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## CELLULAR AUTOMATA: IS RULE 30 RANDOM?

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Cellular Automata: Is Rule 30 Random?

Dr. Stephen Wolfram, the developer of Mathematica, claims that Rule 30 can be used as an effective encryption scheme due to its pseudorandom qualities. We investigate this claim by using a battery of statistical tests as well as identifying properties that help characterize its security if used for encryption. The results provide evidence that Rule 30 shows adequate randomness for a high level of security.