

# Googolplex Written Out

Wolfgang H. Nitsche







# Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

A black and white graphic featuring a large, dense spiral of the digit '9'. The spiral starts from the center and expands outwards in a clockwise direction. At the top left of the spiral, the word 'volume' is written in a simple, sans-serif font. The overall composition is minimalist and geometric.



# 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]



















[illegible]











[illegible]



[illegible]



[illegible]



[illegible]



[illegible]







[illegible]







[illegible]











[illegible]



page 33



[illegible]



[illegible]











[illegible]



[illegible]











































[illegible]



















[illegible]















[illegible]



















[illegible]







[illegible]







[illegible]



[illegible]



[illegible]















[illegible]



























--



















[illegible]



































[illegible]



[illegible]























[illegible]











[illegible]







--



























[illegible]



--



[illegible]



[illegible]







[illegible]











[illegible]











[illegible]



[illegible]















[illegible]



[illegible]







[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



































[illegible]















[illegible]



[illegible]







[illegible]



















[illegible]



[illegible]



[illegible]











[illegible]



[illegible]



[illegible]



--







[illegible]







[illegible]



[illegible]



















[illegible]







[illegible]







[illegible]































[illegible]











[illegible]















[illegible]



--



[illegible]







[illegible]



[illegible]



















[illegible]



--



[illegible]



[illegible]







[illegible]



























[illegible]



[illegible]



[illegible]



--















































[illegible]







[illegible]



















--















[illegible]















[illegible]



[illegible]











[illegible]



































--



[illegible]











[illegible]



[illegible]



[illegible]















[illegible]















[illegible]























[illegible]







[illegible]















[illegible]















































[illegible]







































--



[illegible]



[illegible]







[illegible]















--























--



--



[illegible]



















[illegible]



































--















[illegible]



[illegible]















[illegible]



















[illegible]



--











[illegible]











[illegible]















[illegible]











--















[illegible]



--































[illegible]















[illegible]







[illegible]







[illegible]



[illegible]



































[illegible]















[illegible]















(This page is intentionally left blank.)