Supplementary Materials to

Metaphor and Gender: Are Words Associated with Source Domains Perceived in a Gendered Way?

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Appendix A: Order of stimuli presentation after randomization	pp. 2-3
Appendix B: Screenshots of the sample survey scales in Studies 1 to 3	p. 4
Appendix C: Numbers of participants split by de/selection criteria	pp. 5-6
Appendix D: Power analysis results	p. 7
Appendix E: t-tests for source domains in Studies 1-3	pp. 8-13
Appendix F: Means (and Standard Deviations) across domains (Studies 1-3)	p. 14
Appendix G: Fixed-effects & variance-covariance estimates (Studies 1-3)	pp. 15-17
Appendix H. Lists of means of perceived masculinity/femininity (Studies 1-3)	pp. 18-26

Appendix A: Order of stimuli presentation after randomization

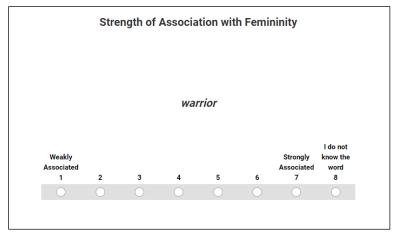
Stimuli items	
building	
warrior	
seed	
root	
direction	
boy	
sport	
framework	
game	
blossom	
championship	
combat	
plant	
road	
competition	
path	
girl	
architecture	
enemy	
medalist	
race	
construction	
destination	
battle	
team	
foundation	
cultivate	
man	
progress	
military	
buttress	
fruit	
route	
support	
war	
sprout	
journey	
woman	
	building warrior seed root direction boy sport framework game blossom championship combat plant road competition path girl architecture enemy medalist race construction destination battle team foundation cultivate man progress military buttress fruit route support war sprout journey rivalry

40	contest	
41	roof	
42	army	
43	fertilize	
44	assault	
45	wall	
46	trip	
47	weapon	
48	reap	
49	tournament	
50	lady	
51	structure	
52	skirmish	
53	travel	
54	harvest	
55	way	

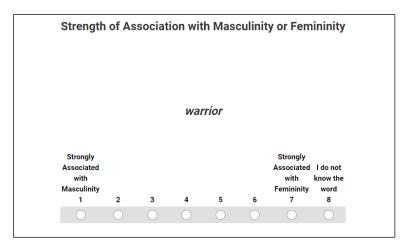
Appendix B: Screenshots of the sample survey scales in Studies 1 to 3

	Strer	ngth of A	Associa	tion with	Masc	ulinity	
			wai	rrior			
Weakly Associated 1	2	3	4	5	6	Strongly Associated 7	I do not know the word 8
	0	0	0	0	0		\circ

Screenshot of Survey 1



Screenshot of Survey 2



Screenshot of Survey 3

Appendix C: Numbers of participants split by de/selection criteria

In Survey 1, 538 participants were recruited. We then selected them based on the following criteria:

Participants who completed the entire questionnaire, 507 remained.

Participants who reported a US nationality, 507 remained.

Participants who identified as either male or female, 506 remained.

Then, out of the 506 participants, we further selected according to the following criteria:

- (a) Excluded participants who had missing values on at least one of the attention check items (man, boy, girl, lady, woman), indicating that they did not know these (standard) English words, 489 remained.
- (b) Excluded participants who had an SD < 1 on the five attention check items combined (man, boy, girl, lady, woman), indicating that they did not differentiate between explicitly male and female labels, 253 remained.
- (c) Excluded those who scored the mean of the masculine words (man, boy) lower on masculinity than the mean of the feminine words (lady, girl, woman), 228 remained.

Therefore, Survey 1 had a total of 228 participants who met all the inclusion criteria.

In Survey 2, 537 participants were recruited. We then selected them based on the following criteria:

Participants who completed the entire questionnaire, 501 remained.

Participants who reported a US nationality, 500 remained.

Participants who identified as either male or female, 500 remained.

Then, out of the 500 participants, we further selected according to the following criteria:

- (a) Excluded participants who had missing values on at least one of the attention check items (man, boy, girl, lady, woman), indicating that they did not know these (standard) English words, 482 remained.
- (b) Excluded participants who had an SD < 1 on the five attention check items combined (man, boy, girl, lady, woman), indicating that they did not differentiate between explicitly male and female labels, 378 remained.
- (c) Excluded those who scored the mean of the masculine words (man, boy) lower on masculinity than the mean of the feminine words (lady, girl, woman), 354 remained.

Therefore, Survey 2 had a total of 354 participants who met all the inclusion criteria.

In Survey 3, 593 participants were recruited. We then selected them based on the following criteria:

Participants who completed the entire questionnaire, 546 remained.

