

# Improving word reading skills of low-skilled readers: An intervention combining a syllable-based approach with digital game-based features

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## Abstract

**Background:** Children with low reading skills are less frequently engaged in reading activities and therefore the likelihood of improving their reading skills decreases. Digital game-based interventions have emerged as a promising tool for promoting reading development in children, particularly those with reading difficulties. As syllable-based reading interventions are likely to increase word reading skills in low-skilled readers, we developed a new reading intervention application that emphasizes syllable segmentation and integrates proven elements of digital game-based learning. The intervention aimed to promote phonological recoding and consolidating orthographic representation of syllables.

**Objectives:** The present study investigated the effects of the newly developed syllable-based reading intervention application on general word recognition skills, phonological recoding processes, orthographic decoding processes and text-level reading comprehension skills in German second graders.

**Methods:** In a quasi-experimental design, children with low word recognition skills were randomly assigned to a treatment group ( $n = 66$ ) or a wait-list group ( $n = 66$ ). General word recognition skills, phonological recoding processes, orthographic decoding processes and text-level reading comprehension were measured with standardized German reading tests before and after the treatment group received the digital reading intervention for 20 sessions.

**Results:** Results indicated that the children in the treatment group showed significant improvement in general word recognition and in phonological recoding processes compared to equally low-skilled untreated children in the wait-list group. Orthographic decoding processes improved only in children with less severe impairments, whereas no significant improvements were found in text-level reading comprehension.

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# Read It A New Approach For Adult Readers

**Katrin Zwirgmaier**



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