



Multilingual Children's Speech Development

ENGLISH (Canadian)

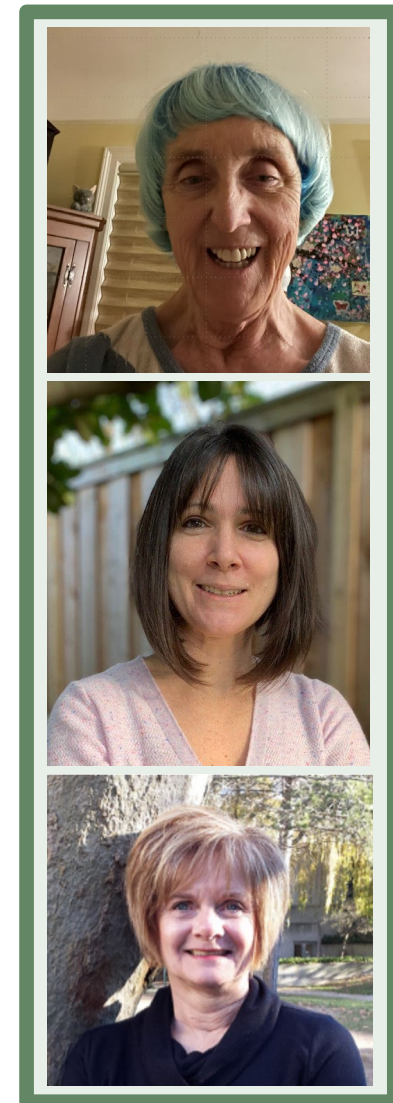
Multilingual Children's Speech Development

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ENGLISH (Canadian) Authors

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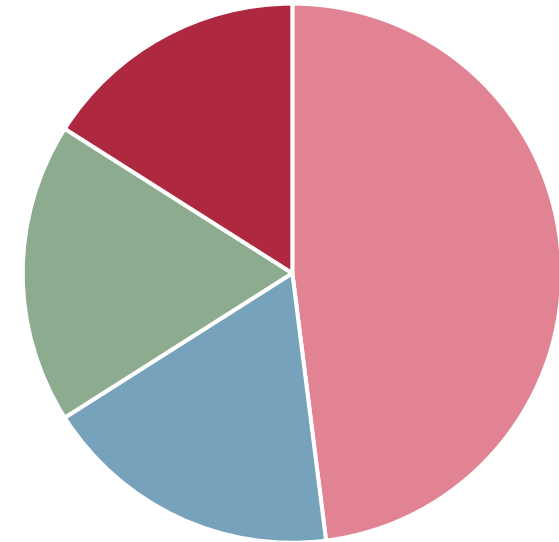
Source: Rvachew, Bernhardt, Black, & Mason (forthcoming). English (Canadian) speech development. In S. McLeod (Ed.). *The Oxford handbook of speech development in languages of the world*. Oxford University Press.

English (Canadian)

- **Commonly spoken in**
 - Canada
- **Dialects and variants**
 - Newfoundland English; Maritimes English
- **Writing**
 - Left to right. Latin alphabet (Roman script).
 - British or French spelling rules often retained: colour, theatre
 - Example: “We’re happy to speak Canadian English.”

[wiə 'hæpi tə 'spik k^hə'neɪ.di.ŋ_ 'ɪŋ.gləʃ]