Participants who reported a US nationality, 544 remained.

Participants who identified as either male or female, 541 remained.

Then, out of the 541 participants, we further selected according to the following criteria:

- (a) Excluded participants who had missing values on at least one of the attention check items (man, boy, girl, lady, woman), indicating that they did not know these (standard) English words, 533 remained.
- (b) Excluded participants who had an SD < 1 on the five attention check items combined (man, boy, girl, lady, woman), indicating that they did not differentiate between explicitly male and female labels, 490 remained.
- (c) Excluded those who scored the mean of the masculine words (man, boy) lower on masculinity than the mean of the feminine words (lady, girl, woman), 478 remained.

Therefore, Survey 3 had a total of 478 participants who met all the inclusion criteria.

Appendix D: Power analysis results

Study 1

Study 2

Study 3

Appendix E: t-tests for source domains in Studies 1-3

t-test for Study 1

```
Source domain: WAR
> #T-test
> SD WAR Study 1 = Survey 1 %>% filter(source domain=="War")
> Mean WAR = SD WAR Study 1$masculinity
> t.test WAR Study1 = t.test(Mean WAR, mu=4)
> t.test_WAR_Study1
      One Sample t-test
data: Mean WAR
t = 42.601, df = 2243, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
5.472614 5.614730
sample estimates:
mean of x
5.543672
Source domain: PLANT
> #T-test
> SD PLANT Study 1 = Survey 1 %>% filter(source domain=="Plant")
> Mean PLANT = SD PLANT Study 1$masculinity
> t.test PLANT Study1 = t.test(Mean PLANT, mu=4)
> t.test PLANT Study1
      One Sample t-test
data: Mean PLANT
t = -18.649, df = 2252, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.172482 3.329959
sample estimates:
mean of x
3.251221
Source domain: JOURNEY
> #T-test
> SD JOURNEY Study 1 = Survey 1 %>% filter(source domain=="Journey")
> Mean JOURNEY = SD JOURNEY Study 1$masculinity
> t.test JOURNEY Study1 = t.test(Mean JOURNEY, mu=4)
> t.test JOURNEY Study1
      One Sample t-test
```

```
data: Mean JOURNEY
t = -10.731, df = 2261, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.487059 3.645567
sample estimates:
mean of x
3.566313
Source domain: COMPETITION
> #T-test
> SD COMPETITION Study 1 = Survey 1 %>% filter(source domain=="Competition")
> Mean COMPETITION = SD COMPETITION Study 1$masculinity
> t.test COMPETITION Study1 = t.test(Mean COMPETITION, mu=4)
> t.test COMPETITION Study1
      One Sample t-test
data: Mean COMPETITION
t = 24.226, df = 2266, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
4.829055 4.975092
sample estimates:
mean of x
4.902073
Source domain: BUILDING
> #T-test
> SD BUILDING Study 1 = Survey 1 %>% filter(source domain=="Building")
> Mean BUILDING = SD BUILDING Study 1$masculinity
> t.test BUILDING Study1 = t.test(Mean BUILDING, mu=4)
> t.test BUILDING Study1
      One Sample t-test
data: Mean BUILDING
t = 3.6765, df = 2236, p-value = 0.000242
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
4.073422 4.241285
sample estimates:
mean of x
4.157354
```

t-test for Study 2

```
Source domain: WAR
> #T-test
> SD WAR Study 2 = Survey 2 %>% filter(source domain=="War")
> Mean WAR = SD WAR Study 2$Femininity
> t.test WAR Study2 = t.test(Mean WAR, mu=4)
> t.test WAR Study2
      One Sample t-test
data: Mean WAR
t = -52.947, df = 3501, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
2.384045 2.499451
sample estimates:
mean of x
2.441748
Source domain: PLANT
> #T-test
> SD PLANT Study 2 = Survey 2 %>% filter(source domain=="Plant")
> Mean PLANT = SD PLANT Study 2$Femininity
> t.test PLANT Study2 = t.test(Mean PLANT, mu=4)
> t.test PLANT Study2
      One Sample t-test
data: Mean PLANT
t = 17.237, df = 3509, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
4.486810 4.611766
sample estimates:
mean of x
4.549288
Source domain: JOURNEY
> #T-test
> SD JOURNEY Study 2 = Survey 2 %>% filter(source domain=="Journey")
> Mean JOURNEY = SD JOURNEY Study 2$Femininity
> t.test JOURNEY Study2 = t.test(Mean JOURNEY, mu=4)
> t.test JOURNEY Study2
```

