Supplemental Information for:
Sociolinguistic development in a diverse, multilinguistic environment: Evidence from multilingual children in Gujarat, India

Participants

Table S1
Number of Children Reporting Language for Each Language Background Question and Most Frequently Coded Learning Sources

	Language Use					How Learned[g]				
Language[a]	*I speak*[b]	*with friends*[c]	*at home*[d]	*mother tongue*[e]	*I understand*[f]	*from family*	*from birth*	*socially*[h]	*at school*	***n***[i]
Hindi	106	105	64	47	10	30	29	18	12	122
Gujarati	89	68	52	36	21	32	16	23	11	117
English	80	25	10	1	18	18	7	2	41	106
Marathi	27	12	25	23	26	16	7	8	1	59
Urdu	10	1	4	4	8	4	2	3	2	23
Punjabi	1	1	1	0	10	0	1	3	3	11
Sindhi	4	0	3	4	1	4	0	0	0	5
Tamil	0	0	0	0	3	0	0	1	0	4
Bengali	1	0	0	0	3	0	0	2	0	3
Arabic	0	0	0	0	1	1	0	0	0	2
Marwari	1	0	1	1	1	0	0	1	0	2
Rajasthani	0	0	0	0	2	1	0	0	0	2
Sanskrit	0	0	0	0	1	1	0	0	0	2

[a] Languages limited to those listed by at least 2 children. Highlighted rows correspond to languages included in the study. Exact wording for each language background question appears in the footnotes that follow.
[b] *What languages do you speak?*
[c] *What language(s) do you use with your friends?*
[d] *What language(s) do you use at home?*
[e] *What is your mother tongue?*
[f] *What languages do you understand if someone talks, even if you can't talk in them yourself?*
[g] Categories coded from children's free responses to the question, *How do you know each of your languages*?
[h] Responses typically included reference to children's friends and/or neighborhood.
[i] Number of individual children listing language in response to any of the language background questions.

Sample Size Justification

To determine our sample sizes and anticipate potential effects, we referenced findings from Wagner et al. (2014), which examined 4–8-year-old children's ability to categorize different English dialects and to associate them with local vs. non-local cultural artifacts, and from Weatherhead et al. (Weatherhead et al., 2018), which focused on 4–6-year-old children's geographic inferences based on a speaker's accent, language, and race. These studies are similar to (the *Speaker Associations* block of) the current study in that children selected from a constrained set of categorical responses to reflect their inferences about speakers who they heard producing different linguistic variants. They differ from ours in that there were always only two responses to obligatorily choose between—one of which was correct, and without the opportunity to opt out—and in that conditions were between-subjects; that is, individual children only responded to a single question for each variant (e.g., "Was this person born in Canada or born far away?" for all languages or dialects), or only heard stimuli from a single dialectal contrast (e.g., a child would hear only British and Indian accents, or else only British and American accents, but never all three).

These studies showed significant differences in children's rates of selecting one option over another in response to different language variants by age 6, in designs with 24–48 children per age group, and 12–24 children per condition. They also showed relative consistency *within* children in terms of their responses across multiple trials for the same variant, by roughly the same age. Effect sizes for the effect of dialect on children's associations with cultural items were $\eta^2 = 0.37 - 0.41$ in Wagner et al. (2014), and odds ratios for the effect of language on children's binary responses were between 3.06 and 9.10. Thus, we expected medium effect sizes for the effect of language on children's categorical responses.

We extrapolated target sample sizes informed by these prior results along with three factors that we hypothesized would make effects in our study even more robust. First, children in our study tended to be older (7.7–13 years) than previous samples, suggesting more advanced cognitive and linguistic skills. Second, children in our study spoke, studied, and heard multiple languages in their day-to-day lives, which might mean enhanced familiarity with thinking about languages. Third, children in our study could opt out of responding when they did not have a strong opinion for a given question, rather than add noise to the data. In light of these factors, we aimed for at least 24 children per age group. For the older two age groups (5th- and 7th-graders), we were able to collect data from sample sizes at the higher end of the range established by previous studies (ns=48 and 55, respectively). Running the study with the 3rd-graders took significantly longer, resulting in a smaller sample size for that age group ($n = 27$).

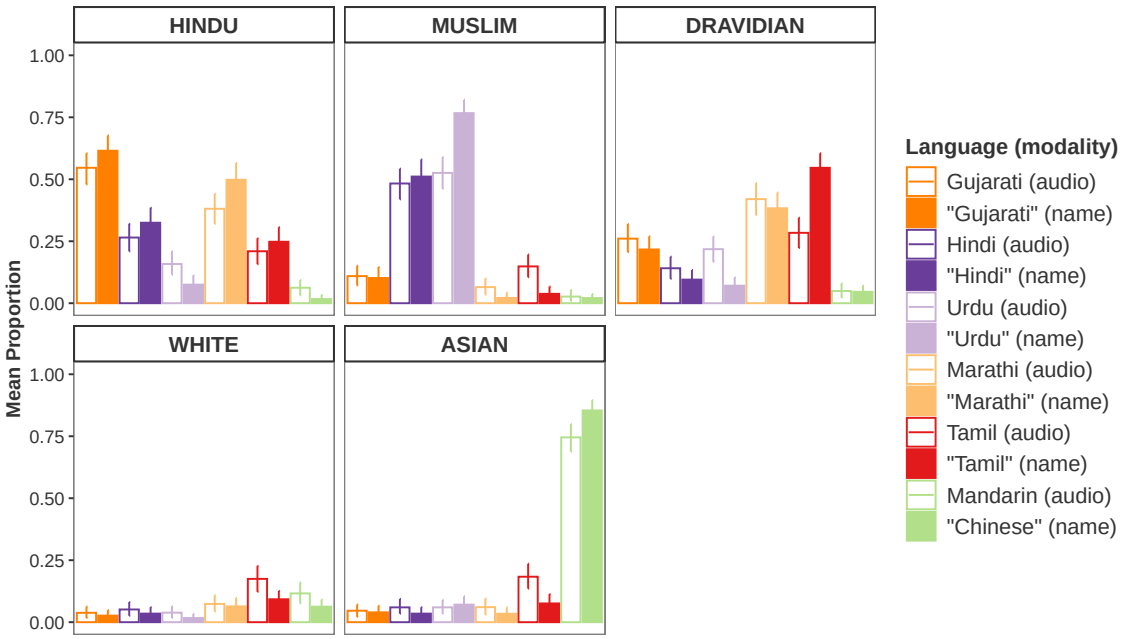

Figure S1: *Proportion of Children Selecting Each Face Type by Language and Modality.* Paired bars color-coded by language reflect the mean proportion of children selecting each face type (panels), when it was presented auditorily (unfilled bars), and when it was presented by name (filled bars). Error bars show 95% bootstrapped confidence intervals.

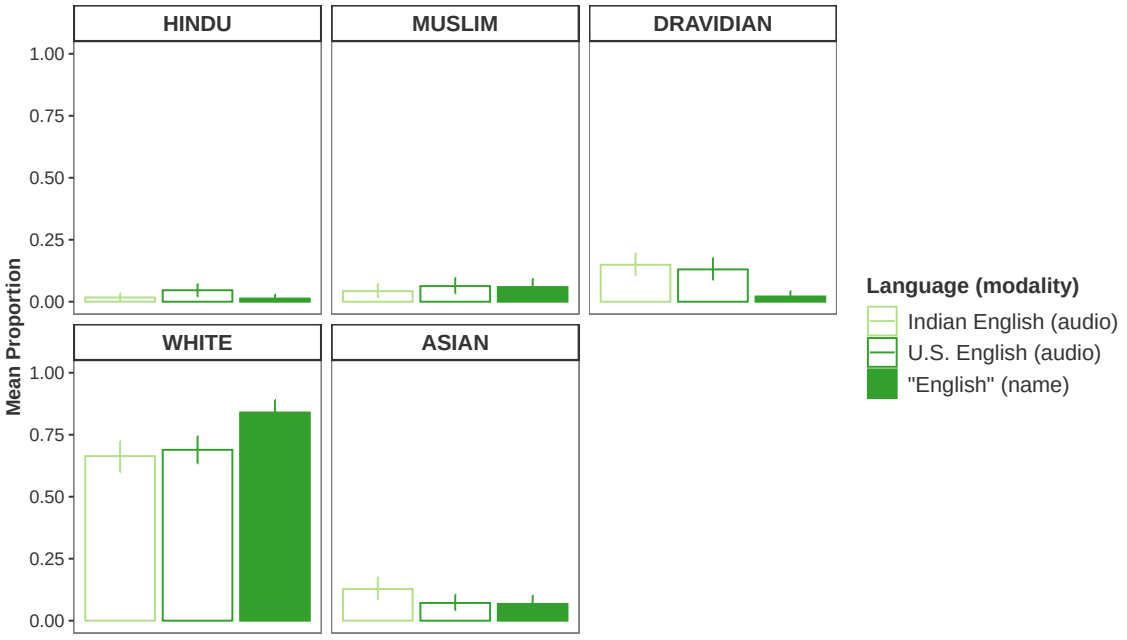

Figure S2: *Proportion of Children Selecting Each Face Type as a Speaker of English, Probed Three Ways.* Bars plot the overall proportion of children selecting each face type (panels), with error bars reflecting 95% bootstrapped confidence intervals. Unfilled bars plot data for English variants presented auditorily (Indian English—leftmost bar, and U.S. English—middle bar), while filled bars plot mean selection data when children were asked about "English" by name.

