

Googolplex Written Out

Wolfgang H. Nitsche

A large, stylized number 8 is formed by a dense arrangement of many smaller, identical 8s. The smaller 8s are arranged in a circular pattern, with their top edges facing outwards, creating a spiral effect. At the top left of the image, the word "volume" is written in a bold, sans-serif font, followed by the number "1000" in the same font. The entire graphic is set against a plain white background.

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Wolfgang H. Nitsche

Stanford University

volume 1000

8

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.

However in this "Googolplex Written Out" multivolume set of books, I am doing just that. It consists of 10000000000000000000000000000
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00000 volumes, and each volume contains 1000000 zeros of the number googolplex. The first volume also contains the initial digit one with which googolplex starts.

Wolfgang H. Nitsche
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www.GoogolplexWrittenOut.com

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