One Sample t-test

```
data: Mean JOURNEY
t = -15.353, df = 3531, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.477653 3.595960
sample estimates:
mean of x
3.536806
Source domain: COMPETITION
> SD COMPETITION Study 2 = Survey 2 %>% filter(source domain=="Competition")
> Mean COMPETITION = SD COMPETITION Study 2$Femininity
> t.test COMPETITION Study2 = t.test(Mean COMPETITION, mu=4)
> t.test COMPETITION Study2
      One Sample t-test
data: Mean COMPETITION
t = -18.467, df = 3526, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.372114 3.492644
sample estimates:
mean of x
3.432379
Source domain: BUILDING
> #T-test
> SD_BUILDING_Study_2 = Survey 2 %>% filter(source domain=="Building")
> Mean BUILDING = SD BUILDING Study 2$Femininity
> t.test BUILDING Study2 = t.test(Mean BUILDING, mu=4)
> t.test BUILDING Study2
      One Sample t-test
data: Mean BUILDING
t = -19.776, df = 3451, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.268937 3.400819
sample estimates:
mean of x
3.334878
```

t-test for Study 3

```
Source domain: WAR
> #T-test
> SD WAR Study 3 = Survey 3 %>% filter(source domain=="War")
> Mean WAR = SD WAR Study 3$MasculinityorFemininity
> t.test WAR Study3 = t.test(Mean WAR, mu=4)
> t.test WAR Study3
      One Sample t-test
data: Mean WAR
t = -79.963, df = 4698, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
2.326411 2.406511
sample estimates:
mean of x
2.366461
Source domain: PLANT
> #T-test
> SD_PLANT_Study_3 = Survey_3 %>% filter(source_domain=="Plant")
> Mean PLANT = SD PLANT Study 3$MasculinityorFemininity
> t.test PLANT Study3 = t.test(Mean PLANT, mu=4)
> t.test PLANT Study3
      One Sample t-test
data: Mean PLANT
t = 38.388, df = 4467, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
4.785819 4.870403
sample estimates:
mean of x
4.828111
Source domain: JOURNEY
>
> #T-test
> SD JOURNEY Study 3 = Survey 3 %>% filter(source domain=="Journey")
> Mean JOURNEY = SD JOURNEY Study 3$MasculinityorFemininity
> t.test JOURNEY Study3 = t.test(Mean JOURNEY, mu=4)
> t.test JOURNEY Study3
```

One Sample t-test

```
data: Mean JOURNEY
t = 8.7992, df = 4686, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
4.108115 4.170102
sample estimates:
mean of x
4.139108
Source domain: COMPETITION
> #T-test
> SD COMPETITION Study 3 = Survey 3 %>% filter(source domain=="Competition")
> Mean COMPETITION = SD COMPETITION Study 3$MasculinityorFemininity
> t.test COMPETITION Study3 = t.test(Mean COMPETITION, mu=4)
> t.test COMPETITION Study3
      One Sample t-test
data: Mean COMPETITION
t = -28.942, df = 4249, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.392268 3.469379
sample estimates:
mean of x
3.430824
Source domain: BUILDING
> #T-test
> SD BUILDING Study 3 = Survey 3 %>% filter(source domain=="Building")
> Mean BUILDING = SD BUILDING Study 3$MasculinityorFemininity
> t.test BUILDING Study3 = t.test(Mean BUILDING, mu=4)
> t.test BUILDING Study3
      One Sample t-test
data: Mean BUILDING
t = -17.006, df = 4576, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 4
95 percent confidence interval:
3.571869 3.660379
sample estimates:
mean of x
3.616124
```

Appendix F: Means (and Standard Deviations) of perceived masculinity and perceived femininity across domains (Studies 1-3)

	WAR	BUILDING	COMPETITION	JOURNEY	PLANT
Perceived masculinity (Study 1)					
Men	5.61 (1.63)	4.35 (1.92)	5.03 (1.65)	3.81 (1.83)	3.48 (1.85)
Women	5.43 (1.84)	3.84 (2.15)	4.70 (1.94)	3.16 (2.00)	2.88 (1.93)
Total	5.54 (1.72)	4.16 (2.02)	4.90 (1.77)	3.57 (1.92)	3.25 (1.91)
Perceived femininity (Study 2)					
Men	2.35 (1.70)	3.27 (1.91)	3.31 (1.78)	3.36 (1.71)	4.37 (1.87)
Women	2.53 (1.78)	3.40 (2.03)	3.55 (1.86)	3.70 (1.85)	4.71 (1.89)
Total	2.44 (1.74)	3.33 (1.98)	3.43 (1.83)	3.54 (1.79)	4.55 (1.89)
Masculinity-Femininity (Study 3)					
Men	2.25 (1.38)	3.65 (1.58)	3.36 (1.30)	3.99 (1.14)	4.86 (1.52)
Women	2.45 (1.41)	3.65 (1.54)	3.50 (1.25)	4.25 (1.04)	4.99 (1.45)
Total	2.37 (1.40)	3.65 (1.56)	3.44 (1.27)	4.15 (1.09)	4.94 (1.48)

Note: All variables were measured on a scale from 1 to 7, with 7 indicating that the domain was perceived as more masculine (Study 1) or more feminine (Studies 2-3).