Table S2

Mean Geographic Origin Association by Speaker Language and Child Grade

	3rd			5th			7th		
	n	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]
Gujarat (Same State as Me)									
Gujarati	17	0.44	[0.28, 0.60]	72	0.74	[0.65, 0.82]	72	0.77	[0.69, 0.85]
Hindi	31	0.79	[0.66, 0.92]	48	0.49	[0.40, 0.59]	63	0.68	[0.59, 0.77]
Urdu	26	0.68	[0.53, 0.84]	49	0.51	[0.40, 0.61]	55	0.59	[0.48, 0.68]
Marathi	16	0.41	[0.26, 0.56]	28	0.29	[0.20, 0.38]	31	0.33	[0.25, 0.43]
Tamil	12	0.31	[0.17, 0.45]	15	0.15	[0.08, 0.24]	6	0.06	[0.02, 0.12]
English (India)	12	0.32	[0.17, 0.47]	10	0.10	[0.04, 0.17]	10	0.11	[0.05, 0.17]
English (U.S.)	11	0.28	[0.15, 0.43]	5	0.05	[0.01, 0.1]	8	0.08	[0.03, 0.15]
Mandarin	4	0.10	[0.02, 0.21]	4	0.04	[0.01, 0.08]	1	0.01	[0.00, 0.03]
India (Different State)									
Gujarati	8	0.21	[0.08, 0.35]	16	0.16	[0.10, 0.24]	14	0.15	[0.09, 0.23]
Hindi	3	0.08	[0.00, 0.17]	46	0.47	[0.38, 0.57]	29	0.31	[0.22, 0.41]
Urdu	8	0.21	[0.10, 0.34]	42	0.43	[0.33, 0.54]	33	0.35	[0.26, 0.46]
Marathi	13	0.33	[0.19, 0.49]	54	0.56	[0.46, 0.65]	56	0.60	[0.50, 0.71]
Tamil	17	0.44	[0.29, 0.59]	51	0.53	[0.43, 0.63]	67	0.71	[0.62, 0.80]
English (India)	6	0.16	[0.05, 0.28]	18	0.19	[0.11, 0.27]	19	0.20	[0.13, 0.29]
English (U.S.)	11	0.28	[0.14, 0.43]	25	0.26	[0.18, 0.35]	14	0.15	[0.08, 0.22]
Mandarin	7	0.18	[0.07, 0.32]	19	0.20	[0.12, 0.28]	19	0.20	[0.13, 0.28]
Foreign (Outside India)									
Gujarati	13	0.33	[0.19, 0.49]	9	0.09	[0.04, 0.15]	7	0.08	[0.02, 0.13]
Hindi	5	0.13	[0.03, 0.24]	2	0.02	[0.00, 0.05]	0	—	—
Urdu	3	0.08	[0.00, 0.18]	4	0.04	[0.01, 0.08]	4	0.04	[0.01, 0.09]
Marathi	9	0.23	[0.10, 0.38]	14	0.14	[0.08, 0.22]	4	0.04	[0.01, 0.09]
Tamil	10	0.26	[0.12, 0.38]	30	0.31	[0.21, 0.40]	14	0.15	[0.09, 0.22]
English (India)	18	0.47	[0.32, 0.63]	68	0.71	[0.61, 0.80]	63	0.67	[0.59, 0.77]
English (U.S.)	16	0.41	[0.27, 0.56]	65	0.67	[0.58, 0.77]	70	0.74	[0.64, 0.82]
Mandarin	25	0.64	[0.47, 0.79]	71	0.73	[0.64, 0.82]	70	0.75	[0.67, 0.83]
No Opinion									
Gujarati	1	0.03	[0.00, 0.08]	0	—	—	0	—	—
Hindi	0	—	—	1	0.01	[0.00, 0.03]	1	0.01	[0.00, 0.03]
Urdu	1	0.03	[0.00, 0.09]	2	0.02	[0.00, 0.05]	2	0.02	[0.00, 0.05]
Marathi	1	0.03	[0.00, 0.08]	1	0.01	[0.00, 0.03]	2	0.02	[0.00, 0.05]
Tamil	0	—	—	1	0.01	[0.00, 0.03]	7	0.07	[0.03, 0.13]
English (India)	2	0.05	[0.00, 0.14]	0	—	—	2	0.02	[0.00, 0.05]
English (U.S.)	1	0.03	[0.00, 0.08]	2	0.02	[0.00, 0.05]	3	0.03	[0.00, 0.07]
Mandarin	3	0.08	[0.00, 0.17]	3	0.03	[0.00, 0.07]	3	0.03	[0.00, 0.08]

Table S3

Mean Religious Association by Speaker Language and Child Grade

	3rd			5th			7th		
	n	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]
Hindu									
Gujarati	12	0.32	[0.18, 0.49]	72	0.71	[0.61, 0.79]	67	0.71	[0.62, 0.80]
Hindi	11	0.29	[0.14, 0.43]	54	0.53	[0.45, 0.63]	50	0.53	[0.44, 0.63]
Urdu	12	0.33	[0.19, 0.48]	46	0.46	[0.36, 0.55]	44	0.47	[0.38, 0.57]
Marathi	7	0.18	[0.07, 0.32]	48	0.48	[0.38, 0.57]	56	0.60	[0.50, 0.69]
Tamil	9	0.24	[0.12, 0.38]	17	0.17	[0.10, 0.25]	10	0.11	[0.05, 0.17]
English (India)	10	0.27	[0.14, 0.42]	15	0.15	[0.08, 0.23]	9	0.10	[0.04, 0.16]
English (U.S.)	8	0.21	[0.08, 0.35]	5	0.05	[0.01, 0.09]	7	0.07	[0.02, 0.13]
Mandarin	4	0.11	[0.02, 0.21]	3	0.03	[0.00, 0.07]	0	—	—
Muslim									
Gujarati	10	0.27	[0.14, 0.41]	7	0.07	[0.03, 0.12]	11	0.12	[0.05, 0.18]
Hindi	19	0.50	[0.33, 0.66]	34	0.34	[0.25, 0.43]	26	0.28	[0.19, 0.36]
Urdu	21	0.58	[0.42, 0.74]	40	0.40	0.30, 0.49]	39	0.42	[0.32, 0.53]
Marathi	9	0.24	[0.11, 0.37]	10	0.10	[0.05, 0.16]	1	0.01	[0.00, 0.03]
Tamil	9	0.24	[0.10, 0.37]	11	0.11	[0.05, 0.18]	6	0.06	[0.02, 0.12]
English (India)	5	0.14	[0.03, 0.26]	12	0.12	[0.06, 0.19]	1	0.01	[0.00, 0.03]
English (U.S.)	4	0.11	[0.03, 0.21]	13	0.13	[0.07, 0.20]	3	0.03	[0.00, 0.07]
Mandarin	4	0.11	[0.02, 0.21]	9	0.09	[0.04, 0.15]	6	0.06	[0.02, 0.12]
Jain									
Gujarati	7	0.19	[0.08, 0.32]	10	0.10	[0.05, 0.16]	3	0.03	[0.00, 0.06]
Hindi	4	0.11	[0.02, 0.21]	8	0.08	[0.03, 0.14]	9	0.10	[0.04, 0.15]
Urdu	0	—	—	10	0.10	[0.04, 0.16]	3	0.03	[0.00, 0.07]
Marathi	8	0.21	[0.09, 0.34]	16	0.16	[0.09, 0.23]	5	0.05	[0.02, 0.11]
Tamil	7	0.18	[0.06, 0.31]	30	0.30	[0.22, 0.39]	18	0.19	[0.12, 0.27]
English (India)	6	0.16	[0.05, 0.30]	16	0.16	[0.10, 0.23]	6	0.07	[0.02, 0.12]
English (U.S.)	5	0.13	[0.03, 0.24]	20	0.20	[0.12, 0.28]	5	0.05	[0.01, 0.09]
Mandarin	7	0.18	[0.07, 0.31]	18	0.18	[0.11, 0.26]	12	0.13	[0.07, 0.20]
Christian									
Gujarati	5	0.14	[0.03, 0.26]	4	0.04	[0.01, 0.08]	3	0.03	[0.00, 0.07]
Hindi	0	—	—	4	0.04	[0.01, 0.08]	1	0.01	[0.00, 0.03]
Urdu	4	0.11	[0.02, 0.22]	3	0.03	[0.00, 0.07]	0	—	—
Marathi	6	0.16	[0.05, 0.28]	8	0.08	[0.03, 0.14]	4	0.04	[0.01, 0.09]
Tamil	8	0.21	[0.08, 0.35]	16	0.16	[0.09, 0.24]	5	0.05	[0.01, 0.11]
English (India)	12	0.32	[0.18, 0.48]	32	0.32	[0.24, 0.41]	48	0.52	[0.42, 0.62]
English (U.S.)	14	0.37	[0.22, 0.52]	36	0.36	[0.27, 0.46]	40	0.42	[0.33, 0.52]
Mandarin	10	0.26	[0.14, 0.41]	20	0.20	[0.13, 0.28]	21	0.23	[0.15, 0.31]
Buddhist									
Gujarati	3	0.08	[0.00, 0.18]	4	0.04	[0.01, 0.08]	3	0.03	[0.00, 0.07]
Hindi	3	0.08	[0.00, 0.18]	0	—	—	2	0.02	[0.00, 0.05]
Urdu	0	—	—	1	0.01	[0.00, 0.03]	3	0.03	[0.00, 0.07]
Marathi	5	0.13	[0.05, 0.25]	10	0.10	[0.05, 0.16]	14	0.15	[0.07, 0.22]
Tamil	2	0.05	[0.00, 0.13]	18	0.18	[0.11, 0.25]	31	0.33	[0.23, 0.43]
English (India)	1	0.03	[0.00, 0.09]	7	0.07	[0.03, 0.13]	4	0.04	[0.01, 0.09]
English (U.S.)	4	0.11	[0.02, 0.21]	10	0.10	[0.05, 0.16]	8	0.08	[0.03, 0.15]
Mandarin	5	0.13	[0.03, 0.24]	16	0.16	[0.09, 0.23]	9	0.10	[0.04, 0.16]
No Opinion									
Gujarati	0	—	—	4	0.04	[0.01, 0.08]	7	0.07	[0.02, 0.14]
Hindi	1	0.03	[0.00, 0.08]	1	0.01	[0.00, 0.03]	6	0.06	[0.02, 0.12]
Urdu	0	—	—	1	0.01	[0.00, 0.03]	5	0.05	[0.01, 0.11]
Marathi	3	0.08	[0.00, 0.17]	9	0.09	[0.04, 0.15]	14	0.15	[0.07, 0.22]
Tamil	3	0.08	[0.00, 0.18]	9	0.09	[0.04, 0.15]	25	0.27	[0.18, 0.35]
English (India)	3	0.08	[0.00, 0.18]	18	0.18	[0.11, 0.26]	24	0.26	[0.18, 0.35]
English (U.S.)	3	0.08	[0.00, 0.17]	17	0.17	[0.10, 0.24]	32	0.34	[0.24, 0.43]
Mandarin	8	0.21	[0.09, 0.35]	35	0.35	[0.25, 0.45]	45	0.48	[0.38, 0.59]

