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## Adjacent-letter Flanking Bigrams Affect Lexical Decision Performance

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### <u>Abstract</u>

In a lexical decision task in which target strings were flanked by pairs of bigrams, Grainger, Mathot, and Vitu (*Acta Psychologica*, 2014) found, for words, better performance when flanking bigrams contained target-string letters (e.g., BI BIRD RD; RD BIRD BI; IB BIRD DR; DR BIRD IB) than when they did not (e.g., CE BIRD NT); better performance when flanking bigrams contained letters ordered as in the target (e.g., BI BIRD RD; RD BIRD BI) than switched (e.g., IB BIRD DR; DR BIRD IB); and that only letter order within bigrams—not bigram order relative to the respective target—affected performance. Palinski (CSU Master's thesis, 2016) replicated these findings. In each of those experiments, on 80% of trials, flanking bigrams were composed of letters from the target. We conducted a new experiment in which only 50% of trials involved flanking bigrams whose letters were in the target letters than when they did not and when flanking-bigram letters were ordered as in the target than switched. These effects do not depend on the proportion of trials on which flanking bigrams are composed of target letters.