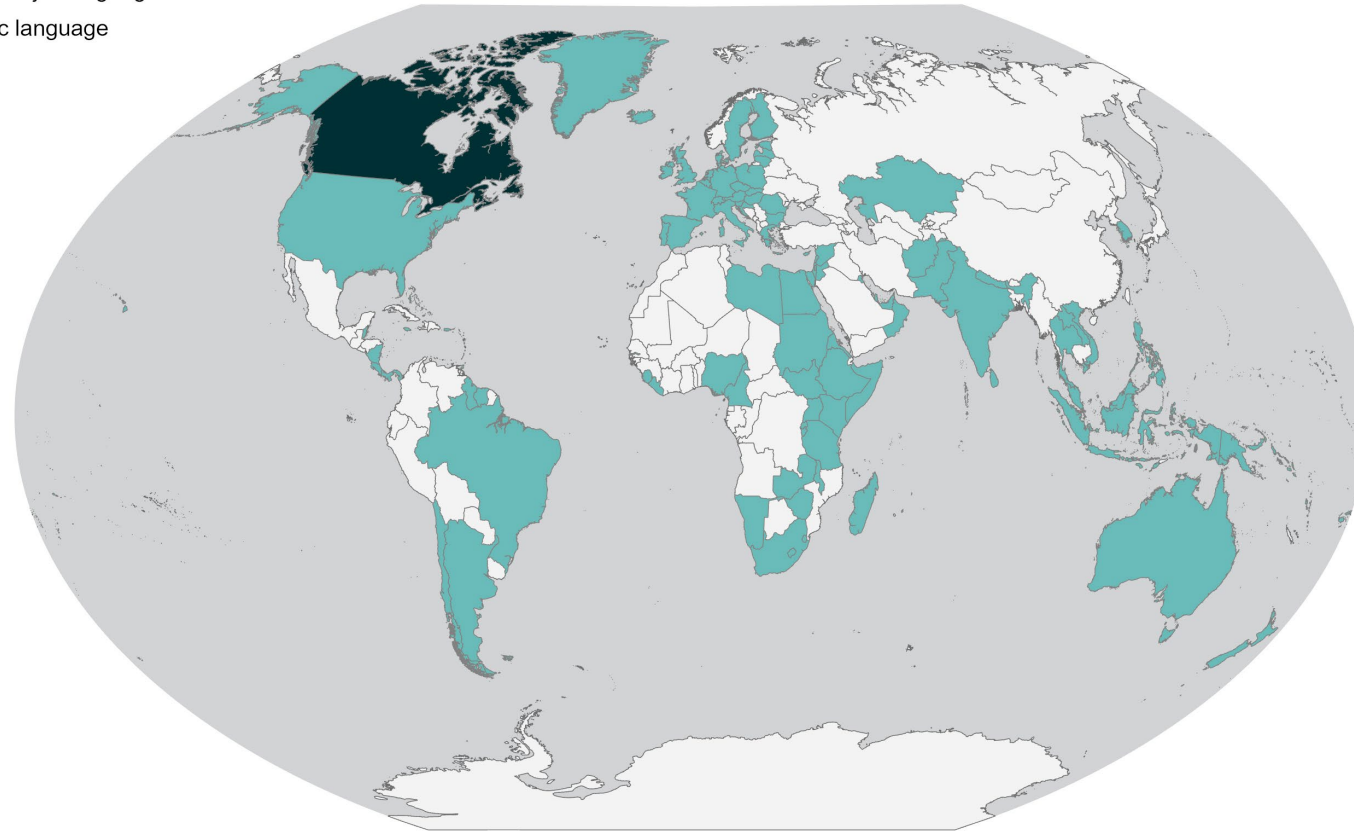
Proportion by Language(s) Spoken



■ English ■ French ■ English/French ■ Other

English (Canadian) map

- Official / major language
- Diasporic language



English (Canadian) Speech Components

- **Consonants (26):** /p,b,t,d,k,g,ʔ,m,n,ŋ,r,f,v,θ,ð,s,z,ʃ,ʒ,h,ɹ,j,l,tʃdʒ,w/
- **Consonant clusters (many):** /pl, pɹ, bl, bɹ, tɹ, dɹ, kl, kɹ, gl, gɹ, fl, fɹ, θɹ, sl, ʃɹ, sm, sn/; sequences with adjunct (extrametrical) /s/: /sp, st, sk, spl, spɹ, stɹ, skɹ/.
- **Vowels (xxx):** /i, ɪ, e, æ, ə, ε, u, ʊ, ʌ, ɑ, aɪ, aʊ, ɔɪ, eɪ, oʊ/.
- **Tones (0):** None
- **Phonotactic restrictions:** $C_{(0-3)}V_{(0-2)}C_{(0-3)}$; /ŋ/ must go in the coda
- **Prosody:** stress-timed with trochees, iambs, and spondees

English (Canadian) Age of Acquisition

■ Consonants

- Early /w,h,m,n,ŋ p,b,t,d/
- Middle /k,g,j,l,f,v,ʃ,tʃ,dʒ/
- Late /θ,ð,ɹ,s,z/

■ Consonant clusters

- Early /l/-clusters
- Middle /ɹ/-clusters
- Late /s/ clusters

■ Vowels

- Typically acquired between the ages of three and five years

■ Tones

- None

English (Canadian) Speech Development

- **Percentage correct (in single words)**
 - consonants correct 86% age 5 years; 92% age 6 years 96% age 7 years
- **Intelligibility (TOCS+ Sentences)**
 - 86% age 4 years; 97% age 7 years
- **Common phonological patterns (between 4 and 7 years)**
 - Simplification of interdental fricatives
 - Liquid simplifications
 - Dental distortions
 - Deletion or simplification of weak syllables

English (Canadian) Children with Speech Sound Disorders

■ Also called

- ENGLISH chapters: speech delay, phonological disorder, protracted phonological development, articulation disorder, childhood apraxia of speech, dysarthria

■ Research has focused on

- Prevalence, assessment, transcription, interventions, concomitant issues, long-term outcomes

■ Studies (examples)

- Bernhardt, B. H., & Stemberger, J. P. (2000). *Workbook in nonlinear phonology for clinical application*. Pro-Ed. Copyright reverted to authors. Available free at phonodevelopment.sites.olt.ubc.ca/TestMaterials/English.
- Mason G. K. (2018). School-aged children's phonological accuracy in multisyllabic words on a whole-word metric. *Journal of Speech, Language, and Hearing Research*, 61(12), 2869-2883. https://doi.org/10.1044/2018_JSLHR-S-17-0137
- Rvachew, S., & Grawburg, M. (2006). Correlates of phonological awareness in preschoolers with speech sound disorders. *Journal of Speech, Language, and Hearing Research*, 49(1), 74-87. [https://doi.org/10.1044/1092-4388\(2006/006\)](https://doi.org/10.1044/1092-4388(2006/006))

English (Canadian) Speech Assessments

- **Computerized articulation and phonology evaluation system.** The Psychological Corporation. (Masterson, J., & Bernhardt, B. (2001). [English \(N. America\) | Phonological Development Tools \(ubc.ca\)](#)
- **Speech Assessment and Interactive Learning System (SAILS, v. 1.4.0).** [Mobile application software]. (Rvachew, S. & Herbay, A., 2021) <https://apps.apple.com/ca/app/sails/id1207583276>

English (Canadian) Speech Interventions

- **Speech Assessment and Interactive Learning System (SAILS, v. 1.4.0).** [Mobile application software]. (Rvachew, S. & Herbay, A., 2021)
<https://apps.apple.com/ca/app/sails/id1207583276>

Reference

Book chapter

- Rvachew, S., Bernhardt, B., Black, A., & Morgan, G. (forthcoming). English (Canadian) speech development. In S. McLeod (Ed.). *The Oxford handbook of speech development in languages of the world*. Oxford University Press. Presentation
- Rvachew, S., Bernhardt, B., Black, A., & Morgan, G. (2023). *English (Canadian) speech development. Multilingual children's speech development*. Charles Sturt University, Australia.
<https://www.csu.edu.au/research/multilingual-speech/languages>

