Revisiting the effects of audio and visual inputs of digital flashcards on memorization of Chinese new words by foreign beginners

Zhu, Yu, Fung, Andy S. L.

Abstract

Computer-based digital flashcards is one of the most popular self-study tools for memorization of Chinese new words by American college students who are learning Chinese as a foreign language. However, studies on the effects of this learning tool were scarce. Introducing a new concept â€” referential stimuli â€” into the Dual Coding Theory (DCT hence forth) framework, the study acknowledged the existence of imagery text and textual image in addition to the conventional binary categorization of stimuli as either verbal or nonverbal and further hypothesized their functions. Multivariate ANCOVA used in this study permitted a simultaneous thorough examination of the effects of multimedia inputs of digital flashcards than 2-way ANCOVA used in the previous study (Zhu & Hong, 2005). New and the unexplained earlier findings were better understood from the perspective of the adapted version of DCT. Findings of this study had practical implications for development and applications of computer assisted language learning software. It concluded with a call for further investigations to examine the modified DCT framework.

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Authors

Zhu, Yu
Institute of Education Xiamen
University Xiamen, China

Fung, Andy S. L.
United International College Beijing
Normal University-Hong Kong Baptist University Zhuhai, China

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All it takes is trying out new memorization techniques or making key adjustments in your lifestyle. Here are 10 of the best tips and tricks to help boost your memory for both the short and the long term. If you attach meaning or factual knowledge to any of this sensory input, that's called semantic encoding. For example, if you associate the Bellagio Resort and Casino in Vegas with its location on a map or the fact that the dancing fountain show takes place every 30 minutes, you're encoding the Bellagio with semantic memory. It's similar to the memory palace technique, but instead of anchoring new visual information to a location, you anchor it to a physical feature of whatever you're trying to remember. Animate the images: The more animated and vivid you can make these images, the better.