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Inversion factor.

In combinatorics on words, counting the different types of squares is a fundamental problem. It was well understood that at most two different squares could have their last occurrence starting at the same position, but little was known about them. The recent advance in the field relies on the combinatorial structures of those double-squares. We will take a look here at those structures, and a particularly important one: the inversion factor, and see how they can lead to a better bound for the maximal number of distinct squares in a string.