

Googolplex Written Out

Wolfgang H. Nitsche

A circular progress indicator with a volume icon and the text "volume 100000000000000". The circle is composed of small, rounded rectangular segments, each containing a small square icon. The text "volume 100000000000000" is written in a bold, sans-serif font, following the curve of the top half of the circle. The volume icon is a small, stylized speaker with sound waves, located at the top center of the circle.

1.0.1

Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

A circular progress indicator with a volume icon and the text "volume 100000000000000". The progress bar is a circle with a gap, and the volume icon is a speaker with sound waves. The text "volume 100000000000000" is written in a bold, sans-serif font, with "volume" in a smaller font size than the number. The number is split across two lines: "100000000000" on the top line and "0014" on the bottom line. The progress bar is a circle with a gap, and the volume icon is a speaker with sound waves. The text "volume 100000000000000" is written in a bold, sans-serif font, with "volume" in a smaller font size than the number. The number is split across two lines: "100000000000" on the top line and "0014" on the bottom line.

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
August 2013
www.GoogolplexWrittenOut.com

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

--

[illegible][illegible]

(This page is intentionally left blank.)