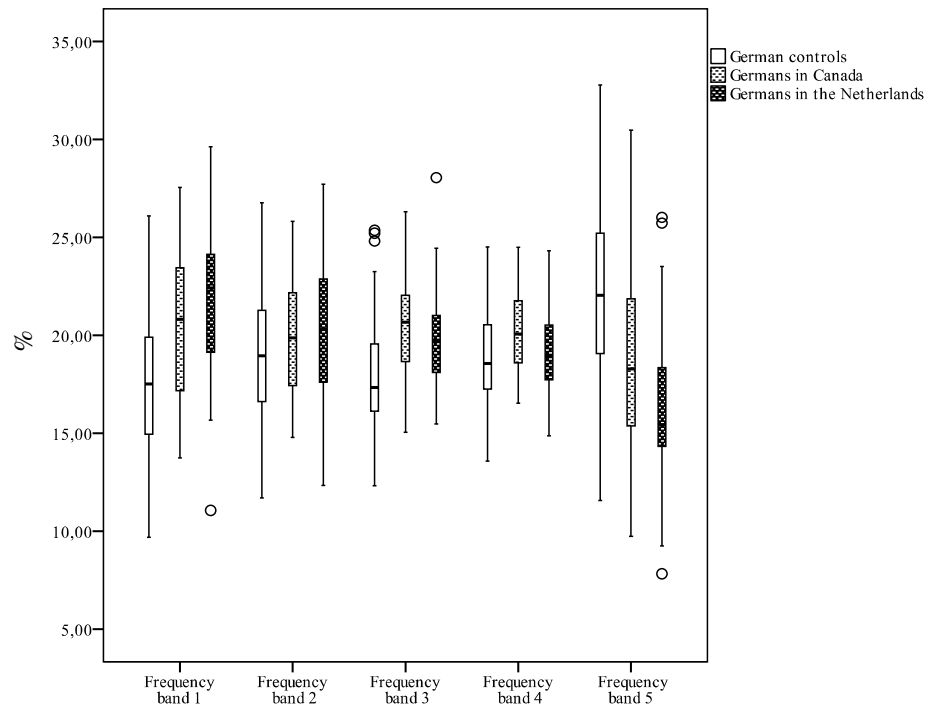


Supplementary online material

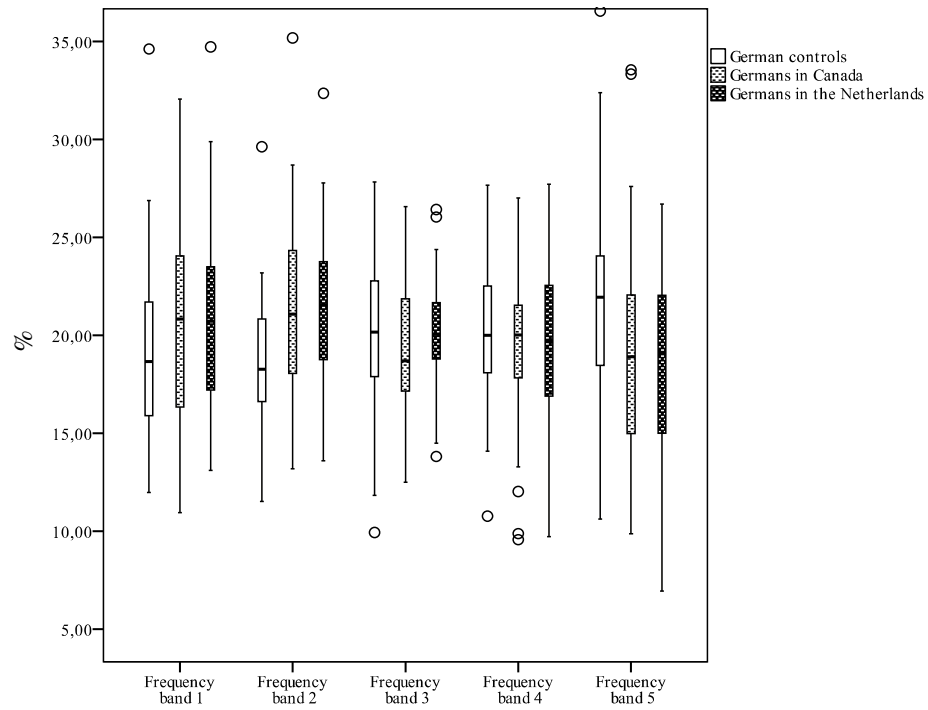
Title: Lexical access and lexical diversity in first language attrition\*

