



Multilingual Children's Speech Development

ENGLISH (General American English)

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Presented by: Lynn Williams

English (General American English) Authors

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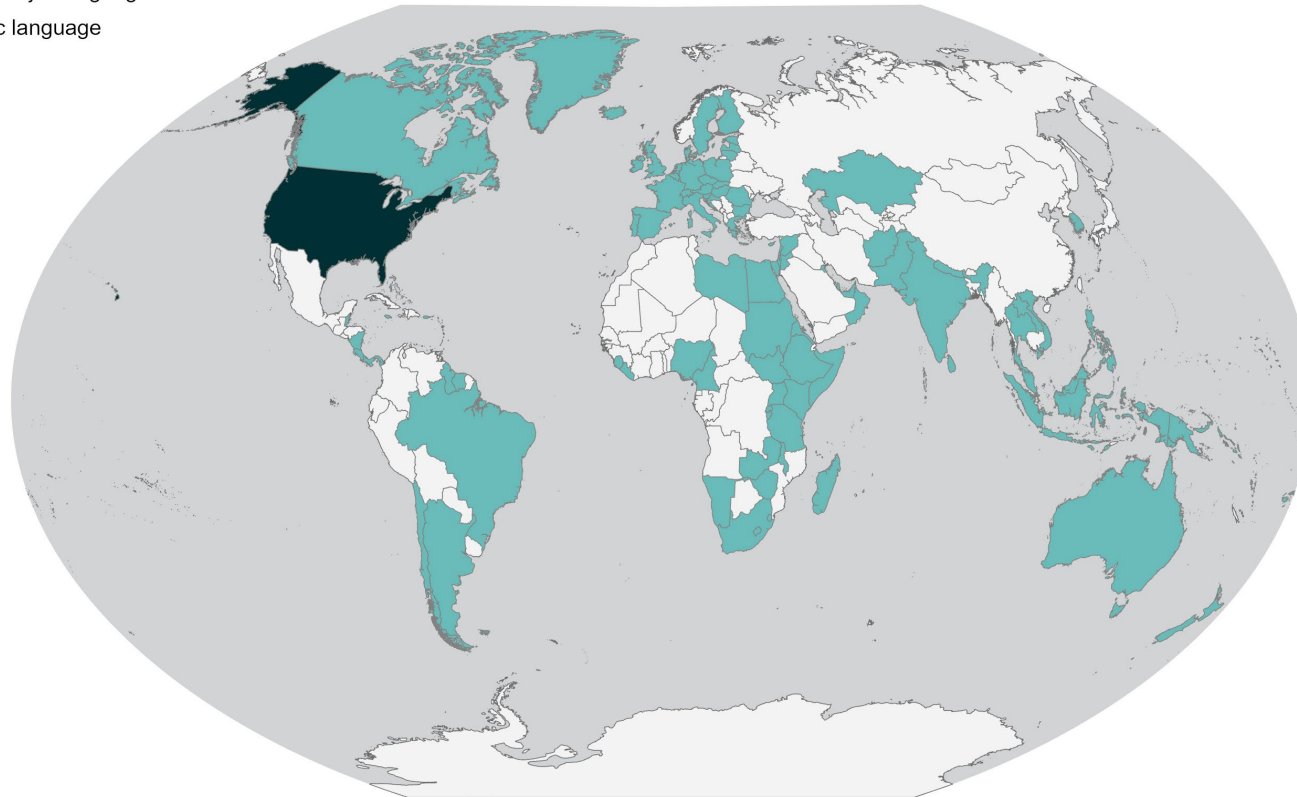


English (General American English)

- **Commonly spoken in**
 - USA
- **Dialects and variants**
 - African American English
 - Appalachian English
 - Rural Southern White English
 - Canjun/Creole English
 - Eastern American English
- **Writing**
 - Left to right. Latin alphabet (Roman script)