Table S4
Mean Wealth Association by Speaker Language and Child Grade

	3rd			5th			7th		
	n	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]
Less Money									
Gujarati	5	0.13	[0.03, 0.25]	24	0.24	[0.16, 0.32]	12	0.13	[0.07, 0.20]
Hindi	9	0.24	[0.12, 0.39]	22	0.22	[0.14, 0.31]	12	0.13	[0.06, 0.20]
Urdu	7	0.18	[0.07, 0.31]	16	0.16	[0.09, 0.23]	8	0.09	[0.03, 0.15]
Marathi	6	0.17	[0.05, 0.30]	23	0.23	[0.15, 0.31]	8	0.09	[0.03, 0.15]
Tamil	6	0.16	[0.05, 0.29]	25	0.25	[0.17, 0.33]	18	0.19	[0.12, 0.28]
English (India)	8	0.22	[0.09, 0.35]	13	0.13	[0.07, 0.20]	10	0.11	[0.05, 0.18]
English (U.S.)	5	0.13	[0.05, 0.24]	9	0.09	[0.04, 0.15]	6	0.06	[0.02, 0.12]
Mandarin	4	0.11	[0.02, 0.21]	8	0.08	[0.03, 0.13]	12	0.13	[0.06, 0.19]
As Much Money									
Gujarati	13	0.34	[0.20, 0.5]	43	0.43	[0.33, 0.52]	55	0.59	[0.50, 0.69]
Hindi	13	0.35	[0.20, 0.51]	40	0.40	[0.31, 0.5]	54	0.57	[0.47, 0.67]
Urdu	19	0.49	[0.33, 0.64]	49	0.49	[0.39, 0.58]	55	0.59	[0.49, 0.68]
Marathi	14	0.39	[0.23, 0.56]	38	0.38	[0.28, 0.47]	41	0.44	[0.34, 0.53]
Tamil	15	0.39	[0.25, 0.56]	40	0.40	[0.31, 0.49]	37	0.40	[0.30, 0.51]
English (India)	14	0.38	[0.24, 0.54]	22	0.22	[0.14, 0.30]	29	0.31	[0.22, 0.39]
English (U.S.)	11	0.29	[0.15, 0.45]	32	0.32	[0.23, 0.41]	38	0.40	[0.31, 0.51]
Mandarin	7	0.19	[0.07, 0.32]	25	0.25	[0.16, 0.33]	19	0.20	[0.13, 0.30]
More Money									
Gujarati	15	0.39	[0.25, 0.55]	29	0.29	[0.20, 0.39]	11	0.12	[0.06, 0.18]
Hindi	12	0.32	[0.17, 0.48]	31	0.31	[0.22, 0.40]	11	0.12	[0.05, 0.18]
Urdu	12	0.31	[0.17, 0.46]	34	0.34	[0.24, 0.43]	12	0.13	[0.06, 0.19]
Marathi	12	0.33	[0.18, 0.50]	33	0.33	[0.24, 0.42]	11	0.12	[0.05, 0.18]
Tamil	14	0.37	[0.21, 0.53]	30	0.30	[0.21, 0.38]	6	0.06	[0.02, 0.12]
English (India)	13	0.35	[0.19, 0.5]	61	0.62	[0.52, 0.71]	32	0.34	[0.24, 0.44]
English (U.S.)	21	0.55	[0.40, 0.71]	56	0.55	[0.46, 0.66]	25	0.27	[0.18, 0.37]
Mandarin	19	0.51	[0.37, 0.67]	57	0.56	[0.46, 0.67]	32	0.34	[0.26, 0.45]
No Opinion									
Gujarati	5	0.13	[0.03, 0.25]	5	0.05	[0.01, 0.09]	15	0.16	[0.09, 0.24]
Hindi	3	0.08	[0.00, 0.17]	7	0.07	[0.02, 0.13]	17	0.18	[0.11, 0.26]
Urdu	1	0.03	[0.00, 0.09]	2	0.02	[0.00, 0.05]	19	0.20	[0.13, 0.29]
Marathi	4	0.11	[0.03, 0.22]	7	0.07	[0.03, 0.13]	34	0.36	[0.27, 0.46]
Tamil	3	0.08	[0.00, 0.17]	4	0.04	[0.01, 0.08]	32	0.34	[0.24, 0.44]
English (India)	2	0.05	[0.00, 0.14]	3	0.03	[0.00, 0.07]	23	0.24	[0.16, 0.33]
English (U.S.)	1	0.03	[0.00, 0.09]	4	0.04	[0.01, 0.08]	25	0.27	[0.18, 0.36]
Mandarin	7	0.19	[0.07, 0.32]	11	0.11	[0.06, 0.17]	31	0.33	[0.23, 0.42]

