

Googolplex Written Out

Wolfgang H. Nitsche

A large circle composed of black digits. The top half of the circle consists of the digit '9' repeated approximately 18 times. The bottom half consists of the digit '6' repeated approximately 18 times. On the left side, where the '9's and '6's meet, the sequence of digits is '87578'. To the right of the circle, the word 'volume' is written in a bold, sans-serif font.

volume

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A circular arrangement of the number 9, with the word 'volume' at the top left and the number 87578 at the top right.

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.

[illegible]

Wolfgang H. Nitsche
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www.GoogolplexWrittenOut.com

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