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Pattern Containment in Various Words.

Much work has been done regarding pattern containment in permutations, whether it be subsequence pattern avoidance or packing. For more general words such as preferential arrangements and compositions, more focus has been given to subword patterns and only recently have more general questions been posed. We give two generalizations of layered patterns in the context of preferential arrangements, discussing the roll of specific pattern structures on the structure of optimal words. A new class of patterns is defined for which past results can be utilized to solve the pattern packing problem. (Received January 18, 2016)