Appendix G (1): Fixed-effects estimates and variance-covariance estimates for the models predicting perceived masculinity (SD = Source domain; Est. = Estimates) – Study 1

	·	masculinity			masculinity	·		masculinity			masculinity		·	masculinity	
Predictors	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p
(Intercept)	4.28	3.87 - 4.70	< 0.001	5.53	5.04 - 6.01	< 0.001	5.25	4.70 - 5.79	< 0.001	5.41	4.86 - 5.96	< 0.001	5.4	4.88 - 5.93	< 0.001
SD [Competition]				-0.63	-1.26 - 0.00	0.01	-0.63	-1.26 - 0.00	0.01	-0.71	-1.360.07	0.004	-0.71	-1.390.03	0.007
SD [Building]				-1.37	-2.000.74	< 0.001	-1.37	-2.000.74	< 0.001	-1.57	-2.220.93	< 0.001	-1.57	-2.280.86	< 0.001
SD [Journey]				-1.96	-2.591.33	< 0.001	-1.96	-2.591.33	< 0.001	-2.24	-2.891.60	< 0.001	-2.24	-2.981.49	< 0.001
SD [Plant]				-2.27	-2.901.64	< 0.001	-2.27	-2.901.64	< 0.001	-2.52	-3.161.88	< 0.001	-2.51	-3.261.77	< 0.001
gender [Male]							0.46	0.06 - 0.86	0.003	0.19	-0.23 - 0.61	0.238	0.19	-0.17 - 0.55	0.165
SD [Competition] * gender [Male]										0.14	-0.08 - 0.36	0.092	0.14	-0.19 - 0.48	0.281
SD [Building] * gender [Male]										0.32	0.10 - 0.54	< 0.001	0.32	-0.10 - 0.75	0.052
SD [Journey] * gender [Male]										0.46	0.24 - 0.68	< 0.001	0.46	-0.06 - 0.98	0.022
SD [Plant] * gender [Male]										0.40	0.18 - 0.62	< 0.001	0.40	-0.12 - 0.92	0.046
Random Effects															
σ^2	1.92			1.92			1.92			1.91			1.53		
τ_{00}	1.30 P	articipant		1.30 Part	ticipant		1.25 Partici	pant		1.25 Partici	pant		0.90 Partici	pant	
	0.99 _T	arget Word		0.29 _{Tar}	get Word		0.29 Target	Word		0.29 Target	Word		0.30 Target	Word	
τ_{11}													0.60 Compo	etition	
													1.16 Buildin	ng	
													1.88 Journe	у	
													1.89 Plant		
ρ01													0.02 Compo	etition	
													-0.13 Build	ling	
													-0.21 Journ	ney	
													-0.42 Plant		
ICC	0.54			0.45			0.44			0.45			0.56		
N	228 Pa	•		228 Parti			228 Particip			228 Particip			228 Particip		
	50 _{Targ}	et Word		50 _{Target}	Word		50 Target W	ord		50 Target W	ord		50 Target W	ord	
Observations	11263			11263			11263			11263			11263		
Marginal R ² / Conditional R ²	0.000	/ 0.544		0.167 /	0.544		0.178 / 0	.544		0.180 / 0	545		0.179 / 0.	.637	

Appendix G (2): Fixed-effects estimates and variance–covariance estimates for the models predicting perceived masculinity (SD = Source domain; Est. = Estimates) – Study 2

