steek, meter</i>

DISTANCE

geen strobreed in de weg leggen
'to put not a straw in the way'

? type frequency = 37

4. PRODUCTIVITY AT THE MACRO-LEVEL

geen centimeter / geen millimeter

De man wijkt geen centimeter ‘The man doesn’t budge a centimetre’

VS.

geen meter

Het was de eerste taxichauffeur in Azië die een TomTom had. En dat werkte dus voor geen meter. Hij wist gewoon niet waar ons hotel lag.

‘It was the first taxi driver in Asia to have a TomTom. And that didn’t work for a metre. He just didn’t know where our hotel was.’

4. PRODUCTIVITY AT THE MACRO-LEVEL

geen centimeter 7/100 tokens [voor] + [geen] + [centimeter]

geen millimeter 13/100 tokens [in/met/op/voor] + [geen] +
[millimeter]

VS.

geen meter 91/100 tokens [voor/van] + [geen] + [meter]

OVERVIEW

1. The minimizing construction
2. Productivity
3. Methodology
4. Productivity at the macro-level
- 5. Productivity of the micro-cx**
6. Relations between the two slots
7. Conclusion

5. PRODUCTIVITY OF THE MICRO-CX

SNARS	
begrijpen	28
snappen	20
geloven	17
interesseren	5
uitmaken	5
weten	5
geven om	2
kloppen	2
te maken hebben	2
terechtkomen	2
veranderen	2
bakken van	1
deugen	1
hebben aan	1
helpen	1
opschieten	1
terugzien	1
uitvoeren	1
vertrouwen	1
vinden aan	1
zien	1

5. PRODUCTIVITY OF THE MICRO-CX

Token frequency: 100

Extrapolated token frequency: 371

SNARS	
begrijpen	28
snappen	20
geloven	17
interesseren	5
uitmaken	5
weten	5
geven om	2
kloppen	2
te maken hebben	2
terechtkomen	2
veranderen	2
bakken van	1
deugen	1
hebben aan	1
helpen	1
opschieten	1
terugzien	1
uitvoeren	1
vertrouwen	1
vinden aan	1
zien	1

5. PRODUCTIVITY OF THE MICRO-CX

Token frequency: **100**

Extrapolated token frequency: **371**

Frequency of top 1 predicate: **28**

Frequency of top 3 predicates: $(28+20+17)/3 = 21,6$

SNARS	28
begrijpen	20
snappen	17
geloven	5
interesseren	5
uitmaken	5
weten	2
geven om	2
kloppen	2
te maken hebben	2
terechtkomen	2
veranderen	1
bakken van	1
deugen	1
hebben aan	1
helpen	1
opschieten	1
terugzien	1
uitvoeren	1
vertrouwen	1
vinden aan	1
zien	1

5. PRODUCTIVITY OF THE MICRO-CX

Token frequency: **100**

Extrapolated token frequency: **371**

Frequency of top 1 predicate: **28**

Frequency of top 3 predicates: $(28+20+17)/3 = 21,6$

Type frequency (and type token ratio): **21**

Hapax frequency (and hapax token ratio): **10**

Hapax type ratio: **0,48**

SNARS	
begrijpen	28
snappen	20
geloven	17
interesseren	5
uitmaken	5
weten	5
geven om	2
kloppen	2
te maken hebben	2
terechtkomen	2
veranderen	2
bakken van	1
deugen	1
hebben aan	1
helpen	1
opschieten	1
terugzien	1
uitvoeren	1
vertrouwen	1
vinden aan	1
zien	1

5. PRODUCTIVITY OF THE MICRO-CX

Token frequency: **100**

Extrapolated token frequency: **371**

Frequency of top 1 predicate: **28**

Frequency of top 3 predicates: $(28+20+17)/3 = 21,6$

Type frequency (and type token ratio): **21**

Hapax frequency (and hapax token ratio): **10**

Hapax type ratio: **0,48**

“Syntactic productivity is multidimensional – different aspects of productivity are not necessarily correlated (though they often are)”
(Zeldes 2012: 135)

SNARS	
begrijpen	28
snappen	20
geloven	17
interesseren	5
uitmaken	5
weten	5
geven om	2
kloppen	2
te maken hebben	2
terechtkomen	2
veranderen	2
bakken van	1
deugen	1
hebben aan	1
helpen	1
opschieten	1
terugzien	1
uitvoeren	1
vertrouwen	1
vinden aan	1
zien	1

5. PRODUCTIVITY OF THE MICRO-CX

Correlations between the productivity measures (Pearson correlation)
(based on the minimizers with 100 tokens)

	Extrapol. token freq	Freq top 1	Mean freq top 3	Type freq	Hapax freq	Hapax type ratio
Extrapol. token freq	1	-0,1	-0,1	0,11	0,12	0,11
Freq top 1	-0,1	1	0,94	-0,77	-0,53	-0,02
Mean freq top 3	-0,1	0,94	1	-0,83	-0,6	-0,06
Type freq	0,11	-0,77	-0,83	1	0,93	0,46
Hapax freq	0,12	-0,53	-0,6	0,93	1	0,73
Hapax type ratio	0,11	-0,02	-0,06	0,46	0,73	1