Monika S Schmid<sup>1</sup> and Scott Jarvis<sup>2</sup>

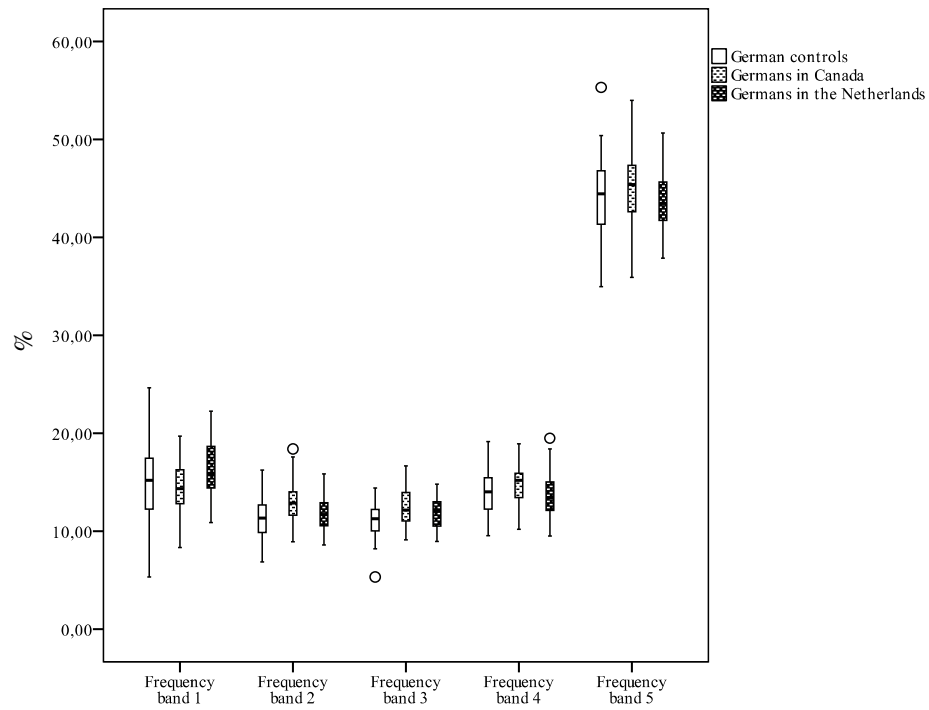
<sup>1</sup>University of Essex/University of Groningen, <sup>2</sup>Ohio University



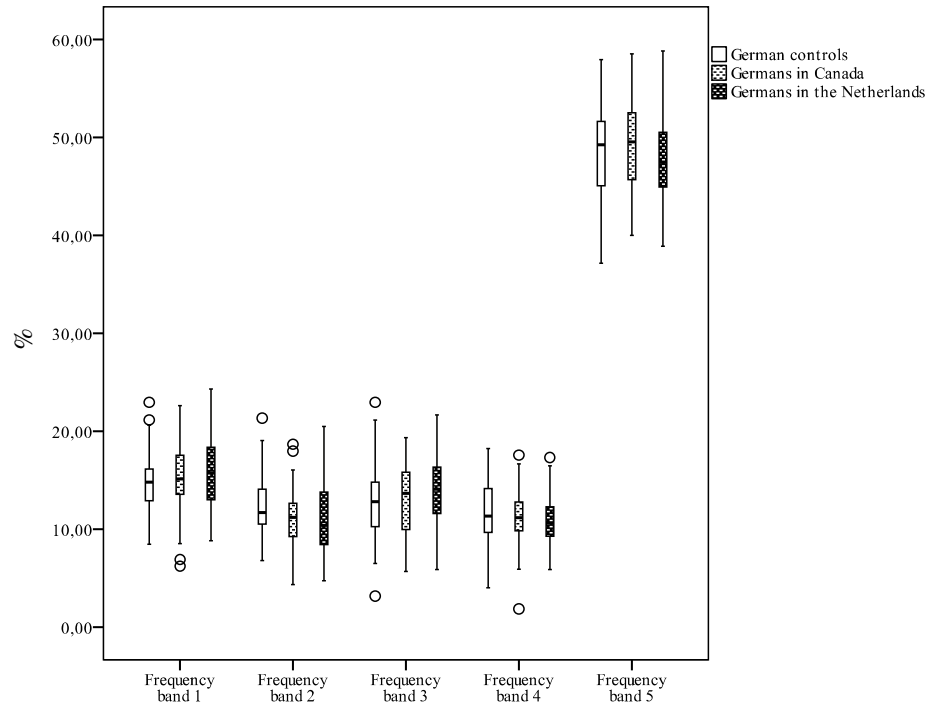
Supplementary Fig. 1a: Proportion of lemmatized tokens in five frequency bands across groups in interview corpus



