

**SK≡PTIKO**  
science & spirituality

**#487**

**QUANTUM COMPUTING  
AND CONSCIOUSNESS**

**FEATURING**

**DOUG MATZKE**



1  
00:00:10,470 --> 00:00:04,820  
it's completely safe sure it is

2  
00:00:14,150 --> 00:00:12,310  
that's a clip from the netflix series

3  
00:00:17,189 --> 00:00:14,160  
black mirror that particular episode is

4  
00:00:17,910 --> 00:00:17,199  
archangel about a overzealous parent who

5  
00:00:21,349 --> 00:00:17,920  
suffers the

6  
00:00:23,269 --> 00:00:21,359  
unintended consequences of using some

7  
00:00:24,390 --> 00:00:23,279  
really cool technology to make her

8  
00:00:27,589 --> 00:00:24,400  
daughter's life

9  
00:00:29,830 --> 00:00:27,599  
better and more safe

10  
00:00:32,790 --> 00:00:29,840  
of course i could have picked just about

11  
00:00:36,470 --> 00:00:32,800  
any episode of black bear to

12  
00:00:37,750 --> 00:00:36,480  
highlight the dystopian 1984 orwellian

13  
00:00:41,430 --> 00:00:37,760

future that so many

14

00:00:43,110 --> 00:00:41,440

are predicting will come with technology

15

00:00:45,830 --> 00:00:43,120

advances

16

00:00:48,069 --> 00:00:45,840

but what is different about the show and

17

00:00:49,510 --> 00:00:48,079

what i'm super excited to bring you

18

00:00:52,630 --> 00:00:49,520

about this show

19

00:00:56,549 --> 00:00:52,640

is we're going to talk to someone

20

00:01:00,709 --> 00:00:56,559

quantum doug dr quantum doug who

21

00:01:04,149 --> 00:01:00,719

really has the chops phd in quantum

22

00:01:05,990 --> 00:01:04,159

computing over 20 years experience as a

23

00:01:08,710 --> 00:01:06,000

senior member of the technical staff

24

00:01:09,109 --> 00:01:08,720

of texas instruments and doug can take

25

00:01:18,070 --> 00:01:09,119

us

26  
00:01:18,870 --> 00:01:18,080  
and the metaphysical spiritual aspect of

27  
00:01:21,749 --> 00:01:18,880  
this

28  
00:01:22,310 --> 00:01:21,759  
it's a deep dive so i have a lot of

29  
00:01:24,310 --> 00:01:22,320  
clips

30  
00:01:26,070 --> 00:01:24,320  
that i want to play for you to try and

31  
00:01:29,190 --> 00:01:26,080  
motivate you to hang in there

32  
00:01:30,950 --> 00:01:29,200  
just like i had to

33  
00:01:33,350 --> 00:01:30,960  
yeah it is but i got a michael scott

34  
00:01:35,670 --> 00:01:33,360  
this little bit

35  
00:01:36,710 --> 00:01:35,680  
explain it to me like i'm five years old

36  
00:01:38,149 --> 00:01:36,720  
that's the part that

37  
00:01:40,069 --> 00:01:38,159  
people can't understand about

38  
00:01:41,990 --> 00:01:40,079

entanglement is that you

39

00:01:43,190 --> 00:01:42,000

can't have entanglement unless you have

40

00:01:45,350 --> 00:01:43,200

four dimensions

41

00:01:47,030 --> 00:01:45,360

but every ebit has its own four

42

00:01:49,350 --> 00:01:47,040

dimensions private dimensions

43

00:01:51,190 --> 00:01:49,360

because otherwise they'd interact so

44

00:01:52,710 --> 00:01:51,200

that means that there's a gazillion

45

00:01:54,870 --> 00:01:52,720

dimensions out there

46

00:01:56,069 --> 00:01:54,880

and we can show that with shore's

47

00:01:57,749 --> 00:01:56,079

algorithm

48

00:01:59,190 --> 00:01:57,759

in that the number of dimensions that

49

00:02:01,910 --> 00:01:59,200

you have in quantum computing is

50

00:02:03,190 --> 00:02:01,920

2 to the power of  $q$  where  $q$  is the

51

00:02:05,670 --> 00:02:03,200

number of qubits

52

00:02:06,950 --> 00:02:05,680

and if you have 2 to the 300 qubits you

53

00:02:08,710 --> 00:02:06,960

have 300 qubits

54

00:02:10,630 --> 00:02:08,720

which would allow you to break using

55

00:02:13,670 --> 00:02:10,640

short algorithm every

56

00:02:15,430 --> 00:02:13,680

encryption in any internet in the world

57

00:02:16,790 --> 00:02:15,440

it's just like gravity works independent

58

00:02:17,510 --> 00:02:16,800

of whether you believe in it or not

59

00:02:19,350 --> 00:02:17,520

right

60

00:02:21,350 --> 00:02:19,360

and most people don't realize that

61

00:02:21,990 --> 00:02:21,360

relativity is also doing its thing

62

00:02:23,990 --> 00:02:22,000

independent whether

63

00:02:25,430 --> 00:02:24,000

you believe it or not but guess what if

64

00:02:26,710 --> 00:02:25,440

you didn't believe in it none of our

65

00:02:29,350 --> 00:02:26,720

gps's would work

66

00:02:30,949 --> 00:02:29,360

all the satellites in up in space have

67

00:02:31,830 --> 00:02:30,959

to synchronize their clocks with respect

68

00:02:34,070 --> 00:02:31,840

to relativity

69

00:02:36,150 --> 00:02:34,080

or none of our gps would work it's

70

00:02:37,670 --> 00:02:36,160

proto-physics it's not metaphysics it's

71

00:02:40,390 --> 00:02:37,680

proto-physics it's

72

00:02:42,309 --> 00:02:40,400

imagine if the quantum states quantum

73

00:02:44,150 --> 00:02:42,319

stuff was marked as black magic and

74

00:02:46,790 --> 00:02:44,160

nobody did anything about it

75

00:02:47,990 --> 00:02:46,800

our society right now would be no have

76

00:02:51,589 --> 00:02:48,000

no lasers

77

00:02:54,869 --> 00:02:51,599

no no computers no transistors

78

00:02:57,430 --> 00:02:54,879

nothing no nothing i love it but

79

00:02:58,949 --> 00:02:57,440

doug this is where we part ways who the

80

00:03:02,710 --> 00:02:58,959

thinks google

81

00:03:05,270 --> 00:03:02,720

is interested in helping society

82

00:03:06,630 --> 00:03:05,280

what evidence no i'm dead

83

00:03:08,390 --> 00:03:06,640

serious

84

00:03:10,630 --> 00:03:08,400

welcome to skeptico where we explore

85

00:03:12,949 --> 00:03:10,640

controversial science and spirituality

86

00:03:13,830 --> 00:03:12,959

with leading researchers thinkers and

87

00:03:16,390 --> 00:03:13,840

their critics

88

00:03:18,550 --> 00:03:16,400

i'm your host alex karis and today we're

89

00:03:22,149 --> 00:03:18,560

joined by dr

90

00:03:25,350 --> 00:03:22,159

doug matzke and he's here to talk about

91

00:03:28,470 --> 00:03:25,360

his new book deep reality

92

00:03:31,030 --> 00:03:28,480

why source science and in a minute doug

93

00:03:33,430 --> 00:03:31,040

will tell us what that means

94

00:03:34,550 --> 00:03:33,440

be the key to understanding human

95

00:03:38,229 --> 00:03:34,560

potential

96

00:03:40,309 --> 00:03:38,239

it's a book that he co-authored with the

97

00:03:41,910 --> 00:03:40,319

very well-known and highly regarded

98

00:03:45,830 --> 00:03:41,920

stanford scientist

99

00:03:47,509 --> 00:03:45,840

dr william tiller you know if you go to

100

00:03:50,229 --> 00:03:47,519

amazon like i did

101  
00:03:52,229 --> 00:03:50,239  
you can actually read this book for free

102  
00:03:55,429 --> 00:03:52,239  
if you have kindle unlimited

103  
00:03:58,550 --> 00:03:55,439  
which is quite incredible

104  
00:04:02,789 --> 00:03:58,560  
especially given what an amazing book

105  
00:04:06,229 --> 00:04:02,799  
it is and how informed

106  
00:04:06,869 --> 00:04:06,239  
this guy is uh quantum doug dr quantum

107  
00:04:10,070 --> 00:04:06,879  
doug i mean

108  
00:04:13,190 --> 00:04:10,080  
hold on this guy has a freaking

109  
00:04:15,110 --> 00:04:13,200  
phd in quantum computing from the

110  
00:04:18,390 --> 00:04:15,120  
university of texas

111  
00:04:20,710 --> 00:04:18,400  
and he's not just a really smart guy

112  
00:04:22,790 --> 00:04:20,720  
like academically smart theoretical

113  
00:04:24,790 --> 00:04:22,800

physics smart in a way that we all

114

00:04:26,710 --> 00:04:24,800

wouldn't understand which is all that

115

00:04:27,909 --> 00:04:26,720

but he spent 20 years at texas

116

00:04:29,270 --> 00:04:27,919

instruments and we're going to talk

117

00:04:30,629 --> 00:04:29,280

about that for a minute i was there at

118

00:04:31,749 --> 00:04:30,639

texas instruments for a while were you

119

00:04:34,870 --> 00:04:31,759

there i was just an

120

00:04:37,670 --> 00:04:34,880

intern but whatever working

121

00:04:38,390 --> 00:04:37,680

on some of the most advanced artificial

122

00:04:40,950 --> 00:04:38,400

intelligence

123

00:04:42,310 --> 00:04:40,960

chip technology in the world he worked

124

00:04:44,950 --> 00:04:42,320

on the famous lisp

125

00:04:46,150 --> 00:04:44,960

chip which if you can get over the fact

126  
00:04:49,189 --> 00:04:46,160  
that it was

127  
00:04:51,270 --> 00:04:49,199  
put into those drone bombs that

128  
00:04:52,710 --> 00:04:51,280  
obama sent over to strike on yemen

129  
00:04:55,830 --> 00:04:52,720  
wedding parties

130  
00:04:56,550 --> 00:04:55,840  
beside that i mean it's making america

131  
00:04:59,590 --> 00:04:56,560  
great again

132  
00:05:00,070 --> 00:04:59,600  
kind of thing i guess i don't know but

133  
00:05:03,430 --> 00:05:00,080  
this

134  
00:05:05,830 --> 00:05:03,440  
guy really really knows his stuff

135  
00:05:06,950 --> 00:05:05,840  
and and what's really remarkable about

136  
00:05:09,270 --> 00:05:06,960  
this from a

137  
00:05:12,950 --> 00:05:09,280  
kind of skeptical perspective the stuff

138  
00:05:18,390 --> 00:05:16,710

doug is not just here to talk about

139

00:05:20,469 --> 00:05:18,400

quantum computing artificial

140

00:05:21,990 --> 00:05:20,479

intelligence strong ai and all that

141

00:05:24,390 --> 00:05:22,000

stuff which i am going to

142

00:05:25,909 --> 00:05:24,400

talk to him at great length about that

143

00:05:28,710 --> 00:05:25,919

because there's so few people

144

00:05:30,710 --> 00:05:28,720

who can make that connection between

145

00:05:33,110 --> 00:05:30,720

theoretical quantum physics

146

00:05:35,830 --> 00:05:33,120

that is central to what we're all about

147

00:05:38,790 --> 00:05:35,840

right now our technology and our science

148

00:05:39,270 --> 00:05:38,800

but make that connection to the real

149

00:05:42,070 --> 00:05:39,280

world

150

00:05:43,749 --> 00:05:42,080

it's happening now in terms of quantum

151

00:05:46,629 --> 00:05:43,759

computing reality

152

00:05:47,990 --> 00:05:46,639

and doug can nail that down he really

153

00:05:51,189 --> 00:05:48,000

knows what he's talking about

154

00:05:52,070 --> 00:05:51,199

but if you want to talk about next level

155

00:05:53,670 --> 00:05:52,080

metaphysics

156

00:05:55,749 --> 00:05:53,680

and connecting all that stuff to

157

00:05:57,350 --> 00:05:55,759

metaphysics which we always do and

158

00:05:57,990 --> 00:05:57,360

everyone wants to go oh that's so

159

00:06:00,390 --> 00:05:58,000

woo-woo

160

00:06:01,670 --> 00:06:00,400

no this guy will take the whole path

161

00:06:04,870 --> 00:06:01,680

from

162

00:06:07,270 --> 00:06:04,880

real life today quantum computing

163

00:06:08,629 --> 00:06:07,280

as it's happening as it's about to

164

00:06:09,990 --> 00:06:08,639

happening the stuff that you don't even

165

00:06:11,430 --> 00:06:10,000

hear about he can take you there

166

00:06:13,990 --> 00:06:11,440

and then he can talk about near-death

167

00:06:16,150 --> 00:06:14,000

experiences and he can talk about monroe

168

00:06:19,670 --> 00:06:16,160

institute and out-of-body travel and

169

00:06:19,990 --> 00:06:19,680

you projecting into utopian realities

170

00:06:22,390 --> 00:06:20,000

time

171

00:06:23,670 --> 00:06:22,400

traveling into the future and then if

172

00:06:24,309 --> 00:06:23,680

you want to talk about controversial

173

00:06:26,870 --> 00:06:24,319

stuff

174

00:06:28,550 --> 00:06:26,880

like transgender issues strong ai

175

00:06:31,670 --> 00:06:28,560

simulation hypothesis

176

00:06:34,150 --> 00:06:31,680

and how that all might relate to

177

00:06:35,909 --> 00:06:34,160

doug's understanding of what he's

178

00:06:37,189 --> 00:06:35,919

calling source science

179

00:06:39,990 --> 00:06:37,199

which is really just another way of

180

00:06:44,390 --> 00:06:40,000

saying quantum physics in a way

181

00:06:47,510 --> 00:06:44,400

i mean like i say it's remarkable

182

00:06:48,150 --> 00:06:47,520

remarkable stuff doug and i were talking

183

00:06:50,309 --> 00:06:48,160

just a minute

184

00:06:52,550 --> 00:06:50,319

ago that you know hey maybe he doesn't

185

00:06:54,070 --> 00:06:52,560

have as many media appearances as some

186

00:06:55,670 --> 00:06:54,080

other people do

187

00:06:58,830 --> 00:06:55,680

i don't know i watched a couple of his

188

00:07:01,830 --> 00:06:58,840

presentations on youtube and it's like

189

00:07:06,070 --> 00:07:01,840

fantastic stuff i read the book

190

00:07:10,150 --> 00:07:06,080

it's powerful stuff and i think that

191

00:07:14,790 --> 00:07:10,160

the reason why we are not more welcoming

192

00:07:17,909 --> 00:07:14,800

as an overall society collective

193

00:07:19,990 --> 00:07:17,919

science community to doug's work

194

00:07:21,270 --> 00:07:20,000

i think might turn out to be part of

195

00:07:24,309 --> 00:07:21,280

this story

196

00:07:25,430 --> 00:07:24,319

but we gotta get to the guy and talk to

197

00:07:27,909 --> 00:07:25,440

him

198

00:07:28,790 --> 00:07:27,919

dr doug thanks for joining me on

199

00:07:31,589 --> 00:07:28,800

skeptico

200

00:07:33,430 --> 00:07:31,599

i'm so glad you're here hey yeah thanks

201  
00:07:36,230 --> 00:07:33,440  
alex i appreciate it

202  
00:07:37,510 --> 00:07:36,240  
so tell us a little bit about this

203  
00:07:41,670 --> 00:07:37,520  
remarkable book

204  
00:07:44,550 --> 00:07:41,680  
what is source science yeah exactly

205  
00:07:45,189 --> 00:07:44,560  
well part of the thing that's going on

206  
00:07:46,869 --> 00:07:45,199  
with

207  
00:07:48,710 --> 00:07:46,879  
in the metaphysics area but also in the

208  
00:07:51,909 --> 00:07:48,720  
regular you know

209  
00:07:54,550 --> 00:07:51,919  
um ai even you know it's like

210  
00:07:57,110 --> 00:07:54,560  
everybody's trying to figure out well

211  
00:07:58,550 --> 00:07:57,120  
how are we smart you know and how are we

212  
00:08:01,350 --> 00:07:58,560  
intelligent where is

213  
00:08:02,150 --> 00:08:01,360

come from you know and ultimately and

214

00:08:03,510 --> 00:08:02,160

like even if you

215

00:08:04,790 --> 00:08:03,520

include the law of attraction law of

216

00:08:05,510 --> 00:08:04,800

attraction says well where does meaning

217

00:08:06,790 --> 00:08:05,520

come from

218

00:08:09,510 --> 00:08:06,800

well that all has to do with our

219

00:08:13,350 --> 00:08:09,520

underlying model

220

00:08:15,909 --> 00:08:13,360

of how we represent thoughts and meaning

221

00:08:16,390 --> 00:08:15,919

which is what ai is about too right and

222

00:08:18,950 --> 00:08:16,400

so

223

00:08:20,550 --> 00:08:18,960

the question is if you understand that

224

00:08:22,309 --> 00:08:20,560

the universe is ultimately quantum

225

00:08:24,230 --> 00:08:22,319

mechanical you know

226

00:08:25,749 --> 00:08:24,240

um feynman says the world is not

227

00:08:27,029 --> 00:08:25,759

classical damn it it's quantum

228

00:08:28,950 --> 00:08:27,039

mechanical right

229

00:08:30,469 --> 00:08:28,960

and so when you realize that you go well

230

00:08:32,149 --> 00:08:30,479

how does that relate

231

00:08:34,310 --> 00:08:32,159

to all of these topics that we're just

232

00:08:37,350 --> 00:08:34,320

listing here it turns out

233

00:08:40,389 --> 00:08:37,360

that if you look at ultimately the

234

00:08:42,550 --> 00:08:40,399

physics has bits

235

00:08:44,550 --> 00:08:42,560

part of physics in other words you no

236

00:08:45,670 --> 00:08:44,560

longer treat bits as computer science

237

00:08:48,230 --> 00:08:45,680

anymore physics

238

00:08:50,230 --> 00:08:48,240

bits are physics it's physics the

239

00:08:50,870 --> 00:08:50,240

physics of black holes and quantum hold

240

00:08:54,150 --> 00:08:50,880

on doug

241

00:08:56,470 --> 00:08:54,160

hold on we're already gonna lose people

242

00:08:57,430 --> 00:08:56,480

and there's no need to lose people

243

00:09:01,509 --> 00:08:57,440

because your book

244

00:09:04,630 --> 00:09:01,519

is incredibly uh lucid and accessible

245

00:09:05,509 --> 00:09:04,640

on on that level okay it quickly gets

246

00:09:08,630 --> 00:09:05,519

deep you can

247

00:09:10,470 --> 00:09:08,640

quickly kind of drive off the cliff here

248

00:09:12,310 --> 00:09:10,480

but let's start with something simple

249

00:09:13,110 --> 00:09:12,320

what we talk about a lot of time on this

250

00:09:16,710 --> 00:09:13,120

show

251  
00:09:19,269 --> 00:09:16,720  
is the old double slit experiment

252  
00:09:19,990 --> 00:09:19,279  
so take us through the double slit

253  
00:09:22,070 --> 00:09:20,000  
experiment

254  
00:09:23,750 --> 00:09:22,080  
and then explain for us like you do

255  
00:09:25,509 --> 00:09:23,760  
really beautifully and i always point

256  
00:09:28,550 --> 00:09:25,519  
this out to people

257  
00:09:29,590 --> 00:09:28,560  
what dean rayden dr dean ray who many

258  
00:09:33,590 --> 00:09:29,600  
people know and wrote

259  
00:09:37,030 --> 00:09:33,600  
just a glowing review of your book

260  
00:09:38,550 --> 00:09:37,040  
so take us to the old double slit

261  
00:09:40,710 --> 00:09:38,560  
experiment which i off

262  
00:09:42,870 --> 00:09:40,720  
i often say you know is really should be

263  
00:09:46,150 --> 00:09:42,880

renamed as the consciousness

264

00:09:46,949 --> 00:09:46,160

is real experiment but how we got from

265

00:09:50,710 --> 00:09:46,959

there

266

00:09:52,389 --> 00:09:50,720

confusion about it that was created

267

00:09:54,550 --> 00:09:52,399

and then what dean braden did really

268

00:09:56,389 --> 00:09:54,560

kind of bury that once and for all from

269

00:09:59,590 --> 00:09:56,399

a metaphysical standpoint

270

00:10:01,030 --> 00:09:59,600

yeah yeah the the double slit experiment

271

00:10:02,630 --> 00:10:01,040

ties all those things that we're just

272

00:10:03,990 --> 00:10:02,640

talking about together because it says

273

00:10:06,710 --> 00:10:04,000

look at the very low level

274

00:10:08,790 --> 00:10:06,720

quantum mechanics is real right and it

275

00:10:10,230 --> 00:10:08,800

has this weird property where everything

276

00:10:12,230 --> 00:10:10,240

is a wave

277

00:10:14,150 --> 00:10:12,240

even a single electron interacting with

278

00:10:15,590 --> 00:10:14,160

itself acts like a wave not multiple

279

00:10:17,430 --> 00:10:15,600

electrons just a single electron

280

00:10:18,790 --> 00:10:17,440

so it goes through both slits at one

281

00:10:20,870 --> 00:10:18,800

time and

282

00:10:22,630 --> 00:10:20,880

when you put that in a box it's

