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Center for Artificial Intelligence Foundations & Scientific Applications Artificial Intelligence Research Laboratory

- Gottfried Leibniz (1646-1716), the German philosopher and mathematician, dreamed of a machine that could reason, or more precisely, reduce thinking to a kind of calculation.
- Leibniz's central thesis was that all human thoughts, no matter how complex, are made of basic and fundamental ideas, in much the same way that sentences are made of words, and words combinations of letters.
- He conjectured that if he could find a way to symbolically represent the fundamental ideas and develop a systematic method – logical calculus – by which to combine them, then he would be able to generate new ideas or thoughts on demand.



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