5. PRODUCTIVITY OF THE MICRO-CX

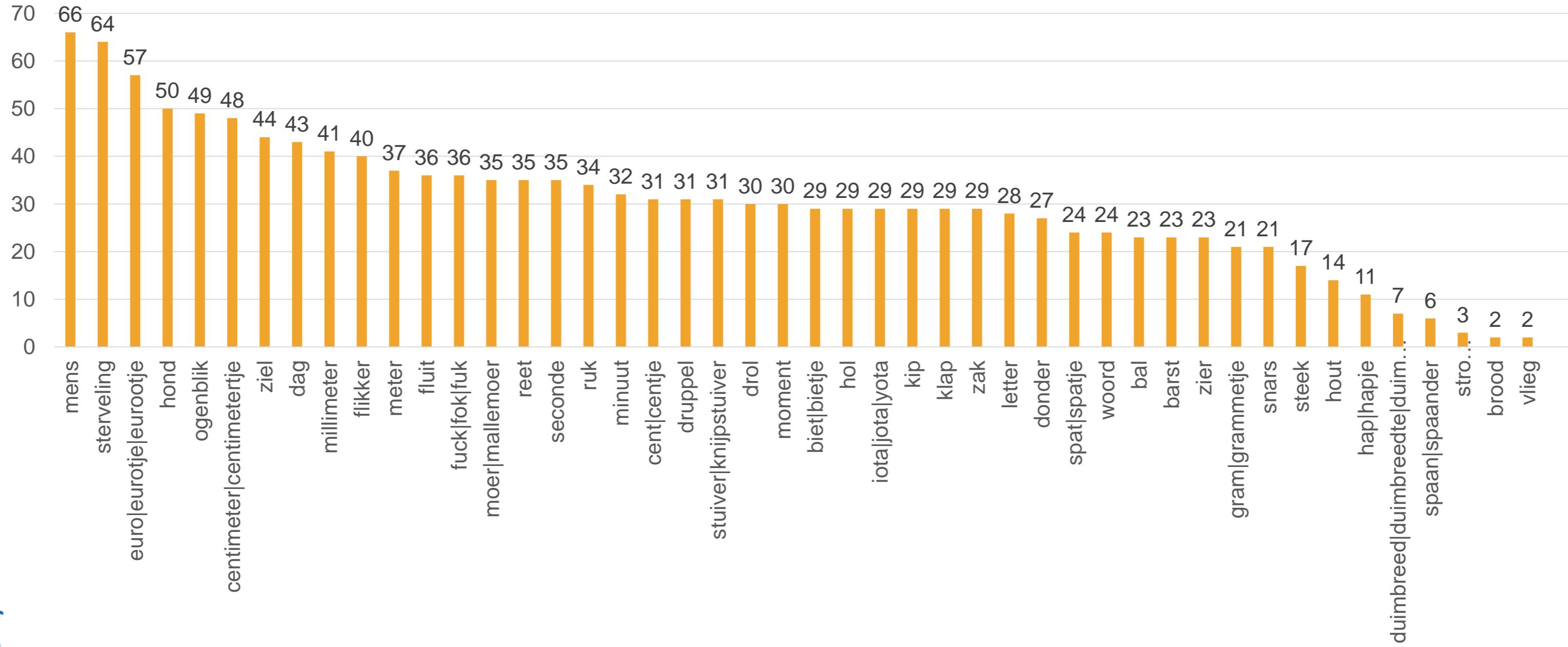
Correlations between the productivity measures (Pearson correlation)
(based on the minimizers with 100 tokens)

	Extrapol. token freq	Freq top 1	Mean freq top 3	Type freq	Hapax freq	Hapax type ratio
Extrapol. token freq	1	-0,1	-0,1	0,11	0,12	0,11
Freq top 1	-0,1	1	0,94	-0,77	-0,53	-0,02
Mean freq top 3	-0,1	0,94	1	-0,83	-0,6	-0,06
Type freq	0,11	-0,77	-0,83	1	0,93	0,46
Hapax freq	0,12	-0,53	-0,6	0,93	1	0,73
Hapax type ratio	0,11	-0,02	-0,06	0,46	0,73	1



5. PRODUCTIVITY OF THE MICRO-CX

Type frequency (minimizers with 100 tokens)



5. PRODUCTIVITY OF THE MICRO-CX

Top 10 - Type frequency

Type frequency
<i>mens</i> 'human being' 66
<i>sterveling</i> 'mortal' 64
<i>euro</i> 'euro' 57
<i>hond</i> 'dog' 50
<i>ogenblik</i> 'instant' 49
<i>centimeter</i> 'centimetre' 48
<i>ziel</i> 'soul' 44
<i>dag</i> 'day' 43
<i>millimeter</i> 'millimetre' 41
<i>flikker</i> 'fag' 40

5. PRODUCTIVITY OF THE MICRO-CX

Top 10 - Type and hapax frequency

Type frequency	
<i>mens</i> 'human being'	66
<i>sterveling</i> 'mortal'	64
<i>euro</i> 'euro'	57
<i>hond</i> 'dog'	50
<i>ogenblik</i> 'instant'	49
<i>centimeter</i> 'centimetre'	48
<i>ziel</i> 'soul'	44
<i>dag</i> 'day'	43
<i>millimeter</i> 'millimetre'	41
<i>flikker</i> 'fag'	40

Hapax frequency	
<i>mens</i> 'human being'	52
<i>sterveling</i> 'mortal'	50
<i>euro</i> 'euro'	40
<i>centimeter</i> 'centimetre'	34
<i>dag</i> 'day'	33
<i>hond</i> 'dog'	33
<i>ziel</i> 'soul'	33
<i>ogenblik</i> 'instant'	30
<i>millimeter</i> 'millimetre'	28
<i>druppel</i> 'drop'	22

5. PRODUCTIVITY OF THE MICRO-CX

Top 10 - Type and hapax frequency

Type frequency	
<i>mens</i> 'human being'	66
<i>sterveling</i> 'mortal'	64
<i>euro</i> 'euro'	57
<i>hond</i> 'dog'	50
<i>ogenblik</i> 'instant'	49
<i>centimeter</i> 'centimetre'	48
<i>ziel</i> 'soul'	44
<i>dag</i> 'day'	43
<i>millimeter</i> 'millimetre'	41
<i>flikker</i> 'fag'	40