283

00:10:24,790 --> 00:10:22,640

automated and shielded

284

00:10:26,310 --> 00:10:24,800

consciousness will affect that and

285

00:10:29,350 --> 00:10:26,320

that's sort of this whole

286

00:10:31,590 --> 00:10:29,360

how can intention in and

287

00:10:33,590 --> 00:10:31,600

consciousness affect quantum mechanics

288

00:10:35,829 --> 00:10:33,600

is sort of the fundamental thing that

289

00:10:39,030 --> 00:10:35,839

dean raiden's experiment did

290

00:10:41,190 --> 00:10:39,040

and once you realize oh maybe

291

00:10:42,710 --> 00:10:41,200

quantum mechanics and thought are really

292

00:10:44,550 --> 00:10:42,720

the same thing

293

00:10:45,990 --> 00:10:44,560

so it's not unusual that they would

294

00:10:47,910 --> 00:10:46,000

interact sort of

295

00:10:49,030 --> 00:10:47,920

that's the model what i call source

296

00:10:51,269 --> 00:10:49,040

science

297

00:10:52,230 --> 00:10:51,279

is that those things are really the same

298

00:10:55,430 --> 00:10:52,240

thing

299

00:10:57,990 --> 00:10:55,440

and then how i support that argument

300

00:11:01,430 --> 00:10:58,000

through you know 400 pages of the book

301  
00:11:03,350 --> 00:11:01,440  
um is is is the is the insight that i

302  
00:11:05,829 --> 00:11:03,360  
had in fact this book was written

303  
00:11:06,790 --> 00:11:05,839  
purely as pretty much as insight it's

304  
00:11:09,430 --> 00:11:06,800  
like i don't take

305  
00:11:09,829 --> 00:11:09,440  
credit for the book as much as i sort of

306  
00:11:11,190 --> 00:11:09,839  
like

307  
00:11:13,590 --> 00:11:11,200  
channel the book if you want to think

308  
00:11:14,710 --> 00:11:13,600  
about it that way i don't want to think

309  
00:11:16,150 --> 00:11:14,720  
about it that way

310  
00:11:18,310 --> 00:11:16,160  
because it's going to throw a lot of

311  
00:11:20,949 --> 00:11:18,320  
people off i mean well the point is

312  
00:11:21,910 --> 00:11:20,959  
it's it's intellect and insight at the

313  
00:11:24,230 --> 00:11:21,920

same time so

314

00:11:25,750 --> 00:11:24,240

you know and and i only wrote when i was

315

00:11:26,949 --> 00:11:25,760

inspired i didn't write when i was

316

00:11:28,550 --> 00:11:26,959

forcing to get it done

317

00:11:30,630 --> 00:11:28,560

so it took me five years to write the

318

00:11:33,590 --> 00:11:30,640

book i can imagine

319

00:11:35,190 --> 00:11:33,600

no it's it's it's theory of everything

320

00:11:37,670 --> 00:11:35,200

kind of level but with

321

00:11:38,230 --> 00:11:37,680

backing it up you know kind of thing let

322

00:11:41,030 --> 00:11:38,240

me i

323

00:11:42,790 --> 00:11:41,040

feel like we're still not touching

324

00:11:43,590 --> 00:11:42,800

people or and maybe we are maybe and i

325

00:11:46,310 --> 00:11:43,600

don't know but

326

00:11:49,269 --> 00:11:46,320

like your your dissertation i don't

327

00:11:51,030 --> 00:11:49,279

understand your dissertation from crap

328

00:11:53,110 --> 00:11:51,040

but a couple of the buzzwords that i

329

00:11:56,870 --> 00:11:53,120

pulled out of it is

330

00:11:59,910 --> 00:11:56,880

the standard model okay so

331

00:12:02,790 --> 00:11:59,920

that means cern that means

332

00:12:04,230 --> 00:12:02,800

they built this huge freaking hydron

333

00:12:06,629 --> 00:12:04,240

collider ring

334

00:12:08,790 --> 00:12:06,639

miles and miles up in the alps to slam

335

00:12:11,509 --> 00:12:08,800

these things together so they could find

336

00:12:12,949 --> 00:12:11,519

all the little pieces that we

337

00:12:15,590 --> 00:12:12,959

hypothesize are there

338

00:12:16,069 --> 00:12:15,600

aren't really there you come along and

339

00:12:20,069 --> 00:12:16,079

you go

340

00:12:23,670 --> 00:12:20,079

oh okay i can do that just with

341

00:12:26,069 --> 00:12:23,680

math just with math yeah

342

00:12:28,470 --> 00:12:26,079

so yeah take us through that at a super

343

00:12:31,829 --> 00:12:28,480

high level in terms of

344

00:12:33,990 --> 00:12:31,839

what's going on with quantum mechanics

345

00:12:35,269 --> 00:12:34,000

that people don't understand you know

346

00:12:37,030 --> 00:12:35,279

you just talked about the the double

347

00:12:38,790 --> 00:12:37,040

slit experiment but people still don't

348

00:12:40,389 --> 00:12:38,800

understand it and then they still don't

349

00:12:42,629 --> 00:12:40,399

understand

350

00:12:44,470 --> 00:12:42,639

so the double slit experiment right is

351

00:12:45,990 --> 00:12:44,480

you shoot the photon beam

352

00:12:47,509 --> 00:12:46,000

and sometimes it looks like a wave

353

00:12:48,949 --> 00:12:47,519

sometimes it looks like a particle it

354

00:12:50,230 --> 00:12:48,959

shouldn't be it should either be a wave

355

00:12:53,430 --> 00:12:50,240

or it should be a particle

356

00:12:55,030 --> 00:12:53,440

and then the conclusion is aha uh the

357

00:12:57,190 --> 00:12:55,040

observer effect comes out of that

358

00:12:59,110 --> 00:12:57,200

if i observe if a tree falls in the

359

00:13:00,710 --> 00:12:59,120

forest then it's a wave if it doesn't

360

00:13:03,030 --> 00:13:00,720

then it's an article got a thing

361

00:13:04,470 --> 00:13:03,040

and then you're kind of saying yeah but

362

00:13:07,269 --> 00:13:04,480

it's much

363

00:13:07,990 --> 00:13:07,279

much much bigger than that and how does

364

00:13:11,269 --> 00:13:08,000

that relate

365

00:13:13,430 --> 00:13:11,279

to so so that's the idea of this term

366

00:13:15,430 --> 00:13:13,440

you're using source science it's like

367

00:13:17,269 --> 00:13:15,440

right if you keep drilling down drilling

368

00:13:19,269 --> 00:13:17,279

down drilling down

369

00:13:20,949 --> 00:13:19,279

the reason that the double slit

370

00:13:23,269 --> 00:13:20,959

experiment looks so weird is because

371

00:13:25,910 --> 00:13:23,279

they just don't really want to embrace

372

00:13:26,470 --> 00:13:25,920

what's down there at that lower level

373

00:13:29,509 --> 00:13:26,480

yeah

374

00:13:32,870 --> 00:13:29,519

absolutely absolutely so the the

375

00:13:35,030 --> 00:13:32,880

the key insight from this is that even

376

00:13:36,389 --> 00:13:35,040

quantum computing which is what i did

377

00:13:39,509 --> 00:13:36,399

for my dissertation

378

00:13:41,750 --> 00:13:39,519

it's just bits under there and those

379

00:13:43,110 --> 00:13:41,760

bits are just like we would think about

380

00:13:44,069 --> 00:13:43,120

them in computer science they're ones

381

00:13:46,069 --> 00:13:44,079

and zeros

382

00:13:47,590 --> 00:13:46,079

but they happen to be represented in a

383

00:13:49,110 --> 00:13:47,600

mathematical way

384

00:13:50,870 --> 00:13:49,120

that you can say computer science and

385

00:13:51,990 --> 00:13:50,880

physics can use the same representation

386

00:13:54,230 --> 00:13:52,000

that would

387

00:13:56,069 --> 00:13:54,240

brilliance of the geometric algebra so

388

00:13:57,590 --> 00:13:56,079

once you have a common language now

389

00:13:59,590 --> 00:13:57,600

where computer science and physics can

390

00:14:01,990 --> 00:13:59,600

talk together

391

00:14:03,509 --> 00:14:02,000

and you can treat bits as though their

392

00:14:05,670 --> 00:14:03,519

physics

393

00:14:07,509 --> 00:14:05,680

that's the insight that started this

394

00:14:09,590 --> 00:14:07,519

whole thing

395

00:14:10,550 --> 00:14:09,600

does that make sense did i make that

396

00:14:13,350 --> 00:14:10,560

clear

397

00:14:14,790 --> 00:14:13,360

i i think it does you know what really

398

00:14:19,110 --> 00:14:14,800

helped me a lot

399

00:14:22,470 --> 00:14:19,120

um what i and i thought you know because

400

00:14:25,350 --> 00:14:22,480

to talk about the coin demonstration

401  
00:14:26,949 --> 00:14:25,360  
because from an information standpoint

402  
00:14:29,350 --> 00:14:26,959  
there's a little bit of an aha moment

403  
00:14:34,470 --> 00:14:29,360  
that i think a lot of people will grasp

404  
00:14:35,910 --> 00:14:34,480  
yeah yeah imagine that you have

405  
00:14:37,509 --> 00:14:35,920  
i have something behind my back right

406  
00:14:38,069 --> 00:14:37,519  
and i'm going to hold it out and there's

407  
00:14:40,230 --> 00:14:38,079  
a coin

408  
00:14:41,910 --> 00:14:40,240  
there in my hand okay and then i'm going

409  
00:14:43,030 --> 00:14:41,920  
to put it back behind my hand and then

410  
00:14:45,829 --> 00:14:43,040  
i'm going to

411  
00:14:46,470 --> 00:14:45,839  
show again what looks like a similar

412  
00:14:50,150 --> 00:14:46,480  
coin

413  
00:14:52,790 --> 00:14:50,160

it back and say

414

00:14:54,629 --> 00:14:52,800

how many coins do i have and this is

415

00:14:56,230 --> 00:14:54,639

this is this demo was created by my

416

00:14:58,790 --> 00:14:56,240

colleague mike manthe

417

00:15:00,470 --> 00:14:58,800

and he and and the answer is well you

418

00:15:02,150 --> 00:15:00,480

have one coin or maybe you

419

00:15:04,310 --> 00:15:02,160

have more than one coin right so there's

420

00:15:06,870 --> 00:15:04,320

there's like a bit of information

421

00:15:07,750 --> 00:15:06,880

now if i take my coin the hand out and i

422

00:15:10,470 --> 00:15:07,760

show you both

423

00:15:12,310 --> 00:15:10,480

coins at the same time i've just given

424

00:15:15,750 --> 00:15:12,320

you a bit of information right

425

00:15:18,550 --> 00:15:15,760

right alex it's either one

426

00:15:19,829 --> 00:15:18,560

or more than one right i just you got a

427

00:15:20,470 --> 00:15:19,839

bit of information now you know there's

428

00:15:23,509 --> 00:15:20,480

two

429

00:15:25,430 --> 00:15:23,519

and the question is where did that bit

430

00:15:28,550 --> 00:15:25,440

come from

431

00:15:30,949 --> 00:15:28,560

right yeah where did that bit of

432

00:15:33,110 --> 00:15:30,959

information come from and the only occur

433

00:15:35,910 --> 00:15:33,120

the way that it can happen

434

00:15:37,670 --> 00:15:35,920

is if you have them concurrently

435

00:15:40,870 --> 00:15:37,680

presented

436

00:15:41,990 --> 00:15:40,880

at the same time let's trace that back

437

00:15:45,430 --> 00:15:42,000

if we can to

438

00:15:47,910 --> 00:15:45,440

uh kind of the way we all know

439

00:15:48,870 --> 00:15:47,920

quote unquote computers work right

440

00:15:51,269 --> 00:15:48,880

something is either

441

00:15:53,269 --> 00:15:51,279

on or it's off you either turn on that

442

00:15:56,470 --> 00:15:53,279

little donut or you turn it off

443

00:15:56,949 --> 00:15:56,480

and now help us understand how you've

444

00:16:00,870 --> 00:15:56,959

just

445

00:16:03,990 --> 00:16:00,880

kind of smashed that model a little bit

446

00:16:04,790 --> 00:16:04,000

yeah even turing computing which is

447

00:16:05,990 --> 00:16:04,800

supposed to be

448

00:16:08,069 --> 00:16:06,000

vulnerable computing and turing

449

00:16:09,790 --> 00:16:08,079

computing is supposed to be more

450

00:16:13,910 --> 00:16:09,800

sequential but here

451  
00:16:21,350 --> 00:16:18,629  
affects bits at the physics level

452  
00:16:23,509 --> 00:16:21,360  
and that's a new concept this is what we

453  
00:16:25,990 --> 00:16:23,519  
call non-shannon information

454  
00:16:27,670 --> 00:16:26,000  
and and it's non-causal information

455  
00:16:29,590 --> 00:16:27,680  
because

456  
00:16:30,949 --> 00:16:29,600  
you know even if you have physics you

457  
00:16:33,430 --> 00:16:30,959  
have to say well i have

458  
00:16:34,790 --> 00:16:33,440  
two two electrons hitting at the same

459  
00:16:37,509 --> 00:16:34,800  
time well what is the same

460  
00:16:38,629 --> 00:16:37,519  
timing that's a concurrent event right

461  
00:16:40,629 --> 00:16:38,639  
well

462  
00:16:42,629 --> 00:16:40,639  
relativity says there is no such thing

463  
00:16:43,110 --> 00:16:42,639

as concurrent events it's all relative

464

00:16:44,949 --> 00:16:43,120

right

465

00:16:46,230 --> 00:16:44,959

so there's this sort of like it

466

00:16:49,189 --> 00:16:46,240

questions the whole

467

00:16:51,030 --> 00:16:49,199

notion of concurrency in the quantum

468

00:16:53,829 --> 00:16:51,040

mechanics perspective

469

00:16:55,749 --> 00:16:53,839

and now that tie that to another mystery

470

00:16:57,030 --> 00:16:55,759

that people have in their head but they

471

00:17:00,389 --> 00:16:57,040

don't really understand

472

00:17:03,509 --> 00:17:00,399

how it fits in but what we all know

473

00:17:06,789 --> 00:17:03,519

kind of what entanglement is yeah

474

00:17:10,470 --> 00:17:06,799

so what does entanglement say about

475

00:17:13,829 --> 00:17:10,480

concurrency absolutely

476  
00:17:15,750 --> 00:17:13,839  
even entanglement is the second

477  
00:17:17,429 --> 00:17:15,760  
step in quantum mechanics if there's if

478  
00:17:19,029 --> 00:17:17,439  
you're going to try to

479  
00:17:20,549 --> 00:17:19,039  
learn a little bit about quantum

480  
00:17:22,069 --> 00:17:20,559  
mechanics in this

481  
00:17:23,990 --> 00:17:22,079  
lecture here in this interview that

482  
00:17:26,069 --> 00:17:24,000  
we're going to do here the

483  
00:17:27,829 --> 00:17:26,079  
one thing you have to realize a qubit is

484  
00:17:30,230 --> 00:17:27,839  
really two bits

485  
00:17:32,070 --> 00:17:30,240  
that can be sort of like both on and off

486  
00:17:33,990 --> 00:17:32,080  
at the same time right and a regular

487  
00:17:35,750 --> 00:17:34,000  
a regular coin cannot be on and off at

488  
00:17:38,630 --> 00:17:35,760

the same time but imagine

489

00:17:40,070 --> 00:17:38,640

if you had two of those two bits and now

490

00:17:42,390 --> 00:17:40,080

you have this what's called a phase

491

00:17:43,190 --> 00:17:42,400

angle this 45 degree phase angle that

492

00:17:45,909 --> 00:17:43,200

can be both

493

00:17:46,710 --> 00:17:45,919

on and off at the same time right so if

494

00:17:49,830 --> 00:17:46,720

you have

495

00:17:50,630 --> 00:17:49,840

two of those qubits topologically then

496

00:17:53,270 --> 00:17:50,640

you have

497

00:17:56,549 --> 00:17:53,280

what's called an ebit an entangled bit

498

00:17:58,310 --> 00:17:56,559

and you can prepare it in such a way

499

00:18:01,750 --> 00:17:58,320

that there are two things acting like

500

00:18:03,430 --> 00:18:01,760

one in fact in the geometric algebra

501  
00:18:05,430 --> 00:18:03,440  
it looks like a higher dimensional

502  
00:18:08,150 --> 00:18:05,440  
version of a qubit

503  
00:18:09,350 --> 00:18:08,160  
exactly the same no you're just too

504  
00:18:12,470 --> 00:18:09,360  
freaking smart doug

505  
00:18:14,789 --> 00:18:12,480  
i swear you just start but

506  
00:18:15,990 --> 00:18:14,799  
so i'm gonna those two concepts and know

507  
00:18:18,070 --> 00:18:16,000  
that they're related

508  
00:18:19,510 --> 00:18:18,080  
and geometric algebra gives you the clue

509  
00:18:21,350 --> 00:18:19,520  
about how they're related

510  
00:18:23,590 --> 00:18:21,360  
then that's the fun part of it and you

511  
00:18:24,549 --> 00:18:23,600  
go oh so that's the root of source

512  
00:18:26,310 --> 00:18:24,559  
science so

513  
00:18:30,230 --> 00:18:26,320

yeah it is but i got a michael scott

514

00:18:33,350 --> 00:18:32,230

explain it to me like i'm five years old

515

00:18:35,830 --> 00:18:33,360

but let me say this

516

00:18:37,669 --> 00:18:35,840

when you were at texas instruments right

517

00:18:38,630 --> 00:18:37,679

yeah and you guys were making these

518

00:18:40,950 --> 00:18:38,640

chips

519

00:18:42,789 --> 00:18:40,960

yeah and you were using moore's law a

520

00:18:43,110 --> 00:18:42,799

lot of people knows what what moore's

521

00:18:45,909 --> 00:18:43,120

law

522

00:18:46,950 --> 00:18:45,919

is to get denser and denser more and

523

00:18:51,510 --> 00:18:46,960

more

524

00:18:54,870 --> 00:18:51,520

information packed into those chips

525

00:18:56,870 --> 00:18:54,880

at some point you got or you are getting

526

00:18:59,990 --> 00:18:56,880

to the point where you go

527

00:19:00,710 --> 00:19:00,000

gee golly darn we just can't lie those

528

00:19:04,230 --> 00:19:00,720

wires

529

00:19:05,270 --> 00:19:04,240

any closer together because why can't

530

00:19:07,590 --> 00:19:05,280

you at a very

531

00:19:10,150 --> 00:19:07,600

real you know i also talked to this guy

532

00:19:11,669 --> 00:19:10,160

bernardo castro and he works for a

533

00:19:12,950 --> 00:19:11,679

high-tech company that makes the

534

00:19:16,310 --> 00:19:12,960

machines that do

535

00:19:16,710 --> 00:19:16,320

all this kind of stuff and so explain it

536

00:19:18,950 --> 00:19:16,720

and to

537

00:19:20,950 --> 00:19:18,960

explain entanglement from that

538

00:19:23,190 --> 00:19:20,960

perspective in terms of gosh darn it we

539

00:19:26,870 --> 00:19:23,200

can't do it anymore

540

00:19:28,150 --> 00:19:26,880

well this notion of limits of computing

541

00:19:30,390 --> 00:19:28,160

i think that's what you're talking about

542

00:19:32,230 --> 00:19:30,400

here right limits of computing which is

543

00:19:33,830 --> 00:19:32,240

what i'm trying to get to is that

544

00:19:38,230 --> 00:19:33,840

entanglement isn't

545

00:19:41,270 --> 00:19:38,240

a fuzzy phony hairy airy fairy concept

546

00:19:41,990 --> 00:19:41,280

it's like you can't do that you

547

00:19:45,750 --> 00:19:42,000

want to do

548

00:19:48,070 --> 00:19:45,760

because of entanglement yes

549

00:19:50,070 --> 00:19:48,080

in fact many quantum properties

550

00:19:52,549 --> 00:19:50,080

entanglement is one of them

551  
00:19:54,230 --> 00:19:52,559  
where you realize quantum mechanics is

552  
00:19:57,029 --> 00:19:54,240  
generally fuzzy

553  
00:19:59,110 --> 00:19:57,039  
and because of entanglement they're

554  
00:20:01,110 --> 00:19:59,120  
correlated at a distance

555  
00:20:02,630 --> 00:20:01,120  
that's what entanglement does for you

556  
00:20:04,870 --> 00:20:02,640  
the superposition part

557  
00:20:06,470 --> 00:20:04,880  
of quantum mechanics is probability that

558  
00:20:09,510 --> 00:20:06,480  
means it's fuzzy

559  
00:20:12,789 --> 00:20:09,520  
that and you know that the fact that you

560  
00:20:13,510 --> 00:20:12,799  
you you can't look into a qubit and know

561  
00:20:16,230 --> 00:20:13,520  
what it is

562  
00:20:17,830 --> 00:20:16,240  
without destroying it right this there's

563  
00:20:19,350 --> 00:20:17,840

a no cloning principle in quantum

564

00:20:20,710 --> 00:20:19,360

