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An Introduction To Kolmogorov Complexity

In algorithmic information theory, the Kolmogorov complexity of an object, such as a piece of text, is the length of a shortest computer program that produces the object as output. It is a measure of the computational resources needed to specify the object, and is also known as algorithmic complexity, Solomonoff-Kolmogorov-Chaitin complexity, program-size complexity, descriptive complexity, or algorithmic entropy. It is named after Andrey Kolmogorov, who first published on the subject in ...

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Kolmogorov complexity can be seen as an algorithmic version of entropy. Like for entropy, we can define a conditional version: $K(x|y)$ = the shortest computer program (in binary) that transforms y into x (the formalization is done as before). A fundamental result is the symmetry of information (Levin and Kolmogorov, 1970).

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