

Googolplex Written Out

Wolfgang H. Nitsche

A stylized graphic of a vinyl record. The word "volume" is written in a bold, black, sans-serif font at the top left. The number "1000" is written in a large, bold, black, sans-serif font at the top right. The number "450" is written in a large, bold, black, sans-serif font in the center of the record. The record itself is represented by a series of concentric circles of small, black, rounded rectangular shapes, resembling the grooves of a vinyl record. The overall design is minimalist and modern.

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A graphic of a volume knob. At the top, the text "volume 1000" is written in a bold, black, sans-serif font. In the center of the knob, the number "450" is displayed in a large, bold, black, sans-serif font. The knob itself is represented by a spiral of small, black, rounded rectangular shapes, each containing a white zero, arranged in a circular pattern around the center.

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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