mechanics it says you can't even know

565

00:20:23,190 --> 00:20:20,720

the state of the quantum bit

566

00:20:24,630 --> 00:20:23,200

so talk about fuzzy right if you take

567

00:20:26,149 --> 00:20:24,640

two of those q bits and create

568

00:20:27,830 --> 00:20:26,159

entanglement now you have

569

00:20:29,830 --> 00:20:27,840

two things acting like one even though

570

00:20:32,230 --> 00:20:29,840

they're far apart

571

00:20:33,190 --> 00:20:32,240

and that can't be done in classical

572

00:20:36,230 --> 00:20:33,200

physics

573

00:20:38,310 --> 00:20:36,240

at all in fact einstein said

574

00:20:39,350 --> 00:20:38,320

oh this isn't this isn't real in fact

575

00:20:41,750 --> 00:20:39,360

einstein said

576  
00:20:43,430 --> 00:20:41,760  
for many years he says this is spooky

577  
00:20:46,630 --> 00:20:43,440  
action at a distance right

578  
00:20:49,430 --> 00:20:46,640  
and finally in the 60s bell

579  
00:20:51,029 --> 00:20:49,440  
john bell says no this is real and you

580  
00:20:51,909 --> 00:20:51,039  
can't do it any other way except your

581  
00:20:53,350 --> 00:20:51,919  
quantum mechanics

582  
00:20:55,510 --> 00:20:53,360  
now they're the chinese and everybody

583  
00:20:57,110 --> 00:20:55,520  
else is building quantum entangled ships

584  
00:20:58,390 --> 00:20:57,120  
you know that allow you to send

585  
00:20:59,830 --> 00:20:58,400  
entangled stuff around so it's

586  
00:21:03,110 --> 00:20:59,840  
technology now you know

587  
00:21:04,789 --> 00:21:03,120  
so it's real and guess what you

588  
00:21:06,950 --> 00:21:04,799

can't have an ebit unless you have four

589

00:21:08,310 --> 00:21:06,960

dimensions so how do those four

590

00:21:10,710 --> 00:21:08,320

dimensions

591

00:21:12,549 --> 00:21:10,720

again comes out of the geometric algebra

592

00:21:14,470 --> 00:21:12,559

how does that four dimensions interact

593

00:21:15,110 --> 00:21:14,480

with the three dimensions that is our

594

00:21:18,789 --> 00:21:15,120

universe

595

00:21:22,470 --> 00:21:18,799

right that's where your head goes pow

596

00:21:25,510 --> 00:21:22,480

you know right off the top great

597

00:21:28,549 --> 00:21:25,520

great that's where your head goes pow

598

00:21:29,270 --> 00:21:28,559

you got a great you got a great line in

599

00:21:31,110 --> 00:21:29,280

the book

600

00:21:34,470 --> 00:21:31,120

that maybe you can further elaborate on

601  
00:21:36,310 --> 00:21:34,480  
this sure so what you're discovering

602  
00:21:38,310 --> 00:21:36,320  
and as you say you know we're all

603  
00:21:39,990 --> 00:21:38,320  
enamored by technology

604  
00:21:42,710 --> 00:21:40,000  
and you just made an offhand remark you

605  
00:21:45,750 --> 00:21:42,720  
know oh yeah the japanese have like

606  
00:21:47,430 --> 00:21:45,760  
basically a modem that they can now

607  
00:21:48,789 --> 00:21:47,440  
send this information because entangled

608  
00:21:51,190 --> 00:21:48,799  
particles move

609  
00:21:52,950 --> 00:21:51,200  
at we don't even we can't even calculate

610  
00:21:54,310 --> 00:21:52,960  
i mean it's simultaneous how can it move

611  
00:21:56,070 --> 00:21:54,320  
around the world simultaneously i don't

612  
00:21:59,430 --> 00:21:56,080  
know it does it

613  
00:22:03,430 --> 00:21:59,440

that's a reality quantum computers

614

00:22:05,750 --> 00:22:03,440

alphago google that's a reality

615

00:22:07,750 --> 00:22:05,760

it doesn't fit all problems it may fit

616

00:22:10,870 --> 00:22:07,760

more and more problems in the future

617

00:22:13,750 --> 00:22:10,880

but quantum computers are real things

618

00:22:15,029 --> 00:22:13,760

absolutely then what you say that only

619

00:22:18,230 --> 00:22:15,039

works

620

00:22:22,149 --> 00:22:18,240

because of an understanding of

621

00:22:25,270 --> 00:22:22,159

a multi-dimensional reality and yet

622

00:22:26,710 --> 00:22:25,280

we understand our reality to be

623

00:22:28,950 --> 00:22:26,720

three-dimensional

624

00:22:30,230 --> 00:22:28,960

so now we're forced to pick okay which

625

00:22:31,990 --> 00:22:30,240

reality do we want

626

00:22:33,909 --> 00:22:32,000

we have this hard evidence that this is

627

00:22:34,390 --> 00:22:33,919

the ultimate reality it's greater than

628

00:22:36,149 --> 00:22:34,400

this

629

00:22:37,669 --> 00:22:36,159

but we have a tendency to say no no no

630

00:22:40,230 --> 00:22:37,679

no let's force it back

631

00:22:42,710 --> 00:22:40,240

into this old thing we're comfortable

632

00:22:45,510 --> 00:22:42,720

with called this 3d reality

633

00:22:47,029 --> 00:22:45,520

absolutely absolutely do you want to

634

00:22:49,029 --> 00:22:47,039

speak to that because that's the that's

635

00:22:52,630 --> 00:22:49,039

the launching off point in your book to

636

00:22:55,830 --> 00:22:55,029

if you believe like feynman says the

637

00:22:59,190 --> 00:22:55,840

universe

638

00:23:01,830 --> 00:22:59,200

mechanical but still

639

00:23:03,029 --> 00:23:01,840

you have to say well how does it even

640

00:23:04,549 --> 00:23:03,039

you know that's the part that

641

00:23:07,029 --> 00:23:04,559

people can't understand about

642

00:23:08,470 --> 00:23:07,039

entanglement is that you can't

643

00:23:11,110 --> 00:23:08,480

have entanglement unless you have four

644

00:23:13,350 --> 00:23:11,120

dimensions but every ebit has its

645

00:23:15,430 --> 00:23:13,360

own four dimensions private dimensions

646

00:23:17,510 --> 00:23:15,440

because otherwise they'd interact

647

00:23:19,029 --> 00:23:17,520

so that means that there's a gazillion

648

00:23:21,190 --> 00:23:19,039

dimensions out there

649

00:23:22,390 --> 00:23:21,200

and we can show that with shore's

650

00:23:24,070 --> 00:23:22,400

algorithm

651  
00:23:25,510 --> 00:23:24,080  
in that the number of dimensions that

652  
00:23:28,230 --> 00:23:25,520  
you have in quantum computing is

653  
00:23:29,510 --> 00:23:28,240  
2 to the power of q where q is the

654  
00:23:31,990 --> 00:23:29,520  
number of qubits

655  
00:23:33,270 --> 00:23:32,000  
and if you have 2 to the 300 qubits you

656  
00:23:35,029 --> 00:23:33,280  
have 300 qubits

657  
00:23:36,950 --> 00:23:35,039  
which would allow you to break using

658  
00:23:39,510 --> 00:23:36,960  
surge algorithm every

659  
00:23:41,750 --> 00:23:39,520  
encryption in any internet in the world

660  
00:23:43,909 --> 00:23:41,760  
if you could build a 300 bit qubit

661  
00:23:45,590 --> 00:23:43,919  
that's bigger than most 256 bit

662  
00:23:47,350 --> 00:23:45,600  
encryption codes that we use on our

663  
00:23:50,149 --> 00:23:47,360

for all of our secure communications

664

00:23:51,510 --> 00:23:50,159

yeah everything you're you're saying is

665

00:23:52,630 --> 00:23:51,520

just so

666

00:23:55,269 --> 00:23:52,640

like we said at the beginning it's just

667

00:23:56,789 --> 00:23:55,279

so important it just really is it's so

668

00:23:58,230 --> 00:23:56,799

fundamentally important it's not out

669

00:23:59,590 --> 00:23:58,240

there you don't have a hundred

670

00:24:00,230 --> 00:23:59,600

interviews out there doug i don't know

671

00:24:03,990 --> 00:24:00,240

why

672

00:24:05,190 --> 00:24:04,000

but you don't have a ted talk with five

673

00:24:07,510 --> 00:24:05,200

million views

674

00:24:09,830 --> 00:24:07,520

i don't know why you don't it's it's

675

00:24:12,149 --> 00:24:09,840

like fundamentally important

676  
00:24:13,269 --> 00:24:12,159  
so yeah bringing it down to reality that

677  
00:24:16,870 --> 00:24:13,279  
people can relate to

678  
00:24:20,470 --> 00:24:16,880  
okay go to netflix and watch the

679  
00:24:21,350 --> 00:24:20,480  
alphago documentary it's a fascinating

680  
00:24:24,870 --> 00:24:21,360  
documentary

681  
00:24:27,909 --> 00:24:24,880  
we've all heard about how computers can

682  
00:24:30,870 --> 00:24:27,919  
uh solve problems that we think

683  
00:24:32,870 --> 00:24:30,880  
are demonstrating human intelligence so

684  
00:24:33,990 --> 00:24:32,880  
the chess you know oh the computer can

685  
00:24:36,710 --> 00:24:34,000  
play chess

686  
00:24:38,310 --> 00:24:36,720  
deep blue beats the best chess player

687  
00:24:40,470 --> 00:24:38,320  
well it turns out an even more

688  
00:24:42,630 --> 00:24:40,480

complicated computer problem is the game

689

00:24:43,990 --> 00:24:42,640

go it's very popular in asia it's less

690

00:24:45,669 --> 00:24:44,000

popular here but

691

00:24:47,510 --> 00:24:45,679

acknowledge is kind of the ultimate

692

00:24:49,909 --> 00:24:47,520

thinking game so

693

00:24:51,590 --> 00:24:49,919

the good people at google set about

694

00:24:53,430 --> 00:24:51,600

funding this little group to go see if

695

00:24:55,269 --> 00:24:53,440

they could

696

00:24:57,430 --> 00:24:55,279

beat the best go player and the

697

00:24:59,669 --> 00:24:57,440

documentary i would highly recommend and

698

00:25:00,870 --> 00:24:59,679

and people watch it and there's going to

699

00:25:02,789 --> 00:25:00,880

be an interesting connection we're going

700

00:25:05,990 --> 00:25:02,799

to try and make between the ai

701  
00:25:07,669 --> 00:25:06,000  
that they use to solve go

702  
00:25:09,110 --> 00:25:07,679  
to solve the go problem and beat the

703  
00:25:12,630 --> 00:25:09,120  
best go player in the world

704  
00:25:15,909 --> 00:25:12,640  
which isn't quantum by the way and then

705  
00:25:16,950 --> 00:25:15,919  
how that might become quantum and how it

706  
00:25:18,950 --> 00:25:16,960  
could lead to even

707  
00:25:20,390 --> 00:25:18,960  
you know really whipping the guy's butt

708  
00:25:23,350 --> 00:25:20,400  
even quicker

709  
00:25:24,230 --> 00:25:23,360  
and then as you throw in the book yeah

710  
00:25:26,149 --> 00:25:24,240  
and by the way

711  
00:25:27,830 --> 00:25:26,159  
google totally realizes this and they're

712  
00:25:29,190 --> 00:25:27,840  
building their only quan their own

713  
00:25:31,909 --> 00:25:29,200

quantum computer

714

00:25:33,590 --> 00:25:31,919

and they're at like what 38 cubit or

715

00:25:34,310 --> 00:25:33,600

something you said when we get to 300

716

00:25:36,870 --> 00:25:34,320

it's like

717

00:25:37,990 --> 00:25:36,880

game over for any encryption they're at

718

00:25:40,710 --> 00:25:38,000

38

719

00:25:41,510 --> 00:25:40,720

and then break that down for us too in

720

00:25:44,310 --> 00:25:41,520

terms of

721

00:25:46,390 --> 00:25:44,320

what that means because that's like

722

00:25:47,909 --> 00:25:46,400

already bigger than like

723

00:25:49,830 --> 00:25:47,919

if you put all the super computers in

724

00:25:51,430 --> 00:25:49,840

the world in a room you'd be

725

00:25:52,789 --> 00:25:51,440

bigger than that at solving some

726

00:25:53,350 --> 00:25:52,799

problems so there's a lot to unravel

727

00:25:56,789 --> 00:25:53,360

there

728

00:25:59,430 --> 00:25:56,799

please yeah yeah absolutely so the point

729

00:26:02,310 --> 00:25:59,440

i was making about the 300

730

00:26:04,230 --> 00:26:02,320

is that 2 to the 300 it's hard for

731

00:26:06,470 --> 00:26:04,240

people imagine how big that is

732

00:26:07,510 --> 00:26:06,480

the power of exponential but 2 to the

733

00:26:11,029 --> 00:26:07,520

300

734

00:26:14,230 --> 00:26:11,039

is more particles in the known universe

735

00:26:15,669 --> 00:26:14,240

it's that big okay so even if you had

736

00:26:17,510 --> 00:26:15,679

every particle in the universe

737

00:26:18,950 --> 00:26:17,520

to be a computer that was working on

738

00:26:20,710 --> 00:26:18,960

solving that problem

739

00:26:22,310 --> 00:26:20,720

they would all have to work together

740

00:26:24,630 --> 00:26:22,320

even though there's

741

00:26:26,070 --> 00:26:24,640

you know 30 million three billion light

742

00:26:27,510 --> 00:26:26,080

years away from each other

743

00:26:29,510 --> 00:26:27,520

working together to solve that problem

744

00:26:33,590 --> 00:26:29,520

so quantum computing cheats

745

00:26:36,950 --> 00:26:33,600

it has two to the 300 states

746

00:26:39,029 --> 00:26:36,960

sort of like a doctor whose time machine

747

00:26:39,590 --> 00:26:39,039

you know where it's got this much bigger

748

00:26:42,230 --> 00:26:39,600

space

749

00:26:43,990 --> 00:26:42,240

behind it than it looks like from

750

00:26:45,750 --> 00:26:44,000

looking at the phone booth right

751  
00:26:47,029 --> 00:26:45,760  
so quantum computing is like that

752  
00:26:49,669 --> 00:26:47,039  
essentially

753  
00:26:50,630 --> 00:26:49,679  
it's using all of these states out there

754  
00:26:51,909 --> 00:26:50,640  
and we would say

755  
00:26:54,070 --> 00:26:51,919  
physicists would say well those are

756  
00:26:57,909 --> 00:26:54,080  
mathematical no

757  
00:27:01,830 --> 00:26:57,919  
they're real because they can compute

758  
00:27:05,350 --> 00:27:01,840  
and what if humans tap into that

759  
00:27:09,190 --> 00:27:05,360  
state space and do things that we

760  
00:27:12,230 --> 00:27:09,200  
didn't expect them to do right so that's

761  
00:27:14,789 --> 00:27:12,240  
how it connects those two things well

762  
00:27:15,990 --> 00:27:14,799  
and i think you know the main thrust of

763  
00:27:19,029 --> 00:27:16,000

your book

764

00:27:22,310 --> 00:27:19,039

is that humans already do connect yeah

765

00:27:23,830 --> 00:27:22,320

and that our mis understanding has been

766

00:27:27,110 --> 00:27:23,840

that we don't connect

767

00:27:30,630 --> 00:27:27,120

and that we've adopted a model for

768

00:27:34,149 --> 00:27:30,640

how human consciousness works that is

769

00:27:36,870 --> 00:27:34,159

conveniently or intentionally dumb down

770

00:27:38,470 --> 00:27:36,880

in order to kind of push certain ideas

771

00:27:40,310 --> 00:27:38,480

but i did want to return to the alpha

772

00:27:43,510 --> 00:27:40,320

gobe thing because i think it's a great

773

00:27:46,470 --> 00:27:43,520

a great example it's like

774

00:27:47,029 --> 00:27:46,480

if you're like me i like to play online

775

00:27:49,430 --> 00:27:47,039

chess

776

00:27:50,630 --> 00:27:49,440

occasionally and i'm really not very

777

00:27:52,630 --> 00:27:50,640

good at it at all

778

00:27:54,710 --> 00:27:52,640

but one of the things that always gives

779

00:27:57,990 --> 00:27:54,720

me is a reminder

780

00:27:59,830 --> 00:27:58,000

as one as a kid in pakistan who's 12

781

00:28:02,870 --> 00:27:59,840

years old kicks my butt

782

00:28:05,190 --> 00:28:02,880

or as the computer if i ever turn it on

783

00:28:08,389 --> 00:28:05,200

full speed just destroys me

784

00:28:09,830 --> 00:28:08,399

that you know my level of kind of

785

00:28:11,830 --> 00:28:09,840

cognitive processing

786

00:28:12,870 --> 00:28:11,840

of that level you know it's kind of

787

00:28:16,310 --> 00:28:12,880

narrow but

788

00:28:18,630 --> 00:28:16,320

is just it's humbling right it's okay

789

00:28:19,750 --> 00:28:18,640

i get it i i have all these thoughts

790

00:28:22,070 --> 00:28:19,760

going through my head

791

00:28:24,070 --> 00:28:22,080

i'm really not that smart and then so

792

00:28:26,789 --> 00:28:24,080

then you take alphago

793

00:28:27,830 --> 00:28:26,799

and you go okay now we're upping the

794

00:28:31,029 --> 00:28:27,840

level like this

795

00:28:32,630 --> 00:28:31,039

guy who's the alphago champ is like

796

00:28:34,070 --> 00:28:32,640

just a lot smarter you know you talk

797

00:28:36,710 --> 00:28:34,080

he's a lot smarter

798

00:28:37,510 --> 00:28:36,720

and then you see not only that the

799

00:28:39,590 --> 00:28:37,520

computer

800

00:28:40,710 --> 00:28:39,600

beats him but the thing i got out of

801  
00:28:41,110 --> 00:28:40,720  
that and i don't know if you remember

802  
00:28:43,350 --> 00:28:41,120  
this

803  
00:28:44,549 --> 00:28:43,360  
from the movie or just from you know

804  
00:28:47,830 --> 00:28:44,559  
your knowledge of it

805  
00:28:51,590 --> 00:28:47,840  
yeah what it revealed

806  
00:28:53,350 --> 00:28:51,600  
was an entirely different strategy

807  
00:28:54,710 --> 00:28:53,360  
that people who've played go for a

808  
00:28:56,830 --> 00:28:54,720  
thousand years or two

809  
00:28:59,350 --> 00:28:56,840  
however long hadn't really fully

810  
00:29:01,590 --> 00:28:59,360  
considered and that's that

811  
00:29:02,470 --> 00:29:01,600  
you don't have to destroy the other

812  
00:29:03,990 --> 00:29:02,480  
opponent

813  
00:29:06,149 --> 00:29:04,000

all you have to do is win by the

814

00:29:07,830 --> 00:29:06,159

slightest margin so if you get to any

815

00:29:08,950 --> 00:29:07,840

point where you can calculate it out all

816

00:29:09,990 --> 00:29:08,960

the way and say i'll win by the

817

00:29:13,350 --> 00:29:10,000

slightest merger

818

00:29:16,549 --> 00:29:13,360

so the the point is that strategically

819

00:29:20,310 --> 00:29:16,559

this kind of next level thinking was

820

00:29:20,870 --> 00:29:20,320

done by the computer and what does that

821

00:29:23,430 --> 00:29:20,880

mean

822

00:29:24,710 --> 00:29:23,440

when we make the the transition as

823

00:29:26,870 --> 00:29:24,720

you're talking about

824

00:29:28,389 --> 00:29:26,880

in terms of saying you know what really

825

00:29:29,510 --> 00:29:28,399

this is what i hear you saying and i

826

00:29:31,190 --> 00:29:29,520

want you to speak to

827

00:29:33,510 --> 00:29:31,200

because i never knew this until i read

828

00:29:35,110 --> 00:29:33,520

your book is that i always thought

829

00:29:37,750 --> 00:29:35,120

quantum computing

830

00:29:38,870 --> 00:29:37,760

would be limited to certain classes of

831

00:29:41,830 --> 00:29:38,880

problems

832

00:29:42,389 --> 00:29:41,840

because right now that's the only thing

833

00:29:44,950 --> 00:29:42,399

we can

834

00:29:46,149 --> 00:29:44,960

apply it to and what i hear you saying

835

00:29:47,510 --> 00:29:46,159

in the book is

836

00:29:48,710 --> 00:29:47,520

yeah well that's where we're at now but

837

00:29:49,590 --> 00:29:48,720

eventually we'll be able to do

838

00:29:51,350 --> 00:29:49,600

everything with it

839

00:29:53,029 --> 00:29:51,360

because it's closer to the source of how

840

00:29:56,310 --> 00:29:53,039

everything really works

841

00:29:59,190 --> 00:29:56,320

yeah absolutely yeah and

842

00:30:00,950 --> 00:29:59,200

imagine i mean my instinct for going and

843

00:30:03,909 --> 00:30:00,960

working on my phd was

