

## Digital Collections of Examples in Mathematical Sciences

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Examples, positive or negative, are the lifeblood of mathematics. This is particularly important when there is generic behaviour, but also lots of special cases. For example, almost all polynomials are irreducible, but nevertheless great effort is spent on factoring algorithms. A single example can be represented in various ways, but collections of examples are more difficult. Not that many collections exist, and those that do are often not in machine-processable forms. This means that the sort of contest that has powered the SAT and SMT communities is not available in general computer algebra, or many other fields of computational mathematics. We will make some recommendations here.