Dictionaries Revisited

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—— **Abstract** ——————————————————————————————————

Dictionaries are probably the most well studied class of data structures. A dictionary supports insertions, deletions, membership queries, and usually successor, predecessor, and extract-min. Given their centrality to both the theory and practice of data structures, surprisingly basic questions about them remain unsolved and sometimes even unposed. This talk focuses on questions that arise from the disparity between the way large-scale dictionaries are analyzed and the way they are used in practice.