

Googolplex Written Out

Wolfgang H. Nitsche

A stylized 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 "12811" is written in a bold, sans-serif font, rotated 90 degrees clockwise. The record itself is represented by two concentric circles of small, rounded rectangular shapes, resembling the grooves of a vinyl record. The entire graphic is in black and white.

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A stylized graphic of a vinyl record. The grooves of the record are represented by concentric circles of binary code (0s and 1s). The text "volume 1000" is written in a bold, sans-serif font at the top left. In the center of the record, the number "12811" is written in a similar font, oriented vertically.

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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