844

00:30:05,909 --> 00:30:03,919

what if we could take any algorithm and

845

00:30:08,470 --> 00:30:05,919

parallelize it and speed it up using

846

00:30:11,350 --> 00:30:08,480

quantum computing right and

847

00:30:12,149 --> 00:30:11,360

the question is is that what we're doing

848

00:30:15,830 --> 00:30:12,159

with our mind

849

00:30:17,750 --> 00:30:15,840

anyhow you know and

850

00:30:18,950 --> 00:30:17,760

so we only have a limited sense of what

851

00:30:22,710 --> 00:30:18,960

algorithms actually

852

00:30:25,190 --> 00:30:22,720

speed up but gosh if you're cheating

853

00:30:28,070 --> 00:30:25,200

and you have this infinite dimensional

854

00:30:31,190 --> 00:30:28,080

hyperspace that you have tapped into

855

00:30:33,430 --> 00:30:31,200

then and essentially you it's think of

856

00:30:35,909 --> 00:30:33,440

it as both computing and memory i mean

857

00:30:37,669 --> 00:30:35,919

think of it as a computing a simulator

858

00:30:40,950 --> 00:30:37,679

big enough to run

859

00:30:44,230 --> 00:30:40,960

the entire physical universe in

860

00:30:48,070 --> 00:30:44,240

that's a pretty powerful computing

861

00:30:49,510 --> 00:30:48,080

paradigm and it's really there

862

00:30:51,110 --> 00:30:49,520

because otherwise quantum computing

863

00:30:52,710 --> 00:30:51,120

wouldn't work and quantum computing is

864

00:30:54,389 --> 00:30:52,720

the basis of all our physics

865

00:30:57,029 --> 00:30:54,399

including the big bang and black holes

866

00:31:00,149 --> 00:30:57,039

and everything else so

867

00:31:02,230 --> 00:31:00,159

it's there how do we tap into it is the

868

00:31:04,070 --> 00:31:02,240

big question

869

00:31:05,750 --> 00:31:04,080

so let me see if i understand what

870

00:31:06,950 --> 00:31:05,760

you're saying because i i took this out

871

00:31:08,950 --> 00:31:06,960

of the book but you just

872

00:31:10,149 --> 00:31:08,960

kind of made it click for me in a

873

00:31:13,590 --> 00:31:10,159

different way

874

00:31:14,870 --> 00:31:13,600

and that's that if we understand

875

00:31:17,909 --> 00:31:14,880

everything you're saying

876  
00:31:18,789 --> 00:31:17,919  
about quantum physics and more

877  
00:31:20,470 --> 00:31:18,799  
importantly

878  
00:31:22,070 --> 00:31:20,480  
but i hate new terms you know like

879  
00:31:24,149 --> 00:31:22,080  
source science i think throws everybody

880  
00:31:27,509 --> 00:31:24,159  
what the hell do we need a new term for

881  
00:31:29,110 --> 00:31:27,519  
what we do what's that i didn't want to

882  
00:31:29,750 --> 00:31:29,120  
use spirited science so i tried to come

883  
00:31:32,070 --> 00:31:29,760  
up with a

884  
00:31:33,590 --> 00:31:32,080  
slightly more technical terms yeah and

885  
00:31:34,549 --> 00:31:33,600  
spirited science doesn't really work

886  
00:31:35,750 --> 00:31:34,559  
either because we don't know what the

887  
00:31:37,669 --> 00:31:35,760  
hell spirits are

888  
00:31:38,789 --> 00:31:37,679

you know absolutely i think what you're

889

00:31:41,990 --> 00:31:38,799

what i hear you saying

890

00:31:42,310 --> 00:31:42,000

is why you know the other thing other

891

00:31:43,990 --> 00:31:42,320

than

892

00:31:46,070 --> 00:31:44,000

science as we know it which has been

893

00:31:47,830 --> 00:31:46,080

completely falsified and is dopey and

894

00:31:50,070 --> 00:31:47,840

leads us in the wrong direction

895

00:31:50,950 --> 00:31:50,080

why the other science the real science

896

00:31:52,389 --> 00:31:50,960

behind it

897

00:31:53,990 --> 00:31:52,399

and then but what i heard you just say a

898

00:31:57,029 --> 00:31:54,000

minute ago i want you to speak up

899

00:31:59,350 --> 00:31:57,039

speak to is that

900

00:32:02,149 --> 00:31:59,360

you you hypothesized what if we could

901  
00:32:05,110 --> 00:32:02,159  
improve the efficiency or the processing

902  
00:32:05,909 --> 00:32:05,120  
of the processes slash algorithms that

903  
00:32:07,990 --> 00:32:05,919  
are already

904  
00:32:09,110 --> 00:32:08,000  
operating what i hear you really saying

905  
00:32:11,509 --> 00:32:09,120  
is that

906  
00:32:12,230 --> 00:32:11,519  
your emotions are operating on that

907  
00:32:15,269 --> 00:32:12,240  
heart math

908  
00:32:17,669 --> 00:32:15,279  
is operating on that your intuition is

909  
00:32:19,430 --> 00:32:17,679  
operating on that your law of attraction

910  
00:32:21,590 --> 00:32:19,440  
is operating on all that

911  
00:32:23,269 --> 00:32:21,600  
so you don't realize it and you've been

912  
00:32:24,789 --> 00:32:23,279  
convinced that all that's woo-woo and

913  
00:32:25,029 --> 00:32:24,799

you don't have to pay any attention to

914

00:32:26,549 --> 00:32:25,039

it

915

00:32:28,710 --> 00:32:26,559

but if we know anything about this

916

00:32:30,470 --> 00:32:28,720

source science then we know that there

917

00:32:31,830 --> 00:32:30,480

seems to be some underlying reality to

918

00:32:34,230 --> 00:32:31,840

that and maybe we need to

919

00:32:35,590 --> 00:32:34,240

pay attention to it and understand how

920

00:32:39,029 --> 00:32:35,600

it's processing

921

00:32:40,470 --> 00:32:39,039

reality yeah absolutely a lot of people

922

00:32:41,029 --> 00:32:40,480

are working on law of attraction call it

923

00:32:45,590 --> 00:32:41,039

source

924

00:32:46,230 --> 00:32:45,600

science um to tap it into connected to

925

00:32:49,590 --> 00:32:46,240

the law of

926  
00:32:52,470 --> 00:32:49,600  
law of attraction

927  
00:32:54,310 --> 00:32:52,480  
does what it does independent of whether

928  
00:32:56,070 --> 00:32:54,320  
you believe in it or not

929  
00:32:57,350 --> 00:32:56,080  
it's just like gravity works independent

930  
00:32:58,070 --> 00:32:57,360  
of whether you believe in it or not

931  
00:32:59,909 --> 00:32:58,080  
right

932  
00:33:01,350 --> 00:32:59,919  
and most people don't realize that

933  
00:33:02,630 --> 00:33:01,360  
relativity is also

934  
00:33:04,710 --> 00:33:02,640  
doing its thing independent whether you

935  
00:33:06,630 --> 00:33:04,720  
believe it or not but guess what if you

936  
00:33:07,269 --> 00:33:06,640  
didn't believe in it none of our gps's

937  
00:33:09,909 --> 00:33:07,279  
would work

938  
00:33:11,509 --> 00:33:09,919

all the satellites in up in space have

939

00:33:12,470 --> 00:33:11,519

to synchronize their clocks with respect

940

00:33:14,789 --> 00:33:12,480

to relativity

941

00:33:17,509 --> 00:33:14,799

or none of our gps would work so whether

942

00:33:20,470 --> 00:33:17,519

you believe it or not is immaterial now

943

00:33:21,190 --> 00:33:20,480

if you were to believe in it what could

944

00:33:24,470 --> 00:33:21,200

you do

945

00:33:26,070 --> 00:33:24,480

with it and that's the big insight i'm

946

00:33:29,590 --> 00:33:26,080

trying to get people to say

947

00:33:30,230 --> 00:33:29,600

it's reality let's use it and this isn't

948

00:33:33,750 --> 00:33:30,240

about

949

00:33:35,509 --> 00:33:33,760

accelerating humans

950

00:33:37,190 --> 00:33:35,519

not about accelerating our machines if

951  
00:33:38,950 --> 00:33:37,200  
you want to think about it that way

952  
00:33:41,669 --> 00:33:38,960  
yeah well if we have time we're going to

953  
00:33:44,389 --> 00:33:41,679  
have a good little talk about that

954  
00:33:45,350 --> 00:33:44,399  
i'm going to wind us back to uh dean

955  
00:33:46,870 --> 00:33:45,360  
rayden

956  
00:33:48,630 --> 00:33:46,880  
yeah you have a lot of respect for dean

957  
00:33:51,350 --> 00:33:48,640  
rayden so do i thank you

958  
00:33:53,029 --> 00:33:51,360  
and i want to go back to that experiment

959  
00:33:55,750 --> 00:33:53,039  
because

960  
00:33:56,630 --> 00:33:55,760  
this history of the double slit slash

961  
00:33:58,870 --> 00:33:56,640  
consciousness

962  
00:34:00,549 --> 00:33:58,880  
slash tree falls in the forest

963  
00:34:03,669 --> 00:34:00,559

experiment

964

00:34:04,950 --> 00:34:03,679

was obscured from our understanding for

965

00:34:07,909 --> 00:34:04,960

the longest time

966

00:34:08,470 --> 00:34:07,919

so richard feynman's awesome but richard

967

00:34:11,190 --> 00:34:08,480

feynman

968

00:34:12,550 --> 00:34:11,200

was also the shut up and calculate guy

969

00:34:14,310 --> 00:34:12,560

whether he was that

970

00:34:16,550 --> 00:34:14,320

whether he wanted to be or not it was

971

00:34:18,550 --> 00:34:16,560

like hey screw all your stupid

972

00:34:20,149 --> 00:34:18,560

philosophical mysticism

973

00:34:21,750 --> 00:34:20,159

let's build some stuff because we got to

974

00:34:24,389 --> 00:34:21,760

build this dang up the time i just built

975

00:34:26,629 --> 00:34:24,399

that atomic bomb we were working on and

976  
00:34:27,589 --> 00:34:26,639  
that was great we saved the world that's

977  
00:34:30,550 --> 00:34:27,599  
what you want to believe

978  
00:34:30,950 --> 00:34:30,560  
so yeah really so it's like okay let's

979  
00:34:32,710 --> 00:34:30,960  
you know

980  
00:34:34,550 --> 00:34:32,720  
use this stuff because just like you're

981  
00:34:38,550 --> 00:34:34,560  
talking about now you know but

982  
00:34:41,829 --> 00:34:38,560  
so with yeah with respect for the fact

983  
00:34:43,349 --> 00:34:41,839  
that we don't want to destroy ourselves

984  
00:34:44,710 --> 00:34:43,359  
right but a lot of those people didn't

985  
00:34:45,589 --> 00:34:44,720  
have that respect or have that

986  
00:34:48,310 --> 00:34:45,599  
sensibility

987  
00:34:49,909 --> 00:34:48,320  
or even if they did their bosses didn't

988  
00:34:50,710 --> 00:34:49,919

you know their bosses thought different

989

00:34:52,149 --> 00:34:50,720

about it and

990

00:34:53,990 --> 00:34:52,159

if we go back and look through history

991

00:34:54,869 --> 00:34:54,000

and particularly we look at the missile

992

00:34:57,349 --> 00:34:54,879

crisis

993

00:34:59,030 --> 00:34:57,359

and uh in the 60s there were a bunch of

994

00:35:00,870 --> 00:34:59,040

very serious people that didn't have

995

00:35:03,990 --> 00:35:00,880

that sensibility and we're like yeah

996

00:35:05,430 --> 00:35:04,000

maybe we can survive this we'll kill 30

997

00:35:06,950 --> 00:35:05,440

million of theirs and they'll only kill

998

00:35:07,270 --> 00:35:06,960

10 million of ours and then we can you

999

00:35:09,349 --> 00:35:07,280

know

1000

00:35:10,870 --> 00:35:09,359

those were the those are the

1001  
00:35:11,349 --> 00:35:10,880  
calculations that a lot of people were

1002  
00:35:13,510 --> 00:35:11,359  
doing

1003  
00:35:14,950 --> 00:35:13,520  
back then and maybe still today in

1004  
00:35:17,109 --> 00:35:14,960  
places we don't know about

1005  
00:35:18,150 --> 00:35:17,119  
but back to our buddy dean rayden dean

1006  
00:35:21,670 --> 00:35:18,160  
braden says hey

1007  
00:35:23,510 --> 00:35:21,680  
you guys have lost your way

1008  
00:35:25,670 --> 00:35:23,520  
on this double slit experiment you've

1009  
00:35:28,550 --> 00:35:25,680  
turned it into this hokey oh

1010  
00:35:30,150 --> 00:35:28,560  
it doesn't matter just put it over here

1011  
00:35:32,630 --> 00:35:30,160  
on the side call it the observer

1012  
00:35:34,470 --> 00:35:32,640  
effect just like we say uh you know the

1013  
00:35:35,430 --> 00:35:34,480

placebo effect and we label it and then

1014

00:35:37,430 --> 00:35:35,440

we forget it

1015

00:35:39,190 --> 00:35:37,440

and then dean rayden did an experiment

1016

00:35:41,349 --> 00:35:39,200

that kind of

1017

00:35:42,470 --> 00:35:41,359

just nailed it down once and for all do

1018

00:35:43,670 --> 00:35:42,480

you want to describe

1019

00:35:45,750 --> 00:35:43,680

that experiment because i've heard a

1020

00:35:49,349 --> 00:35:45,760

video where you did

1021

00:35:52,230 --> 00:35:49,359

yeah the the he took the standard

1022

00:35:53,990 --> 00:35:52,240

physics twin slit experiment and then

1023

00:35:55,990 --> 00:35:54,000

but he completely automated it so that

1024

00:35:58,710 --> 00:35:56,000

it could be running by itself

1025

00:35:59,349 --> 00:35:58,720

gathering statistics and he used a um a

1026

00:36:02,390 --> 00:35:59,359

lightning

1027

00:36:04,310 --> 00:36:02,400

light detector in the back okay and he

1028

00:36:06,710 --> 00:36:04,320

and he used it where he used the single

1029

00:36:08,069 --> 00:36:06,720

single um electron case i think is is

1030

00:36:09,510 --> 00:36:08,079

where only one electron was going

1031

00:36:11,670 --> 00:36:09,520

through so it wasn't

1032

00:36:13,990 --> 00:36:11,680

any kind of group for dynamics it was

1033

00:36:17,670 --> 00:36:14,000

one electron going through both slits

1034

00:36:20,870 --> 00:36:17,680

right and then he collected the data

1035

00:36:23,430 --> 00:36:20,880

without anybody paying attention to it

1036

00:36:24,950 --> 00:36:23,440

and then he paid it as collected more

1037

00:36:25,670 --> 00:36:24,960

data during the experiment when people

1038

00:36:27,589 --> 00:36:25,680

were saying

1039

00:36:29,030 --> 00:36:27,599

put your attention on this and try to

1040

00:36:30,870 --> 00:36:29,040

affect the result

1041

00:36:33,109 --> 00:36:30,880

and it showed that consciousness and

1042

00:36:34,710 --> 00:36:33,119

intention can directly

1043

00:36:37,190 --> 00:36:34,720

impact quantum mechanics even though

1044

00:36:40,710 --> 00:36:37,200

it's shield from the entire world

1045

00:36:43,109 --> 00:36:40,720

and that is nobel prize level

1046

00:36:44,390 --> 00:36:43,119

work okay people have gotten nobel

1047

00:36:47,430 --> 00:36:44,400

prizes for a lot less

1048

00:36:50,710 --> 00:36:47,440

okay right and

1049

00:36:52,150 --> 00:36:50,720

so the point is he every

1050

00:36:53,990 --> 00:36:52,160

everybody in science should have been

1051  
00:36:56,390 --> 00:36:54,000  
saying wow

1052  
00:36:58,550 --> 00:36:56,400  
this changes everything and it was kind

1053  
00:37:00,310 --> 00:36:58,560  
of ignored you know and so

1054  
00:37:01,750 --> 00:37:00,320  
my hat's off to dean for thinking of the

1055  
00:37:03,430 --> 00:37:01,760  
experiment and then

1056  
00:37:05,109 --> 00:37:03,440  
getting the funding and getting the work

1057  
00:37:06,550 --> 00:37:05,119  
to get it done and then putting it

1058  
00:37:07,510 --> 00:37:06,560  
online so people could interact with it

1059  
00:37:10,310 --> 00:37:07,520  
remotely

1060  
00:37:12,069 --> 00:37:10,320  
so he he did all that over many years

1061  
00:37:14,470 --> 00:37:12,079  
and published the results

1062  
00:37:15,510 --> 00:37:14,480  
so he deserves all the credit doing all

1063  
00:37:17,589 --> 00:37:15,520

of that

1064

00:37:19,270 --> 00:37:17,599

and now that we have that as a model i

1065

00:37:21,190 --> 00:37:19,280

got two more experiments that we can do

1066

00:37:22,230 --> 00:37:21,200

that are similar to that that shows

1067

00:37:23,829 --> 00:37:22,240

fundamentally that

1068

00:37:25,270 --> 00:37:23,839

consciousness and quantum mechanics are

1069

00:37:27,589 --> 00:37:25,280

fundamentally

1070

00:37:29,750 --> 00:37:27,599

tied together here's the here you want

1071

00:37:33,109 --> 00:37:29,760

to hear what one of those are

1072

00:37:34,870 --> 00:37:33,119

okay take the entangled experiment

1073

00:37:36,390 --> 00:37:34,880

entanglement experiment that would you

1074

00:37:37,510 --> 00:37:36,400

would test to see if the two things were

1075

00:37:40,550 --> 00:37:37,520

entanglement

1076

00:37:41,109 --> 00:37:40,560

any time you have statistics that are

1077

00:37:42,950 --> 00:37:41,119

not

1078

00:37:44,230 --> 00:37:42,960

that are abnormal it means some kind of

1079

00:37:46,390 --> 00:37:44,240

physics is going on right

1080

00:37:47,910 --> 00:37:46,400

an entanglement shows that if you some

1081

00:37:50,950 --> 00:37:47,920

have something that's entangled

1082

00:37:52,390 --> 00:37:50,960

it's correlated on the other sides so

1083

00:37:55,109 --> 00:37:52,400

they're either both the same or both

1084

00:37:57,910 --> 00:37:55,119

opposite depending on how it's prepared

1085

00:37:59,829 --> 00:37:57,920

they're they're correlated and you can't

1086

00:38:00,630 --> 00:37:59,839

determine that unless you compare notes

1087

00:38:03,109 --> 00:38:00,640

right

1088

00:38:04,069 --> 00:38:03,119

but there's two sides there's either

1089

00:38:07,670 --> 00:38:04,079

they're

1090

00:38:09,270 --> 00:38:07,680

both the same or both opposite or it's

1091

00:38:11,190 --> 00:38:09,280

destroyed so it's random and they're not

1092

00:38:12,150 --> 00:38:11,200

correlated at all right well you could

1093

00:38:13,910 --> 00:38:12,160

use

1094

00:38:16,310 --> 00:38:13,920

an intention experiment to affect

1095

00:38:17,510 --> 00:38:16,320

entanglement now what's different about

1096

00:38:19,670 --> 00:38:17,520

that

1097

00:38:20,550 --> 00:38:19,680

is the only way you let's say you could

1098

00:38:23,829 --> 00:38:20,560

flip it

1099

00:38:25,109 --> 00:38:23,839

from being aligned to be opposite a line

1100

00:38:26,069 --> 00:38:25,119

let's say you could do that with your

1101

00:38:28,950 --> 00:38:26,079

mind

1102

00:38:30,950 --> 00:38:28,960

the only way to do that without

1103

00:38:32,550 --> 00:38:30,960

destroying the entanglement state and

1104

00:38:34,630 --> 00:38:32,560

still have it be correlated

1105

00:38:36,790 --> 00:38:34,640

is that if your mind could touch both

1106

00:38:37,910 --> 00:38:36,800

ends of the entangled state at the same

1107

00:38:40,150 --> 00:38:37,920

time

1108

00:38:41,109 --> 00:38:40,160

and that you can't fake no matter how

1109

00:38:42,710 --> 00:38:41,119

you try it

1110

00:38:44,870 --> 00:38:42,720

so that's my other experiment that i'd

1111

00:38:48,230 --> 00:38:44,880

like to go get done

1112

00:38:50,950 --> 00:38:48,240

um so that's another example of

1113

00:38:52,790 --> 00:38:50,960

his insight allowed us to think about

1114

00:38:54,150 --> 00:38:52,800

even more fantastic experiments like

1115

00:38:56,550 --> 00:38:54,160

that

1116

00:38:58,829 --> 00:38:56,560

you mentioned in the book there's like a

1117

00:39:03,109 --> 00:38:58,839

lot of these little kind of almost

1118

00:39:05,750 --> 00:39:03,119

throwaway lines that could be

1119

00:39:06,950 --> 00:39:05,760

yeah like a nobel prize-winning research

1120

00:39:09,349 --> 00:39:06,960

kind of thing

1121

00:39:11,109 --> 00:39:09,359

