SUPPLEMENTARY FILE FOR

APPENDIX 1 : TEST ITEMS

#	item type	item	translation	gender	elicited possessive
1	practice item	fly	plane	N	mitt
2	practice item	tog	train	N	mitt
3	practice item	flagg	flag	N	ditt
4	practice item	glass	glass	N	ditt
1	test item	kake	cake	F	mi
2	test item	krone	crown	F	mi
3	test item	frosk	frog	M	min
4	test item	kopp	mug	M	min
5	test item	geit	goat	F	di
6	test item	mus	mouse	F	di
7	test item	slange	snake	M	min
8	test item	kjole	dress	M	min
9	test item	måne	moon	M	din
10	test item	stige	ladder	M	din
11	test item	ekorn	squirrel	N	ditt
12	test item	eple	apple	N	ditt
13	test item	hest	horse	M	din
14	test item	traktor	tractor	M	din
15	test item	lue	beanie	F	mi
16	test item	klokke	clock	F	mi
17	test item	hus	house	N	mitt
18	test item	bord	table	N	mitt
19	test item	saks	scissors [sg.]	F	di
20	test item	vogn	cart	F	di

Table 13: All items from task 3 in the order of appearance.

APPENDIX 2 : STATISTICAL MODELS

Prenominal possessives

7-BC-model: Binomial mixed effects model for the high-schoolers (B-group) and adults (C-group) in all seven locations (glmer-function in R).

```
Generalized linear mixed model fit by maximum likelihood (Laplace
Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: Fem ~ Sted * AgeGroup + (1 | Word) + (1 | subject)
   Data: subset(GenVAC2, Condition == "PrePoss")
Control: glmerControl(optimizer = "bobyqa", optCtrl = list(maxfun = 2e+06))

     AIC      BIC   logLik deviance df.resid
  1076.5   1168.3   -522.2   1044.5     2279

Scaled residuals:
    Min      1Q  Median      3Q     Max
-3.8630 -0.0310  0.0134  0.0741  4.6276

Random effects:
 Groups  Name        Variance Std.Dev.
 subject (Intercept) 22.0744  4.6983
 Word    (Intercept)  0.4292  0.6551
Number of obs: 2295, groups:  subject, 287; Word, 8

Fixed effects:
                            Estimate Std. Error z value Pr(>|z|)
(Intercept)               -6.582e-02  1.155e+00  -0.057  0.95454
StedEgersund               3.621e+00  1.598e+00   2.265  0.02349 *
StedKristiansand          -7.492e+00  2.597e+00  -2.885  0.00392 **
StedLyngdal               -3.400e+00  1.663e+00  -2.044  0.04096 *
StedMoiRana                6.453e+00  2.022e+00   3.191  0.00142 **
StedStavanger             -8.074e+00  3.048e+00  -2.649  0.00807 **
StedTrondheim             -6.979e+00  2.665e+00  -2.619  0.00883 **
AgeGroupC                  8.805e+00  3.829e+00   2.300  0.02146 *
StedEgersund:AgeGroupC    -4.786e+00  4.459e+00  -1.073  0.28309
StedKristiansand:AgeGroupC 3.971e+00  4.670e+00   0.850  0.39514
StedLyngdal:AgeGroupC      2.561e+00  4.813e+00   0.532  0.59464
StedMoiRana:AgeGroupC      1.230e+01  6.821e+04   0.000  0.99986
StedStavanger:AgeGroupC   -5.961e-01  4.867e+00  -0.122  0.90252
StedTrondheim:AgeGroupC   -2.095e+00  4.643e+00  -0.451  0.65187
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

3-ABC-model: Binomial mixed effects model for the three locations with all age groups (children, high-schoolers, adults, i.e., group A, B, and C) (glmer-function in R).

```
Generalized linear mixed model fit by maximum likelihood (Laplace
Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: Fem ~ Sted * AgeGroup + (1 | Word) + (1 | subject)
   Data: subset(GenVAC3, Condition == "PrePoss")
Control: glmerControl(optimizer = "bobyqa", optCtrl = list(maxfun = 2e+06))
```

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     AIC      BIC   logLik deviance df.resid
   730.7    788.8   -354.4    708.7     1443

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.5766 -0.0371  0.0127  0.1007  3.4775

Random effects:
 Groups  Name        Variance Std.Dev.
 subject (Intercept) 19.008   4.360
 Word    (Intercept)  1.057   1.028
Number of obs: 1454, groups:  subject, 182; Word, 8

Fixed effects:
                         Estimate Std. Error z value Pr(>|z|)
(Intercept)               -0.4656     1.2348  -0.377   0.7061
StedMoiRana                2.7389     1.7182   1.594   0.1109
StedStavanger             -6.3903     1.6331  -3.913 9.12e-05 ***
AgeGroupB                  3.9216     1.6800   2.334   0.0196 *
AgeGroupC                  8.0766     1.6691   4.839 1.31e-06 ***
StedMoiRana:AgeGroupB      0.1222     2.2691   0.054   0.9570
StedStavanger:AgeGroupB   -5.1294     2.4021  -2.135   0.0327 *
StedMoiRana:AgeGroupC     13.3037    60.3403   0.220   0.8255
StedStavanger:AgeGroupC   -1.1271     2.1000  -0.537   0.5915
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

Postnominal possessives

7-BC-model: Binomial mixed effects model for the high-schoolers (B-group) and adults (C-group) in all seven locations (glmer-function in R).