		Femininity			Femininity			Femininity			Femininity			Femininity	
Predictors	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p
(Intercept)	3.46	3.10 - 3.82	< 0.001	2.45	1.93 - 2.97	<0.001	2.56	2.02 - 3.10	<0.001	2.53	1.99 - 3.07	<0.001	2.53	1.98 - 3.09	< 0.001
SD [Competition]				0.98	0.28 - 1.69	< 0.001	0.98	0.28 - 1.69	< 0.001	1.02	0.31 - 1.73	< 0.001	1.01	0.29 - 1.73	< 0.001
SD [Building]				0.88	0.18 - 1.59	0.001	0.88	0.18 - 1.59	0.001	0.87	0.16 - 1.57	0.002	0.86	0.14 - 1.59	0.002
SD [Journey]				1.09	0.39 - 1.79	< 0.001	1.09	0.39 - 1.79	<0.001	1.17	0.46 - 1.88	< 0.001	1.16	0.43 - 1.90	< 0.001
SD [Plant]				2.1	1.40 - 2.81	< 0.001	2.1	1.40 - 2.81	<0.001	2.18	1.47 - 2.89	< 0.001	2.17	1.42 - 2.93	< 0.001
gender [Male]							-0.24	-0.54 - 0.06	0.042	-0.17	-0.49 - 0.15	0.179	-0.17	-0.52 - 0.19	0.225
SD [Competition] * gender [Male]										-0.07	-0.24 - 0.10	0.297	-0.07	-0.31 - 0.17	0.453
SD [Building] * gender [Male]										0.04	-0.13 - 0.21	0.566	0.04	-0.22 - 0.30	0.716
SD [Journey] * gender [Male]										-0.16	-0.33 - 0.00	0.012	-0.16	-0.47 - 0.14	0.164
SD [Plant] * gender [Male]										-0.16	-0.33 - 0.01	0.013	-0.16	-0.57 - 0.24	0.304
Random Effects															
σ^2	1.86			1.86			1.86			1.86			1.52		
τ_{00}	1.19 Par	rticipant		1.19 Participar	ıt		1.17 Par	rticipant		1.17 Part	icipant		1.49 Partic	ipant	
	0.82 _{Ta}	rget Word		0.37 Target W	ord		0.37 _{Ta}	rget Word		0.37 Targ	get Word		0.37_{Targe}	t Word	
τ_{11}													0.44 Comp	etition	
													0.59 Buildi	ing	
													0.91 Journe	ey	
													1.88 Plant		
ρ01													0.00 Comp	ectition	
													-0.43 _{Buil}	ding	
													-0.38 Journ	ney	
													-0.62 Plan	t	
ICC	0.52			0.46			0.45			0.45			0.55		
N	354 Part	ticipant		354 Participant			354 Part	icipant		354 Parti	cipant		354 Particip	pant	
	50 Targe	t Word		50 Target Word			50 Targe	t Word		50 Target	Word		50 Target W	/ord	
Observations	17523			17523			17523			17523			17523		
Marginal R ² / Conditional R ²	0.000 /	0.519		0.116 / 0.5	19		0.120 /	0.519		0.120 /	0.519		0.119 / 0	.605	

Appendix G (3): Fixed-effects estimates and variance-covariance estimates for the models predicting perceived masculinity/femininity (SD = Source domain; Est. = Estimates) – Study 3

	Mase	culinity or Fen	nininity	Masc	ulinity or Femi	ininity	Ma	sculinity or Fem	ininity	Mas	culinity or Femi	ninity	Masculinity or Femininity		nininity
Predictors	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p	Est.	99%CI	p
(Intercept)	3.72	3.35 - 4.08	< 0.001	2.38	1.95 - 2.81	<0.001	2.44	2.01 - 2.87	< 0.001	2.46	2.03 - 2.89	< 0.001	2.46	2.01 - 2.90	< 0.001
SD [Competition]				1.07	0.47 - 1.66	< 0.001	1.07	0.47 - 1.66	< 0.001	1.04	0.44 - 1.64	< 0.001	1.04	0.43 - 1.64	< 0.001
SD [Building]				1.29	0.69 - 1.88	< 0.001	1.29	0.69 - 1.88	< 0.001	1.21	0.61 - 1.81	< 0.001	1.21	0.60 - 1.81	< 0.001
SD [Journey]				1.77	1.17 - 2.36	< 0.001	1.77	1.17 - 2.36	< 0.001	1.79	1.20 - 2.39	< 0.001	1.79	1.18 - 2.40	< 0.001
SD [Plant]				2.56	1.96 - 3.16	< 0.001	2.56	1.96 - 3.16	< 0.001	2.53	1.93 - 3.13	< 0.001	2.53	1.90 - 3.15	< 0.001
gender [Male]							-0.14	-0.270.01	0.004	-0.19	-0.340.04	0.001	-0.18	-0.41 - 0.04	0.038
SD [Competition] * gender [Male]										0.06	-0.06 - 0.19	0.211	0.06	-0.12 - 0.23	0.398
SD [Building] * gender [Male]										0.19	0.06 - 0.31	< 0.001	0.18	-0.01 - 0.37	0.012
SD [Journey] * gender [Male]										-0.06	-0.19 - 0.06	0.185	-0.07	-0.30 - 0.15	0.395
SD [Plant] * gender [Male]										0.07	-0.06 - 0.19	0.169	0.05	-0.25 - 0.36	0.652
Random Effects															
σ^2	1.37			1.37			1.37			1.37			1.15		
$ au_{00}$	0.25 Par	ticipant		0.25 Partic	ipant		0.25 Partic	pant		0.25 Partic	ipant		0.79 Pa	rticipant	
	0.97 _{Tar}	get Word		0.26 Targe	Word		0.26 Target	Word		0.26 Targe	t Word		0.27 _{Ta}	rget Word	
$ au_{11}$													0.30 Co	mpetition	
													0.37 Bu	ilding	
													0.64 Jou	irney	
													1.36 Pla	int	
ρ01													-0.63 c	ompetition	
													-0.70 B	uilding	
													-0.82 J	ourney	
													-0.86 P	lant	
ICC	0.47			0.27			0.27			0.27			0.39		
N	478 _{Part}	icipant		478 Particip	pant		478 Particip	pant		478 Particip	pant		478 _{Part}	icipant	
	50 Target	t Word		50 Target W	ord		50 Target W	ord		50 Target W	/ord		50 Targe	t Word	
Observations	23457			23457			23457			23457			23457		
Marginal R ² / Conditional R ²	0.000 /	0.473		0.274 / 0	.473		0.276 / 0	.473		0.276 / 0	.474		0.275 /	0.555	

