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An element-based reformulation of restriction monads

Last year, I introduced restriction monads: monads in a bicategory equipped with a restriction 2-cell satisfying axioms reminiscent of those satisfied in a restriction category. This talk will give a reformulation of restriction monads in bicategories with an initial object. An immediate benefit of this reformulation is a pair of one-toone correspondences between (i) small restriction categories and restriction monads in Span(**Set**) and (ii) small restriction categories and restriction monads in **Set**-Mat. These correspondences form the motivation for defining internal restriction categories and restriction enriched categories, respectively.