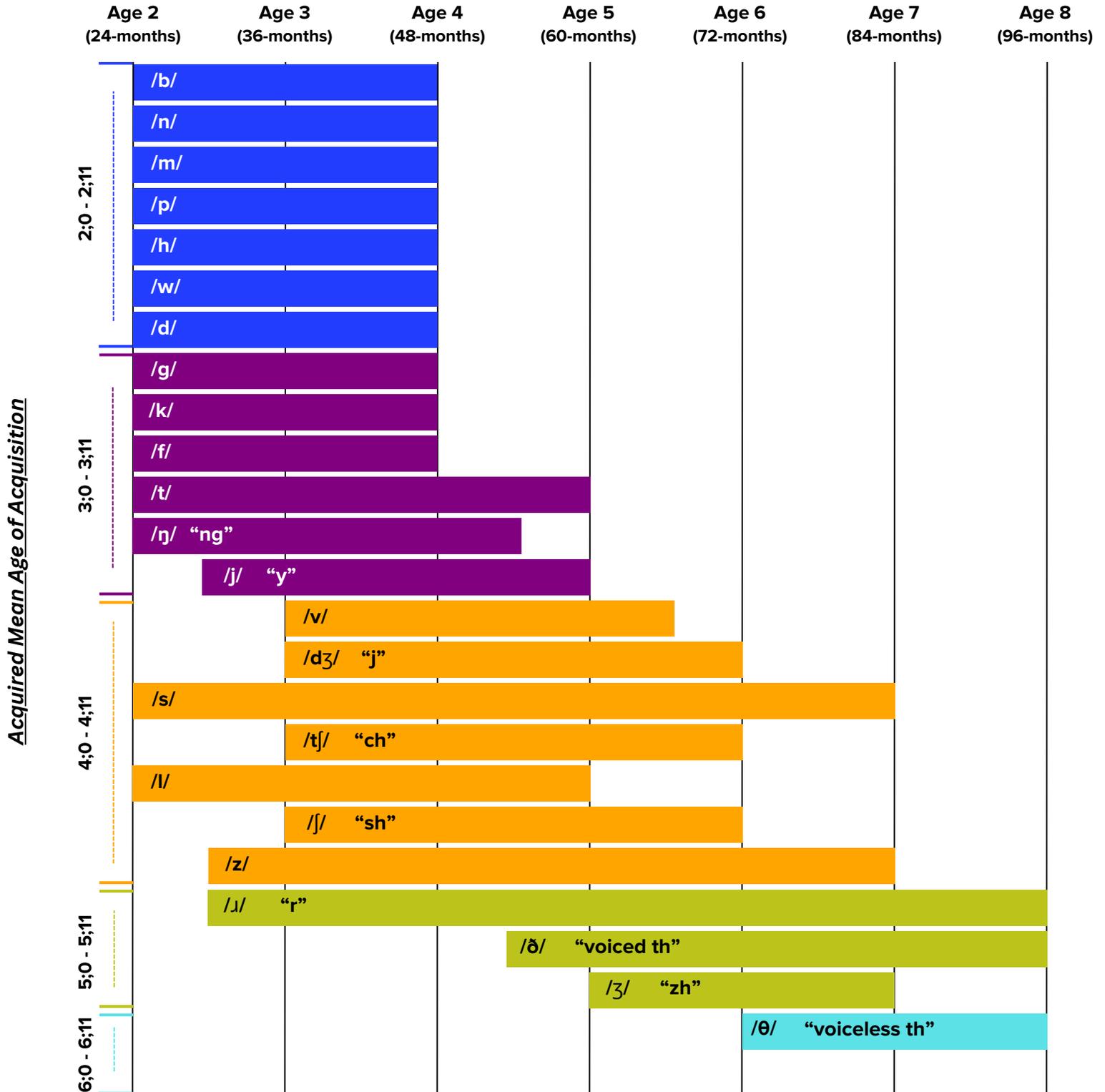


# Speech Sound Development Chart

Updated with the review data by Crowe and McLeod (2020)

## Average Age Ranges of Acquisition



\*\*Data reported in this chart (90% criterion) is based from the comprehensive review by Crowe and McLeod (2020) that analyzed 18,907 children across 15 studies. The chart is hierarchical ordered by the mean age of acquisition of consonant phonemes. The 5 different colors of bars group the set of consonants by acquired mean age of acquisition. Each bar range displays the average age of acquisition range (months) for each individual consonant. Data uses 90% criterion measures in the review by Crowe and McLeod (2020), which means that 90% of all children produced the consonant correctly by the ages reported.

References: Crowe, K., & McLeod, S. (2020). Children's English Consonant Acquisition in the United States: A Review. American Journal of Speech-Language Pathology, 29, 2155–2169. doi: 10.1044/2020\_AJSLP-19-00168