Table S5

Mean Face Selection by Child Grade for Languages Presented via Audio

	3rd			5th			7th		
	n	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]
Hindu									
Gujarati	12	0.23	[0.13, 0.35]	58	0.58	[0.49, 0.68]	63	0.67	[0.57, 0.77]
Hindi	14	0.27	[0.15, 0.40]	28	0.28	[0.19, 0.37]	30	0.32	[0.23, 0.41]
Urdu	14	0.27	[0.15, 0.40]	19	0.19	[0.11, 0.26]	11	0.12	[0.05, 0.18]
Marathi	11	0.21	[0.11, 0.33]	36	0.36	[0.28, 0.45]	47	0.50	[0.39, 0.60]
Tamil	6	0.12	[0.04, 0.21]	20	0.20	[0.13, 0.28]	25	0.27	[0.18, 0.36]
English (India)	5	0.10	[0.02, 0.19]	0	—	—	7	0.07	[0.02, 0.14]
English (U.S.)	1	0.02	[0.00, 0.06]	2	0.02	[0.00, 0.05]	1	0.01	[0.00, 0.03]
Mandarin	7	0.14	[0.06, 0.24]	7	0.07	[0.03, 0.12]	0	—	—
Muslim									
Gujarati	18	0.35	[0.23, 0.48]	5	0.05	[0.01, 0.10]	6	0.06	[0.02, 0.12]
Hindi	22	0.42	[0.29, 0.56]	41	0.41	[0.32, 0.51]	57	0.61	[0.51, 0.70]
Urdu	25	0.48	[0.33, 0.62]	47	0.47	[0.37, 0.57]	55	0.59	[0.49, 0.68]
Marathi	9	0.17	[0.08, 0.29]	6	0.06	[0.02, 0.11]	0	—	—
Tamil	12	0.23	[0.12, 0.35]	18	0.18	[0.11, 0.26]	5	0.05	[0.01, 0.11]
English (India)	2	0.04	[0.00, 0.10]	9	0.09	[0.04, 0.15]	4	0.04	[0.01, 0.10]
English (U.S.)	6	0.12	[0.04, 0.21]	4	0.04	[0.01, 0.08]	2	0.02	[0.00, 0.05]
Mandarin	2	0.04	[0.00, 0.10]	3	0.03	[0.00, 0.07]	1	0.01	[0.00, 0.03]
Dravidian									
Gujarati	14	0.27	[0.15, 0.39]	28	0.28	[0.19, 0.37]	20	0.21	[0.14, 0.3]
Hindi	6	0.12	[0.04, 0.21]	12	0.12	[0.06, 0.19]	19	0.20	[0.12, 0.29]
Urdu	6	0.12	[0.04, 0.21]	22	0.22	[0.14, 0.31]	26	0.28	[0.19, 0.37]
Marathi	16	0.31	[0.19, 0.43]	42	0.42	[0.33, 0.52]	46	0.49	[0.39, 0.60]
Tamil	8	0.15	[0.08, 0.26]	24	0.24	[0.16, 0.33]	35	0.37	[0.29, 0.47]
English (India)	10	0.19	[0.10, 0.31]	14	0.14	[0.08, 0.21]	7	0.07	[0.03, 0.13]
English (U.S.)	11	0.21	[0.11, 0.33]	18	0.18	[0.11, 0.25]	9	0.10	[0.04, 0.16]
Mandarin	6	0.12	[0.04, 0.21]	4	0.04	[0.01, 0.08]	1	0.01	[0.00, 0.03]
White									
Gujarati	5	0.10	[0.02, 0.17]	1	0.01	[0.00, 0.03]	3	0.03	[0.00, 0.07]
Hindi	5	0.10	[0.02, 0.19]	7	0.07	[0.02, 0.12]	0	—	—
Urdu	3	0.06	[0.00, 0.13]	4	0.04	[0.01, 0.08]	2	0.02	[0.00, 0.05]
Marathi	11	0.21	[0.10, 0.32]	4	0.04	[0.01, 0.08]	2	0.02	[0.00, 0.05]
Tamil	11	0.21	[0.11, 0.32]	17	0.17	[0.10, 0.24]	12	0.13	[0.06, 0.20]
English (India)	31	0.60	[0.46, 0.71]	63	0.63	[0.53, 0.72]	77	0.82	[0.74, 0.89]
English (U.S.)	20	0.38	[0.25, 0.53]	62	0.62	[0.52, 0.71]	78	0.84	[0.76, 0.91]
Mandarin	4	0.08	[0.02, 0.15]	20	0.20	[0.13, 0.28]	5	0.05	[0.01, 0.11]
Asian									
Gujarati	4	0.08	[0.02, 0.16]	5	0.05	[0.01, 0.10]	2	0.02	[0.00, 0.05]
Hindi	4	0.08	[0.02, 0.15]	9	0.09	[0.04, 0.15]	1	0.01	[0.00, 0.04]
Urdu	5	0.10	[0.02, 0.18]	5	0.05	[0.01, 0.10]	6	0.06	[0.02, 0.12]
Marathi	6	0.12	[0.04, 0.21]	7	0.07	[0.02, 0.12]	1	0.01	[0.00, 0.03]
Tamil	14	0.27	[0.15, 0.40]	17	0.17	[0.10, 0.24]	13	0.14	[0.06, 0.21]
English (India)	4	0.08	[0.02, 0.15]	11	0.11	[0.05, 0.17]	7	0.07	[0.02, 0.13]
English (U.S.)	14	0.27	[0.15, 0.40]	11	0.11	[0.05, 0.18]	9	0.10	[0.04, 0.16]
Mandarin	29	0.58	[0.45, 0.71]	62	0.62	[0.52, 0.71]	78	0.83	[0.74, 0.90]

Table S6

Mean Face Selection by Child Grade for Languages Presented by Language Name

	3rd			5th			7th		
	n	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]
Hindu									
Gujarati	25	0.48	[0.34, 0.62]	58	0.58	[0.49, 0.67]	59	0.63	[0.53, 0.72]
Hindi	14	0.27	[0.15, 0.40]	34	0.34	[0.25, 0.44]	38	0.41	[0.32, 0.51]
Urdu	8	0.15	[0.06, 0.25]	8	0.08	[0.03, 0.14]	2	0.02	[0.00, 0.05]
Marathi	16	0.31	[0.19, 0.43]	43	0.43	[0.33, 0.53]	61	0.65	[0.55, 0.73]
Tamil	16	0.31	[0.19, 0.43]	24	0.24	[0.16, 0.32]	21	0.22	[0.14, 0.31]
English	0	—	—	3	0.03	[0.00, 0.07]	1	0.01	[0.00, 0.03]
Mandarin	1	0.02	[0.00, 0.06]	3	0.03	[0.00, 0.07]	1	0.01	[0.00, 0.03]
Muslim									
Gujarati	6	0.12	[0.04, 0.21]	10	0.10	[0.04, 0.17]	11	0.12	[0.05, 0.18]
Hindi	23	0.44	[0.30, 0.58]	43	0.43	[0.32, 0.53]	62	0.67	[0.56, 0.76]
Urdu	30	0.58	[0.45, 0.71]	65	0.65	[0.55, 0.74]	87	0.93	[0.87, 0.97]
Marathi	3	0.06	[0.00, 0.13]	2	0.02	[0.00, 0.05]	0	—	—
Tamil	5	0.10	[0.02, 0.18]	3	0.03	[0.00, 0.07]	1	0.01	[0.00, 0.03]
English	6	0.12	[0.04, 0.21]	8	0.08	[0.03, 0.14]	2	0.02	[0.00, 0.05]
Mandarin	2	0.04	[0.00, 0.10]	3	0.03	[0.00, 0.07]	0	—	—
Dravidian									
Gujarati	13	0.25	[0.13, 0.37]	19	0.19	[0.12, 0.27]	19	0.20	[0.13, 0.29]
Hindi	9	0.17	[0.08, 0.27]	10	0.10	[0.04, 0.16]	6	0.06	[0.02, 0.12]
Urdu	3	0.06	[0.00, 0.13]	13	0.13	[0.07, 0.20]	1	0.01	[0.00, 0.03]
Marathi	26	0.50	[0.36, 0.64]	41	0.41	[0.31, 0.51]	27	0.29	[0.19, 0.38]
Tamil	17	0.33	[0.21, 0.46]	50	0.50	[0.40, 0.60]	64	0.68	[0.59, 0.78]
English	1	0.02	[0.00, 0.08]	2	0.02	[0.00, 0.05]	3	0.03	[0.00, 0.07]
Mandarin	6	0.12	[0.04, 0.21]	2	0.02	[0.00, 0.05]	3	0.03	[0.00, 0.07]
White									
Gujarati	3	0.06	[0.00, 0.13]	3	0.03	[0.00, 0.07]	1	0.01	[0.00, 0.03]
Hindi	5	0.10	[0.02, 0.17]	3	0.03	[0.00, 0.07]	0	—	—
Urdu	3	0.06	[0.00, 0.13]	1	0.01	[0.00, 0.03]	0	—	—
Marathi	6	0.12	[0.04, 0.21]	6	0.06	[0.02, 0.11]	3	0.03	[0.00, 0.07]
Tamil	9	0.17	[0.08, 0.28]	6	0.06	[0.02, 0.12]	6	0.06	[0.02, 0.12]
English	38	0.73	[0.60, 0.85]	81	0.81	[0.73, 0.88]	87	0.92	[0.85, 0.97]
Mandarin	5	0.10	[0.02, 0.19]	9	0.09	[0.04, 0.15]	5	0.05	[0.01, 0.11]
Asian									
Gujarati	5	0.10	[0.02, 0.18]	3	0.03	[0.00, 0.07]	1	0.01	[0.00, 0.03]
Hindi	1	0.02	[0.00, 0.06]	7	0.07	[0.03, 0.13]	0	—	—
Urdu	8	0.15	[0.06, 0.25]	8	0.08	[0.03, 0.14]	1	0.01	[0.00, 0.03]
Marathi	1	0.02	[0.00, 0.06]	4	0.04	[0.01, 0.08]	3	0.03	[0.00, 0.07]
Tamil	7	0.13	[0.04, 0.23]	11	0.11	[0.05, 0.17]	1	0.01	[0.00, 0.03]
English	7	0.13	[0.06, 0.23]	3	0.03	[0.00, 0.07]	11	0.12	[0.05, 0.19]
Mandarin	38	0.73	[0.60, 0.85]	80	0.80	[0.73, 0.87]	90	0.96	[0.91, 0.99]