one of the things about that experiment

1122

00:39:13,349 --> 00:39:11,119

is

1123

00:39:14,870 --> 00:39:13,359

what does that experiment say about time

1124

00:39:18,950 --> 00:39:14,880

travel

1125

00:39:22,550 --> 00:39:18,960

and what does that experiment say about

1126

00:39:25,109 --> 00:39:22,560

where we where our consciousness

1127

00:39:25,670 --> 00:39:25,119

exists because there's some really

1128

00:39:28,630 --> 00:39:25,680

really deep

1129

00:39:29,190 --> 00:39:28,640

implications to what what is what does

1130

00:39:31,990 --> 00:39:29,200

space

1131

00:39:33,270 --> 00:39:32,000

even mean now what is time even

1132

00:39:36,150 --> 00:39:33,280

obviously what does time

1133

00:39:38,710 --> 00:39:36,160

even mean and then you would be showing

1134

00:39:44,950 --> 00:39:38,720

that on this kind of physical 3d level

1135

00:39:50,069 --> 00:39:48,630

yeah the point is as soon as you start

1136

00:39:52,150 --> 00:39:50,079

getting comfortable with the universe is

1137

00:39:54,829 --> 00:39:52,160

really hyper dimensional

1138

00:39:57,589 --> 00:39:54,839

you you do exactly what you just did

1139

00:39:59,589 --> 00:39:57,599

question everything okay

1140

00:40:00,710 --> 00:39:59,599

and most physicists never go there you

1141

00:40:03,349 --> 00:40:00,720

know they just

1142

00:40:03,750 --> 00:40:03,359

they they don't even want to think about

1143

00:40:06,150 --> 00:40:03,760

it

1144

00:40:07,349 --> 00:40:06,160

and and even the mathematicians hardly

1145

00:40:09,829 --> 00:40:07,359

think about it

1146

00:40:10,790 --> 00:40:09,839

but think about this if your

1147

00:40:13,910 --> 00:40:10,800

consciousness

1148

00:40:16,870 --> 00:40:13,920

is not in the brain where is it

1149

00:40:17,510 --> 00:40:16,880

and what is it made of and my belief is

1150

00:40:20,550 --> 00:40:17,520

that it's

1151  
00:40:21,750 --> 00:40:20,560  
bits at the this proto-dimensional bits

1152  
00:40:23,589 --> 00:40:21,760  
at the quantum level that

1153  
00:40:25,349 --> 00:40:23,599  
still make up quantum mechanics that's

1154  
00:40:29,829 --> 00:40:25,359  
what thoughts are made of

1155  
00:40:32,230 --> 00:40:29,839  
and those thoughts are nowhere

1156  
00:40:34,150 --> 00:40:32,240  
and know when and everywhere and

1157  
00:40:35,510 --> 00:40:34,160  
everyone in other words they're outside

1158  
00:40:38,230 --> 00:40:35,520  
space and time

1159  
00:40:39,829 --> 00:40:38,240  
they have to be even quantum mechanics

1160  
00:40:42,230 --> 00:40:39,839  
has to be outside of space and time

1161  
00:40:44,150 --> 00:40:42,240  
otherwise entanglement wouldn't work

1162  
00:40:46,390 --> 00:40:44,160  
right you can't have non-locality if

1163  
00:40:48,309 --> 00:40:46,400

you're in space

1164

00:40:50,630 --> 00:40:48,319

so that that you're you're chuckling

1165

00:40:52,870 --> 00:40:50,640

there but it's a super profound point

1166

00:40:54,870 --> 00:40:52,880

explain back to your experiment that

1167

00:40:57,349 --> 00:40:54,880

you're going to run there doug

1168

00:40:59,510 --> 00:40:57,359

let's hope yeah let's do that where

1169

00:41:02,790 --> 00:40:59,520

where are those two

1170

00:41:04,550 --> 00:41:02,800

entangled bits where where are they

1171

00:41:06,550 --> 00:41:04,560

where could they be potentially

1172

00:41:07,829 --> 00:41:06,560

could they be really close together

1173

00:41:10,390 --> 00:41:07,839

could they be really

1174

00:41:11,349 --> 00:41:10,400

far apart does it even make sense to

1175

00:41:13,670 --> 00:41:11,359

talk about them

1176

00:41:15,589 --> 00:41:13,680

as being close together or far apart

1177

00:41:16,230 --> 00:41:15,599

when they have this entangled property

1178

00:41:19,510 --> 00:41:16,240

two of them

1179

00:41:20,630 --> 00:41:19,520

yeah yeah well you're familiar with flat

1180

00:41:22,470 --> 00:41:20,640

world right

1181

00:41:23,910 --> 00:41:22,480

this notion that you only have two

1182

00:41:25,589 --> 00:41:23,920

dimensions and that third dimension

1183

00:41:27,270 --> 00:41:25,599

doesn't make any sense well we're stuck

1184

00:41:28,870 --> 00:41:27,280

in a three-dimensional world and

1185

00:41:30,550 --> 00:41:28,880

we have a hard time understanding what

1186

00:41:32,710 --> 00:41:30,560

for a four-dimensional thing is

1187

00:41:34,550 --> 00:41:32,720

but in a four-dimensional object like

1188

00:41:36,550 --> 00:41:34,560

like any like an entangled bit is a four

1189

00:41:39,670 --> 00:41:36,560

dimensional object

1190

00:41:39,910 --> 00:41:39,680

that extra dimension is local to it so

1191

00:41:46,950 --> 00:41:39,920

it

1192

00:41:49,270 --> 00:41:46,960

a four dimensional hypercube but

1193

00:41:50,710 --> 00:41:49,280

there's some videos out there about if

1194

00:41:51,349 --> 00:41:50,720

you take a four dimensional hypercube it

1195

00:41:53,190 --> 00:41:51,359

looks like

1196

00:41:55,190 --> 00:41:53,200

a cube nested within a cube and then you

1197

00:41:56,390 --> 00:41:55,200

start rotating it and it like turns in

1198

00:41:58,710 --> 00:41:56,400

on itself you know

1199

00:41:59,910 --> 00:41:58,720

we have a hard time imagining that well

1200

00:42:01,030 --> 00:41:59,920

what if you thought that the

1201

00:42:02,710 --> 00:42:01,040

consciousness was

1202

00:42:04,710 --> 00:42:02,720

a million dimensions then how do you

1203

00:42:07,109 --> 00:42:04,720

think about it so one i guess one of my

1204

00:42:10,150 --> 00:42:07,119

strengths is i can envision

1205

00:42:12,390 --> 00:42:10,160

hyper dimensional spaces really well

1206

00:42:13,670 --> 00:42:12,400

and that's how i'm able to do this

1207

00:42:16,950 --> 00:42:13,680

without getting lost

1208

00:42:18,069 --> 00:42:16,960

now how can i ex use words to explain

1209

00:42:20,470 --> 00:42:18,079

somebody who's caught in three

1210

00:42:21,910 --> 00:42:20,480

dimensions how to do that

1211

00:42:23,190 --> 00:42:21,920

it's hard to do that you could have to

1212

00:42:24,309 --> 00:42:23,200

kind of do it with insight and

1213

00:42:25,990 --> 00:42:24,319

mathematics

1214

00:42:27,750 --> 00:42:26,000

and so some of the neural computing

1215

00:42:28,790 --> 00:42:27,760

stuff i talk about the correlational

1216

00:42:31,030 --> 00:42:28,800

algorithm stuff

1217

00:42:32,870 --> 00:42:31,040

that i talk about in there allows you to

1218

00:42:34,550 --> 00:42:32,880

start using mathematics to look not only

1219

00:42:35,430 --> 00:42:34,560

at quantum computing higher dimensional

1220

00:42:36,950 --> 00:42:35,440

spaces but

1221

00:42:39,349 --> 00:42:36,960

near how it's related to neural

1222

00:42:41,109 --> 00:42:39,359

computing those

1223

00:42:42,950 --> 00:42:41,119

gets you to start thinking about hyper

1224

00:42:49,510 --> 00:42:42,960

dimensional spaces

1225

00:42:52,550 --> 00:42:49,520

exist in space and time so

1226

00:42:54,710 --> 00:42:52,560

what is the paradigm then it's

1227

00:42:56,069 --> 00:42:54,720

just like entangled bits it's what's

1228

00:42:59,270 --> 00:42:56,079

called space

1229

00:43:01,589 --> 00:42:59,280

like convention which is a physics term

1230

00:43:03,990 --> 00:43:01,599

and it basically says these two points

1231

00:43:06,470 --> 00:43:04,000

in our space time

1232

00:43:07,510 --> 00:43:06,480

are not be able to be connected by

1233

00:43:11,109 --> 00:43:07,520

something that's

1234

00:43:13,430 --> 00:43:11,119

running at the speed of light and that's

1235

00:43:15,030 --> 00:43:13,440

space light versus timeline versus light

1236

00:43:16,790 --> 00:43:15,040

like and once you realize

1237

00:43:18,309 --> 00:43:16,800

consciousness is space-like then it's

1238

00:43:18,710 --> 00:43:18,319

like well of course it can't fit in the

1239

00:43:21,510 --> 00:43:18,720

brain

1240

00:43:23,270 --> 00:43:21,520

it's space-like and then where is it

1241

00:43:26,150 --> 00:43:23,280

it's everywhere and nowhere

1242

00:43:26,630 --> 00:43:26,160

so i want to go down this path of the

1243

00:43:29,910 --> 00:43:26,640

law

1244

00:43:32,150 --> 00:43:29,920

of attraction thing and yeah

1245

00:43:33,430 --> 00:43:32,160

yeah i think it's it it brings up so

1246

00:43:35,190 --> 00:43:33,440

many of the

1247

00:43:36,870 --> 00:43:35,200

kind of cool stuff that you're talking

1248

00:43:38,829 --> 00:43:36,880

about in the bridge to metaphysics it

1249

00:43:42,069 --> 00:43:38,839

also brings up some of the really

1250

00:43:45,030 --> 00:43:42,079

uh troublesome parts you know i mean

1251

00:43:46,950 --> 00:43:45,040

jay-z knight she's created this cult and

1252

00:43:47,910 --> 00:43:46,960

is channeling rampa maybe she is maybe

1253

00:43:49,750 --> 00:43:47,920

she isn't

1254

00:43:51,190 --> 00:43:49,760

but she's also smoking cigarettes off

1255

00:43:52,870 --> 00:43:51,200

the side of the stage and talking about

1256

00:43:55,349 --> 00:43:52,880

scamming people by

1257

00:43:56,950 --> 00:43:55,359

buying horses for 350 and selling them

1258

00:43:59,030 --> 00:43:56,960

for 150 000

1259

00:44:00,870 --> 00:43:59,040

and so there's all this stuff and that's

1260

00:44:02,390 --> 00:44:00,880

all been revealed by

1261

00:44:04,470 --> 00:44:02,400

insiders and i haven't talked to

1262

00:44:07,109 --> 00:44:04,480

recently uh uh

1263

00:44:08,790 --> 00:44:07,119

a member of that cult people don't like

1264

00:44:09,829 --> 00:44:08,800

the term cult i don't know

1265

00:44:11,510 --> 00:44:09,839

i don't know what you want to call it

1266

00:44:12,950 --> 00:44:11,520

whatever but that's you know they were

1267

00:44:15,109 --> 00:44:12,960

the people behind the

1268

00:44:16,470 --> 00:44:15,119

secret movie that popularized the law of

1269

00:44:17,990 --> 00:44:16,480

attraction way back when that doesn't

1270

00:44:18,470 --> 00:44:18,000

mean that that's the only way to look at

1271

00:44:23,030 --> 00:44:18,480

it

1272

00:44:26,069 --> 00:44:23,040

but i digress like i like to because

1273

00:44:27,430 --> 00:44:26,079

in the book deep reality that everybody

1274

00:44:29,270 --> 00:44:27,440

has to read because

1275

00:44:31,109 --> 00:44:29,280

if you're at amazon unlimited you get it

1276

00:44:33,829 --> 00:44:31,119

you can read it for free

1277

00:44:34,710 --> 00:44:33,839

but go ahead and buy the paperback so

1278

00:44:38,470 --> 00:44:34,720

doug and

1279

00:44:40,390 --> 00:44:38,480

dr at least get a couple of bucks from

1280

00:44:41,510 --> 00:44:40,400

this do you offer signed copies of it or

1281

00:44:44,309 --> 00:44:41,520

anything like that

1282

00:44:45,910 --> 00:44:44,319

well with the with the uh i mean i have

1283

00:44:48,230 --> 00:44:45,920

author copies okay

1284

00:44:49,349 --> 00:44:48,240

um i just don't have a way of mailing

1285

00:44:52,230 --> 00:44:49,359

them easily

1286

00:44:53,270 --> 00:44:52,240

go to the post office so i i know you

1287

00:44:54,870 --> 00:44:53,280

know

1288

00:44:56,150 --> 00:44:54,880

so at some point i'm going to do that

1289

00:44:56,870 --> 00:44:56,160

but let's say it might be a year from

1290

00:44:59,109 --> 00:44:56,880

now

1291

00:45:00,390 --> 00:44:59,119

okay people have asked me and i'm like

1292

00:45:03,430 --> 00:45:00,400

woof god i

1293

00:45:05,109 --> 00:45:03,440

so appreciate you asking but what a pain

1294

00:45:08,309 --> 00:45:05,119

in the ass

1295

00:45:11,109 --> 00:45:08,319

but anyways it yeah so back to

1296

00:45:12,470 --> 00:45:11,119

uh you know deep reality and the law of

1297

00:45:15,589 --> 00:45:12,480

attraction thing

1298

00:45:17,030 --> 00:45:15,599

yeah one of the things that again is a

1299

00:45:18,790 --> 00:45:17,040

little bit uncomfortable to talk about

1300

00:45:22,790 --> 00:45:18,800

but i love the way you approach it

1301  
00:45:24,150 --> 00:45:22,800  
is what about people who are really

1302  
00:45:26,150 --> 00:45:24,160  
really smart

1303  
00:45:27,589 --> 00:45:26,160  
what do we do with that like you're

1304  
00:45:29,270 --> 00:45:27,599  
really really smart

1305  
00:45:30,870 --> 00:45:29,280  
and like you just said you have this

1306  
00:45:33,510 --> 00:45:30,880  
ability to

1307  
00:45:35,589 --> 00:45:33,520  
you know be comfortable with

1308  
00:45:37,349 --> 00:45:35,599  
hyper-dimensional realities

1309  
00:45:38,950 --> 00:45:37,359  
and be able to process that information

1310  
00:45:40,790 --> 00:45:38,960  
in your head and then you're an

1311  
00:45:42,470 --> 00:45:40,800  
effective communicator enough to

1312  
00:45:43,670 --> 00:45:42,480  
tell that to other people and i don't

1313  
00:45:45,430 --> 00:45:43,680

want to put other people down because

1314

00:45:47,190 --> 00:45:45,440

there's people who have you know

1315

00:45:49,430 --> 00:45:47,200

quote unquote disabilities and they turn

1316

00:45:50,870 --> 00:45:49,440

out to be super gifted and super off the

1317

00:45:52,790 --> 00:45:50,880

charts we all get that

1318

00:45:55,270 --> 00:45:52,800

but on another level that we don't often

1319

00:45:57,750 --> 00:45:55,280

talk about there's just people that

1320

00:45:59,430 --> 00:45:57,760

are are smarter and then when you talk

1321

00:46:00,069 --> 00:45:59,440

about it in the book from a metaphysical

1322

00:46:02,630 --> 00:46:00,079

standpoint

1323

00:46:03,109 --> 00:46:02,640

and an extended consciousness as i like

1324

00:46:05,030 --> 00:46:03,119

to

1325

00:46:06,470 --> 00:46:05,040

call it standpoint it gets really

1326

00:46:08,870 --> 00:46:06,480

interesting because there's all

1327

00:46:10,630 --> 00:46:08,880

sorts of people that have uh

1328

00:46:14,150 --> 00:46:10,640

transcendental experiences

1329

00:46:14,790 --> 00:46:14,160

where they enter in this space where

1330

00:46:16,630 --> 00:46:14,800

they are

1331

00:46:18,790 --> 00:46:16,640

really smart right so people have a

1332

00:46:22,150 --> 00:46:18,800

near-death experience and they say

1333

00:46:25,510 --> 00:46:22,160

stuff like before i could even

1334

00:46:29,190 --> 00:46:25,520

formulate the question the answer

1335

00:46:32,390 --> 00:46:29,200

was in my head they say stuff like i

1336

00:46:33,190 --> 00:46:32,400

knew everything i don't know how else to

1337

00:46:35,990 --> 00:46:33,200

put it but

1338

00:46:37,349 --> 00:46:36,000

everything i could possibly think of i

1339

00:46:38,790 --> 00:46:37,359

knew the answer to

1340

00:46:41,190 --> 00:46:38,800

and then they say something interesting

1341

00:46:41,990 --> 00:46:41,200

as it relates to both your book and your

1342

00:46:45,670 --> 00:46:42,000

understanding this

1343

00:46:48,550 --> 00:46:45,680

reality is that when i came back in

1344

00:46:51,030 --> 00:46:48,560

and i jammed it back inside my body

1345

00:46:53,109 --> 00:46:51,040

inside that antenna of my brain

1346

00:46:55,430 --> 00:46:53,119

and it wasn't like that i can't tell you

1347

00:46:59,270 --> 00:46:55,440

now everything that i knew

1348

00:47:02,230 --> 00:46:59,280

so what do you think about

1349

00:47:03,270 --> 00:47:02,240

that and then then we'll go from there

1350

00:47:06,069 --> 00:47:03,280

because i also want to talk about

1351  
00:47:08,069 --> 00:47:06,079  
augmented reality and artificial reality

1352  
00:47:09,030 --> 00:47:08,079  
and artificial intelligence as it

1353  
00:47:12,309 --> 00:47:09,040  
relates to that

1354  
00:47:13,750 --> 00:47:12,319  
but start with just don't we have to

1355  
00:47:15,030 --> 00:47:13,760  
come to grips with

1356  
00:47:16,470 --> 00:47:15,040  
there are going to be some people who

1357  
00:47:17,990 --> 00:47:16,480  
are going to be smart enough to

1358  
00:47:19,270 --> 00:47:18,000  
understand some of this stuff and

1359  
00:47:23,430 --> 00:47:19,280  
there's going to be some people who

1360  
00:47:26,309 --> 00:47:23,440  
aren't yeah well

1361  
00:47:27,430 --> 00:47:26,319  
i believe ultimately everybody whether

1362  
00:47:30,150 --> 00:47:27,440  
they're

1363  
00:47:30,950 --> 00:47:30,160

aware of it or not are constructed this

1364

00:47:34,309 --> 00:47:30,960

way

1365

00:47:35,910 --> 00:47:34,319

in other words we're not some of us

1366

00:47:38,470 --> 00:47:35,920

have a mind outside of our brain and

1367

00:47:40,069 --> 00:47:38,480

others don't you know in other words

1368

00:47:40,790 --> 00:47:40,079

that some of us our brain is our mind

1369

00:47:42,470 --> 00:47:40,800

and others

1370

00:47:43,510 --> 00:47:42,480

the mind is separate from the brain i

1371

00:47:44,950 --> 00:47:43,520

don't think that's the case i think

1372

00:47:47,030 --> 00:47:44,960

we're all the same and that's probably

1373

00:47:50,790 --> 00:47:47,040

true for animals as well

1374

00:47:53,829 --> 00:47:50,800

so the reason i say that is because

1375

00:47:54,870 --> 00:47:53,839

everybody is sort of like focused in on

1376

00:47:56,710 --> 00:47:54,880

space

1377

00:47:59,109 --> 00:47:56,720

on their brain but as soon as you can

1378

00:48:01,910 --> 00:47:59,119

release that a little bit then you can

1379

00:48:03,030 --> 00:48:01,920

realize that there is you can tap into

1380

00:48:06,790 --> 00:48:03,040

those higher dimensions

1381

00:48:09,109 --> 00:48:06,800

and so everybody can have

1382

00:48:10,950 --> 00:48:09,119

this divine experience if you want to

1383

00:48:12,950 --> 00:48:10,960

call it you know tasting the divine as i

1384

00:48:14,870 --> 00:48:12,960

call it i've done it several times

1385

00:48:16,549 --> 00:48:14,880

in my life one at the monroe institute

1386

00:48:20,150 --> 00:48:16,559

and other times as well

1387

00:48:22,710 --> 00:48:20,160

and where you go oh i'm

1388

00:48:24,230 --> 00:48:22,720

test tasting the divine i i get what

1389

00:48:26,470 --> 00:48:24,240

they're talking about i

1390

00:48:28,630 --> 00:48:26,480

commune literally talked and they talked

1391

00:48:31,910 --> 00:48:28,640

back with four-leaf clovers

1392

00:48:33,270 --> 00:48:31,920

and you could think my spirit guys were

1393

00:48:36,549 --> 00:48:33,280

giving me physics lessons

1394

00:48:38,630 --> 00:48:36,559

i mean it's like huh this

1395

00:48:40,390 --> 00:48:38,640

isn't made up because i didn't invent

1396

00:48:40,710 --> 00:48:40,400

that stuff it's coming from the outside

1397

00:48:42,790 --> 00:48:40,720

and

1398

00:48:44,069 --> 00:48:42,800

so as long as you can realize that you

