

upper([Original Research])

The Devoicing Intensity of Vowels [I] and [ʍ] in Japanese Language

[Siti Muharami Malayu, Muliadi, Y. A.]

Authors: Siti Muharami Malayu, Muliadi, Y. A.

[Abstract]

This study investigates the devoicing intensity of the high front vowel [I] and the high back vowel [ʍ] in the Japanese language. The research aims to analyze the acoustic characteristics of these devoiced vowels, specifically focusing on their duration and the completeness of vocal fold vibration cessation. A total of 120 speech samples from native Japanese speakers were analyzed using Praat software. The findings indicate that the devoicing of [I] is more frequent and complete than that of [ʍ], suggesting a greater influence of surrounding phonetic contexts on the devoicing process of [I]. This research contributes to a deeper understanding of Japanese phonology and provides insights into the intricate mechanisms of vowel devoicing.

This study investigates the devoicing intensity of the high front vowel [I] and the high back vowel [ʍ] in the Japanese language. The research aims to analyze the acoustic characteristics of these devoiced vowels, specifically focusing on their duration and the completeness of vocal fold vibration cessation. A total of 120 speech samples from native Japanese speakers were analyzed using Praat software. The findings indicate that the devoicing of [I] is more frequent and complete than that of [ʍ], suggesting a greater influence of surrounding phonetic contexts on the devoicing process of [I]. This research contributes to a deeper understanding of Japanese phonology and provides insights into the intricate mechanisms of vowel devoicing.

How to Cite: The Devoicing Intensity of Vowels [I] and [ʍ] in Japanese Language

Open Access. Published under CC BY 4.0 (<https://creativecommons.org/licenses/by/4.0/>).