Appendix H: Lists of means of perceived masculinity/femininity (Studies 1-3)

			Study 1	
Source domains	Metaphorical keywords	Gender Means of perceived masculinity by men and women		Overall means of perceived masculinity
	architecture	Female	3.76	4.18
	architecture	Male	4.44	4.16
	building	Female	5.06	5.25
	building	Male	5.37	3.23
	hystenaga	Female	3.20	3.44
	buttress	Male	3.58	3.44
	construction	Female	5.15	5.33
	construction	Male	5.45	3.33
	foundation	Female	3.92	4.24
D!1.1!	Toundation	Male	4.44	4.24
Building	C 1	Female	3.57	2.00
	framework	Male	4.06	3.88
	roof	Female	3.11	2.47
		Male	3.69	3.47
		Female	3.72	4.00
	structure	Male	4.16	4.00
		Female	3.70	4.00
	support	Male	4.33	4.09
		Female	3.09	
	wall	Male	3.94	3.62
		Female	5.28	
	championship	Male	5.62	5.49
		Female	5.06	
	competition	Male	5.43	5.29
		Female	4.28	1.76
	contest	Male	4.73	4.56
		Female	4.37	4.60
Competitio	game	Male	4.87	4.68
n		Female	4.20	4.22
	medalist	Male	4.51	4.39
		Female	4.10	
	race	Male	4.84	4.56
		Female	5.07	100
	rivalry	Male	4.89	4.96
	sport	Female	5.56	5.60

		Male	5.62	
	taam	Female	4.35	4.59
	team	Male	4.74	4.39
	tovenomont	Female	4.67	4.89
	tournament	Male	5.03	4.89
	destination	Female	3.34	3.67
	destination	Male	3.88	3.07
	direction	Female	3.69	4.05
	direction	Male	4.27	4.05
	:	Female	3.38	2.70
	journey	Male	4.04	3.79
	41.	Female	2.94	2.41
	path	Male	3.69	3.41
		Female	3.73	4.00
т	progress	Male	4.16	4.00
Journey	1	Female	3.06	2.26
	road	Male	3.54	3.36
		Female	3.00	2.25
	route	Male	3.57	3.35
		Female	2.93	2.40
	travel	Male	3.82	3.48
	trip	Female	2.84	2.26
		Male	3.67	3.36
		Female	2.72	2.20
	way	Male	3.49	3.20
	1.1	Female	2.15	2.56
	blossom	Male	2.80	2.56
	14:	Female	3.05	2.50
	cultivate	Male	3.91	3.58
	0	Female	3.08	2.22
	fertilize	Male	3.48	3.33
	C :	Female	2.14	2.52
	fruit	Male	2.76	2.52
Plant		Female	3.18	2.52
	harvest	Male	3.75	3.53
	1 .	Female	2.49	206
	plant	Male	3.24	2.96
		Female	2.97	2.40
	reap	Male	3.67	3.40
		Female	3.45	2.74
	root	Male	3.95	3.76
	seed	Female	3.54	3.80

