

Googolplex Written Out

Wolfgang H. Nitsche

A graphic consisting of two concentric circles formed by binary digits (0s and 1s). The outer circle is larger and has the text "volume 1000" written above it on the left side. The inner circle is smaller and has the number "125" written above it on the right side.

1.0.1

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A graphic of a vinyl record. The word "volume" is written in a bold, sans-serif font at the top left. The number "1000" is written in a large, bold, sans-serif font at the top right. In the center of the record, the number "125" is written in a large, bold, sans-serif font, and the number "96" is written in a large, bold, sans-serif font below it. The record itself is a dark gray circle with a lighter gray center. The numbers are white.

Foreword

In 1940, the mathematician Edward Kasner published the book "Mathematics and the Imagination", in which he popularized the words googol and googolplex which his nephew suggested as names for big numbers.

The number googol has been defined as 1 followed by a hundred zeros:

[illegible]

The much larger number googolplex has been defined as 1 followed by a googol zeros. While this number can easily be written as

$$\text{googolplex} = 10^{\text{googol}} = 10^{(10^{100})}$$

using the exponential notation, it has often been claimed that the number googolplex is so large that it can never be written out in full.

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Wolfgang H. Nitsche
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www.GoogolplexWrittenOut.com

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