1399

00:48:46,230 --> 00:48:44,079

can distinguish between

1400

00:48:47,510 --> 00:48:46,240

your inside thoughts and thoughts that

1401

00:48:50,069 --> 00:48:47,520

are coming from

1402

00:48:51,589 --> 00:48:50,079

somewhere and you can discriminate

1403

00:48:54,470 --> 00:48:51,599

between that then you can say ah

1404

00:48:56,470 --> 00:48:54,480

insight is coming from my higher self

1405

00:48:58,230 --> 00:48:56,480

however you want to label it or

1406

00:48:59,589 --> 00:48:58,240

my spirit guides or whatever you want to

1407

00:49:04,069 --> 00:48:59,599

call it right

1408

00:49:08,390 --> 00:49:04,079

and so law of attraction is all about

1409

00:49:10,630 --> 00:49:08,400

things with similar meaning somehow

1410

00:49:12,150 --> 00:49:10,640

have to be near each other that you can

1411

00:49:13,750 --> 00:49:12,160

attract them right that's what law of

1412

00:49:17,109 --> 00:49:13,760

attraction is all about

1413

00:49:19,430 --> 00:49:17,119

but physics gives you no mechanism

1414

00:49:20,470 --> 00:49:19,440

for meaning it's not electromagnetic

1415

00:49:23,270 --> 00:49:20,480

it's not gravity

1416

00:49:24,470 --> 00:49:23,280

it's not quark there is no there's not

1417

00:49:25,990 --> 00:49:24,480

magnetic

1418

00:49:27,990 --> 00:49:26,000

there is no mechanism for law of

1419

00:49:30,309 --> 00:49:28,000

attraction so you have to have a

1420

00:49:32,630 --> 00:49:30,319

hyperdimensional model and that's

1421

00:49:35,430 --> 00:49:32,640

sort of how it bridges the quantum to

1422

00:49:40,790 --> 00:49:35,440

the to the neural model that i have

1423

00:49:46,309 --> 00:49:43,670

rely on hyper-dimensional spaces and the

1424

00:49:50,069 --> 00:49:46,319

properties of hyper-dimensional spaces

1425

00:49:51,750 --> 00:49:50,079

so in your mind law of attraction you

1426

00:49:53,270 --> 00:49:51,760

it's just like an ebit ebit is four

1427

00:49:54,230 --> 00:49:53,280

dimensions well your mind is a million

1428

00:49:57,670 --> 00:49:54,240

dimensions

1429

00:49:59,270 --> 00:49:57,680

and you can attract like-minded things

1430

00:50:00,470 --> 00:49:59,280

in that hyper-dimensional space as like

1431

00:50:00,870 --> 00:50:00,480

you're a little spaceship traveling

1432

00:50:02,470 --> 00:50:00,880

around

1433

00:50:04,230 --> 00:50:02,480

picking up things and collecting things

1434

00:50:06,630 --> 00:50:04,240

and bringing things near you

1435

00:50:07,589 --> 00:50:06,640

and so they show up whether you believe

1436

00:50:09,589 --> 00:50:07,599

in it or not

1437

00:50:11,270 --> 00:50:09,599

just because that's how our mind works

1438

00:50:11,829 --> 00:50:11,280

that's how our memory works our memory

1439

00:50:15,430 --> 00:50:11,839

is

1440

00:50:16,630 --> 00:50:15,440

hyper-dimensional space you don't need a

1441

00:50:19,109 --> 00:50:16,640

memory in your brain

1442

00:50:20,790 --> 00:50:19,119

it's it's already stored in a way that

1443

00:50:22,549 --> 00:50:20,800

can never be destroyed and that's what

1444

00:50:24,230 --> 00:50:22,559

you have when you have a life review

1445

00:50:25,990 --> 00:50:24,240

all of a sudden you're not in time

1446

00:50:27,990 --> 00:50:26,000

anymore and you're all of a sudden

1447

00:50:29,750 --> 00:50:28,000

open to all thoughts that you've ever

1448

00:50:31,589 --> 00:50:29,760

had

1449

00:50:33,430 --> 00:50:31,599

and you see that as a life review so

1450

00:50:35,670 --> 00:50:33,440

again we're touching on several things

1451  
00:50:37,670 --> 00:50:35,680  
hyper dimensional space and how

1452  
00:50:39,190 --> 00:50:37,680  
that can support these divine

1453  
00:50:41,750 --> 00:50:39,200  
experiences and this expanded

1454  
00:50:43,510 --> 00:50:41,760  
consciousness and expanded awareness

1455  
00:50:44,790 --> 00:50:43,520  
there's no space and time that's how

1456  
00:50:48,150 --> 00:50:44,800  
it's possible

1457  
00:50:49,190 --> 00:50:48,160  
did that help at all yeah you know i

1458  
00:50:51,829 --> 00:50:49,200  
just wrote a book

1459  
00:50:53,670 --> 00:50:51,839  
why evil matters how science and

1460  
00:50:56,230 --> 00:50:53,680  
religion fumble the big one

1461  
00:50:58,950 --> 00:50:56,240  
and the premise of the book is that when

1462  
00:51:02,549 --> 00:50:58,960  
we begin to start talking about

1463  
00:51:05,589 --> 00:51:02,559

these extended realities

1464

00:51:08,950 --> 00:51:05,599

and and we have to to that maybe

1465

00:51:10,870 --> 00:51:08,960

evil is a lens for understanding that

1466

00:51:12,069 --> 00:51:10,880

and that drives us to the moral

1467

00:51:14,630 --> 00:51:12,079

imperative question

1468

00:51:15,510 --> 00:51:14,640

you know is there right and wrong is

1469

00:51:18,390 --> 00:51:15,520

there good

1470

00:51:19,109 --> 00:51:18,400

is there god how these are things that

1471

00:51:22,710 --> 00:51:19,119

you are not

1472

00:51:25,829 --> 00:51:22,720

uncomfortable talking about in the book

1473

00:51:27,589 --> 00:51:25,839

but i do kind of feel like

1474

00:51:29,030 --> 00:51:27,599

you're not kind of squaring up

1475

00:51:31,589 --> 00:51:29,040

completely with

1476  
00:51:32,710 --> 00:51:31,599  
uh with what's going on because first of

1477  
00:51:36,309 --> 00:51:32,720  
all you you're

1478  
00:51:39,510 --> 00:51:36,319  
what you just said about science is are

1479  
00:51:41,430 --> 00:51:39,520  
i no longer believe that uh scientific

1480  
00:51:44,230 --> 00:51:41,440  
materialism scientism

1481  
00:51:44,790 --> 00:51:44,240  
is accidental and i think this is a

1482  
00:51:46,870 --> 00:51:44,800  
major

1483  
00:51:48,390 --> 00:51:46,880  
failing of of the frontier science

1484  
00:51:50,630 --> 00:51:48,400  
community is that they're

1485  
00:51:52,870 --> 00:51:50,640  
totally they've been brainwashed against

1486  
00:51:54,790 --> 00:51:52,880  
any kind of conspiratorial thinking

1487  
00:51:56,309 --> 00:51:54,800  
even though conspiracies are all around

1488  
00:51:58,150 --> 00:51:56,319

us from the you know we go back and look

1489

00:52:00,230 --> 00:51:58,160

at histories and go oh gee the romans it

1490

00:52:01,910 --> 00:52:00,240

was just one conspiracy after another

1491

00:52:03,510 --> 00:52:01,920

that's how they ran the whole thing oh

1492

00:52:05,190 --> 00:52:03,520

we look at any point in history go oh my

1493

00:52:06,230 --> 00:52:05,200

god it's one conspiracy after no that's

1494

00:52:08,390 --> 00:52:06,240

how they ran the whole thing

1495

00:52:09,349 --> 00:52:08,400

then we look at our time and go whoa

1496

00:52:13,910 --> 00:52:09,359

glad we're not

1497

00:52:16,710 --> 00:52:13,920

you yeah well the the idea that

1498

00:52:18,069 --> 00:52:16,720

the science as we know it has pushed

1499

00:52:20,870 --> 00:52:18,079

this kind of absurd

1500

00:52:21,990 --> 00:52:20,880

notion that wouldn't fit in any other uh

1501  
00:52:23,510 --> 00:52:22,000  
time in history

1502  
00:52:25,270 --> 00:52:23,520  
that we're biological robots and

1503  
00:52:27,829 --> 00:52:25,280  
meaningless universe that consciousness

1504  
00:52:29,030 --> 00:52:27,839  
is an illusion it's it's a complete it's

1505  
00:52:30,710 --> 00:52:29,040  
a complete game

1506  
00:52:32,390 --> 00:52:30,720  
but what is the purpose of it the

1507  
00:52:35,030 --> 00:52:32,400  
purpose of it to me seems

1508  
00:52:36,069 --> 00:52:35,040  
kind of clear it's a psyop it's a social

1509  
00:52:38,470 --> 00:52:36,079  
engineering project

1510  
00:52:40,230 --> 00:52:38,480  
and if i want to control people i sure

1511  
00:52:43,349 --> 00:52:40,240  
as hell won't i don't want them thinking

1512  
00:52:44,230 --> 00:52:43,359  
they are uh limitless expansive divine

1513  
00:52:45,750 --> 00:52:44,240

beings

1514

00:52:47,990 --> 00:52:45,760

i want them to think that they're

1515

00:52:50,390 --> 00:52:48,000

they're meaningless number one and that

1516

00:52:52,150 --> 00:52:50,400

they don't really have any power

1517

00:52:53,990 --> 00:52:52,160

and then it's okay to be depressed it's

1518

00:52:56,870 --> 00:52:54,000

okay to be unhealthy it's okay to be

1519

00:52:58,630 --> 00:52:56,880

all these other things i think science i

1520

00:53:02,470 --> 00:52:58,640

think that's one of the missteps here

1521

00:53:05,750 --> 00:53:02,480

science is humming along just the way

1522

00:53:07,750 --> 00:53:05,760

it wants to be and the the real players

1523

00:53:09,750 --> 00:53:07,760

of course in the invisible college they

1524

00:53:10,630 --> 00:53:09,760

never bought into any of this

1525

00:53:13,030 --> 00:53:10,640

or are they

1526

00:53:13,670 --> 00:53:13,040

you know i mean back to feynman so maybe

1527

00:53:15,750 --> 00:53:13,680

feynman

1528

00:53:17,109 --> 00:53:15,760

really thought that for a while but you

1529

00:53:17,430 --> 00:53:17,119

know einstein at the end of his life

1530

00:53:19,109 --> 00:53:17,440

goes

1531

00:53:20,950 --> 00:53:19,119

okay i give up yeah it's not that and

1532

00:53:22,069 --> 00:53:20,960

maybe feynman did too but certainly you

1533

00:53:24,549 --> 00:53:22,079

know you mentioned the guys i always

1534

00:53:25,990 --> 00:53:24,559

mentioned the guy's ad uh

1535

00:53:28,230 --> 00:53:26,000

you know these other guys would also

1536

00:53:30,790 --> 00:53:28,240

have the same thoughts so uh how was it

1537

00:53:31,670 --> 00:53:30,800

it ti imagined it was both you know some

1538

00:53:33,750 --> 00:53:31,680

people kind of see

1539

00:53:35,349 --> 00:53:33,760

it for the absurdity that it is and

1540

00:53:36,710 --> 00:53:35,359

others probably just saw hey i just got

1541

00:53:38,549 --> 00:53:36,720

to do my job but

1542

00:53:39,910 --> 00:53:38,559

like stargate you know russell targen

1543

00:53:41,670 --> 00:53:39,920

and hal put off i mean

1544

00:53:44,069 --> 00:53:41,680

they're working with it you know they're

1545

00:53:45,190 --> 00:53:44,079

not pretending that consciousness is an

1546

00:53:47,349 --> 00:53:45,200

illusion

1547

00:53:49,829 --> 00:53:47,359

and what was it with your work at ti was

1548

00:53:51,589 --> 00:53:49,839

it expansive in that kind of expanded

1549

00:53:52,470 --> 00:53:51,599

consciousness thing or no just kind of

1550

00:53:56,309 --> 00:53:52,480

make the changes

1551  
00:53:58,309 --> 00:53:56,319  
but the good news ti was a big company

1552  
00:54:00,309 --> 00:53:58,319  
and i had gotten to a point where i was

1553  
00:54:03,109 --> 00:54:00,319  
a senior member of technical staff

1554  
00:54:04,549 --> 00:54:03,119  
and i realized how to use the system so

1555  
00:54:06,549 --> 00:54:04,559  
i like

1556  
00:54:07,750 --> 00:54:06,559  
got special funding inside the company

1557  
00:54:09,990 --> 00:54:07,760  
to go and do

1558  
00:54:10,950 --> 00:54:10,000  
two conferences on physics and computing

1559  
00:54:12,950 --> 00:54:10,960  
you know so i

1560  
00:54:14,630 --> 00:54:12,960  
basically doing my job full-time and

1561  
00:54:15,430 --> 00:54:14,640  
running these two conferences over four

1562  
00:54:17,270 --> 00:54:15,440  
years

1563  
00:54:18,790 --> 00:54:17,280

and the own and the previous owner of

1564

00:54:21,990 --> 00:54:18,800

those conferences was

1565

00:54:23,270 --> 00:54:22,000

was uh tom toffley in 1981 and richard

1566

00:54:24,069 --> 00:54:23,280

finally was the keynote speaker but

1567

00:54:26,230 --> 00:54:24,079

nobody had had

1568

00:54:27,589 --> 00:54:26,240

a conference like that since for 11

1569

00:54:29,670 --> 00:54:27,599

years until i did it

1570

00:54:31,270 --> 00:54:29,680

and i stumbled into it and had ralph

1571

00:54:32,710 --> 00:54:31,280

landauer as my keynote speaker

1572

00:54:34,950 --> 00:54:32,720

and had a hundred people show up on the

1573

00:54:35,990 --> 00:54:34,960

first conference so so so the good news

1574

00:54:37,750 --> 00:54:36,000

is it was big enough

1575

00:54:39,510 --> 00:54:37,760

but after i did the second one my boss

1576

00:54:42,630 --> 00:54:39,520

says if you ever

1577

00:54:45,589 --> 00:54:42,640

justify anything that you do using

1578

00:54:47,030 --> 00:54:45,599

this this argument again you're gonna

1579

00:54:48,630 --> 00:54:47,040

have to go find somewhere else to work

1580

00:54:50,230 --> 00:54:48,640

so

1581

00:54:52,309 --> 00:54:50,240

you're gonna have to take off that gold

1582

00:54:56,549 --> 00:54:52,319

badge and uh yeah

1583

00:54:59,030 --> 00:54:56,559

you know so i i i worked at ti

1584

00:55:00,069 --> 00:54:59,040

i was in the phd i was in the phd

1585

00:55:02,950 --> 00:55:00,079

program at uh

1586

00:55:04,230 --> 00:55:02,960

university of uh arizona and i got an

1587

00:55:07,510 --> 00:55:04,240

internship by this

1588

00:55:11,430 --> 00:55:07,520

awesome guy who uh

1589

00:55:13,510 --> 00:55:11,440

um uh warren warren hired me i won't use

1590

00:55:15,829 --> 00:55:13,520

his last name but warren

1591

00:55:18,230 --> 00:55:15,839

hired me god bless him and then i came

1592

00:55:20,150 --> 00:55:18,240

back and i taught classes i was studying

1593

00:55:21,589 --> 00:55:20,160

expert systems which is really kind of a

1594

00:55:24,309 --> 00:55:21,599

recruit crude

1595

00:55:26,069 --> 00:55:24,319

thing but i started my own company

1596

00:55:27,670 --> 00:55:26,079

expert systems come in and i went back

1597

00:55:28,390 --> 00:55:27,680

and ti was one of my clients i went

1598

00:55:30,470 --> 00:55:28,400

there all the time

1599

00:55:31,990 --> 00:55:30,480

and it's an amazing culture there's some

1600

00:55:33,589 --> 00:55:32,000

super duper smart people

1601  
00:55:36,309 --> 00:55:33,599  
and as you describe it you know one of

1602  
00:55:38,230 --> 00:55:36,319  
the cool things about ti is they did

1603  
00:55:40,150 --> 00:55:38,240  
kind of give people some people who they

1604  
00:55:41,750 --> 00:55:40,160  
recognize as you know truly kind of

1605  
00:55:43,109 --> 00:55:41,760  
genius level they kind of let them run

1606  
00:55:44,789 --> 00:55:43,119  
off and do their thing

1607  
00:55:46,150 --> 00:55:44,799  
but like you said it would rain you back

1608  
00:55:48,549 --> 00:55:46,160  
in uh yeah

1609  
00:55:49,750 --> 00:55:48,559  
i mean i was at the research labs you

1610  
00:55:52,710 --> 00:55:49,760  
know which you'd expect

1611  
00:55:54,390 --> 00:55:52,720  
to be able to do that kind of stuff so

1612  
00:55:54,630 --> 00:55:54,400  
so what do you what do you think about

1613  
00:56:03,430 --> 00:55:54,640

the

1614

00:56:04,870 --> 00:56:03,440

government labs i mean shut up and

1615

00:56:07,910 --> 00:56:04,880

calculate versus

1616

00:56:10,470 --> 00:56:07,920

uh you know mk ultra

1617

00:56:12,230 --> 00:56:10,480

let's get into the let's do dissociative

1618

00:56:13,829 --> 00:56:12,240

identity disorder into the extended

1619

00:56:16,870 --> 00:56:13,839

consciousness realms

1620

00:56:19,349 --> 00:56:16,880

and uh see what we can see what

1621

00:56:20,950 --> 00:56:19,359

we can stir up over in this extended

1622

00:56:22,870 --> 00:56:20,960

consciousness

1623

00:56:24,230 --> 00:56:22,880

yeah this is an important topic that

1624

00:56:27,190 --> 00:56:24,240

you're bringing up here

1625

00:56:30,470 --> 00:56:27,200

because how right now most of the

1626  
00:56:32,710 --> 00:56:30,480  
research in this area is like

1627  
00:56:34,390 --> 00:56:32,720  
ai or quantum computing but nobody's

1628  
00:56:38,630 --> 00:56:34,400  
doing consciousness research

1629  
00:56:40,630 --> 00:56:38,640  
in corporations right and i would say

1630  
00:56:42,069 --> 00:56:40,640  
why not because it's the intersection of

1631  
00:56:45,109 --> 00:56:42,079  
those two right

1632  
00:56:46,630 --> 00:56:45,119  
so you know billions of dollars are

1633  
00:56:49,510 --> 00:56:46,640  
spent on space travel

1634  
00:56:51,589 --> 00:56:49,520  
ai and quantum computing billions tens

1635  
00:56:53,829 --> 00:56:51,599  
of million billions right

1636  
00:56:54,789 --> 00:56:53,839  
this is bigger than that in fact you

1637  
00:56:57,990 --> 00:56:54,799  
could think of this

1638  
00:57:01,190 --> 00:56:58,000

my book is a business plan to

1639

00:57:03,030 --> 00:57:01,200

get corporations of the world

1640

00:57:05,109 --> 00:57:03,040

involved in this because it's real

1641

00:57:07,270 --> 00:57:05,119

science it's not

1642

00:57:09,030 --> 00:57:07,280

it's proto-physics it's not metaphysics

1643

00:57:11,670 --> 00:57:09,040

it's proto-physics it's

1644

00:57:12,150 --> 00:57:11,680

imagine if the quantum states quantum

1645

00:57:14,150 --> 00:57:12,160

stuff

1646

00:57:15,430 --> 00:57:14,160

was marked as black magic and nobody did

1647

00:57:18,069 --> 00:57:15,440

anything about it

1648

00:57:19,349 --> 00:57:18,079

our society right now would be no have

1649

00:57:22,870 --> 00:57:19,359

no lasers

1650

00:57:25,430 --> 00:57:22,880

no no computers no transistors

1651  
00:57:26,309 --> 00:57:25,440  
nothing no nothing we would not have

1652  
00:57:29,910 --> 00:57:26,319  
optical

1653  
00:57:32,470 --> 00:57:29,920  
networks you know if quantum computing

1654  
00:57:34,150 --> 00:57:32,480  
was treated as as something that we

1655  
00:57:36,950 --> 00:57:34,160  
shouldn't work on

1656  
00:57:38,470 --> 00:57:36,960  
by industry our society would be

1657  
00:57:40,390 --> 00:57:38,480  
completely different now and i believe

1658  
00:57:43,430 --> 00:57:40,400  
that in 50 years from now

1659  
00:57:45,910 --> 00:57:43,440  
investments in this area will make our

1660  
00:57:47,990 --> 00:57:45,920  
world look completely different

1661  
00:57:50,470 --> 00:57:48,000  
and how do we do that is we have to

1662  
00:57:53,510 --> 00:57:50,480  
balance the science part of it

1663  
00:57:55,670 --> 00:57:53,520

the spirit side of it and the business

1664

00:57:57,589 --> 00:57:55,680

side of it right those three

1665

00:57:59,030 --> 00:57:57,599

and the so that's why i say my book is

1666

00:58:00,789 --> 00:57:59,040

the business plan for

1667

00:58:02,470 --> 00:58:00,799

let's get corporate america involved and

1668

00:58:03,589 --> 00:58:02,480

start investing the same amount of money

1669

00:58:04,470 --> 00:58:03,599

that they're investing all these other

1670

00:58:06,470 --> 00:58:04,480

stuff in

1671

00:58:08,950 --> 00:58:06,480

and there's a lot of people who 50