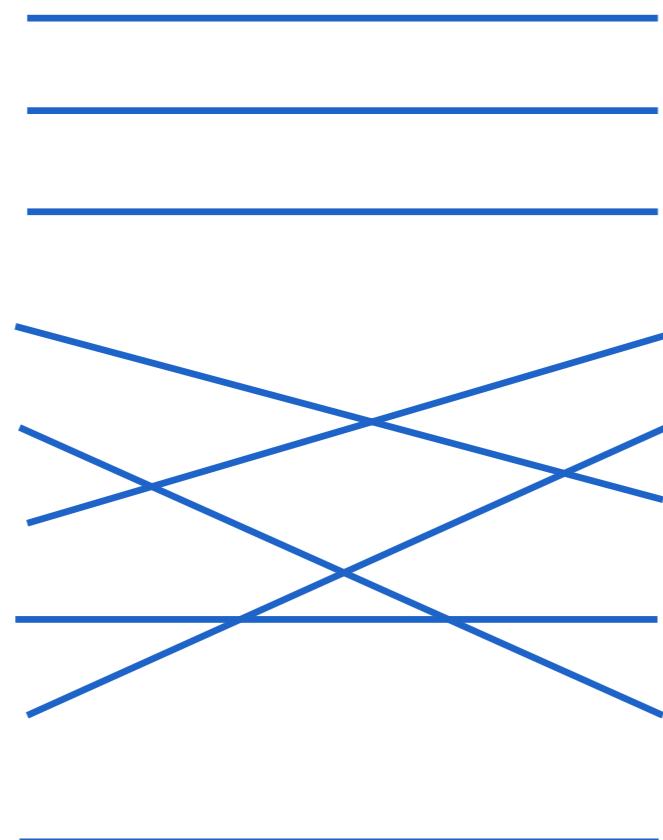
Hapax frequency	
<i>mens</i> 'human being'	52
<i>sterveling</i> 'mortal'	50
<i>euro</i> 'euro'	40
<i>centimeter</i> 'centimetre'	34
<i>dag</i> 'day'	33
<i>hond</i> 'dog'	33
<i>ziel</i> 'soul'	33
<i>ogenblik</i> 'instant'	30
<i>millimeter</i> 'millimetre'	28
<i>druppel</i> 'drop'	22

5. PRODUCTIVITY OF THE MICRO-CX

Top 10 - Type and hapax frequency

Type frequency	
<i>mens</i> 'human being'	66
<i>sterveling</i> 'mortal'	64
<i>euro</i> 'euro'	57
<i>hond</i> 'dog'	50
<i>ogenblik</i> 'instant'	49
<i>centimeter</i> 'centimetre'	48
<i>ziel</i> 'soul'	44
<i>dag</i> 'day'	43
<i>millimeter</i> 'millimetre'	41
<i>flikker</i> 'fag'	40

Hapax frequency	
<i>mens</i> 'human being'	52
<i>sterveling</i> 'mortal'	50
<i>euro</i> 'euro'	40
<i>centimeter</i> 'centimetre'	34
<i>dag</i> 'day'	33
<i>hond</i> 'dog'	33
<i>ziel</i> 'soul'	33
<i>ogenblik</i> 'instant'	30
<i>millimeter</i> 'millimetre'	28
<i>druppel</i> 'drop'	22



Next:
semantic
structuring
of the
predicates

5. PRODUCTIVITY OF THE MICRO-CX

Top 10 - Type and hapax frequency + cluster analysis

Type frequency		
<i>mens</i> 'human being'	4_PEOPLE	66
<i>sterveling</i> 'mortal'	4_PEOPLE	64
<i>euro</i> 'euro'	5_MONEY	57
<i>hond</i> 'dog'	4_PEOPLE	50
<i>ogenblik</i> 'instant'	1_TIME	49
<i>centimeter</i> 'centimetre'	2_DISTANCE	48
<i>ziel</i> 'soul'	4_PEOPLE	44
<i>dag</i> 'day'	1_TIME	43
<i>millimeter</i> 'millimetre'	2_DISTANCE	41
<i>flikker</i> 'fag'	3_TABOO	40

Hapax frequency		
<i>mens</i> 'human being'	4_PEOPLE	52
<i>sterveling</i> 'mortal'	4_PEOPLE	50
<i>euro</i> 'euro'	5_MONEY	40
<i>centimeter</i> 'centimetre'	2_DISTANCE	34
<i>dag</i> 'day'	1_TIME	33
<i>hond</i> 'dog'	4_PEOPLE	33
<i>ziel</i> 'soul'	4_PEOPLE	33
<i>ogenblik</i> 'instant'	1_TIME	30
<i>millimeter</i> 'millimetre'	2_DISTANCE	28
<i>druppel</i> 'drop'	6_OTHER	22

5. PRODUCTIVITY OF THE MICRO-CX

Correlations between the productivity measures
(based on the minimizers with 100 tokens)

