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The Amazing Mathematical Object Factory and its Relatives

In this talk we will describe a couple of web sites produced by the author that have proved popular with teachers of mathematics at the secondary school and college levels for the teaching of various topics in discrete mathematics. The “Combinatorial Object Server” (COS) will produce exhaustive lists of discrete structures such as permutations, combinations, trees, solutions to pentomino puzzles, and so on, based on user-supplied input parameters. The “Amazing Mathematical Object Server” is similar but more oriented to younger students. We will describe the philosophy, capabilities, and underlying technology of these web sites.