

Googolplex Written Out

Wolfgang H. Nitsche

volume 100014213

1.0.1

Googolplex Written Out

Wolfgang H. Nitsche

Stanford University

volume 100014213

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 7

[illegible]

page 12

page 15

page 16

page 18

[illegible]

[illegible]

--

[illegible]

[illegible]

[illegible]

[illegible]

page 26

[illegible]

page 28

[illegible]

page 31

page 32

[illegible]

[illegible]

page 36

[illegible]

[illegible]

page 42

[illegible]

[illegible]

page 45

page 46

[illegible]

[illegible]

[illegible]

page 51

page 52

page 53

[illegible]

[illegible]

page 58

[illegible]

page 96

page 97

[illegible]

[illegible]

[illegible]

--

--

--

page 109

[illegible]

page 111

page 116

page 121

[illegible]

page 125

page 127

--

page 132

page 136

page 141

[illegible]

page 145

[illegible]

page 147

page 148

page 149

[illegible]

page 151

[illegible]

page 153

[illegible]

page 157

[illegible]

[illegible]

[illegible]

page 164

[illegible]

--

--

page 170

--

page 172

[illegible]

page 177

--

--

page 181

--

page 184

page 185

[illegible]

page 198

page 199

[illegible]

page 202

--

[illegible]

--

page 221

[illegible]

--

[illegible]

--

--

page 275

--

[illegible]

--

page 279

[illegible]

page 282

page 286

--

page 290

page 292

--

--

page 298

--

[illegible]

--

page 305

page 307

page 308

page 310

page 312

--

--

page 317

[illegible]

page 320

--

page 323

page 324

[illegible]

[illegible]

--

page 332

page 333

page 334

page 335

--

[illegible]

[illegible]

--

--

[illegible]

page 364

[illegible]

--

--

--

--

[illegible]

page 373

[illegible]

page 377

[illegible]

page 380

page 381

[illegible]

--

[illegible]

page 387

--

[illegible]

--

page 393

[illegible]

[illegible]

[illegible]

page 403

[illegible][illegible]

(This page is intentionally left blank.)