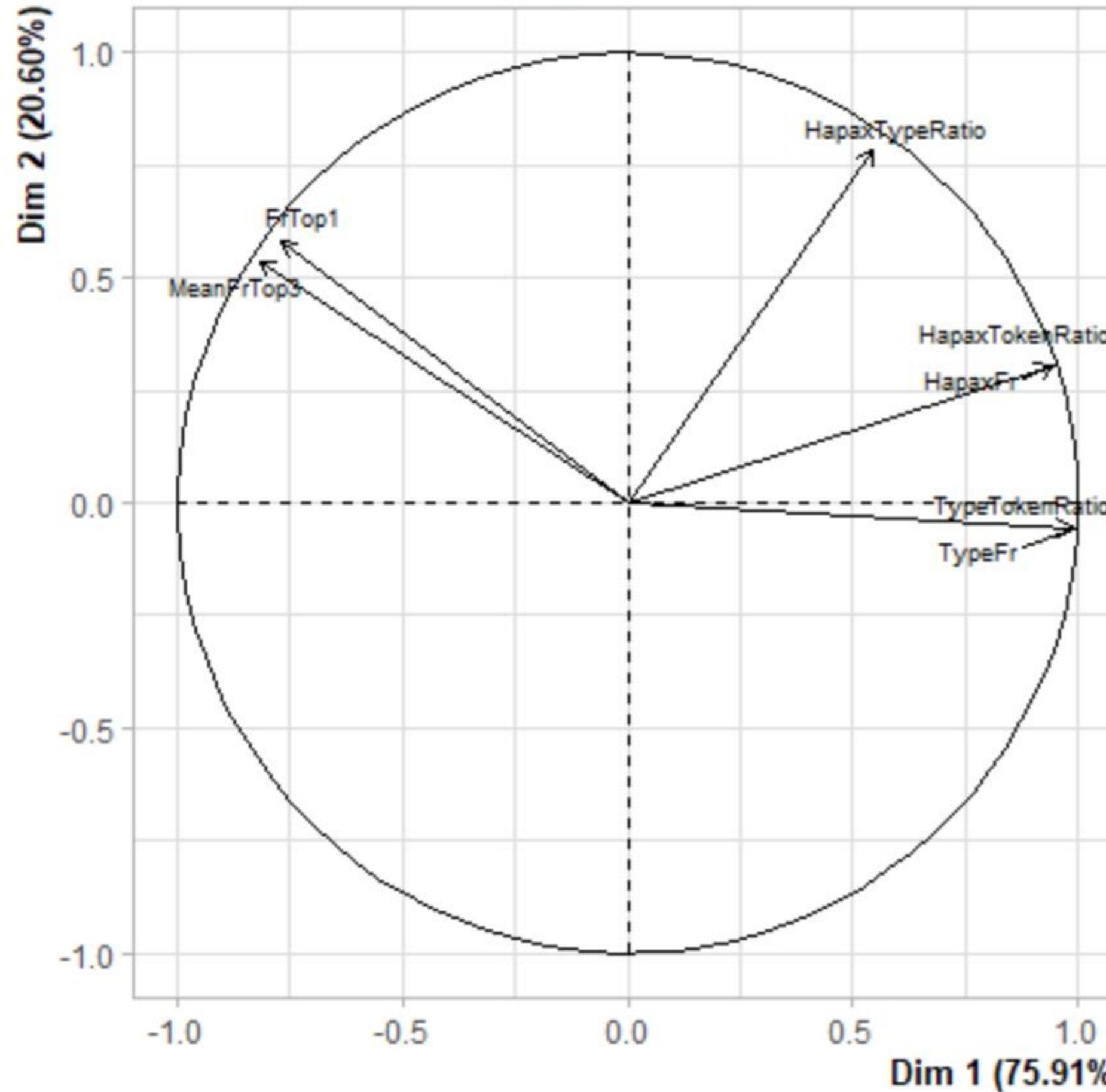
	Extrapol. token freq	Freq top 1	Mean freq top 3	Type freq	Hapax freq	Hapax type ratio
Extrapol. token freq	1	-0,1	-0,1	0,11	0,12	0,11
Freq top 1	-0,1	1	0,94	-0,77	-0,53	-0,02
Mean freq top 3	-0,1	0,94	1	-0,83	-0,6	-0,06
Type freq	0,11	-0,77	-0,83	1	0,93	0,46
Hapax freq	0,12	-0,53	-0,6	0,93	1	0,73
Hapax type ratio	0,11	-0,02	-0,06	0,46	0,73	1

5. PRODUCTIVITY OF THE MICRO-CX

Correlations between the productivity measures
(based on the minimizers with 100 tokens)

	Extrapol. token freq	Freq top 1	Mean freq top 3	Type freq	Hapax freq	Hapax type ratio
Extrapol. token freq	1	-0,1	-0,1	0,11	0,12	0,11
Freq top 1	-0,1	1	0,94	-0,77	-0,53	-0,02
Mean freq top 3	-0,1	0,94	1	-0,83	-0,6	-0,06
Type freq	0,11	-0,77	-0,83	1	0,93	0,46
Hapax freq	0,12	-0,53	-0,6	0,93	1	0,73
Hapax type ratio	0,11	-0,02	-0,06	0,46	0,73	1