Table S7

Mean Learning Rating by Face Type, Language, and Child Grade

	3rd			5th			7th		
	n	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]	*n*	*M*	[95% *CI*]
Hindu									
Gujarati	17	2.6	[2.40, 2.88]	52	2.8	[2.61, 2.87]	46	2.8	[2.59, 2.89]
Hindi	17	2.4	[2.00, 2.69]	52	2.6	[2.48, 2.78]	47	2.6	[2.47, 2.79]
Tamil	16	2.1	[1.80, 2.47]	49	2.1	[1.88, 2.29]	42	2.0	[1.83, 2.25]
English	16	1.9	[1.59, 2.27]	51	1.9	[1.81, 2.04]	41	2.0	[1.85, 2.21]
Chinese	16	1.8	[1.47, 2.18]	43	1.6	[1.38, 1.76]	43	1.7	[1.50, 1.90]
Muslim									
Gujarati	5	2.0	[1.33, 2.57]	52	2.3	[2.09, 2.45]	47	2.5	[2.30, 2.66]
Hindi	6	2.2	[1.60, 2.75]	53	2.7	[2.58, 2.85]	46	2.8	[2.68, 2.94]
Tamil	6	1.0	[1.00, 1.00]	52	1.6	[1.51, 1.81]	43	1.7	[1.53, 1.88]
English	6	1.8	[1.25, 2.43]	52	2.1	[1.91, 2.24]	40	2.0	[1.87, 2.25]
Chinese	5	1.8	[1.00, 2.50]	46	1.5	[1.35, 1.67]	41	1.6	[1.39, 1.76]
Dravidian									
Gujarati	7	1.4	[1.00, 2.00]	50	2.1	[1.90, 2.32]	42	1.8	[1.60, 2.02]
Hindi	7	1.9	[1.20, 2.50]	53	2.4	[2.20, 2.57]	45	2.1	[1.88, 2.28]
Tamil	6	1.7	[1.00, 2.40]	49	2.4	[2.15, 2.57]	42	2.4	[2.16, 2.64]
English	6	2.3	[1.67, 3.00]	50	2.1	[1.88, 2.24]	40	1.9	[1.73, 2.14]
Chinese	4	1.2	[1.00, 1.75]	46	1.5	[1.30, 1.62]	41	1.50	[1.30, 1.63]
White									
Gujarati	17	2.0	[1.67, 2.36]	49	1.7	[1.50, 1.85]	41	1.5	[1.32, 1.71]
Hindi	17	2.0	[1.65, 2.33]	51	1.9	[1.69, 2.04]	44	1.7	[1.51, 1.93]
Tamil	16	1.9	[1.53, 2.19]	52	1.8	[1.6, 2.00]	39	1.5	[1.28, 1.68]
English	17	2.6	[2.18, 2.90]	52	2.8	[2.62, 2.92]	45	2.9	[2.76, 2.96]
Chinese	14	1.9	[1.50, 2.25]	46	1.9	[1.67, 2.02]	40	1.9	[1.76, 2.09]
Asian									
Gujarati	5	1.2	[1.00, 1.67]	52	1.5	[1.31, 1.62]	40	1.4	[1.22, 1.61]
Hindi	6	1.7	[1.00,2.33]	51	1.6	[1.43, 1.81]	43	1.6	[1.46, 1.82]
Tamil	4	2.2	[2.00, 3.00]	52	1.8	[1.55, 2.00]	39	1.5	[1.32, 1.76]
English	6	1.5	[1.00, 2.25]	51	2.3	[2.06, 2.51]	41	2.3	[2.16, 2.52]
Chinese	5	2.0	[1.00, 3.00]	46	2.9	[2.83, 3.00]	46	2.9	[2.80, 2.98]

Table S8

Mixed Effects Multinomial Model of Children's Geographic Origin Associations

	Another place in India vs. Gujarat (same state)[a]			**Outside India (foreign) vs. Gujarat (same state)[a]**		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.23 ***	0.15–0.33	<0.001	0.16 ***	0.10–0.25	<0.001
Hindi	0.52 ***	0.38–0.70	<0.001	0.02 ***	0.00–0.08	<0.001
Urdu	0.59 **	0.44–0.81	0.001	0.08 ***	0.04–0.15	<0.001
Marathi	1.62 **	1.18–2.23	0.003	0.32 ***	0.20–0.53	<0.001
Tamil	4.34 ***	2.84–6.64	<0.001	1.77 *	1.11–2.82	0.017
English (India)	1.32	0.81–2.15	0.258	4.81 ***	3.19–7.23	<0.001
English (U.S.)	2.20 **	1.30–3.74	0.004	6.80 ***	4.23–10.94	<0.001
Mandarin	6.09 ***	2.59–14.32	<0.001	23.38 ***	10.35–52.79	<0.001
Gujarati:Age[b]	0.84	0.65–1.08	0.171	0.63 **	0.48–0.84	0.002
Urdu:Age[b]	1.37 *	1.01–1.86	0.040	1.40	0.86–2.28	0.173
Hindi:Age[b]	1.30	0.96–1.76	0.090	0.58	0.28–1.24	0.162
Marathi:Age[b]	1.31	0.97–1.78	0.079	1.11	0.74–1.66	0.618
Tamil:Age[b]	1.79 **	1.27–2.54	0.001	1.86 **	1.26–2.75	0.002
English (India):Age[b]	1.52 *	1.04–2.22	0.032	2.09 ***	1.45–3.02	<0.001
English (U.S.):Age[b]	1.43	0.97–2.12	0.073	2.38 ***	1.61–3.52	<0.001
Mandarin:Age[b]	1.92 *	1.12–3.29	0.018	2.67 ***	1.57–4.55	<0.001
***N* children[c]**	129					
Observations[d]	1,501					

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Baseline response category selected on 33% of geographic origin association trials, by 127 children.
[b] Mean-centered, in years.
[c] Model includes random intercepts for each child.
[d] Model data is limited to trials where children selected a geographic origin response category, i.e., excluding "No opinion" selections.

Table S9

Mixed Effects Multinomial Model of Children's Religious Associations

	Muslim *vs.* Hindu[a]			**Jain *vs.* Hindu**[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.19 ***	0.12–0.29	<0.001	0.12 ***	0.07–0.20	<0.001
English (India)	0.46 *	0.25–0.88	0.019	0.81	0.48–1.39	0.451
English (U.S.)	1.02	0.52–2.00	0.951	1.60	0.87–2.95	0.129
Hindi	0.70 *	0.51–0.96	0.029	0.19 ***	0.12–0.30	<0.001
Mandarin	4.91 *	1.36–17.71	0.015	10.08 ***	2.92–34.86	<0.001
Marathi	0.14 ***	0.08–0.26	<0.001	0.26 ***	0.17–0.41	<0.001
Tamil	0.68	0.40–1.16	0.157	1.53	0.99–2.37	0.056
Urdu	1.03	0.76–1.39	0.870	0.13 ***	0.07–0.24	<0.001
Gujarati: Age[b]	0.75 *	0.57–0.98	0.035	0.59 **	0.42–0.82	0.002
English (India):Age[b]	1.17	0.74–1.86	0.508	1.63 *	1.02–2.61	0.040
English (U.S.):Age[b]	1.46	0.90–2.37	0.124	1.87 *	1.13–3.09	0.014
Hindi:Age[b]	1.04	0.75–1.45	0.798	1.53	0.97–2.41	0.064
Mandarin:Age[b]	2.72 **	1.32–5.62	0.007	3.52 ***	1.69–7.31	0.001
Marathi:Age[b]	0.60 *	0.38–0.95	0.028	0.98	0.63–1.52	0.923
Tamil:Age[b]	1.16	0.76–1.78	0.497	1.89 **	1.23–2.93	0.004
Urdu:Age[b]	1.15	0.83–1.59	0.415	1.65	0.99–2.77	0.057
	Christian vs. Hindu[a]			**Buddhist vs. Hindu**[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.08 ***	0.04–0.14	<0.001	0.07 ***	0.03–0.13	<0.001
English (India)	2.68 ***	1.75–4.09	<0.001	0.37 **	0.19–0.72	0.004
English (U.S.)	4.88 ***	2.87–8.29	<0.001	1.20	0.63–2.28	0.582
Hindi	0.04 ***	0.02–0.11	<0.001	0.04 ***	0.02–0.11	<0.001
Mandarin	13.67 ***	4.00–46.74	<0.001	7.95 **	2.28–27.75	0.001
Marathi	0.16 ***	0.09–0.28	<0.001	0.27 ***	0.17–0.42	<0.001
Tamil	0.76	0.45–1.28	0.294	1.20	0.75–1.93	0.444
Urdu	0.04 ***	0.01–0.13	<0.001	0.02 ***	0.00–0.11	<0.001
Gujarati:Age[b]	0.63 *	0.42–0.94	0.023	0.69	0.45–1.06	0.090
English (India):Age[b]	2.42 ***	1.50–3.92	<0.001	1.81	0.98–3.33	0.058
English (U.S.):Age[b]	2.38 ***	1.42–3.99	0.001	2.01 *	1.12–3.63	0.020
Hindi:Age[b]	1.45	0.71–2.93	0.305	0.92	0.44–1.92	0.815
Mandarin:Age[b]	3.50 **	1.64–7.47	0.001	3.11 **	1.41–6.83	0.005
Marathi:Age[b]	0.93	0.55–1.57	0.777	1.33	0.80–2.22	0.276
Tamil:Age[b]	1.29	0.77–2.17	0.333	2.29 **	1.35–3.88	0.002
Urdu:Age[b]	0.63	0.29–1.34	0.230	2.72	0.99–7.50	0.053
***N* children**[c]	129					
Observations[d]	1,580					

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Baseline response category selected on 31% of religious association trials, by 129 children.

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data is limited to trials where children selected a single religion, i.e., excluding selections of multiple religions or "No opinion."

