Some more uncountable cardinals for your repertoire

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Abstract: The idea of cardinality is an important one across mathematics, particularly the distinction between countable and uncountable. Cantor show that the set of all reals is uncountable, and asked whether its cardinality is the least uncountable cardinal. A common response seems to be "well, what else could possibly be less than it?"; but actually, there are *many* definitions for uncountable cardinals that could be less than the cardinality of the reals. In this talk I will introduce some of them, and how they can crop up in mathematics.