PCA graph of variables

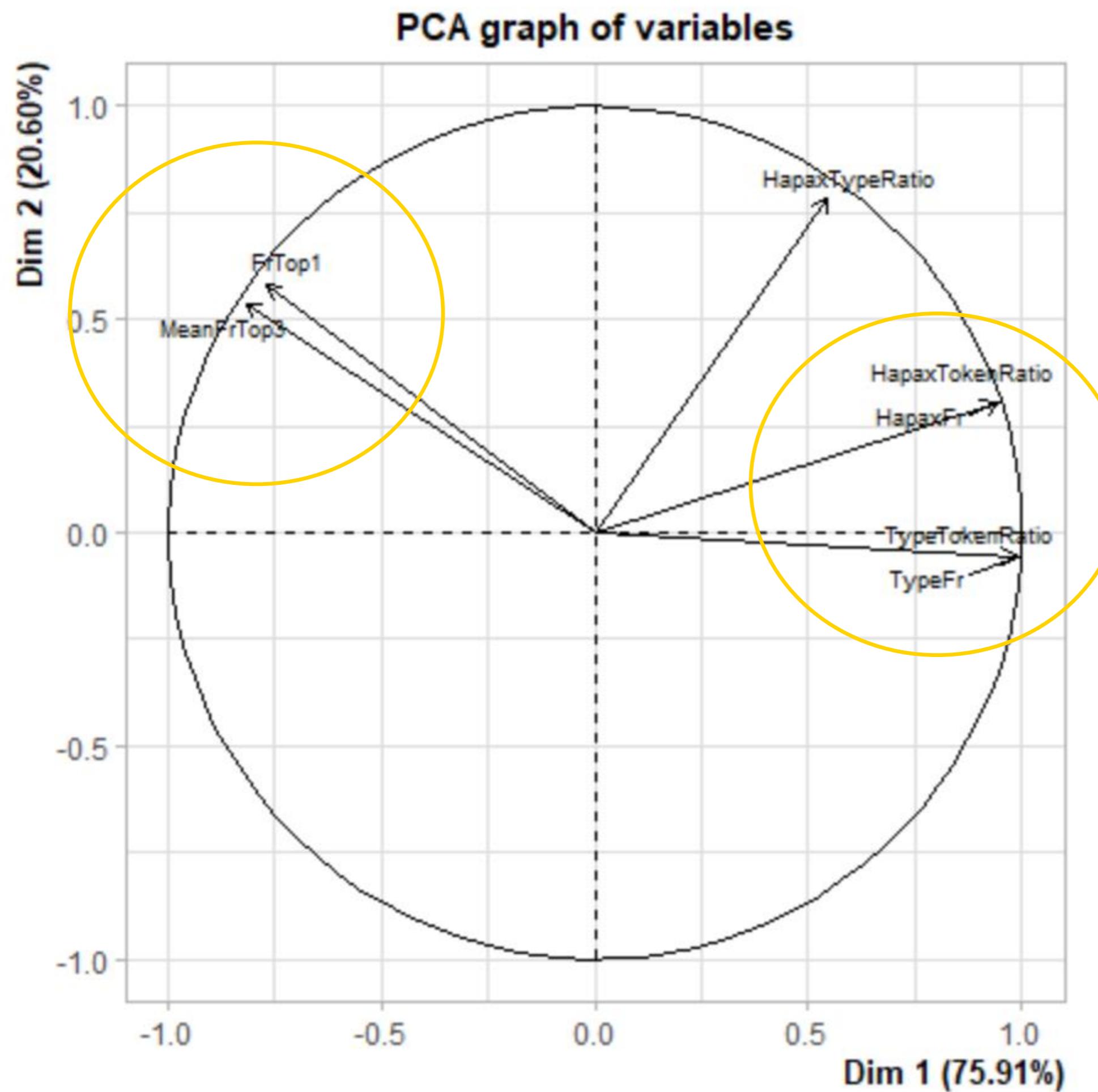


Principal Component Analysis

Allows to reorient the data so that the first few dimensions or principal components account for as much of the available information as possible

Based on the minimizers with 100 tokens

(Zeldes 2012; Van Wettere 2018)



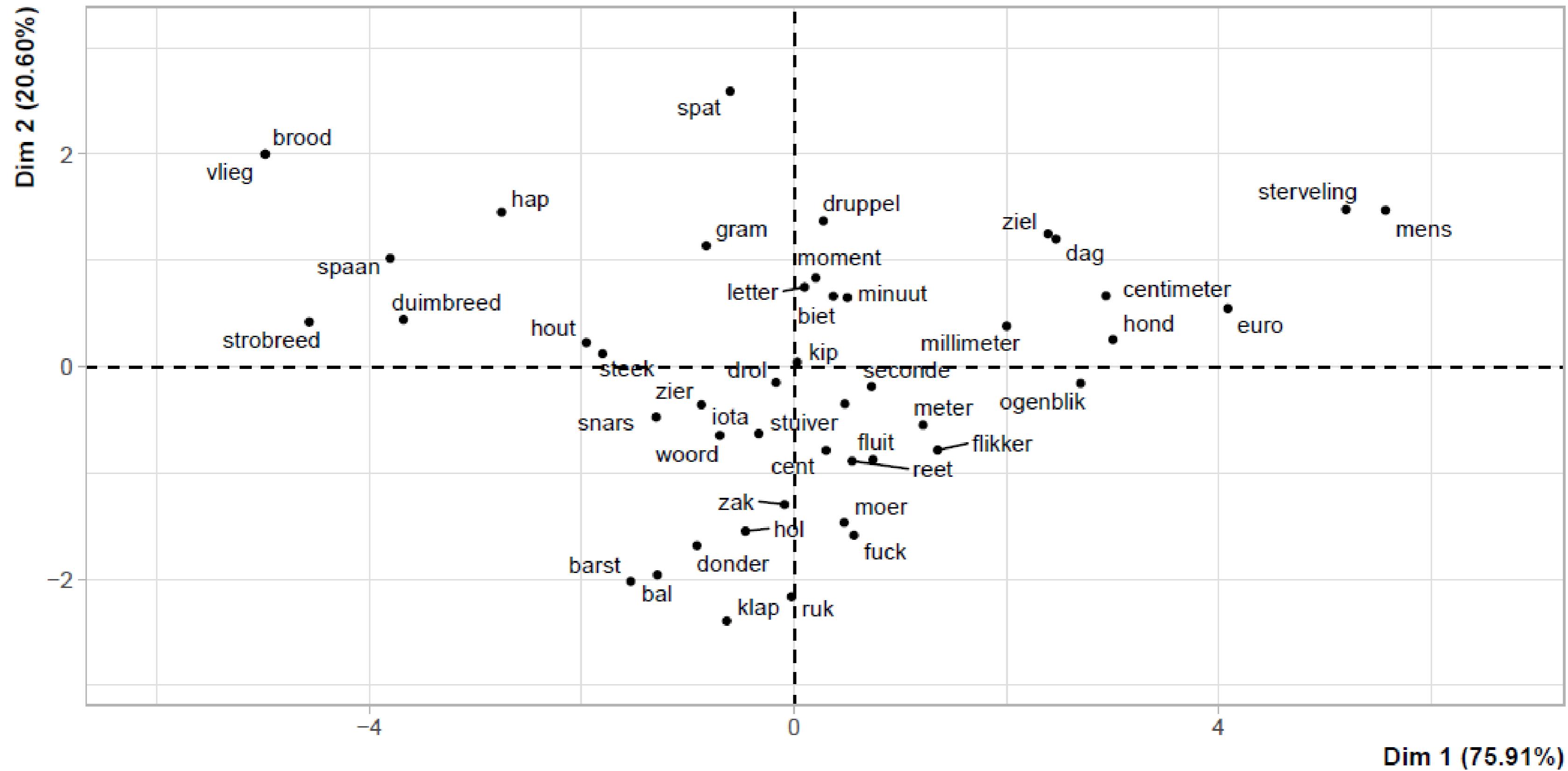
Principal Component Analysis

Allows to reorient the data so that the first few dimensions or principal components account for as much of the available information as possible