English (General American English) map

- Official / major language
- Diasporic language



English (General American English) Speech Components

- **Consonants (24):** /p, b, t, d, k, g, f, v, θ, ð, s, z, ʃ, ʒ, h, tʃ, dʒ, m, n, ŋ, w, j, l, ɹ/
- **Consonant clusters (approximately 29 SI + many SF):** /pl, bl, kl, gl, fl, sl, pɹ, bɹ, tɹ, dɹ, kɹ, gɹ, θɹ, fɹ, ʃɹ, pj, tj, fj, mu, nu, sm, sn, sp, st, sk, spl, spɹ, stɹ, skw/
 - many 2 – 4 element consonant clusters in final position
- **Vowels (14 vowels + 3 diphthongs):** /i, ɪ, e, ε, æ, ə, ə̃, u, ʊ, o, ʌ, ɔ, ɑ/
 - Diphthongs: /aɪ, aʊ, ɔɪ/
- **Tones (0):** None
- **Phonotactic restrictions:** V - CCCVCCC
- **Prosody:** Stress-timed; one stressed syllable and 0-2 unstressed syllables

McLeod (2007); Smit (2004)

English (General American English)

Age of Acquisition

- **Consonants** (Crowe & McLeod, 2020)
 - Early /b,p,t,d,k,g,m,n,ŋ,w,j,h,f/
 - Middle /tʃ,dʒ,v,s,ʃ,z,l/
 - Late /ʒ,θ,ð,ʌ/
- **Consonant clusters**
 - 90% of consonant clusters produced by 4-year old children (Shriberg & Kwiatkowski, 1980)
 - 75% of children produce (Smit et al. 1990):
 - stop + /w/ clusters by 3;6
 - // clusters by 4;6 -5;6
 - /l/ clusters by 5;6
 - /s/ clusters by 6;0
 - /θʌ/ clusters by 7;0
- **Vowels**
 - Nonrhotic vowels produced by age 2
 - Rhotic vowels by 75% of children at age 3;6 and 90% at age 6;0
- **Tones**
 - None

English (General American English) Speech Development

■ Percentage correct

- 93% consonants correct by 6;6-6;11 in single words (Pollock, 2002); average of 80.5% consonants correct in conversational speech by 5;6-5;11 (Hoffman, 1982)

■ Intelligibility

- Hustad et al., 2020, 2021:
 - 3 years: 50% intelligible
 - 4 years: 75% intelligible
 - 5 years: 90% intelligible

■ Common phonological patterns

- Typical structural simplifications: Final consonant deletion, cluster reduction, weak syllable deletion (Bernthal et al., 2022; McLeod & Baker, 2017)
- Typical systemic simplifications: Stopping, fronting (Bernthal et al., 2022; McLeod & Baker, 2017)

*ICS, Intelligibility in Context Scale (McLeod et al., 2012)

English (General American English) Children with Speech Sound Disorders

- **Also called**
 - phonological disorder, articulation disorder, childhood apraxia of speech, dysarthria
- **Research has focused on**
 - Development, prevalence, assessment, interventions, literacy
- **Studies (example)**
 - Baker et al. (2018) developed an intervention taxonomy, which identified 72 intervention elements

English (General American English) Speech Assessments

- **Goldman-Fristoe Test of Articulation** (Goldman & Fristoe, 2015)
- **Arizona Articulation Proficiency Scale-4** (Fudala & Stegall, 2017)
- **Photo Articulation Test-3** (Lippke, et al., 1997)
- **Smit-Hand Articulation and Phonology Evaluation** (Smit & Hand, 1997)
- **Clinical Assessment of Articulation and Phonology-2** (Secord & Donohue, 2013)
- **Khan-Lewis Phonological Analysis, Third Edition (KLPA-3)** (Khan & Lewis, 2015)
- **Hodson Assessment of Phonological Patterns (HAPP-3)** (Hodson, 2004)
- **Bankson-Bernthal Test of Phonology-2** (Bankson & Bernthal, 2020)

English (General American English) Speech Interventions

- **Phonological awareness** (Howell & Dean, 1991)
- **Minimal Pairs** (Weiner, 1981; Baker, 2021)
- **Cycles** (Hodson & Paden, 1991)
- **Maximal Oppositions** (Gierut, 1989)
- **Multiple Oppositions** (Williams, 2000)
- **Complexity Approach** (Gierut, 2001)
- **Traditional articulation** (Van Riper, 1939; Preston & Leece, 2021)

Reference

Book chapter

- Farquharson, K., Stoel-Gammon, C., & Williams, A.L. In S. McLeod (Ed.). *The Oxford handbook of speech development in languages of the world*. Oxford University Press.

Presentation

- Farquharson, K., Stoel-Gammon, C., & Williams, A.L. (2023). *English (General American English): Multilingual children's speech development*. Charles Sturt University, Australia. <https://www.csu.edu.au/research/multilingual-speech/languages>
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