

Supplementary Tables

*Table S1*

Language background information for the monolingual (n = 33) and bilingual groups (n = 24) in the analysis

S1.1 Participants' average self-ratings of their L1 and L2 proficiencies across modalities

<b>Proficiency Rating</b>	<b>Monolingual Mean</b>	<b>Monolingual SD</b>	<b>Bilingual Mean</b>	<b>Bilingual SD</b>
Mean L1 Spoken Proficiency	9.8	0.44	9.2	1.2
Mean L1 Reading Proficiency	9.9	0.38	8.5	2.9
Mean L1 Listening Comprehension	9.8	0.70	9.4	1.13
Mean L2 Spoken Proficiency	N/A	N/A	8.8	1.7
Mean L2 Reading Proficiency	N/A	N/A	8.0	2.5
Mean L2 Listening Comprehension	N/A	N/A	9.5	1.2

S1.2 Participants' interactions contributing to learning their L1 and L2s across different media

<b>Interaction Rating</b>	<b>Monolingual Mean</b>	<b>Monolingual SD</b>	<b>Bilingual Mean</b>	<b>Bilingual SD</b>
Mean L1 Friend Interactions	8.3	2.1	7.5	3.3
L1 Family Interactions	9.4	1.0	8.5	2.1

L1 Reading Interactions	8.7	1.6	7.4	3.5
L1 TV Interaction	6.4	2.7	6.9	3.2
L1 Radio Interaction	4.5	2.8	4.0	3.2
L1 Language Tapes Interaction	2.0	3.3	3.3	3.5
L2 Friend Interactions	N/A	N/A	6.2	3.5
L2 Family Interactions	N/A	N/A	8.5	2.1
L2 Reading Interactions	N/A	N/A	6.5	3.3
L2 TV Interaction	N/A	N/A	6.9	2.9
L2 Radio Interaction	N/A	N/A	4.5	3.6
L2 Language Tapes Interaction	N/A	N/A	2.8	N/A

### S1.3 Participants' exposure to their L1 and L2s across different media

<b>Exposure Rating</b>	<b>Monolingual Mean</b>	<b>Monolingual SD</b>	<b>Bilingual Mean</b>	<b>Bilingual SD</b>
L1 Friend Exposure	9.8	0.9	8.0	2.8
L1 Family Exposure	9.6	1.7	8.4	2.3
L1 TV Exposure	9.5	1.1	7.8	3.4
L1 Exposure to Language Tapes	2.3	3.7	2.7	3.2
L1 Radio Exposure	9.4	1.7	6.7	3.4
L1 Written Media Exposure	9.4	1.5	6.6	3.8

L2 Friend Exposure	N/A	N/A	6.5	3.6
L2 Family Exposure	N/A	N/A	8.1	2.4
L2 TV Exposure	N/A	N/A	6.9	3.3
L2 Exposure to Language Tapes	N/A	N/A	2.3	3.1
L2 Radio Exposure	N/A	N/A	5.8	3.9
L2 Written Media Exposure	N/A	N/A	5.8	3.7

---

S1.4 Participants' self-rated accentedness in their L1s and L2s.

<b>Accentedness Rating</b>	<b>Monolingual Mean</b>	<b>Monolingual SD</b>	<b>Bilingual Mean</b>	<b>Bilingual SD</b>
L1 Accentedness	1.1	3.1	2.0	2.5
L1 Non-Native speaker rating	0.0	0.2	2.8	3.8
L2 Accentedness	N/A	N/A	5.4	3.1

---

Table S2

Results from accuracy analysis. In this and tables below, “Response”: Response repetition; “Color”: Color repetition

<i>Predictors</i>	<i>Log-Odds</i>	<i>CI (95%)</i>
Intercept	5.01	4.62; 5.49
Response	-0.10	-0.35; 0.15
Color	0.08	-0.16; 0.34
Location	-0.10	-0.35; 0.13
Group	-0.18	-0.54; 0.18
Response:Color	0.67	0.40; 0.99
Response:Location	0.31	0.09; 0.55
Color:Location	-0.02	-0.27; 0.22
Response:Group	-0.09	-0.31; 0.13
Color:Group	-0.03	-0.25; 0.19
Location:Group	-0.05	-0.27; 0.17
Response:Color:Location	-0.18	-0.46; 0.06
Response:Color:Group	0.01	-0.25; 0.26
Response:Location:Group	-0.03	-0.25; 0.18
Color:Location:Group	-0.11	-0.33; 0.10
Response:Color:Location:Group	-0.08	-0.32; 0.16

**Random Effects**

$\sigma^2$	3.29
$\tau_{00}$ participantID	1.08
$\tau_{11}$ participantID.response	0.06
$\tau_{11}$ participantID.color	0.06
$\tau_{11}$ participantID.location	0.03
$\tau_{11}$ participantID.response:color	0.22
$\tau_{11}$ participantID.response:location	0.04

$\tau_{11}$ participantID.color:location	0.05
$\tau_{11}$ participantID.response:color:location	0.12
$\rho_{01}$	
$\rho_{01}$	
ICC	0.34
N participantID	57
<hr/>	
Observations	11244
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.004 / 0.041
<hr/>	

