

Googolplex Written Out

Wolfgang H. Nitsche

A circular arrangement of the numbers 6 and 9, with the word 'volume' at the top left. The numbers are arranged in a circle, with 9s at the top and 6s at the bottom. The word 'volume' is written in a bold, sans-serif font at the top left of the circle.

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A large circle composed of repeating 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 two halves meet, the sequence transitions through the digits '7' and '0'. The word "volume" is written in a bold, black, sans-serif font at the top left, outside the circle.

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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August 2013
www.GoogolplexWrittenOut.com

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