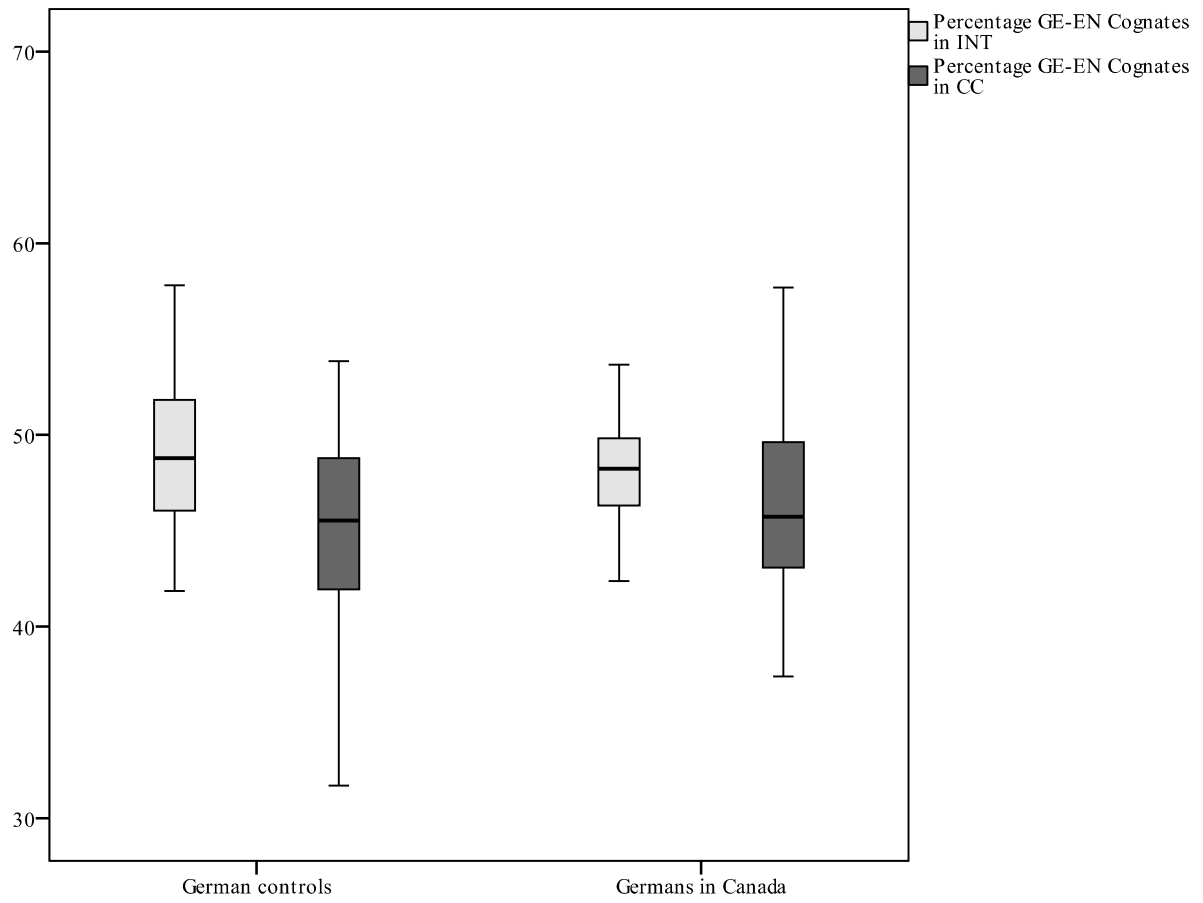
Supplementary Fig. 1b: Proportion of lemmatized tokens in five frequency bands across groups in film retelling corpus