Table S3

Results from RT analysis. Estimates are in log RTs

<i>Predictors</i>	<i>Estimates</i>	<i>CI (95%)</i>
Intercept	6.49	6.42; 6.56
Response	0.00	-0.00; 0.01
Color	-0.01	-0.02; -0.00
Location	-0.01	-0.01; 0.00
Group	-0.07	-0.14; 0.00
Response:Color	-0.04	-0.05; -0.03
Response:Location	-0.01	-0.02; -0.01
Color:Location	-0.01	-0.01; -0.00
Response:Group	-0.00	-0.01; 0.01
Color:Group	0.01	-0.00; 0.01
Location:Group	0.00	-0.01; 0.01
Response:Color:Location	-0.00	-0.01; 0.00
Response:Color:Group	0.00	-0.01; 0.01
Response:Location:Group	-0.01	-0.01; -0.00
Color:Location:Group	0.00	-0.01; 0.01
Response:Color:Location:Group	-0.00	-0.01; 0.01
<b>Random Effects</b>		
$\sigma^2$	0.30	
$\tau_{00}$ participantID	0.07	
$\tau_{11}$ participantID.response	0.00	
$\tau_{11}$ participantID.color	0.00	
$\tau_{11}$ participantID.location	0.00	
$\tau_{11}$ participantID.response:color	0.00	
$\tau_{11}$ participantID.response:location	0.00	

$\tau_{11}$ participantID.color:location	0.00
$\tau_{11}$ participantID.response:color:location	0.00
$\rho_{01}$	
$\rho_{01}$	
ICC	0.19
N participant_id	57
<hr/>	
Observations	11059
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.024 / 0.312
<hr/>	

Table S4

Results from RT analysis, using the monolingual group as reference level. Estimates are in log RTs

<i>Predictors</i>	<i>Estimates</i>	<i>CI (95%)</i>
Intercept	6.42	6.33; 6.51
Response	0.00	-0.01; 0.02
Color	-0.00	-0.02; 0.01
Location	-0.01	-0.01; 0.00
Group	0.13	-0.01; 0.28
Response:Color	-0.04	-0.05; -0.03
Response:Location	-0.02	-0.03; -0.01
Color:Location	-0.01	-0.02; 0.00
Response:Group	0.00	-0.02; 0.02
Color:Group	-0.01	-0.03; 0.01
Location:Group	-0.00	-0.01; 0.01
Response:Color:Location	-0.00	-0.01; 0.00
Response:Color:Group	-0.00	-0.02; 0.01
Response:Location:Group	0.01	0.00; 0.03
Color:Location:Group	-0.00	-0.01; 0.01
Response:Color:Location:Group	0.00	-0.01; 0.01



## Random Effects

$\sigma^2$	0.30
$\tau_{00}$ participant_id	0.07
$\tau_{11}$ participant_id.resp_rep	0.00
$\tau_{11}$ participant_id.col_rep	0.00
$\tau_{11}$ participant_id.loc_rep	0.00
$\tau_{11}$ participant_id.resp_rep.col_rep	0.00
$\tau_{11}$ participant_id.resp_rep.loc_rep	0.00
$\tau_{11}$ participant_id.col_rep.loc_rep	0.00
$\tau_{11}$ participant_id.resp_rep.col_rep.loc_rep	0.00
$\rho_{01}$	
$\rho_{01}$	
ICC	0.19
N participant_id	57
<hr/>	
Observations	11059
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.024 / 0.312
<hr/>	

Table S5

Results from RT analysis, using the bilingual group as reference level. Estimates are in log RTs

<i>Predictors</i>	<i>Estimates</i>	<i>CI (95%)</i>
Intercept	6.56	6.45; 6.67
Response	0.01	-0.01; 0.02
Color	-0.01	-0.03; -0.00
Location	-0.01	-0.02; 0.00
Group	-0.14	-0.28; 0.00
Response:Color	-0.04	-0.05; -0.03
Response:Location	-0.01	-0.02; 0.00
Color:Location	-0.01	-0.02; 0.00
Response:Group	-0.00	-0.02; 0.02
Color:Group	0.01	-0.01; 0.03
Location:Group	0.00	-0.01; 0.01
Response:Color:Location	-0.00	-0.01; 0.01
Response:Color:Group	0.00	-0.01; 0.02
Response:Location:Group	-0.01	-0.03; -0.00
Color:Location:Group	0.00	-0.01; 0.01
Response:Color:Location:Group	-0.00	-0.02; 0.01

## Random Effects

$\sigma^2$	0.30
$\tau_{00}$ participant_id	0.07
$\tau_{11}$ participant_id.resp_rep	0.00
$\tau_{11}$ participant_id.col_rep	0.00
$\tau_{11}$ participant_id.loc_rep	0.00
$\tau_{11}$ participant_id.resp_rep.col_rep	0.00
$\tau_{11}$ participant_id.resp_rep.loc_rep	0.00
$\tau_{11}$ participant_id.col_rep.loc_rep	0.00
$\tau_{11}$ participant_id.resp_rep.col_rep.loc_rep	0.00
$\rho_{01}$	
$\rho_{01}$	
ICC	0.19
N participant_id	57
<hr/>	
Observations	11059
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.027 / 0.312
<hr/>	

Supplementary figures

Figure S1

Response x Location repetition interaction effect (msec) in the data per quartile, for monolinguals and bilinguals. Quartiles are based on a participant's aggregated RTs at the DRS, and are quartiles of the group of monolinguals and bilinguals combined. Note that the interaction effect becomes larger in absolute terms as overall response times increase, but only for the monolinguals