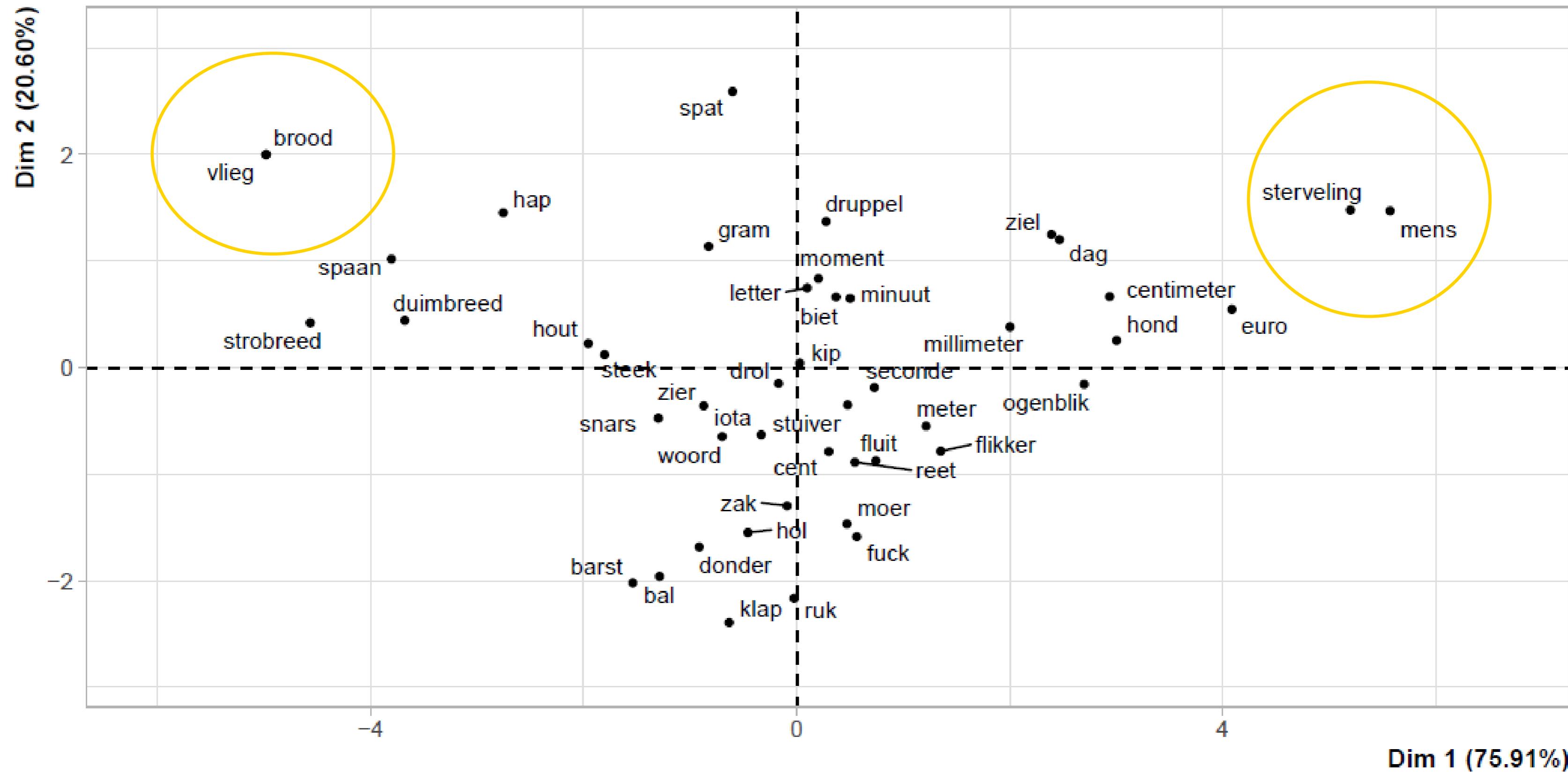
Based on the minimizers with 100 tokens

(Zeldes 2012; Van Wettere 2018)