Table S10

Mixed Effects Multinomial Model of Children's Religious Associations, Given Language, Child Age, and Child Religion (Hindu vs. Muslim)

	Muslim *vs.* Hindu[a]			**Jain *vs.* Hindu**[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.10 ***	0.05–0.20	<0.001	0.10 ***	0.05–0.20	<0.001
English (India)	0.42 *	0.17–0.99	0.046	0.68	0.32–1.42	0.299
English (U.S.)	1.20	0.40–3.62	0.747	3.07 *	1.20–7.88	0.019
Hindi	0.21 ***	0.12–0.35	<0.001	0.15 ***	0.08–0.27	<0.001
Mandarin	18.08 **	2.10–155.84	0.008	19.46 **	2.27–167.05	0.007
Marathi	0.15 ***	0.08–0.30	<0.001	0.08 ***	0.03–0.18	<0.001
Tamil	0.58	0.28–1.17	0.129	1.33	0.76–2.35	0.321
Urdu	0.43 ***	0.28–0.66	<0.001	0.08 ***	0.03–0.19	<0.001
Gujarati:Muslim	3.29 **	1.33–8.14	0.010	1.55	0.57–4.18	0.387
English (India):Muslim	0.40	0.09–1.77	0.227	0.91	0.22–3.81	0.896
English (U.S.):Muslim	0.26	0.05–1.35	0.109	0.18 *	0.04–0.90	0.036
Hindi:Muslim	3.06	0.97–9.61	0.056	1.30	0.32–5.31	0.710
Mandarin:Muslim	0.03 **	0.00–0.41	0.008	0.23	0.02–2.77	0.248
Marathi:Muslim	0.21	0.04–1.02	0.053	6.75 **	1.59–28.55	0.010
Tamil:Muslim	0.37	0.09–1.48	0.160	0.70	0.18–2.64	0.596
Urdu:Muslim	1.66	0.55–5.01	0.366	1.53	0.30–7.64	0.607
Gujarati:Age[b]	0.74 *	0.56–0.97	0.032	0.57 **	0.41–0.80	0.001
English (India):Age[b]	1.20	0.74–1.94	0.465	1.80 *	1.12–2.91	0.015
English (U.S.):Age[b]	1.45	0.88–2.40	0.144	1.84 *	1.10–3.09	0.020
Hindi:Age[b]	1.08	0.75–1.54	0.679	1.56	0.98–2.47	0.059
Mandarin:Age[b]	2.33 *	1.12–4.84	0.023	3.11 **	1.51–6.38	0.002
Marathi:Age[b]	0.55 *	0.33–0.91	0.020	0.99	0.62–1.58	0.978
Tamil:Age[b]	1.07	0.68–1.69	0.763	1.86 **	1.19–2.91	0.006
Urdu:Age[b]	1.13	0.80–1.61	0.483	1.82 *	1.06–3.15	0.031

	Christian *vs.* Hindu[a]			**Buddhist *vs.* Hindu**[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.07 ***	0.03–0.16	<0.001	0.07 ***	0.03–0.16	<0.001
English (India)	2.81 ***	1.62–4.91	<0.001	0.29 *	0.11–0.78	0.014
English (U.S.)	9.79 ***	4.14–23.15	<0.001	1.40	0.48–4.10	0.541
Hindi	0.02 ***	0.01–0.10	<0.001	0.03 ***	0.01–0.11	<0.001
Mandarin	45.69 ***	5.52–378.17	<0.001	12.50 *	1.41–111.23	0.024
Marathi	0.06 ***	0.02–0.16	<0.001	0.05 ***	0.02–0.15	<0.001
Tamil	0.50	0.24–1.04	0.063	1.25	0.70–2.24	0.452
Urdu	0.02 ***	0.01–0.10	<0.001	0.02 ***	0.00–0.13	<0.001
Gujarati:Muslim	1.19	0.34–4.15	0.789	0.97	0.26–3.62	0.960
English (India):Muslim	0.71	0.16–3.18	0.651	1.79	0.27–11.75	0.545
English (U.S.):Muslim	0.24	0.05–1.27	0.093	0.95	0.15–6.12	0.954
Hindi:Muslim	2.57	0.24–27.43	0.434	2.09	0.21–20.35	0.525
Mandarin:Muslim	0.10	0.01–1.31	0.080	0.53	0.04–7.54	0.636
Marathi:Muslim	6.54 *	1.19–35.99	0.031	16.56 **	2.87–95.67	0.002
Tamil:Muslim	1.99	0.40–9.97	0.403	0.94	0.19–4.67	0.939
Urdu:Muslim	2.85	0.36–22.24	0.318	0.96	0.07–13.81	0.975
Gujarati:Age[b]	0.63 *	0.41–0.95	0.028	0.69	0.45–1.06	0.092
English (India):Age[b]	2.45 ***	1.49–4.05	<0.001	1.85 *	1.01–3.40	0.048
English (U.S.):Age[b]	2.33 **	1.36–3.99	0.002	1.98 *	1.10–3.56	0.023
Hindi:Age[b]	1.29	0.60–2.79	0.511	0.92	0.44–1.94	0.836
Mandarin:Age[b]	2.94 **	1.37–6.29	0.005	2.59 *	1.20–5.60	0.016
Marathi:Age[b]	0.90	0.52–1.57	0.714	1.21	0.71–2.06	0.490
Tamil:Age[b]	1.29	0.76–2.21	0.347	2.20 **	1.30–3.73	0.003
Urdu:Age[b]	0.64	0.30–1.37	0.246	2.62	0.99–6.93	0.053
***N* children**[c]	129					
Observations[d]	1,580					

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Baseline response category selected on 31% of religious association trials, by 129 children.

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data is limited to trials where children selected a single religion, i.e., excluding selections of multiple religions or "No opinion."

Table S11

Mixed Effects Multinomial Model of Children's Face Type Selection for Languages Presented via Audio

	Muslim vs. Hindu[a]			Dravidian vs. Hindu[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.11 ***	0.06–0.22	<0.001	0.49 ***	0.36–0.67	<0.001
Hindi	1.78 ***	1.30–2.43	<0.001	0.53 **	0.35–0.81	0.003
Urdu	3.67 ***	2.46–5.48	<0.001	1.48	0.94–2.33	0.094
Marathi	0.09 ***	0.04–0.22	<0.001	1.13	0.84–1.52	0.411
Tamil	0.67	0.42–1.08	0.098	1.31	0.89–1.94	0.174
English (India)	1.52	0.68–3.41	0.310	2.85 **	1.36–5.95	0.005
English (U.S.)	2.12	0.58–7.79	0.257	8.83 ***	2.91–26.77	<0.001
Mandarin	0.72	0.22–2.40	0.591	0.97	0.30–3.12	0.956
Gujarati:Age[b]	0.39 ***	0.28–0.56	<0.001	0.81 *	0.66–0.99	0.039
Hindi:Age[b]	2.80 ***	1.86–4.21	<0.001	1.39	0.99–1.93	0.055
Urdu:Age[b]	3.59 ***	2.34–5.53	<0.001	1.89 ***	1.34–2.65	<0.001
Marathi:Age[b]	1.04	0.58–1.85	0.903	1.17	0.89–1.54	0.256
Tamil:Age[b]	1.62 *	1.02–2.57	0.042	1.28	0.93–1.75	0.132
English (India):Age[b]	2.97 ***	1.61–5.47	<0.001	1.10	0.68–1.79	0.705
English (U.S.):Age[b]	2.08	0.89–4.85	0.089	1.25	0.62–2.52	0.529
Mandarin:Age[b]	4.04 ***	1.88–8.66	<0.001	1.43	0.75–2.70	0.274
	White vs. Hindu[a]			Asian vs. Hindu[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.06 ***	0.03–0.14	<0.001	0.08 ***	0.04–0.16	<0.001
Hindi	0.15 ***	0.07–0.32	<0.001	0.18 ***	0.09–0.36	<0.001
Urdu	0.27 ***	0.13–0.57	0.001	0.39 **	0.20–0.77	0.006
Marathi	0.12 ***	0.05–0.25	<0.001	0.14 ***	0.07–0.26	<0.001
Tamil	0.82	0.53–1.27	0.378	0.87	0.56–1.34	0.527
English (India)	16.57 ***	8.67–31.69	<0.001	1.60	0.71–3.60	0.259
English (U.S.)	40.19 ***	13.86–116.52	<0.001	6.68 **	2.15–20.79	0.001
Mandarin	3.35 *	1.33–8.44	0.010	21.12 ***	9.00–49.59	<0.001
Gujarati:Age[b]	0.58 *	0.37–0.92	0.020	0.63 *	0.42–0.95	0.027
Hindi:Age[b]	1.11	0.59–2.08	0.738	1.09	0.62–1.91	0.769
Urdu:Age[b]	2.09 *	1.09–3.99	0.026	1.69	0.96–2.97	0.070
Marathi:Age[b]	0.74	0.40–1.37	0.338	0.90	0.51–1.59	0.723
Tamil:Age[b]	1.24	0.72–2.11	0.438	1.09	0.67–1.79	0.722
English (India):Age[b]	2.05 *	1.12–3.76	0.020	1.38	0.73–2.61	0.316
English (U.S.):Age[b]	2.58 *	1.17–5.70	0.019	1.36	0.62–3.01	0.442
Mandarin:Age[b]	3.26 ***	1.66–6.40	0.001	3.69 ***	2.01–6.77	<0.001
***N* children[c]**	126					
Observations[d]	1,849					

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Baseline response category selected on 20% of audio speaker-selection trials, by 126 children.

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data is limited to trials where children selected a single face, i.e., excluding selections of multiple faces or "No opinion."

