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[Home](#) * [People](#) * **Michael Barenfeld**

Michael Barenfeld,

an American [psychologist](#) and computer scientist. While affiliated with [Carnegie Mellon University](#) in the late 60s, he worked with [Herbert Simon](#) on perceptual processes in problem solving, and developed a program dubbed [Perceiver](#) based on previously developed routines of the program [Mater](#) ^[1] for detecting basic chess relations of attack and defense, to simulate the [eye movements](#) of a chess expert over a 5-second interval scanning a chess position preparatory to making a move ^[2].

See also

- [Chunking](#)
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- [Psychology](#)

Selected Publications

^[3]

- [Herbert Simon](#), [Michael Barenfeld](#) (1968). *Information Processing in the Perception of Chess Positions*. [Carnegie Mellon University](#), Paper #127
- [Herbert Simon](#), [Michael Barenfeld](#) (1969). [Information Processing-Analysis of Perceptual Processes in Problem Solving](#). *Psychological Review*, Vol. 76, No. 5, reprinted in [Herbert A. Simon](#) (1979). [Models of Thought](#). [Yale University Press](#), pdf

References

1. [^] [George W. Baylor](#), [Herbert A. Simon](#) (1966). [A chess mating combinations program](#). [AFIPS](#)

- [Joint Computer Conferences](#), reprinted in [Herbert A. Simon \(1979\)](#). [Models of Thought](#). [Yale University Press](#), pp. 181-200, in [David Levy \(ed.\) \(1988\)](#). [Computer Chess Compendium](#).
2. [Herbert Simon](#), [Kevin J. Gilmartin \(1973\)](#). *A Simulation of Memory for Chess Positions*. *Cognitive Psychology*, Vol. 5, pp. 29-46, reprinted in [Herbert A. Simon \(1979\)](#). [Models of Thought](#). [Yale University Press](#), [pdf](#)
3. [ICGA Reference Database](#) (pdf)

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