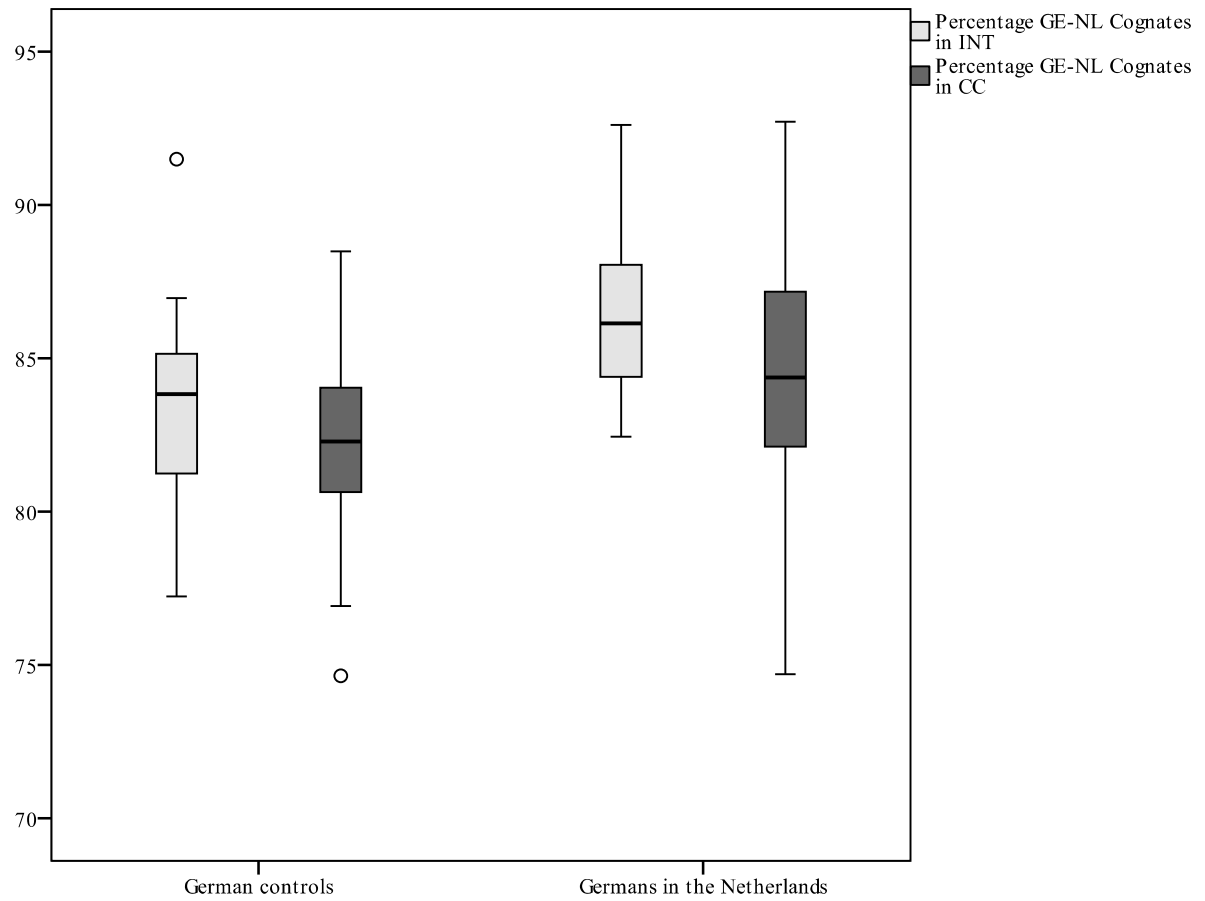
Supplementary Fig. 2a: Proportion of lemmatized tokens in interview data across five frequency bands in COSMAS II corpus