```
Generalized linear mixed model fit by maximum likelihood (Laplace
Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: Fem ~ Sted * AgeGroup + (1 | Word) + (1 | subject)
   Data: subset(GenVAC2, Condition == "PostPoss")
Control: glmerControl(optimizer = "bobyqa", optCtrl = list(maxfun = 2e+06))

     AIC      BIC   logLik deviance df.resid
   304.6    396.4   -136.3    272.6     2279

Scaled residuals:
   Min      1Q Median      3Q     Max
-3.229   0.000  0.000  0.003  2.470

Random effects:
 Groups  Name        Variance Std.Dev.
 subject (Intercept) 135.443  11.638
 Word    (Intercept)   1.212   1.101
Number of obs: 2295, groups:  subject, 287; Word, 8

Fixed effects:
                         Estimate Std. Error z value Pr(>|z|)
(Intercept)              1.227e+01  1.096e+01   1.120   0.2629
StedEgersund             4.731e-02  1.549e+01   0.003   0.9976
StedKristiansand        -1.440e+00  1.264e+01  -0.114   0.9092
```

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StedLyngdal                   1.772e+01  2.187e+05   0.000   0.9999
StedMoiRana                  -5.002e-02  1.549e+01  -0.003   0.9974
StedStavanger                -2.025e+01  1.142e+01  -1.773   0.0762 .
StedTrondheim                -8.695e-01  1.342e+01  -0.065   0.9483
AgeGroupC                     2.310e+01  3.968e+06   0.000   1.0000
StedEgersund:AgeGroupC       -4.358e+00  3.983e+06   0.000   1.0000
StedKristiansand:AgeGroupC    1.223e+01  6.429e+06   0.000   1.0000
StedLyngdal:AgeGroupC        -1.219e+01  6.740e+06   0.000   1.0000
StedMoiRana:AgeGroupC        -5.747e+00  3.972e+06   0.000   1.0000
StedStavanger:AgeGroupC      -5.865e+00  3.968e+06   0.000   1.0000
StedTrondheim:AgeGroupC       8.636e+00  6.261e+06   0.000   1.0000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

3-ABC-model: Binomial mixed effects model for the three locations with all age groups (children, high-schoolers, adults, i.e., group A, B, and C) (glmer-function in R).

```
Generalized linear mixed model fit by maximum likelihood (Laplace
Approximation) ['glmerMod']
 Family: binomial  ( logit )
Formula: Fem ~ Sted * AgeGroup + (1 | Word) + (1 | subject)
   Data: subset(GenVAC3, Condition == "PostPoss")
Control: glmerControl(optimizer = "bobyqa", optCtrl = list(maxfun = 2e+06))

     AIC       BIC   logLik deviance df.resid
   421.4     479.5   -199.7    399.4     1443

Scaled residuals:
    Min      1Q  Median      3Q     Max
-5.6429  0.0000  0.0015  0.0053  2.8155

Random effects:
 Groups  Name        Variance Std.Dev.
 subject (Intercept) 131.19   11.454
 Word    (Intercept)   1.48    1.217
Number of obs: 1454, groups:  subject, 182; Word, 8

Fixed effects:
                        Estimate Std. Error z value Pr(>|z|)
(Intercept)               9.5580     1.7187   5.561 2.68e-08 ***
StedMoiRana               2.1879     3.3320   0.657    0.511
StedStavanger           -18.3178     2.7159  -6.745 1.53e-11 ***
AgeGroupB                 2.7862     3.8677   0.720    0.471
AgeGroupC                32.5511    71.0572   0.458    0.647
StedMoiRana:AgeGroupB    -2.2852     6.0513  -0.378    0.706
StedStavanger:AgeGroupB  -1.9973     4.4406  -0.450    0.653
StedMoiRana:AgeGroupC     0.9284   512.3375   0.002    0.999
StedStavanger:AgeGroupC -14.5230    71.0555  -0.204    0.838
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```