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In his introduction the author suggests that the computer be more and more employed by linguists as a simulation device rather than as a high-speed calculator or as a faultless classification-machine. In this scope a computer program intended for automatic split and bracketing of Dutch compounds is presented. Motives and needs that gave rise to this initiative are briefly cited, as well as wants that might be supplied by it. The program called AUTOMATIC COMPOUND WORD SPLIT is amply explained both with regard to the lemmatising rules and to the rewriting rules. Several limitations and ambiguities so far unsolved are treated. An attempt to derive bracketing instructions from the surface structure of compounds did not answer. Recent theories about generating compound lexical items by transformation rules applying to deep syntactic structures (such as Lees' and Botha's) are compared and elucidated. Finally, an outprint of the computer program in PL1 and some output sheets are added.