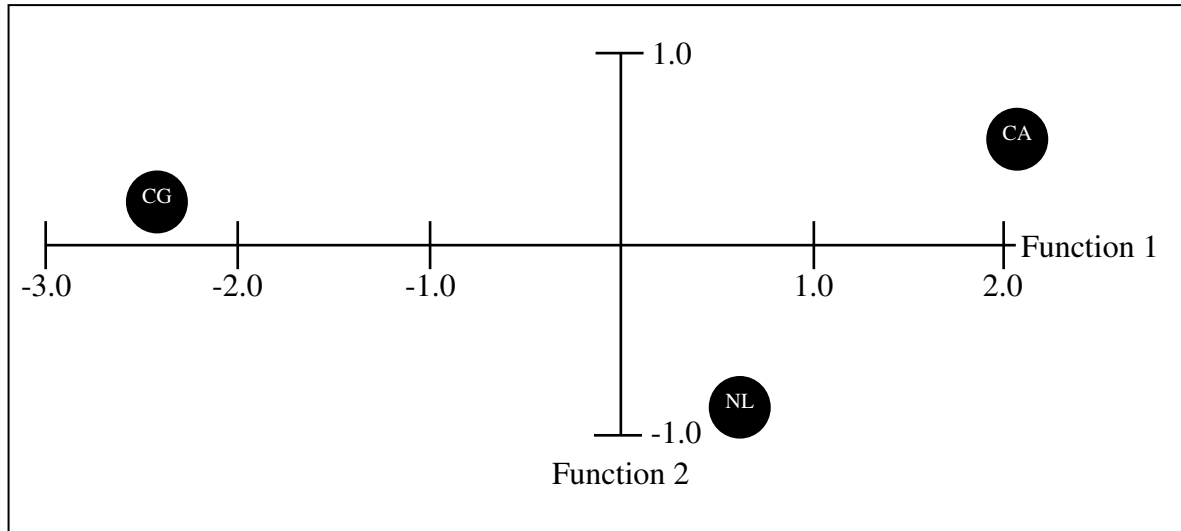
Supplementary Fig. 2b: Proportion of lemmatized tokens in film retelling data across five frequency bands in COSMAS II corpus



Supplementary Fig. 3a: Proportion of GE-EN cognates in the data from controls and Germans in Canada

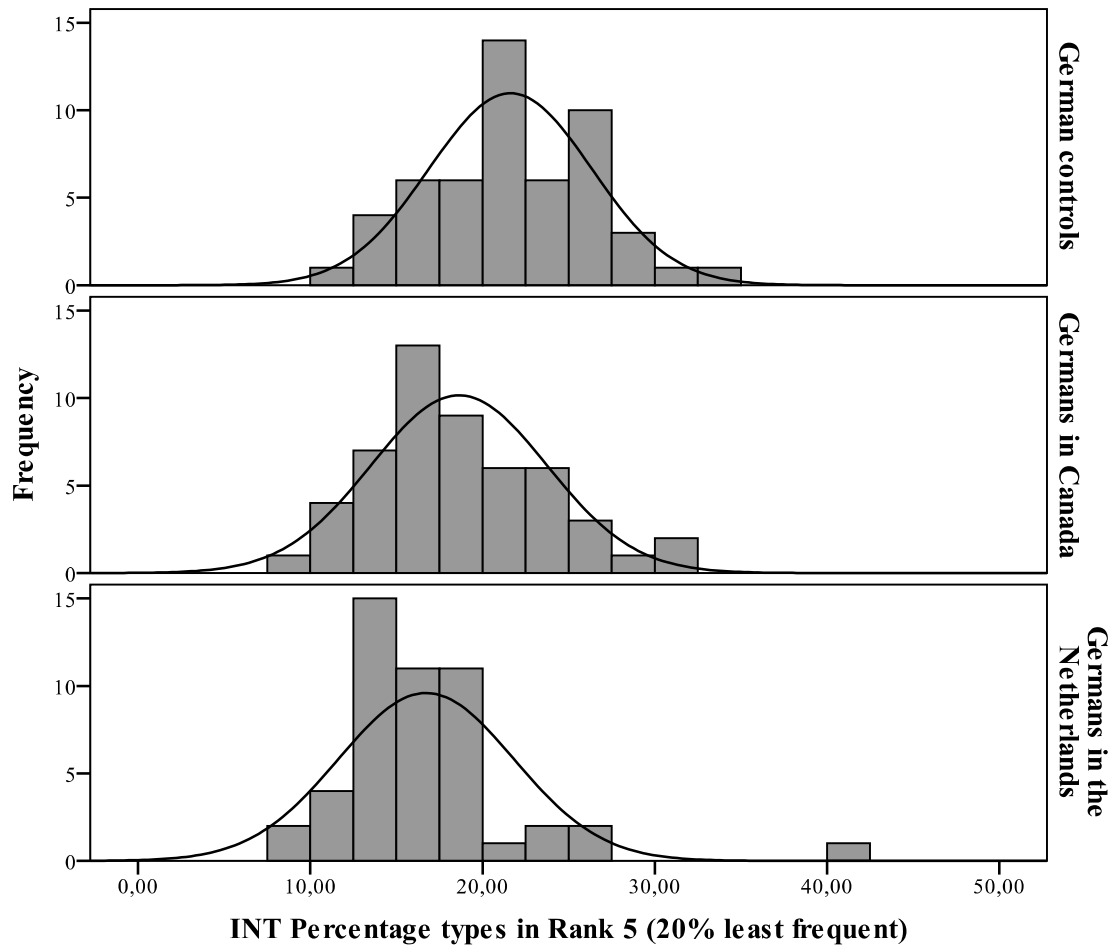


Supplementary Fig. 3b: Proportion of GE-NL cognates in the data from controls and Germans in the Netherlands