1672

00:58:10,470 --> 00:58:08,960

million dollars or 500 million dollars

1673

00:58:11,750 --> 00:58:10,480

is a drop in the bucket you know they'd

1674

00:58:13,270 --> 00:58:11,760

be happy to go do it if

1675

00:58:15,910 --> 00:58:13,280

sort of they had a reason to go do it so

1676

00:58:17,910 --> 00:58:15,920

i'm giving them the reason to go do it

1677

00:58:20,390 --> 00:58:17,920

and this isn't so this isn't we

1678

00:58:22,150 --> 00:58:20,400

shouldn't have just oh can we get 50 000

1679

00:58:23,589 --> 00:58:22,160

to do the experiment no we need to have

1680

00:58:25,349 --> 00:58:23,599

a long term

1681

00:58:26,390 --> 00:58:25,359

and and keep the government out of it i

1682

00:58:27,349 --> 00:58:26,400

don't think we need the government in

1683

00:58:29,589 --> 00:58:27,359

here and this

1684

00:58:30,470 --> 00:58:29,599

purpose of this should not be war you

1685

00:58:34,309 --> 00:58:30,480

know

1686

00:58:37,829 --> 00:58:34,319

society this is like

1687

00:58:41,270 --> 00:58:37,839

the next generation um companies that do

1688

00:58:43,510 --> 00:58:41,280

free software right i mean this is like

1689

00:58:45,349 --> 00:58:43,520

this is like non-profit organization to

1690

00:58:47,430 --> 00:58:45,359

the to the max you know and it's

1691

00:58:48,950 --> 00:58:47,440

and so think of it all the positive

1692

00:58:50,630 --> 00:58:48,960

things that happen on free software you

1693

00:58:52,309 --> 00:58:50,640

know uh

1694

00:58:54,309 --> 00:58:52,319

free software that people free software

1695

00:58:57,270 --> 00:58:54,319

corporations and that kind of stuff

1696

00:58:59,030 --> 00:58:57,280

so so so there's my vision so you tapped

1697

00:59:00,309 --> 00:58:59,040

on you tapped onto a hotspot for me

1698

00:59:01,829 --> 00:59:00,319

because of that

1699

00:59:03,589 --> 00:59:01,839

i could be with google but there's this

1700

00:59:04,150 --> 00:59:03,599

other new company that's going to form

1701  
00:59:07,589 --> 00:59:04,160  
that's

1702  
00:59:10,230 --> 00:59:07,599  
not going to be google based well i mean

1703  
00:59:11,430 --> 00:59:10,240  
and and let's let's understand that at

1704  
00:59:15,750 --> 00:59:11,440  
like a real

1705  
00:59:18,390 --> 00:59:15,760  
at a real level yeah so what do you do

1706  
00:59:19,750 --> 00:59:18,400  
yeah what has google done with the

1707  
00:59:23,750 --> 00:59:19,760  
technology that they

1708  
00:59:26,710 --> 00:59:23,760  
already have which is bordering

1709  
00:59:28,630 --> 00:59:26,720  
your business plan right so what the

1710  
00:59:31,510 --> 00:59:28,640  
technology google has

1711  
00:59:31,910 --> 00:59:31,520  
is they have the alphago technology yeah

1712  
00:59:33,829 --> 00:59:31,920  
exactly

1713  
00:59:34,950 --> 00:59:33,839

we talked about alphago but what alphago

1714

00:59:38,069 --> 00:59:34,960

really means

1715

00:59:40,309 --> 00:59:38,079

is kind of this deep machine learning

1716

00:59:42,309 --> 00:59:40,319

right yeah so rather than enough with

1717

00:59:44,829 --> 00:59:42,319

the hardware to speed it up

1718

00:59:45,990 --> 00:59:44,839

yeah so and maybe you want to talk about

1719

00:59:47,270 --> 00:59:46,000

uh but

1720

00:59:48,630 --> 00:59:47,280

i'll tell you what i'm going to go on my

1721

00:59:50,069 --> 00:59:48,640

little ranches to finish the thought and

1722

00:59:52,069 --> 00:59:50,079

then you can tell me about what machine

1723

00:59:55,030 --> 00:59:52,079

learning

1724

00:59:56,309 --> 00:59:55,040

okay where they're going obviously with

1725

00:59:59,349 --> 00:59:56,319

machine learning

1726  
00:59:59,990 --> 00:59:59,359  
is the that the language would be the

1727  
01:00:02,069 --> 01:00:00,000  
natural one

1728  
01:00:03,510 --> 01:00:02,079  
right so and they're already doing that

1729  
01:00:06,230 --> 01:00:03,520  
so shadow banning

1730  
01:00:07,750 --> 01:00:06,240  
and restricting who speaks and how they

1731  
01:00:09,270 --> 01:00:07,760  
speak and what they say

1732  
01:00:10,710 --> 01:00:09,280  
is clearly part of their agenda and

1733  
01:00:11,990 --> 01:00:10,720  
they've implemented it and you know i

1734  
01:00:13,670 --> 01:00:12,000  
have friends in silicon valley

1735  
01:00:15,190 --> 01:00:13,680  
five years when i told them hey my

1736  
01:00:16,390 --> 01:00:15,200  
friends are saying their thing was

1737  
01:00:18,150 --> 01:00:16,400  
demonetized

1738  
01:00:19,750 --> 01:00:18,160

they absolutely refused to believe that

1739

01:00:23,109 --> 01:00:19,760

they absolutely believe

1740

01:00:26,470 --> 01:00:23,119

refused to believe that google would do

1741

01:00:28,870 --> 01:00:26,480

something like just randomly secretly

1742

01:00:30,950 --> 01:00:28,880

take some videos and say those no longer

1743

01:00:32,549 --> 01:00:30,960

make any money and we won't explain why

1744

01:00:33,750 --> 01:00:32,559

and we won't have any appeal process

1745

01:00:36,950 --> 01:00:33,760

we'll just do that

1746

01:00:39,030 --> 01:00:36,960

now that's outed on a much more obvious

1747

01:00:40,069 --> 01:00:39,040

level some of it is some of it isn't

1748

01:00:41,990 --> 01:00:40,079

there's an ai

1749

01:00:43,910 --> 01:00:42,000

component behind that what does that

1750

01:00:45,990 --> 01:00:43,920

mean when that gets sped up

1751

01:00:47,109 --> 01:00:46,000

10 times faster the same thing with

1752

01:00:51,430 --> 01:00:47,119

controlling

1753

01:00:53,510 --> 01:00:51,440

ultimately the internet completely

1754

01:00:55,270 --> 01:00:53,520

so it's wonderful to think about all the

1755

01:00:55,670 --> 01:00:55,280

glorious things that can come out of

1756

01:00:58,069 --> 01:00:55,680

this

1757

01:00:58,789 --> 01:00:58,079

but what seems much more immediate for

1758

01:01:01,190 --> 01:00:58,799

us

1759

01:01:04,230 --> 01:01:01,200

is all the really scary that could

1760

01:01:06,789 --> 01:01:04,240

come out of this with regard to

1761

01:01:08,870 --> 01:01:06,799

controlling us so talk a little bit

1762

01:01:11,829 --> 01:01:08,880

about machine

1763

01:01:13,430 --> 01:01:11,839

machine learning ai strong ai and and

1764

01:01:16,950 --> 01:01:13,440

the downside of it that's right

1765

01:01:19,589 --> 01:01:16,960

at knocking at our door yeah well

1766

01:01:21,829 --> 01:01:19,599

that's why i'm interested in leveraging

1767

01:01:24,390 --> 01:01:21,839

humans rather than leveraging machines

1768

01:01:25,829 --> 01:01:24,400

you know so if you look what the message

1769

01:01:28,309 --> 01:01:25,839

is is that

1770

01:01:29,670 --> 01:01:28,319

let's let's let's tap into the infinite

1771

01:01:30,549 --> 01:01:29,680

intelligence that's supposed to be

1772

01:01:33,190 --> 01:01:30,559

behind

1773

01:01:34,309 --> 01:01:33,200

law of attraction and leverage people

1774

01:01:37,829 --> 01:01:34,319

you know

1775

01:01:39,829 --> 01:01:37,839

what it what if we could meditate

1776

01:01:41,670 --> 01:01:39,839

literally in a deep meditation

1777

01:01:43,990 --> 01:01:41,680

15 minutes a day everybody really do

1778

01:01:46,470 --> 01:01:44,000

that and change the sort of like the

1779

01:01:48,950 --> 01:01:46,480

thought pattern of the entire world

1780

01:01:51,589 --> 01:01:48,960

we would no longer have this kind of

1781

01:01:54,150 --> 01:01:51,599

hate based

1782

01:01:55,990 --> 01:01:54,160

you know competitive environment we

1783

01:01:57,029 --> 01:01:56,000

would be realize that we're all

1784

01:01:58,789 --> 01:01:57,039

you know there's there's an argument

1785

01:01:59,750 --> 01:01:58,799

that says there's only one consciousness

1786

01:02:01,349 --> 01:01:59,760

in the universe

1787

01:02:03,349 --> 01:02:01,359

it's all one and we're all part of that

1788

01:02:04,789 --> 01:02:03,359

right and so that's one way of looking

1789

01:02:06,309 --> 01:02:04,799

at it well we realize we're all part of

1790

01:02:07,750 --> 01:02:06,319

the same thing you know and

1791

01:02:09,990 --> 01:02:07,760

and that's part of touching the divine

1792

01:02:12,549 --> 01:02:10,000

you realize oh we're really all

1793

01:02:13,910 --> 01:02:12,559

part of that subset of that divine and

1794

01:02:16,710 --> 01:02:13,920

we're all really the same thing

1795

01:02:18,470 --> 01:02:16,720

and but but as long as we believe that

1796

01:02:21,829 --> 01:02:18,480

we're disconnected

1797

01:02:23,029 --> 01:02:21,839

and physical and that's it then nobody's

1798

01:02:24,470 --> 01:02:23,039

going to invest

1799

01:02:26,390 --> 01:02:24,480

in that and they're going to try to take

1800

01:02:28,069 --> 01:02:26,400

technological advantage of it so

1801  
01:02:29,510 --> 01:02:28,079  
i don't want my machine smarter i want

1802  
01:02:30,789 --> 01:02:29,520  
my people smarter so they can make

1803  
01:02:32,470 --> 01:02:30,799  
better decisions

1804  
01:02:34,789 --> 01:02:32,480  
make more unified decisions more

1805  
01:02:35,430 --> 01:02:34,799  
holistic decisions all that's nice you

1806  
01:02:37,589 --> 01:02:35,440  
know in the

1807  
01:02:39,029 --> 01:02:37,599  
in the book that i just wrote rival

1808  
01:02:40,789 --> 01:02:39,039  
matters one of the chapters is this

1809  
01:02:41,990 --> 01:02:40,799  
interview i did with this woman

1810  
01:02:43,910 --> 01:02:42,000  
i always bring this up it's

1811  
01:02:46,470 --> 01:02:43,920  
uncomfortable for people her name is

1812  
01:02:47,349 --> 01:02:46,480  
annika lucas i know you're interested in

1813  
01:02:50,710 --> 01:02:47,359

yoga

1814

01:02:52,950 --> 01:02:50,720

for years and years

1815

01:02:55,190 --> 01:02:52,960

love it from the philosophy standpoint

1816

01:02:57,510 --> 01:02:55,200

also appreciate the practice

1817

01:02:58,789 --> 01:02:57,520

annika is a yogi she's beautiful she

1818

01:03:01,829 --> 01:02:58,799

does these

1819

01:03:03,109 --> 01:03:01,839

training classes with incarcerated women

1820

01:03:05,589 --> 01:03:03,119

in upstate new york to

1821

01:03:07,109 --> 01:03:05,599

help them overcome trauma because she

1822

01:03:08,470 --> 01:03:07,119

knows about overcoming trauma because

1823

01:03:11,270 --> 01:03:08,480

it's six years old

1824

01:03:13,270 --> 01:03:11,280

in belgium she was sold to a satanic

1825

01:03:17,190 --> 01:03:13,280

ritual abuse cult by her mother

1826

01:03:19,510 --> 01:03:17,200

right six years old raped

1827

01:03:21,910 --> 01:03:19,520

hundreds and hundreds of times by what

1828

01:03:23,750 --> 01:03:21,920

she later identified as world leaders

1829

01:03:26,309 --> 01:03:23,760

this is part of the detroit case it's

1830

01:03:28,390 --> 01:03:26,319

not like uh it was in the news

1831

01:03:30,549 --> 01:03:28,400

it was the pizzagate of its time you

1832

01:03:31,750 --> 01:03:30,559

could see the pictures of the kids in

1833

01:03:34,470 --> 01:03:31,760

cages

1834

01:03:37,270 --> 01:03:34,480

the kids died when dutrow was arrested

1835

01:03:40,309 --> 01:03:37,280

and wasn't able to go

1836

01:03:43,109 --> 01:03:40,319

it's a horrible thing it's real

1837

01:03:43,430 --> 01:03:43,119

what they're doing is they're entering

1838

01:03:45,510 --> 01:03:43,440

this

1839

01:03:47,029 --> 01:03:45,520

extended consciousness realm and what

1840

01:03:48,470 --> 01:03:47,039

they're trying to do with kids

1841

01:03:50,630 --> 01:03:48,480

and what they're trying to do with the

1842

01:03:53,029 --> 01:03:50,640

whitley strieber the famous

1843

01:03:54,150 --> 01:03:53,039

abductee who i interviewed just recently

1844

01:03:55,190 --> 01:03:54,160

is they're trying to create a

1845

01:03:57,510 --> 01:03:55,200

disassociative

1846

01:03:59,670 --> 01:03:57,520

identity disorder kind of situation

1847

01:04:02,230 --> 01:03:59,680

where consciousness can be fragmented

1848

01:04:04,069 --> 01:04:02,240

in order to explore how they can

1849

01:04:06,789 --> 01:04:04,079

penetrate that and use that and

1850

01:04:08,950 --> 01:04:06,799

weaponize that in some way

1851

01:04:11,349 --> 01:04:08,960

why would do we think these people

1852

01:04:14,789 --> 01:04:11,359

aren't accessing the quote unquote

1853

01:04:17,829 --> 01:04:14,799

divine they are in some ways

1854

01:04:18,950 --> 01:04:17,839

closer to accessing this extended

1855

01:04:20,470 --> 01:04:18,960

consciousness realm

1856

01:04:22,710 --> 01:04:20,480

and they come to a different

1857

01:04:23,109 --> 01:04:22,720

understanding of what they want out of

1858

01:04:26,870 --> 01:04:23,119

it

1859

01:04:28,630 --> 01:04:26,880

so i'm just i just think until we take a

1860

01:04:29,109 --> 01:04:28,640

broader perspective on that because i'm

1861

01:04:31,029 --> 01:04:29,119

with you

1862

01:04:32,309 --> 01:04:31,039

i don't think it's about the darkness i

1863

01:04:35,510 --> 01:04:32,319

think it's about the light

1864

01:04:37,750 --> 01:04:35,520

but if we're not willing to understand

1865

01:04:38,789 --> 01:04:37,760

more broadly what extended consciousness

1866

01:04:41,829 --> 01:04:38,799

really means

1867

01:04:43,670 --> 01:04:41,839

i don't think we have a chance at uh

1868

01:04:45,510 --> 01:04:43,680

you know really turning this thing in

1869

01:04:47,430 --> 01:04:45,520

any appreciable way yeah

1870

01:04:49,029 --> 01:04:47,440

yeah you're you're you're tapping right

1871

01:04:52,549 --> 01:04:49,039

on your nest notion of evil

1872

01:04:54,230 --> 01:04:52,559

and and values and and things like that

1873

01:04:55,990 --> 01:04:54,240

and you know one of the things that

1874

01:04:57,270 --> 01:04:56,000

comes out of the near death experience

1875

01:05:00,390 --> 01:04:57,280

community

1876

01:05:02,950 --> 01:05:00,400

is that especially like

1877

01:05:04,789 --> 01:05:02,960

a life review is they say well

1878

01:05:05,670 --> 01:05:04,799

essentially there is no judgment about

1879

01:05:08,789 --> 01:05:05,680

what you're doing

1880

01:05:10,870 --> 01:05:08,799

essentially you're judging yourself

1881

01:05:12,950 --> 01:05:10,880

and you're judging yourself and your

1882

01:05:14,549 --> 01:05:12,960

behavior based on how

1883

01:05:15,990 --> 01:05:14,559

it hurts other people in other words

1884

01:05:17,910 --> 01:05:16,000

it's not somebody else

1885

01:05:19,349 --> 01:05:17,920

applying that it's like you're feeling

1886

01:05:24,230 --> 01:05:19,359

their pain right

1887

01:05:26,549 --> 01:05:24,240

well if if you could actually feel

1888

01:05:27,670 --> 01:05:26,559

the pain that you're causing other

1889

01:05:29,430 --> 01:05:27,680

people

1890

01:05:31,029 --> 01:05:29,440

so that you would go oh i don't really

1891

01:05:32,309 --> 01:05:31,039

want to do that because that's me i'm

1892

01:05:34,390 --> 01:05:32,319

hurting myself essentially

1893

01:05:35,349 --> 01:05:34,400

it's part of me right this other person

1894

01:05:38,549 --> 01:05:35,359

is really me

1895

01:05:39,349 --> 01:05:38,559

it's part of me you know then all of a

1896

01:05:42,150 --> 01:05:39,359

sudden

1897

01:05:43,270 --> 01:05:42,160

if you could if you could taste that

1898

01:05:44,470 --> 01:05:43,280

anybody who's had a near-death

1899

01:05:45,750 --> 01:05:44,480

experience i don't know of anybody who's

1900

01:05:47,190 --> 01:05:45,760

had a near-death experience it turns

1901

01:05:49,910 --> 01:05:47,200

into darth vader right

1902

01:05:50,950 --> 01:05:49,920

that's not what they do right they they

1903

01:05:52,710 --> 01:05:50,960

preach love and joy

1904

01:05:54,150 --> 01:05:52,720

and the reason is they've tasted it and

1905

01:05:58,230 --> 01:05:54,160

they understand that's why i call it

1906

01:06:00,710 --> 01:05:58,240

tasting the divine because in that state

1907

01:06:01,349 --> 01:06:00,720

people say well love is everything well

1908

01:06:04,789 --> 01:06:01,359

that's

1909

01:06:06,710 --> 01:06:04,799

pretty hard for us to swallow when we

1910

01:06:08,789 --> 01:06:06,720

are have a hard time even tasting what

1911

01:06:11,270 --> 01:06:08,799

one percent of that might be like

1912

01:06:13,029 --> 01:06:11,280

what if there was infinite intelligence

1913

01:06:15,190 --> 01:06:13,039

infinite emotional intelligence

1914

01:06:16,390 --> 01:06:15,200

infinite love it's hard to even talk

1915

01:06:18,309 --> 01:06:16,400

about that on a

1916

01:06:21,190 --> 01:06:18,319

richter scale you know what i'm saying

1917

01:06:23,910 --> 01:06:21,200

that it's exponential amount of love

1918

01:06:25,349 --> 01:06:23,920

and so what if people could actually

1919

01:06:26,870 --> 01:06:25,359

taste that

1920

01:06:28,309 --> 01:06:26,880

well it would permanently change who

1921

01:06:29,109 --> 01:06:28,319

they are because they would no longer be

1922

01:06:31,589 --> 01:06:29,119

interested in

1923

01:06:32,870 --> 01:06:31,599

abusing and manipulating and other

1924

01:06:35,029 --> 01:06:32,880

people because

1925

01:06:36,789 --> 01:06:35,039

they're doing it's not their motive

1926

01:06:38,630 --> 01:06:36,799

anymore so

1927

01:06:41,270 --> 01:06:38,640

that's our hope okay let's let's put it

1928

01:06:44,789 --> 01:06:41,280

this way that's our hope

1929

01:06:46,710 --> 01:06:44,799

that society will get to the point where

1930

01:06:48,390 --> 01:06:46,720

it's no longer not only acceptable but

1931

01:06:50,710 --> 01:06:48,400

nobody has the taste for it anymore

1932

01:06:52,390 --> 01:06:50,720

because of that so

1933

01:06:55,109 --> 01:06:52,400

beautifully said just beautifully said

1934

01:06:58,230 --> 01:06:55,119

doug what about the myth of

1935

01:07:01,670 --> 01:06:58,240

progress aspect of it right

1936

01:07:03,430 --> 01:07:01,680

so you're there you're selling your

1937

01:07:06,230 --> 01:07:03,440

thing that if we just get this

1938

01:07:08,549 --> 01:07:06,240

augmented reality with more qubit kind

1939

01:07:11,990 --> 01:07:08,559

of power we can get there

1940

01:07:14,309 --> 01:07:12,000

there's a a a bushman over

1941

01:07:16,309 --> 01:07:14,319

in africa who's sitting there and he's

1942

01:07:16,950 --> 01:07:16,319

just rolling on the ground laughing he's

1943

01:07:19,750 --> 01:07:16,960

like

1944

01:07:21,750 --> 01:07:19,760

don't you realize it's it's you're kind

1945

01:07:23,910 --> 01:07:21,760

of moving in the wrong direction

1946

01:07:25,589 --> 01:07:23,920

you think you're progressing and you're