Table S12

Mixed Effects Multinomial Models of Children's Single-Face Selections for Languages Presented by Language Name

	Muslim vs. Hindu[a]			Dravidian vs. Hindu[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.16 ***	0.10–0.26	<0.001	0.36 ***	0.26–0.50	<0.001
Hindi	1.58 **	1.18–2.11	0.002	0.28 ***	0.17–0.46	<0.001
Urdu	12.44 ***	6.91–22.37	<0.001	1.06	0.49–2.30	0.883
Marathi	0.03 ***	0.01–0.10	<0.001	0.78	0.59–1.04	0.086
Tamil	0.11 ***	0.04–0.27	<0.001	2.10 ***	1.53–2.87	<0.001
English	3.58	0.95–13.52	0.060	1.68	0.39–7.13	0.485
Mandarin	1.38	0.27–7.00	0.700	2.99	0.71–12.61	0.136
Gujarati:Age[b]	0.83	0.63–1.09	0.175	0.92	0.75–1.12	0.393
Hindi:Age[b]	1.23	0.88–1.71	0.226	0.84	0.58–1.21	0.340
Urdu:Age[b]	2.15 ***	1.39–3.34	0.001	1.24	0.76–2.03	0.384
Marathi:Age[b]	0.59	0.29–1.20	0.143	0.77	0.59–1.01	0.063
Tamil:Age[b]	0.79	0.45–1.38	0.404	1.44 *	1.09–1.92	0.011
English:Age[b]	0.84	0.36–1.94	0.682	1.12	0.45–2.76	0.812
Mandarin:Age[b]	1.33	0.52–3.38	0.553	1.18	0.53–2.66	0.686
	White vs. Hindu[a]			Asian vs. Hindu[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.02 ***	0.01–0.09	<0.001	0.05 ***	0.0–20.12	<0.001
Hindi	0.05 ***	0.02–0.18	<0.001	0.10 ***	0.05–0.22	<0.001
Urdu	0.05 *	0.00–0.91	0.042	0.91	0.40–2.08	0.818
Marathi	0.12 ***	0.07–0.22	<0.001	0.07 ***	0.03–0.15	<0.001
Tamil	0.33 ***	0.19–0.56	<0.001	0.25 ***	0.13–0.46	<0.001
English	66.12 ***	20.81–210.03	<0.001	5.25 **	1.50–18.38	0.009
Mandarin	4.44 *	1.12–17.53	0.034	66.83 ***	18.92–236.02	<0.001
Gujarati:Age[b]	0.47 *	0.24–0.91	0.025	0.60 *	0.38–0.96	0.033
Hindi:Age[b]	0.97	0.40–2.37	0.942	1.29	0.67–2.49	0.445
Urdu:Age[b]	0.90	0.22–3.75	0.887	1.60	0.83–3.09	0.159
Marathi:Age[b]	1.37	0.65–2.89	0.406	1.42	0.742.71	0.291
Tamil:Age[b]	1.75	0.84–3.64	0.134	1.18	0.66–2.12	0.580
English:Age[b]	2.44	0.93–6.41	0.069	1.59	0.653.88	0.312
Mandarin:Age[b]	2.53	0.93–6.89	0.069	2.83 *	1.23–6.50	0.014
***N* children[c]**	126					
Observations[d]	1,633					

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Baseline response category selected on 24% of language-name speaker-selection trials, by 126 children.

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data is limited to trials where children selected a single face, i.e., excluding selections of multiple faces or "No opinion."

Table S13

Mixed Effects Multinomial Model of Children's Single-Face Selections, Given Language, Child Age, and Presentation Modality (Audio vs. Language Name)

	Muslim vs. Hindu[a]			Dravidian vs. Hindu[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.20 ***	0.13–0.31	<0.001	0.47 ***	0.35–0.64	<0.001
Hindi	1.80 ***	1.32–2.45	<0.001	0.53 **	0.35–0.81	0.004
Mandarin	0.44	0.17–1.14	0.092	0.80	0.36–1.76	0.573
Marathi	0.17 ***	0.10–0.30	<0.001	1.12	0.84–1.49	0.452
Tamil	0.72	0.46–1.11	0.139	1.34	0.92–1.95	0.122
Urdu	3.31 ***	2.29–4.79	<0.001	1.36	0.89–2.08	0.160
Age[b]	0.94	0.87–1.01	0.081	0.97	0.91–1.03	0.338
Gujarati:Name	0.83	0.45–1.52	0.543	0.75	0.48–1.18	0.215
Hindi:Name	1.06	0.51–2.24	0.871	0.74	0.34–1.61	0.447
Mandarin:Name	3.52	0.62–19.99	0.156	4.64 *	1.08–19.99	0.039
Marathi:Name	0.30	0.09–1.02	0.053	0.92	0.51–1.68	0.792
Tamil:Name	0.26 *	0.09–0.72	0.010	2.17 *	1.12–4.19	0.021
Urdu:Name	3.72 **	1.57–8.81	0.003	0.93	0.38–2.30	0.872
	White vs. Hindu[a]			Asian vs. Hindu[a]		
Predictors	OR	95% CI	*p*	OR	95% CI	*p*
Gujarati	0.06 ***	0.03–0.12	<0.001	0.08 ***	0.05–0.16	<0.001
Hindi	0.17 ***	0.09–0.32	<0.001	0.22 ***	0.12–0.40	<0.001
Mandarin	1.84	0.95–3.56	0.069	12.38 ***	7.16–21.41	<0.001
Marathi	0.17 ***	0.10–0.29	<0.001	0.16 ***	0.09–0.28	<0.001
Tamil	0.75	0.49–1.16	0.192	0.88	0.58–1.34	0.564
Urdu	0.21 ***	0.10–0.44	<0.001	0.37 **	0.20–0.69	0.002
Age[b]	0.68 ***	0.61–0.76	<0.001	0.85 ***	0.77–0.93	<0.001
Gujarati:Name	0.61	0.21–1.76	0.356	0.76	0.30–1.89	0.552
Hindi:Name	0.90	0.21–3.80	0.889	0.63	0.17–2.31	0.482
Mandarin:Name	3.29	0.62–17.51	0.162	5.62 *	1.31–24.09	0.020
Marathi:Name	1.08	0.29–4.01	0.903	0.56	0.15–2.05	0.385
Tamil:Name	0.70	0.20–2.45	0.576	0.45	0.15–1.41	0.173
Urdu:Name	1.54	0.28–8.32	0.619	3.32	0.92–12.03	0.068
***N* children**[c]	126					
Observations[d]	2,779					

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Baseline response category selected on 28% of non–English-language face trials, and at least once by all 126 children.

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data is limited to trials where children selected a single face, i.e., excluding selections of multiple faces or "No opinion."

Table S14
Cumulative Link Mixed Model of Children's Wealth Associations

	Wealth[a]		
Predictors	OR	95% CI	*p*
"less money"|"as much"	0.23 ***	0.17–0.32	<0.001
"as much"|"more money"	2.61 ***	1.92–3.55	<0.001
Hindi	0.95	0.66–1.38	0.789
English (India)	2.63 ***	1.78–3.88	<0.001
English (U.S.)	2.68 ***	1.82–3.93	<0.001
Mandarin	3.46 ***	2.30–5.20	<0.001
Marathi	1.07	0.73–1.57	0.717
Tamil	0.79	0.54–1.16	0.237
Urdu	1.16	0.81–1.67	0.424
Age[b]	0.88 *	0.79–0.98	0.018
***N* children**[c]	127		
Observations[d]	1,588		
Marginal R2	0.076		
Conditional R2	0.224		

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Ordinal variable: "more money than the people in my city" >"as much money as the people in my city" >"less money than the people in my city"
[b] Mean-centered, in years.
[c] Model includes random intercepts for each child.
[d] Model data excludes "No opinion" selections.

Table S15

Cumulative Link Mixed Model of Children's Predicted Gujarati-Learning by Different Speaker Types

	"*Gujarati*" Learning[a]		
Predictors	OR	95% CI	*p*
"Not at all"|"Medium"	0.03 ***	0.02–0.05	<0.001
"Medium"|"Very well"	0.29 ***	0.19–0.46	<0.001
Muslim	0.22 ***	0.12–0.40	<0.001
Dravidian	0.08 ***	0.04–0.15	<0.001
White	0.04 ***	0.02–0.07	<0.001
Asian	0.02 ***	0.01–0.03	<0.001
Hindu:Age[b]	1.12	0.84–1.49	0.429
Muslim:Age	1.09	0.73–1.62	0.678
Dravidian:Age	0.79	0.52–1.18	0.246
White:Age	0.60 **	0.41–0.87	0.007
Asian:Age	0.83	0.55–1.26	0.385
***N* children**[c]	118		
Observations[d]	527		
Marginal R2	0.407		
Conditional R2	0.433		

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Ordinal variable: "Very well (100%)" >"Medium (50%)" >"Not at all (0%)'

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data excludes "No opinion" selections.

Table S16

Cumulative Link Mixed Model of Children's Predicted Hindi-Learning by Different Speaker Types

	"*Hindi*" Learning[a]		
Predictors	OR	95% CI	*p*
"Not at all"|"Medium"	0.04 ***	0.03–0.07	<0.001
"Medium"|"Very well"	0.51 **	0.34–0.78	0.002
Muslim	1.70	0.91–3.17	0.096
Dravidian	0.32 ***	0.18–0.57	<0.001
White	0.09 ***	0.05–0.17	<0.001
Asian	0.05 ***	0.03–0.10	<0.001
Hindu:Age[b]	1.19	0.90–1.56	0.228
Muslim:Age	1.13	0.73–1.76	0.583
Dravidian:Age	0.74	0.50–1.08	0.121
White:Age	0.63 *	0.44–0.90	0.011
Asian:Age	0.77	0.52–1.14	0.194
***N* children**[c]	118		
Observations[d]	543		
Marginal R2	0.350		
Conditional R2	0.435		

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Ordinal variable: "Very well (100%)" >"Medium (50%)" >"Not at all (0%)'

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data excludes "No opinion" selections.

