

# Googolplex Written Out

# Wolfgang H. Nitsche

A graphic featuring a spiral made of the number '9'. The spiral starts in the center and winds outwards in a clockwise direction. The word 'volume' is written in a bold, black, sans-serif font at the top left of the image. The entire graphic is set against a plain white background.

### 1.0.1

# Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

The image consists of a large, bold, black spiral made of the digit '9'. The spiral starts at the top left and winds inward in a clockwise direction. At the center of the spiral, five digits are arranged in a semi-circle: '0', '1', '3', '5', and '7'. These central digits are also in a bold, sans-serif font. The entire composition is set against a plain 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:

[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



---





|  |
|--|
|  |
|--|















|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|







|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|









|  |
|--|
|  |
|--|















|  |
|--|
|  |
|--|















|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|





|  |
|--|
|  |
|--|





















































|  |
|--|
|  |
|--|



































































































|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|





|  |
|--|
|  |
|--|







|  |
|--|
|  |
|--|















|  |
|--|
|  |
|--|



































































|  |
|--|
|  |
|--|























|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|





|  |
|--|
|  |
|--|







|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|





|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|





|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|



























































































|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

































|  |
|--|
|  |
|--|













|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|















|  |
|--|
|  |
|--|







|  |
|--|
|  |
|--|



|  |
|--|
|  |
|--|

































































































































































