		Male	3.96	
	amazzt	Female	2.72	3.07
	sprout	Male	3.27	3.07
	O	Female	6.09	6 10
	army	Male	6.23	6.18
	assault	Female	5.15	5.03
	assaurt	Male	4.96	3.03
	battle	Female	5.66	5.74
	battle	Male	5.79	5.74
	2 2 10 10 24	Female	5.65	5.92
	combat	Male	5.93	5.82
	om omay.	Female	3.90	4.13
War	enemy	Male	4.27	4.13
vv ar	:1:40	Female	6.00	6.12
	military	Male	6.20	6.12
	skirmish	Female	3.73	4.05
	SKITMISH	Male	4.24	4.05
		Female	6.13	6.22
	war	Male	6.28	6.22
	vyomi or	Female	6.33	6.42
	warrior	Male	6.50	6.43
	**********	Female	5.45	5.51
	weapon	Male	5.54	5.51

			Study 2	
Source domains	Metaphorical keywords	Gender	Means of perceived femininity by men and women	Overall means of perceived femininity
Building	architecture	Female	2.96	3.01
Building	architecture	Male	3.05	3.01
Building	building	Female	2.91	2.89
Building	building	Male	2.86	2.89
Building	buttress	Female	3.17	3.22
Building	buttress	Male	3.26	3.22
Building	construction	Female	2.34	2.21
Building	construction	Male	2.27	2.31
Building	foundation	Female	4.65	4.43
Building	foundation	Male	4.19	4.43
Building	framework	Female	3.49	2.42
Building	framework	Male	3.36	3.43
Building	roof	Female	2.40	2.45
Building	roof	Male	2.50	2.45
Building	structure	Female	3.77	2.57
Building	structure	Male	3.34	3.57
Building	support	Female	5.86	5.54
Building	support	Male	5.19	5.54
Building	wall	Female	2.36	2.40
Building	wall	Male	2.63	2.49
Competition	championship	Female	3.76	3.52
Competition	championship	Male	3.27	3.32
Competition	competition	Female	3.78	3.57
Competition	competition	Male	3.35	3.37
Competition	contest	Female	3.43	3.33
Competition	contest	Male	3.22	3.33
Competition	game	Female	3.29	3.26
Competition	game	Male	3.23	3.20
Competition	medalist	Female	4.03	3.85
Competition	medalist	Male	3.66	3.03
Competition	race	Female	3.37	3.32
Competition	race	Male	3.27	3.32
Competition	rivalry	Female	2.97	2.96
Competition	rivalry	Male	2.95	2.30
Competition	sport	Female	3.55	3.49
Competition	sport	Male	3.41	J. T J

Competition	team	Female	4.26	4.11
Competition	team	Male	3.95	4.11
Competition	tournament	Female	3.01	2.90
Competition	tournament	Male	2.77	
Journey	destination	Female	3.64	3.50
Journey	destination	Male	3.35	
Journey	direction	Female	3.94	201
Journey	direction	Male	3.67	3.81
Journey	journey	Female	4.55	
Journey	journey	Male	3.84	4.21
Journey	path	Female	4.07	2.06
Journey	path	Male	3.62	3.86
Journey	progress	Female	4.47	4.20
Journey	progress	Male	4.09	4.29
Journey	road	Female	2.67	2.60
Journey	road	Male	2.54	2.60
Journey	route	Female	2.96	2.04
Journey	route	Male	2.93	2.94
Journey	travel	Female	3.97	2.65
Journey	travel	Male	3.31	3.65
Journey	trip	Female	3.25	3.16
Journey	trip	Male	3.05	3.10
Journey	way	Female	3.46	2.24
Journey	way	Male	3.22	3.34
Plant	blossom	Female	6.15	6.08
Plant	blossom	Male	5.99	0.08
Plant	cultivate	Female	5.04	4.82
Plant	cultivate	Male	4.58	4.02
Plant	fertilize	Female	4.98	4.90
Plant	fertilize	Male	4.82	4.50
Plant	fruit	Female	5.13	A Q1
Plant	fruit	Male	4.46	4.81
Plant	harvest	Female	4.70	4.44
Plant	harvest	Male	4.16	
Plant	plant	Female	4.93	4.64
Plant	plant	Male	4.32	
Plant	reap	Female	3.61	3.44
Plant	reap	Male	3.26	
Plant	root	Female	4.08	3.97
Plant	root	Male	3.85	
Plant	seed	Female	4.03	4.08
Plant	seed	Male	4.14	

Plant	sprout	Female	4.42	4.28
Plant	sprout	Male	4.13	4.20
War	army	Female	2.27	2.21
War	army	Male	2.14	
War	assault	Female	2.46	2.25
War	assault	Male	2.26	2.37
War	battle	Female	2.61	2.51
War	battle	Male	2.41	
War	combat	Female	2.43	2.22
War	combat	Male	2.21	2.32
War	enemy	Female	2.45	2.47
War	enemy	Male	2.49	
War	military	Female	2.55	2.45
War	military	Male	2.35	
War	skirmish	Female	2.51	2.40
War	skirmish	Male	2.29	
War	war	Female	2.04	2.06
War	war	Male	2.09	
War	warrior	Female	3.81	3.47
War	warrior	Male	3.09	
War	weapon	Female	2.12	2.14
War	weapon	Male	2.16	