Table S17

Cumulative Link Mixed Model of Children's Predicted Tamil-Learning by Different Speaker Types

	"*Tamil*" Learning[a]		
Predictors	OR	95% CI	*p*
"Not at all"|"Medium"	0.28 ***	0.19–0.43	<0.001
"Medium"|"Very well"	2.39 ***	1.60–3.57	<0.001
Muslim	0.29 ***	0.17–0.50	<0.001
Dravidian	2.10 *	1.19–3.71	0.010
White	0.35 ***	0.21–0.60	<0.001
Asian	0.40 **	0.23–0.70	0.001
Hindu:Age[b]	0.92	0.72–1.17	0.495
Muslim:Age	1.37	0.95–1.97	0.095
Dravidian:Age	1.52 *	1.03–2.25	0.034
White:Age	0.70 *	0.50–0.99	0.045
Asian:Age	0.71	0.48–1.06	0.096
***N* children**[c]	117		
Marginal R2	0.190		
Conditional R2	0.280		

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Ordinal variable: "Very well (100%)" >"Medium (50%)" >"Not at all (0%)'

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data excludes "No opinion" selections.

Table S18

Cumulative Link Mixed Model of Children's Predicted English-Learning by Different Speaker Types

	"*English*" Learning[a]		
Predictors	OR	95% CI	*p*
"Not at all"|"Medium"	0.30 ***	0.20–0.44	<0.001
"Medium"|"Very well"	4.07 ***	2.74–6.04	<0.001
Muslim	1.23	0.72–2.09	0.442
Dravidian	1.38	0.81–2.37	0.241
White	18.55 ***	9.71–35.41	<0.001
Asian	2.20 **	1.26–3.85	0.006
Hindu:Age[b]	0.97	0.76–1.23	0.788
Muslim:Age	1.13	0.78–1.64	0.525
Dravidian:Age	0.76	0.53–1.10	0.150
White:Age	1.42	0.95–2.12	0.088
Asian:Age	1.38	0.94–2.03	0.102
***N* children**[c]	118		
Observations[d]	519		
Marginal R2	0.300		
Conditional R2	0.308		

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Ordinal variable: "Very well (100%)" >"Medium (50%)" >"Not at all (0%)'

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data excludes "No opinion" selections.

Table S19

Cumulative Link Mixed Model of Children's Predicted Mandarin-Learning by Different Speaker Types

	"*Chinese*" Learning[a]		
Predictors	OR	95% CI	*p*
"Not at all"|"Medium"	0.74	0.48–1.14	0.168
"Medium"|"Very well"	13.79 ***	7.93–23.99	<0.001
Muslim	0.68	0.38–1.20	0.183
Dravidian	0.52 *	0.29–0.93	0.028
White	2.16 **	1.24–3.77	0.006
Asian	146.96 ***	58.95–366.33	<0.001
Age[b]	1.00	0.84–1.18	0.992
***N* children**[c]	110		
Observations[d]	487		
Marginal R2	0.527		
Conditional R2	0.599		

* $p < 0.05$ ** $p < 0.01$ *** $p < 0.001$

[a] Ordinal variable: "Very well (100%)" >"Medium (50%)" >"Not at all (0%)'

[b] Mean-centered, in years.

[c] Model includes random intercepts for each child.

[d] Model data excludes "No opinion" selections.

Linguistic Essentialism

Explicit Linguistic Essentialism Prompts

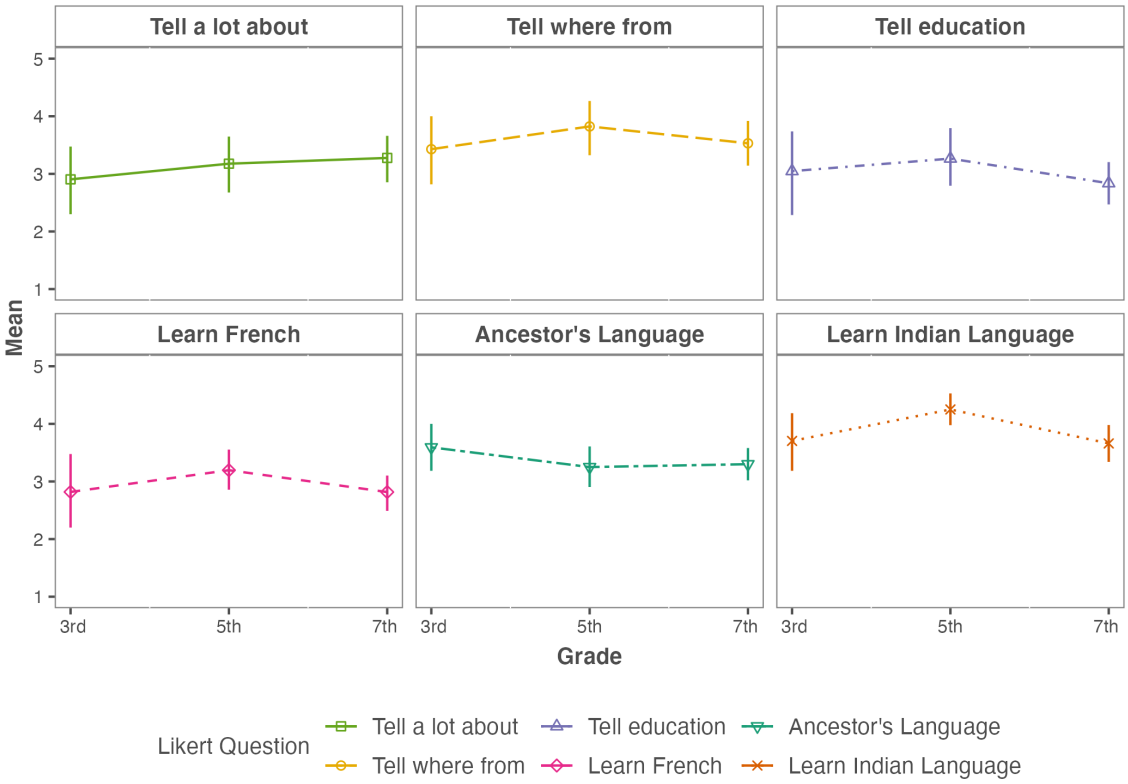

Figure S3: *Mean Responses to Likert Essentialism Prompts by Child Grade.* Points plot the mean of children's responses (on a scale from 1—*Strongly Disagree* to 5—*Strongly Agree*) at each grade, with error bars reflecting 95% bootstrapped confidence intervals. Panels display the selection rates for each question individually.

Children additionally responded to a set of Likert-style items adapting and extending classic essentialism probes (items 1–3, below; Byers-Heinlein and Garcia, 2015; Gelman and Hirschfeld, 1999; Gelman et al., 2007). Given the low intercorrelation between responses on these three items (Cronbach's $\alpha = 0.035$), we did not analyze this method of accessing children's essentialist reasoning any further.

We also measured children's agreement with more general statements about what can be assumed about a person from the languages they speak (items 4–6). Children responded on a 5-point scale from "Strongly Disagree" to "Strongly Agree," and justified their responses (these open-ended responses are not analyzed here). Mean responses to each question are plotted by child grade in Figure S3.

(1) Ancestors: It is easier to learn a language that was spoken by your ancestors than a language that was not spoken by your ancestors, even if no one in your family currently speaks it. *(Why?)*

(2) India: Imagine two people, one who is from India, one is not from India. It will be easier for the person from India originally to learn an Indian language (e.g., Gujarati, Hindi, Marathi), even if they do not live in India now, and do not know any other Indian languages. *(Why?)*

(3) FRENCH: I could learn French as well as someone whose ancestors spoke French, but whose family lives in India and does not speak French. *(Why?)*

(4) TELL A LOT: You can tell a lot about a person by the language(s) they speak. *(Why?)*

(5) TELL WHERE FROM: You can tell where a person is from by the language(s) they speak. *(Why?)*

(6) TELL EDUCATION: You can tell how much education someone has had by the language(s) they speak. *(Why?)*

References

Byers-Heinlein, K., & Garcia, B. (2015). Bilingualism changes children's beliefs about what is innate. *Developmental Science*, *18*(2), 344–350.

Gelman, S. A., Heyman, G. D., & Legare, C. H. (2007). Developmental changes in the coherence of essentialist beliefs about psychological characteristics. *Child development*, *78*(3), 757–774.

Gelman, S. A., & Hirschfeld, L. A. (1999). How biological is essentialism. *Folkbiology*, *9*, 403–446.

Wagner, L., Clopper, C. G., & Pate, J. K. (2014). Children's perception of dialect variation. *Journal of child language*, *41*(5), 1062–1084.

Weatherhead, D., Friedman, O., & White, K. S. (2018). Accent, language, and race: 4–6-year-old children's inferences differ by speaker cue. *Child Development*, *89*(5), 1613–1624.