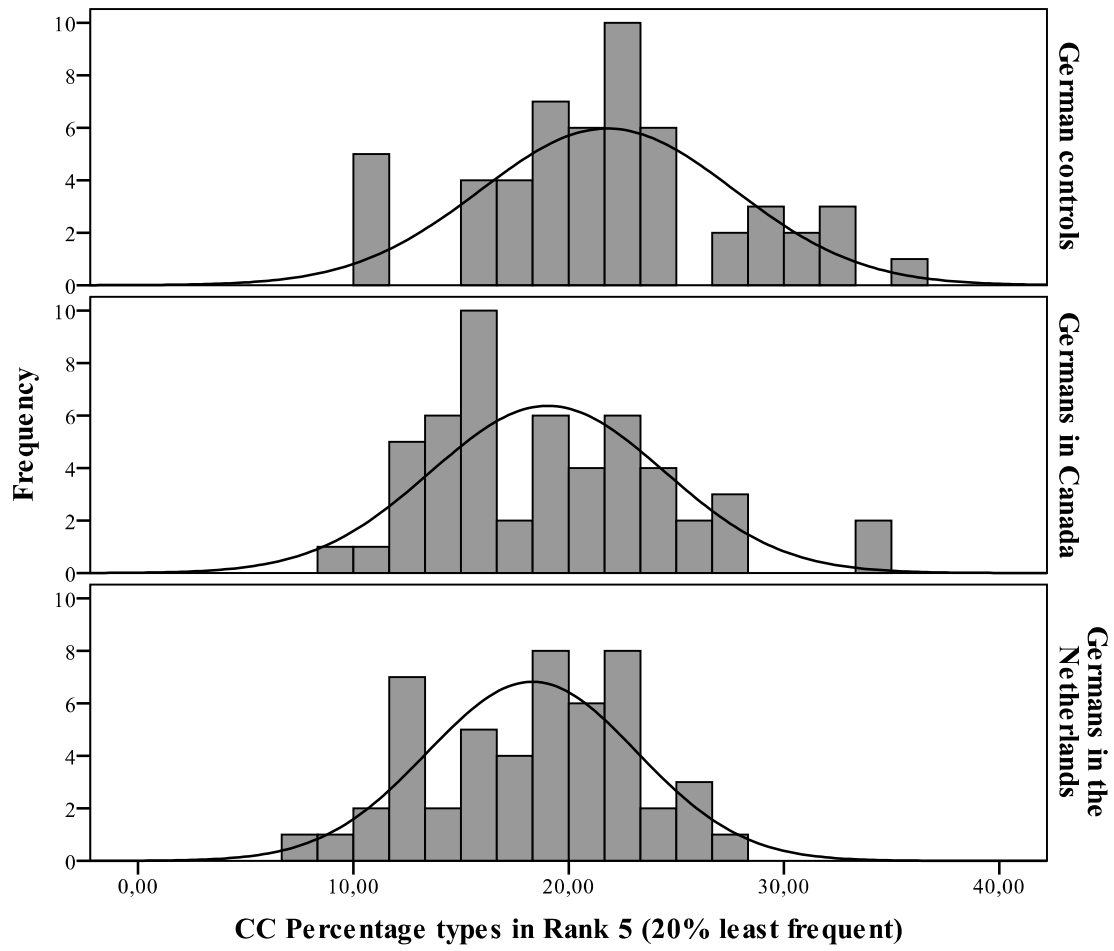


Supplementary Figure 4: A graphic representation of the two functions determined by the Discriminant Analysis





Supplementary Fig. 5a: Histogram of percentage of low-frequency items in interview data



Supplementary Fig. 5b: Histogram of percentage of low-frequency items in film retelling data

