

Googolplex Written Out

Wolfgang H. Nitsche

A graphic of a vinyl record. The text "volume 1000" is written in a bold, black, sans-serif font at the top. The number "140" is written in a large, stylized, black font in the center of the record. The record itself is represented by two concentric circles of small, black, pill-shaped indentations, with a black line between them. The entire graphic is set against a white background.

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Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

A stylized graphic of a vinyl record. The text "volume 1000" is written in a bold, black, sans-serif font at the top. The text "9140" is written in a bold, black, sans-serif font in the center of the record. The record itself is represented by two concentric circles of small, black, pill-shaped indentations, with a black center hole. The entire graphic is set against a white background.

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:

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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
August 2013
www.GoogolplexWrittenOut.com

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