PCA graph of individuals



PCA graph of individuals



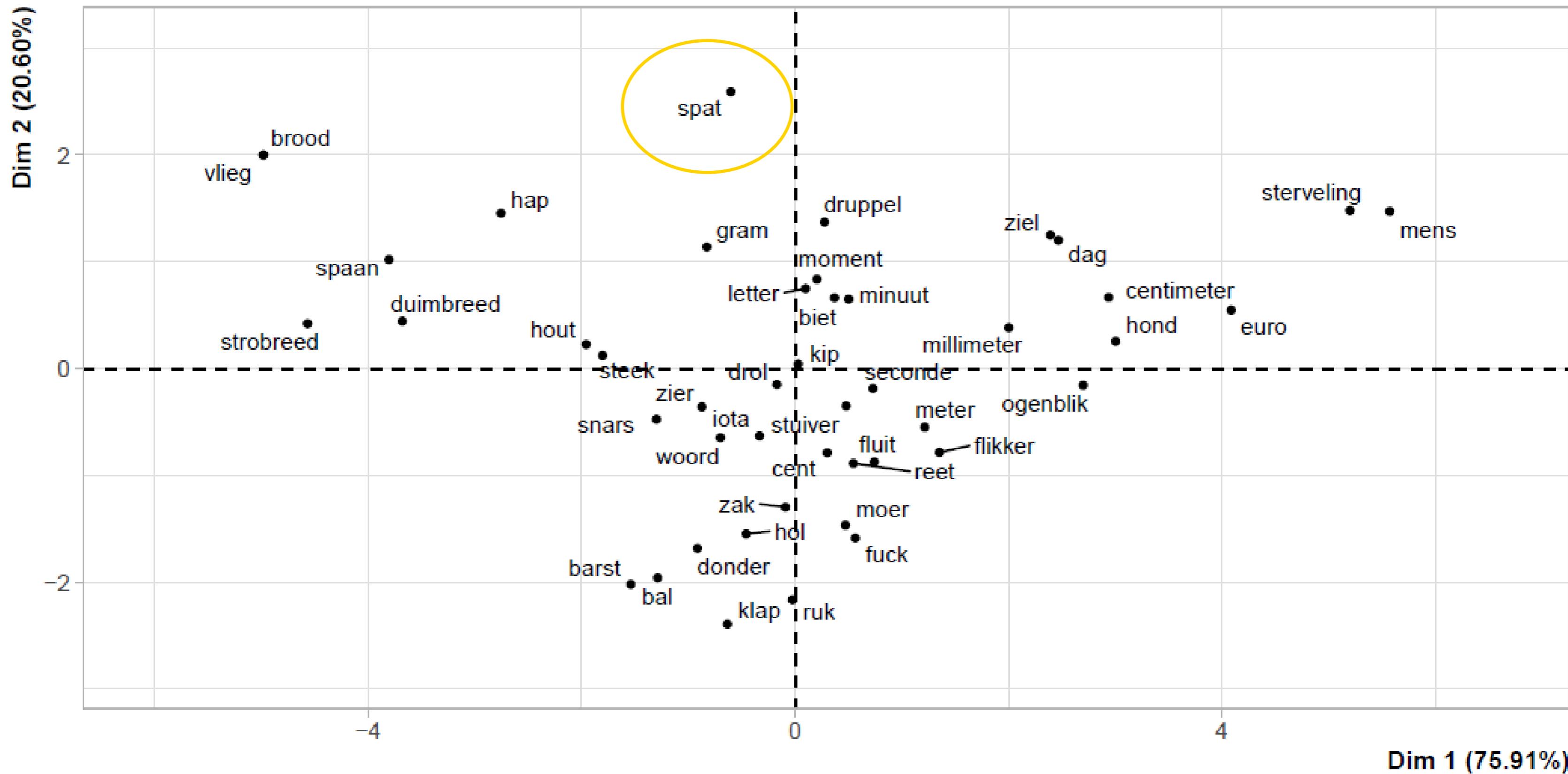
5. PRODUCTIVITY OF THE MICRO-CX

- 👉 The higher the type frequency and hapax frequency: the more productive
- 👉 The token frequency of the predicate can detract from productivity
“The logic behind this assumption is that highly entrenched tokens do not contribute to schematization” (Barðdal 2008: 29; Van Wettere 2018: 610, De Smet 2020)

5. PRODUCTIVITY OF THE MICRO-CX

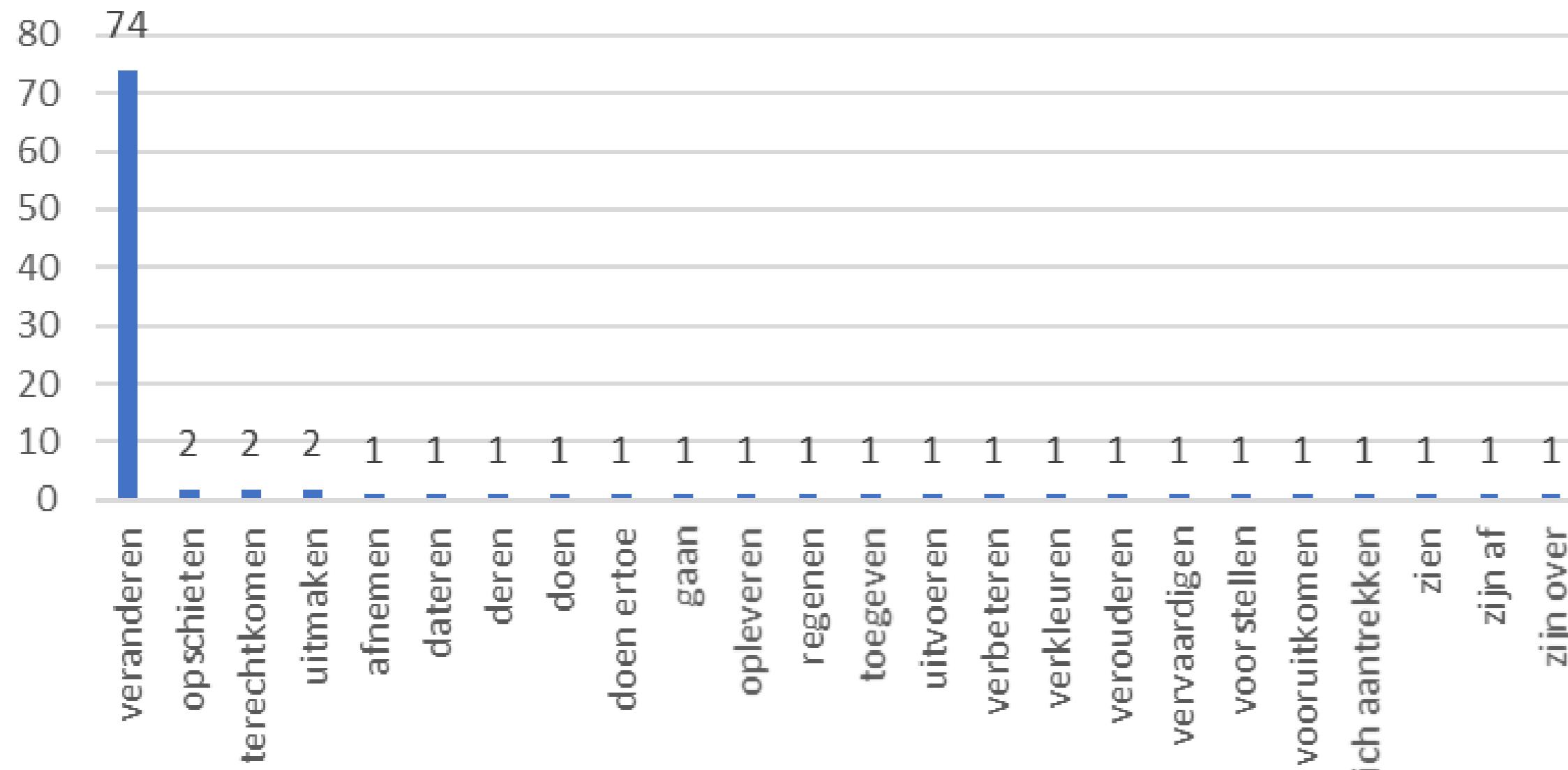
- 👉 The higher the type frequency and hapax frequency: the more productive
 - 👉 The token frequency of the predicate can detract from productivity
“The logic behind this assumption is that highly entrenched tokens do not contribute to schematization” (Barðdal 2008: 29; Van Wettere 2018: 610; De Smet 2020)
- BUT: “I argue that **high token frequency also contributes to productivity**, although only at the lower end of the productivity cline, which involves analogy, as high token frequency makes individual lexical items more entrenched and thus more suitable as models for **analogical extensions**.” (Barðdal 2008: 34)

