

# Googolplex Written Out

# Wolfgang H. Nitsche

**volume 99978125**

### 1.0.1

# Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

**volume 99978125**

# 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

page 5

---





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

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

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

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

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



page 15

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

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

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

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

\_\_\_\_\_

[illegible]

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



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

---

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

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

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

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

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



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



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

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

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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





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































































































































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



page 112



---

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

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

page 117

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

page 119

\_\_\_\_\_











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

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

[illegible]

\_\_\_\_\_

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

---

---

\_\_\_\_\_



---



---

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

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

[illegible]

\_\_\_\_\_

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

\_\_\_\_\_

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

[illegible]

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





































































































































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



























\_\_\_\_\_

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

[illegible]

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

page 237

[illegible]

\_\_\_\_\_

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

\_\_\_\_\_

page 242

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

\_\_\_\_\_

---

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

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

\_\_\_\_\_

\_\_\_\_\_

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

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

\_\_\_\_\_



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

[illegible]

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

[illegible]

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

\_\_\_\_\_

\_\_\_\_\_

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

\_\_\_\_\_

---

\_\_\_\_\_

\_\_\_\_\_

---

















---

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



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















































































page 318





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





























































































\_\_\_\_\_











---

\_\_\_\_\_

\_\_\_\_\_































\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

---



\_\_\_\_\_

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

page 401

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

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

[illegible][illegible]

(This page is intentionally left blank.)