Study 3				
Source domains	Metaphorical keywords	Gender	Means of perceived masculinity-femininity by men and women	Overall means of perceived masculinity-femininity
War	army	Female	2.16	2.09
War	army	Male	1.98	2.09
War	assault	Female	2.42	2.44
War	assault	Male	2.46	2.44
War	battle	Female	2.23	2.17
War	battle	Male	2.08	2.17
War	combat	Female	1.97	1.94
War	combat	Male	1.89	1.94
War	enemy	Female	3.14	3.11
War	enemy	Male	3.06	3.11
War	military	Female	2.29	2.20
War	military	Male	2.08	2.20
War	skirmish	Female	3.56	2.20
War	skirmish	Male	3.13	3.38
War	war	Female	2.00	1.02
War	war	Male	1.81	1.92
War	warrior	Female	2.41	2.21
War	warrior	Male	1.92	2.21
War	weapon	Female	2.39	2.22
War	weapon	Male	2.23	2.32
Competition	championship	Female	3.16	2.11
Competition	championship	Male	3.03	3.11
Competition	competition	Female	3.34	2.22
Competition	competition	Male	3.06	3.22
Competition	contest	Female	3.75	2.65
Competition	contest	Male	3.50	3.65
Competition	medalist	Female	3.90	3.87
Competition	medalist	Male	3.82	
Competition	race	Female	3.68	2.64
Competition	race	Male	3.58	3.64
Competition	rivalry	Female	3.14	3.10
Competition	rivalry	Male	3.04	
Competition	sport	Female	3.04	2.94
Competition	sport	Male	2.80	
Competition	team	Female	4.08	3.99
Competition	team	Male	3.87	
Competition	tournament	Female	3.35	3.37

Competition	tournament	Male	3.39	
Building	architecture	Female	3.27	3.31
Building	architecture	Male	3.37	
Building	building	Female	2.65	2.61
Building	building	Male	2.57	
Building	buttress	Female	4.22	4.31
Building	buttress	Male	4.43	
Building	construction	Female	2.31	
Building	construction	Male	2.26	2.29
Building	foundation	Female	4.40	4.26
Building	foundation	Male	4.04	4.26
Building	framework	Female	3.88	2.00
Building	framework	Male	3.88	3.88
Building	roof	Female	3.32	3.41
Building	roof	Male	3.55	3.41
Building	structure	Female	3.83	2.05
Building	structure	Male	3.89	3.85
Building	support	Female	4.91	4.87
Building	support	Male	4.82	4.07
Building	wall	Female	3.64	3.64
Building	wall	Male	3.64	3.04
Journey	destination	Female	4.26	4.13
Journey	destination	Male	3.96	4.13
Journey	direction	Female	4.18	4.06
Journey	direction	Male	3.89	4.00
Journey	journey	Female	4.55	4.32
Journey	journey	Male	3.99	4.32
Journey	path	Female	4.46	4.34
Journey	path	Male	4.16	7.57
Journey	progress	Female	4.49	4.33
Journey	progress	Male	4.10	4.55
Journey	road	Female	3.68	3.61
Journey	road	Male	3.52	
Journey	route	Female	4.00	3.98
Journey	route	Male	3.94	5.70
Journey	travel	Female	4.33	4.25
Journey	travel	Male	4.14	1.23
Journey	trip	Female	4.26	4.16
Journey	trip	Male	4.02	
Journey	way	Female	4.23	4.19
Journey	way	Male	4.13	
Plant	blossom	Female	5.57	5.55

Plant	blossom	Male	5.51	
Plant	cultivate	Female	4.96	4.85
Plant	cultivate	Male	4.71	
Plant	fertilize	Female	5.01	5.00
Plant	fertilize	Male	4.98	
Plant	fruit	Female	5.53	5.44
Plant	fruit	Male	5.32	
Plant	harvest	Female	4.76	4.63
Plant	harvest	Male	4.45	
Plant	plant	Female	5.21	5.23
Plant	plant	Male	5.26	
Plant	reap	Female	4.28	4.17
Plant	reap	Male	4.01	
Plant	root	Female	4.30	4.28
Plant	root	Male	4.25	
Plant	seed	Female	4.36	4.39
Plant	seed	Male	4.43	
Plant	sprout	Female	5.17	5.09
Plant	sprout	Male	4.97	