

Googolplex Written Out

Wolfgang H. Nitsche

1.0.1

Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

[illegible]

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]

page 12

--

[illegible]

[illegible]

[illegible]

page 20

[illegible]

[illegible]

[illegible]

page 28

[illegible]

[illegible]

page 33

[illegible]

[illegible]

[illegible]

page 41

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

page 52

[illegible]

--

page 58

[illegible]

--

[illegible]

--

[illegible]

[illegible]

page 74

[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]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

--

--

[illegible][illegible]

(This page is intentionally left blank.)