PCA graph of individuals



5. PRODUCTIVITY OF THE MICRO-CX

Token frequency predicates - *spat/spatje*



Type frequency = 24
Hapax frequency = 20

OVERVIEW

1. The minimizing construction
2. Productivity
3. Methodology
4. Productivity at the macro-level
5. Productivity of the micro-cx
6. Relations between the two slots
7. Conclusion

6. RELATIONS BETWEEN THE TWO SLOTS

In my dataset of
6224 tokens:

2195
minimizer-
predicate
combinations

1395
hapaxes
(combinations that
only occur once in
the dataset)

6. RELATIONS BETWEEN THE TWO SLOTS

Covarying collexeme analysis				
Minimizer – frequency in the cx	Predicate – frequency in the cx	Observed frequency	Expected frequency	Coll. strength
(geen) vlieg 'fly' – 100	<i>kwaad doen</i> 'do wrong' – 107	99	1,72	205,79
(geen) strobreed 'strawbreadth' – 100	<i>in de weg leggen</i> 'to put in the way' – 113	97	1,82	191,46
(geen) spaan 'chip' – 100	<i>heel laten</i> 'leave intact' – 95	87	1,53	170,57
(geen) vin 'fin' – 84	<i>verroeren</i> 'to move' – 107	83	1,44	164,45
(geen droog) brood 'bread' – 100	<i>verdienen</i> 'to earn' – 214	99	3,44	154,41
(geen) hap 'bite' – 100	<i>door de keel krijgen</i> 'to get it down the throat/to eat' – 78	74	1,25	143,06
(met geen) vinger 'finger' – 65	<i>aanraken</i> 'to touch' – 58	57	0,61	128,08
(geen) duimbreed 'inch' – 100	<i>toegeven</i> 'to give in' – 121	76	1,94	120,49
(geen) spat 'splash/drop' – 100	<i>veranderen</i> 'to change' – 191	74	3,07	95,27
(geen) druppel 'drop' – 100	<i>drinken</i> 'to drink' – 59	49	0,95	83,28

6. RELATIONS BETWEEN THE TWO SLOTS

↔ Attraction in both directions

“bidirectional dependency” (Desagulier 2018: 11)

Covarying collexeme analysis			
Minimizer – frequency in the cx	Predicate – frequency in the cx	Delta P (word 1 to word 2)	Delta P (word 2 to word 1)
(geen) vlieg ‘fly’ – 100	<i>kwaad doen</i> ‘do wrong’ – 107	0.9887	0.9251

6. RELATIONS BETWEEN THE TWO SLOTS

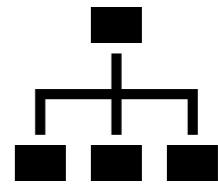
← “One word is a better cue of the other than vice versa”
“directional dependency” (Desagulier 2018: 11)

Covarying collexeme analysis			
Minimizer – frequency in the cx	Predicate – frequency in the cx	Delta P (word 1 to word 2)	Delta P (word 2 to word 1)
(geen) druppel ‘drop’ – 100	<i>drunken</i> ‘to drink’ – 59	0.4884	0.8222

OVERVIEW

1. The minimizing construction
2. Productivity
3. Methodology
4. Productivity at the macro-level
5. Productivity of the micro-cx
6. Relations between the two slots
7. Conclusion

7. CONCLUSION



At the macro-level:

- high type and hapax frequency of the minimizing slot
(attested and potential productivity)
- the minimizers are recruited from different semantic categories

At the micro-level:

- varying productivity of the micro-constructions
- correlations between the different productivity measures:
 - the more types, the more hapaxes
 - very frequent lexicalisations, highly correlated items reduce productivity → productivity impeded by collostruction strength?

Margot Van den Heede
mcvdnhee.vandenheede@ugent.be

Peter Lauwers
peter.lauwers@ugent.be

Part of the GOA project (BOF UGent)
Language Productivity at Work
<https://www.languageproductivity.ugent.be/>

Supervisors: P. Lauwers (PI), J. Barðdal, R. Enghels, T. Colleman,
R. Hartsuiker, M. Taverniers, L. De Cuypere, A. Ghyselen



Thank you for
your attention!

REFERENCES



- Barðdal, J. 2008. *Productivity: Evidence from Case and Argument Structure in Icelandic*. Amsterdam: Benjamins.
- Desagulier, G. 2016. A lesson from associative learning: asymmetry and productivity in multiple-slot constructions. *Corpus Linguistics and Linguistic Theory* 12(2), 173-219.
- De Smet, H. 2020 (aop). What predicts productivity: From theory to individuals. *Cognitive Linguistics*.
- Divjak, D., and N. Fieller. 2014. Cluster Analysis. Finding structure in linguistic data. In D. Glynn and J. Robinsion (Ed.), *Corpus methods for semantics: Quantitative studies in polysemy and synonymy*, 405–41.
- Gries, S. Th. 2014. Coll.analysis 3.5. A script for R to compute perform collostructional analyses.
- Perek, F. 2016. Recent change in the productivity and schematicity of the way-construction: a distributional semantic analysis. *Corpus Linguistics and Linguistic Theory* 14(1), 65-97.
- Van Wettere, N. 2018. *Copularité et productivité: une analyse contrastive des verbes attributifs issus de verbes de mouvement en français et en néerlandais*. .
- Zeldes, Amir. 2012. *Productivity in argument selection: From morphology to syntax*. Berlin: De Gruyter Mouton.

Corpus:

- Jakubíček, M., A. Kilgarriff, V. Kovář, P. Rychlý, & V. Suchomel. 2013. The TenTen corpus family. In *7th International Corpus Linguistics Conference CL*, Lancaster, 125-127.