## SUPPLEMENTARY ONLINE MATERIAL

Supplementary Table 1: Predictor variables relating to L1 use and attitudes

		German speakers in Canada	German speakers in the Netherlands
Total use	Mean	.49	.48
	Maximum	.88	.98
	Minimum	.04	.11
Affiliation	Mean	.59	.66
	Maximum	1.00	1.00
	Minimum	.08	.17
L1 for professional purposes	Mean	.23	.25
	Maximum	1.00	1.00
	Minimum	.00	.00

## SUPPLEMENTARY ONLINE MATERIAL

Supplementary Table 2: Distribution of sociolinguistic interview (INT) data across groups

	German speakers in Germany	German speakers in Canada	German speakers in the Netherlands
n	52	52	49
Total tokens	88,433	170,068	120,239
Mean	1700.63	3270.54	2453.86
Stdev	1248.26	1251.29	603.79
Maximum	8202	7239	4339
Minimum	378	948	1010

## SUPPLEMENTARY ONLINE MATERIAL

Supplementary Table 3: Distribution of Charlie Chaplin film retelling (CC) data across groups

	German speakers in Germany	German speakers in Canada	German speakers in the Netherlands
n	53	52	50
Total tokens	36791	37279	36200
Mean	694.17	716.04	724.00
Stdev	342.25	241.28	275.34
Maximum	2256	1579	1292
Minimum	176	348	124

## SUPPLEMENTARY ONLINE MATERIAL

Supplementary Table 4: Variables included in the model (results from the final step of the stepwise DA)

Variables	Tolerance	Wilks' lambda	F	p
INT: Percentage of items in frequency band 1	.133	.176	14.248	<.001
INT: Percentage of items in COSMAS II frequency band 1	.377	.182	17.020	<.001
CC: words per minute	.872	.160	6.629	.006
INT: Percentage of items in frequency band 3	.501	.199	24.477	<.001
INT: Percentage of items in frequency band 4	.555	.188	19.724	<.001
INT: Effective types	.295	.179	15.384	<.001
INT: MTLTD	.340	.157	5.623	.010
INT: Percentage of items among 50 most frequent	.105	.171	11.712	<.001
INT: Percentage of items in frequency band 5	.181	.170	11.372	<.001
INT: Average frequency of items, based on present corpus	.071	.160	6.702	.006
INT: Evenness	.381	.155	4.620	.019

## SUPPLEMENTARY ONLINE MATERIAL

Supplementary Table 5: Linear regression models for extralinguistic variables

Variable	VFTot Beta	SQDispersion Beta	SQR1pc Beta	CCR2pc Beta	Dis1_1 Beta	Dis2_2 Beta
Age						
Age at emigration	-.081 t = -.694 p = .489	-.143 t = -1.131 p = .261	.008 t = .063 p = .950	.029 t = .235 p = .815	-.247 t = -1.892 p = .062	-.084 t = -.638 p = .526
Length of residence	-.106 t = -.949 p = .345	.137 t = 1.126 p = .263	-.098 t = -.802 p = .425	.085 t = .719 p = .474	.034 t = .267 p = .790	.036 t = .279 p = .781
Total use	.149 t = 1.283 p = .203	.159 t = 1.253 p = .214	.054 t = .416 p = .678	-.264 t = -2.171 p = .033	.136 t = 1.036 p = .303	-.131 t = -.990 p = .325
L1 at work	.204 t = 2.001 p = .048	.034 t = .306 p = .760	-.009 t = -.082 p = .935	-.165 t = -1.554 p = .124	-.070 t = -.626 p = .533	.087 t = .770 p = .443
Affiliation	.016 t = .142 p = .888	-.047 t = -.395 p = .694	-.071 t = -.593 p = .555	.148 t = 1.279 p = .204	-.015 t = -.122 p = .903	-.055 t = -.448 p = .655
C-Test L2	.238 t = 2.249 p = .027	.128 t = 1.111 p = .269	-.172 t = -1.470 p = .145	-.061 t = -.549 p = .584	-.078 t = -.656 p = .514	-.027 t = -.229 p = .819
	R <sup>2</sup> = .170 F (6, 93) = 3.166 p = .007	R <sup>2</sup> = .073 F (6, 89) = 1.159 p = .335	R <sup>2</sup> = .049 F (6, 89) = .762 p = .602	R <sup>2</sup> = .107 F (6, 90) = 1.799 p = .108	R <sup>2</sup> = .074 F (6, 83) = 1.109 p = .364	R <sup>2</sup> = .055 F (6, 83) = .802 p = .571