1947

01:07:27,510 --> 01:07:25,599

not and you're leading to

1948

01:07:29,270 --> 01:07:27,520

greater potential for it all to be

1949

01:07:29,829 --> 01:07:29,280

co-opted or not even to take that last

1950

01:07:31,670 --> 01:07:29,839

part out

1951

01:07:33,190 --> 01:07:31,680

it's just that it's not necessary it's

1952

01:07:35,109 --> 01:07:33,200

just

1953

01:07:37,589 --> 01:07:35,119

you're progressing towards what it's

1954

01:07:39,430 --> 01:07:37,599

already there the kingdom is right there

1955

01:07:41,109 --> 01:07:39,440

yeah absolutely it's like the aborigines

1956

01:07:43,589 --> 01:07:41,119

too you know not even the

1957

01:07:44,390 --> 01:07:43,599

you know any shamans or aborigines you

1958

01:07:46,549 --> 01:07:44,400

know they have a

1959

01:07:47,910 --> 01:07:46,559

they have a nate connection with nature

1960

01:07:48,870 --> 01:07:47,920

and i think we all need to get back to

1961

01:07:53,029 --> 01:07:48,880

that and

1962

01:07:56,309 --> 01:07:53,039

nature is who our higher self is and and

1963

01:07:57,589 --> 01:07:56,319

our our bigger self that's outside of

1964

01:08:00,069 --> 01:07:57,599

space and outside time and

1965

01:08:01,190 --> 01:08:00,079

and that it has the values because it

1966

01:08:03,829 --> 01:08:01,200

goes

1967

01:08:04,710 --> 01:08:03,839

doesn't it realizes we're not connected

1968

01:08:06,470 --> 01:08:04,720

we're we're not

1969

01:08:08,710 --> 01:08:06,480

disconnected we're connected and that we

1970

01:08:10,549 --> 01:08:08,720

have these values because they feel good

1971

01:08:14,390 --> 01:08:10,559

you know and they have this

1972

01:08:16,709 --> 01:08:14,400

why would we amplify infinite pain

1973

01:08:17,510 --> 01:08:16,719

if we had a choice to as a higher

1974

01:08:20,630 --> 01:08:17,520

consciousness

1975

01:08:23,990 --> 01:08:20,640

state you know and unfortunately that's

1976

01:08:25,829 --> 01:08:24,000

that's i think it's you don't have to

1977

01:08:27,990 --> 01:08:25,839

choose evil you just have to choose

1978

01:08:29,430 --> 01:08:28,000

something else you know and that's the

1979

01:08:33,110 --> 01:08:29,440

thing you choose

1980

01:08:35,189 --> 01:08:33,120

i'm with you again wonderfully

1981

01:08:37,430 --> 01:08:35,199

well look here's what i guess i was

1982

01:08:40,470 --> 01:08:37,440

driving at with that

1983

01:08:41,430 --> 01:08:40,480

i think there's a legitimate case to be

1984

01:08:44,630 --> 01:08:41,440

made

1985

01:08:47,829 --> 01:08:44,640

and i think you make it of

1986

01:08:51,269 --> 01:08:47,839

this technological progress

1987

01:08:53,510 --> 01:08:51,279

leading towards kind of the

1988

01:08:54,550 --> 01:08:53,520

the counterbalance to what the bushman

1989

01:08:56,950 --> 01:08:54,560

is saying right

1990

01:08:58,789 --> 01:08:56,960

so it's like you're kind of saying yeah

1991

01:08:59,110 --> 01:08:58,799

okay i respect where you're coming from

1992

01:09:01,030 --> 01:08:59,120

but

1993

01:09:02,229 --> 01:09:01,040

i can get there too and i can get there

1994

01:09:03,910 --> 01:09:02,239

with ai

1995

01:09:05,349 --> 01:09:03,920

and i can get there with augmented

1996

01:09:07,110 --> 01:09:05,359

intelligence and all the rest this

1997

01:09:09,590 --> 01:09:07,120

doesn't have to sit on the sideline

1998

01:09:11,749 --> 01:09:09,600

necessarily

1999

01:09:13,669 --> 01:09:11,759

yeah they're not mutually exclusive

2000

01:09:16,229 --> 01:09:13,679

speak to that if you will

2001

01:09:17,910 --> 01:09:16,239

yeah see one of the one of the things

2002

01:09:19,749 --> 01:09:17,920

that you learn about especially in this

2003

01:09:21,349 --> 01:09:19,759

age of polarity right it's either this

2004

01:09:23,590 --> 01:09:21,359

or this right they're extreme opposites

2005

01:09:25,030 --> 01:09:23,600

as soon as you realize that every

2006

01:09:27,189 --> 01:09:25,040

advanced concept

2007

01:09:28,070 --> 01:09:27,199

is neither there are no opposites

2008

01:09:29,510 --> 01:09:28,080

anywhere

2009

01:09:31,189 --> 01:09:29,520

if you look at the neural model i'm

2010

01:09:32,870 --> 01:09:31,199

talking about it's a

2011

01:09:34,630 --> 01:09:32,880

higher dimensional version think if you

2012

01:09:36,309 --> 01:09:34,640

had a bunch of toothpicks and those are

2013

01:09:38,390 --> 01:09:36,319

the quantum bits

2014

01:09:39,590 --> 01:09:38,400

and you can form those toothpicks

2015

01:09:43,110 --> 01:09:39,600

mathematically

2016

01:09:45,110 --> 01:09:43,120

into these large pickup sticks or or

2017

01:09:47,430 --> 01:09:45,120

knitting needles those are the thought

2018

01:09:49,669 --> 01:09:47,440

vectors of our thoughts and they're

2019

01:09:50,950 --> 01:09:49,679

these little dimensions assemble to form

2020

01:09:54,070 --> 01:09:50,960

the bigger ones

2021

01:09:55,590 --> 01:09:54,080

those bigger needle knitting needles are

2022

01:09:56,950 --> 01:09:55,600

orthogonal as well just like quantum

2023

01:09:58,229 --> 01:09:56,960

computing they're quantum computing at

2024

01:10:00,310 --> 01:09:58,239

the macroscopic

2025

01:10:02,229 --> 01:10:00,320

layer of building all of these thoughts

2026

01:10:03,350 --> 01:10:02,239

up to be so that's the law of attraction

2027

01:10:06,149 --> 01:10:03,360

law of attraction is

2028

01:10:06,790 --> 01:10:06,159

these things that are similar structure

2029

01:10:08,709 --> 01:10:06,800

look

2030

01:10:10,070 --> 01:10:08,719

similar at the macroscopic level and

2031

01:10:12,630 --> 01:10:10,080

every thought is like that

2032

01:10:13,189 --> 01:10:12,640

and every one of these thoughts light

2033

01:10:16,149 --> 01:10:13,199

and dark

2034

01:10:16,630 --> 01:10:16,159

they're not opposites at that domain

2035

01:10:18,310 --> 01:10:16,640

they're

2036

01:10:20,229 --> 01:10:18,320

orthogonal which means you can have gray

2037

01:10:21,910 --> 01:10:20,239

you can have mixtures of everything

2038

01:10:23,270 --> 01:10:21,920

so even love and hate they're not

2039

01:10:25,830 --> 01:10:23,280

opposites

2040

01:10:27,910 --> 01:10:25,840

right you can do the 20 you can do the

2041

01:10:29,430 --> 01:10:27,920

the loop where you tell everybody to say

2042

01:10:30,550 --> 01:10:29,440

the opposite of the thing

2043

01:10:31,910 --> 01:10:30,560

and then you pass it around and the

2044

01:10:32,630 --> 01:10:31,920

person whispers to the next one by the

2045

01:10:34,149 --> 01:10:32,640

time you get back

2046

01:10:35,990 --> 01:10:34,159

you have no idea how it got to where

2047

01:10:38,070 --> 01:10:36,000

they were because everybody

2048

01:10:39,350 --> 01:10:38,080

opposite is so context dependent it's

2049

01:10:42,229 --> 01:10:39,360

relativistic

2050

01:10:43,510 --> 01:10:42,239

so if you start looking at all of that

2051  
01:10:48,149 --> 01:10:43,520  
information you go

2052  
01:10:51,910 --> 01:10:48,159  
okay the mind is

2053  
01:10:52,790 --> 01:10:51,920  
is is hyperdem it all gets back to hyper

2054  
01:10:56,390 --> 01:10:52,800  
dimensional

2055  
01:10:59,350 --> 01:10:56,400  
okay so um

2056  
01:11:01,350 --> 01:10:59,360  
and it doesn't exist inside three

2057  
01:11:02,790 --> 01:11:01,360  
dimensions and so there's a value system

2058  
01:11:04,550 --> 01:11:02,800  
and meaning comes from that

2059  
01:11:06,390 --> 01:11:04,560  
where i was heading with this meaning

2060  
01:11:10,310 --> 01:11:06,400  
law of attraction

2061  
01:11:12,709 --> 01:11:10,320  
meaning is those values and those

2062  
01:11:14,149 --> 01:11:12,719  
emotions you can't have meaning without

2063  
01:11:20,790 --> 01:11:14,159

emotion

2064

01:11:22,229 --> 01:11:20,800

is meaning the fundamental level that's

2065

01:11:23,510 --> 01:11:22,239

why people who have these mystical

2066

01:11:25,189 --> 01:11:23,520

experiences

2067

01:11:27,030 --> 01:11:25,199

have deep love and they can't even put

2068

01:11:28,070 --> 01:11:27,040

it in words it's not words it's the

2069

01:11:30,310 --> 01:11:28,080

meaning of the

2070

01:11:32,149 --> 01:11:30,320

of love and the meaning of compassion

2071

01:11:34,790 --> 01:11:32,159

and the meaning of that

2072

01:11:35,750 --> 01:11:34,800

they can't even put it in words because

2073

01:11:37,510 --> 01:11:35,760

there's not enough

2074

01:11:38,790 --> 01:11:37,520

adjectives to put in front of it to make

2075

01:11:41,110 --> 01:11:38,800

it that big

2076

01:11:41,830 --> 01:11:41,120

and yet they come back and they and it's

2077

01:11:45,189 --> 01:11:41,840

so

2078

01:11:48,229 --> 01:11:45,199

we have to have a model for how the mind

2079

01:11:49,030 --> 01:11:48,239

processes meaning and i think this kind

2080

01:11:50,709 --> 01:11:49,040

of

2081

01:11:52,709 --> 01:11:50,719

mathematical framework that's built on

2082

01:11:53,990 --> 01:11:52,719

quantum mechanics and neural mathematics

2083

01:11:56,229 --> 01:11:54,000

it's the same kind of mathematics

2084

01:11:57,910 --> 01:11:56,239

hyper-dimensional mathematics gives you

2085

01:11:58,870 --> 01:11:57,920

an insight about saying okay how that's

2086

01:12:02,070 --> 01:11:58,880

all that works

2087

01:12:05,270 --> 01:12:02,080

and so once you have met meaning for

2088

01:12:05,990 --> 01:12:05,280

compassion and love and you realize oh

2089

01:12:09,110 --> 01:12:06,000

that's who we're

2090

01:12:10,790 --> 01:12:09,120

how who we are then maybe these

2091

01:12:12,550 --> 01:12:10,800

uncompassionate things the hate

2092

01:12:14,229 --> 01:12:12,560

and the love and the polarity that's

2093

01:12:16,310 --> 01:12:14,239

coming none of that

2094

01:12:17,270 --> 01:12:16,320

means anything anymore if you can get

2095

01:12:18,630 --> 01:12:17,280

above it

2096

01:12:19,990 --> 01:12:18,640

right that's what you're doing when

2097

01:12:20,550 --> 01:12:20,000

you're doing an out of body experience

2098

01:12:25,430 --> 01:12:20,560

you're

2099

01:12:28,149 --> 01:12:25,440

of like looking above it

2100

01:12:29,270 --> 01:12:28,159

um nlp calls it timeline therapy where

2101

01:12:31,990 --> 01:12:29,280

you're above

2102

01:12:32,470 --> 01:12:32,000

your entire timeline and that stuff

2103

01:12:35,270 --> 01:12:32,480

works

2104

01:12:36,870 --> 01:12:35,280

because you're you're taking a broader

2105

01:12:41,750 --> 01:12:36,880

perspective

2106

01:12:44,229 --> 01:12:41,760

unified view

2107

01:12:46,790 --> 01:12:44,239

of these what historically look like

2108

01:12:48,229 --> 01:12:46,800

complementary or

2109

01:12:49,350 --> 01:12:48,239

if you have these two things that look

2110

01:12:50,709 --> 01:12:49,360

like they're opposite to each other but

2111

01:12:51,350 --> 01:12:50,719

you can take a higher view of it that

2112

01:12:53,590 --> 01:12:51,360

looks like

2113

01:12:55,430 --> 01:12:53,600

oh i see this broader perspective where

2114

01:12:56,950 --> 01:12:55,440

those differences disappear

2115

01:12:58,709 --> 01:12:56,960

that's what spiritual growth is all

2116

01:13:00,630 --> 01:12:58,719

about and that's what that's what you

2117

01:13:04,070 --> 01:13:00,640

have when you get this divine

2118

01:13:05,510 --> 01:13:04,080

tasting the divine you don't have that

2119

01:13:08,229 --> 01:13:05,520

sort of limited view anymore you have

2120

01:13:10,550 --> 01:13:08,239

this much broader unified wholeness

2121

01:13:12,310 --> 01:13:10,560

that's wave-like i mean the only way you

2122

01:13:15,030 --> 01:13:12,320

can get that broader perspective if

2123

01:13:18,950 --> 01:13:15,040

you're a wave

2124

01:13:20,870 --> 01:13:18,960

not a discrete set of points you know in

2125

01:13:22,310 --> 01:13:20,880

you're not a discrete set of bits you're

2126  
01:13:23,750 --> 01:13:22,320  
like a quantum wave you're like a

2127  
01:13:25,270 --> 01:13:23,760  
quantum potential

2128  
01:13:27,910 --> 01:13:25,280  
and so that's how it ties neural

2129  
01:13:33,430 --> 01:13:27,920  
computing times with quantum mechanics

2130  
01:13:35,590 --> 01:13:33,440  
so doug how is the deep reality book

2131  
01:13:37,510 --> 01:13:35,600  
going as it do you feel like it's

2132  
01:13:40,950 --> 01:13:37,520  
getting through to people it's just an

2133  
01:13:43,189 --> 01:13:40,960  
awesome awesome you know book again i

2134  
01:13:46,709 --> 01:13:43,199  
super encourage everyone to check it out

2135  
01:13:47,110 --> 01:13:46,719  
how's it going for for you and dr tiller

2136  
01:13:49,910 --> 01:13:47,120  
and

2137  
01:13:50,870 --> 01:13:49,920  
how do you feel about it well dr tiller

2138  
01:13:52,709 --> 01:13:50,880

you know his

2139

01:13:54,950 --> 01:13:52,719

organization and him is promoting the

2140

01:13:57,510 --> 01:13:54,960

book and that's helping and so

2141

01:13:58,550 --> 01:13:57,520

i'm we're start you know as a as a brand

2142

01:14:01,590 --> 01:13:58,560

new author

2143

01:14:05,669 --> 01:14:01,600

you know um dean rayden has you know

2144

01:14:07,830 --> 01:14:05,679

50 50 interviews per per month

2145

01:14:09,430 --> 01:14:07,840

when he has a new book out and i'm just

2146

01:14:10,310 --> 01:14:09,440

getting that started with my book as

2147

01:14:12,550 --> 01:14:10,320

being the first

2148

01:14:14,310 --> 01:14:12,560

first author so i want to thank you for

2149

01:14:16,870 --> 01:14:14,320

you know inviting me because

2150

01:14:17,910 --> 01:14:16,880

um because this is the beginning i'm

2151

01:14:19,590 --> 01:14:17,920

hoping the beginning

2152

01:14:21,189 --> 01:14:19,600

um with your interview of other people

2153

01:14:22,390 --> 01:14:21,199

going yeah i have

2154

01:14:24,070 --> 01:14:22,400

something to say and i probably have

2155

01:14:25,750 --> 01:14:24,080

something that's unique to be said

2156

01:14:29,830 --> 01:14:25,760

that's based on science

2157

01:14:31,830 --> 01:14:29,840

and yet yet gives us hope you know that

2158

01:14:33,590 --> 01:14:31,840

um that we can talk about all these

2159

01:14:34,390 --> 01:14:33,600

subjects in a way that's meaningful you

2160

01:14:37,270 --> 01:14:34,400

know

2161

01:14:38,630 --> 01:14:37,280

so um so right now it's i'd say it's

2162

01:14:39,189 --> 01:14:38,640

slow starting but i'm not worried about

2163

01:14:42,550 --> 01:14:39,199

that

2164

01:14:44,229 --> 01:14:42,560

are going to find out on the book and

2165

01:14:44,950 --> 01:14:44,239

i've met some very interesting people so

2166

01:14:48,229 --> 01:14:44,960

far

2167

01:14:49,350 --> 01:14:48,239

and and and people who are 100 behind

2168

01:14:52,550 --> 01:14:49,360

what i'm doing

2169

01:14:53,030 --> 01:14:52,560

and uh that's encouraging and how could

2170

01:14:55,350 --> 01:14:53,040

it be

2171

01:14:56,470 --> 01:14:55,360

otherwise again you know towards the end

2172

01:14:58,550 --> 01:14:56,480

here you're just

2173

01:14:59,669 --> 01:14:58,560

in my opinion just knocking it out of

2174

01:15:02,630 --> 01:14:59,679

the park with uh

2175

01:15:05,110 --> 01:15:02,640

thank you nde and the good versus in the

2176

01:15:07,030 --> 01:15:05,120

life review which i always felt is

2177

01:15:10,550 --> 01:15:07,040

the most important thing to understand

2178

01:15:12,630 --> 01:15:10,560

about nde along with the fact that

2179

01:15:13,750 --> 01:15:12,640

there is a moral imperative and i love

2180

01:15:16,950 --> 01:15:13,760

your point about

2181

01:15:19,669 --> 01:15:16,960

we can always you know

2182

01:15:21,590 --> 01:15:19,679

we are good you know my point is always

2183

01:15:23,270 --> 01:15:21,600

that we are more we are not biological

2184

01:15:23,990 --> 01:15:23,280

robots in a meaningless universe we have

2185

01:15:26,470 --> 01:15:24,000

this

2186

01:15:28,070 --> 01:15:26,480

divine ever expanding beings and i'm not

2187

01:15:30,950 --> 01:15:28,080

i'm not christian i'm not religious

2188

01:15:31,910 --> 01:15:30,960

get that straight but also we are good

2189

01:15:34,149 --> 01:15:31,920

we are good we can

2190

01:15:36,229 --> 01:15:34,159

always choose good and the fact that so

2191

01:15:37,110 --> 01:15:36,239

many people choose darkness and evil is

2192

01:15:39,669 --> 01:15:37,120

just

2193

01:15:40,149 --> 01:15:39,679

a confusion misunderstanding that's

2194

01:15:41,430 --> 01:15:40,159

their

2195

01:15:43,110 --> 01:15:41,440

thing that they're going to have to work

2196

01:15:44,189 --> 01:15:43,120

on just some optimized decision as i

2197

01:15:47,270 --> 01:15:44,199

like to call it

2198

01:15:49,510 --> 01:15:47,280

self-optimized decision so

2199

01:15:51,430 --> 01:15:49,520

uh you are to be congratulated and i

2200

01:15:54,630 --> 01:15:51,440

love your spirit of

2201

01:15:56,550 --> 01:15:54,640

this book will reach the right people

2202

01:15:58,390 --> 01:15:56,560

thank you however many they are and

2203

01:16:02,070 --> 01:15:58,400

wherever they are

2204

01:16:05,590 --> 01:16:02,080

it's super important that someone with

2205

01:16:08,630 --> 01:16:05,600

your background and your ability to

2206

01:16:12,550 --> 01:16:08,640

just directly confront uh

2207

01:16:16,229 --> 01:16:12,560

the technology that is so

2208

01:16:19,110 --> 01:16:16,239

uh immediately relevant to our life

2209

01:16:21,030 --> 01:16:19,120

and then do it in a way that is uh

2210

01:16:24,390 --> 01:16:21,040

immediately expansive into this

2211

01:16:25,110 --> 01:16:24,400

metaphysical stuff is it's a head trip

2212

01:16:27,110 --> 01:16:25,120

man

2213

01:16:28,950 --> 01:16:27,120

i'm just telling you you're you're

2214

01:16:29,990 --> 01:16:28,960

really to be congratulated doug great

2215

01:16:32,310 --> 01:16:30,000

work

2216

01:16:33,990 --> 01:16:32,320

thank you thank you i appreciate you uh

2217

01:16:35,990 --> 01:16:34,000

inviting me for this interview today

2218

01:16:37,750 --> 01:16:36,000

and i appreciate all the obviously you

2219

01:16:39,510 --> 01:16:37,760

spend a lot of time looking at this book

2220

01:16:42,550 --> 01:16:39,520

beforehand and i appreciate that too

2221

01:16:45,189 --> 01:16:42,560

and so that it it's it's an informed

2222

01:16:46,630 --> 01:16:45,199

it's an informed interview and and

2223

01:16:49,590 --> 01:16:46,640

people will know that sincere and i

2224

01:16:51,430 --> 01:16:49,600

appreciate that part of it too so

2225

01:16:55,830 --> 01:16:51,440

okay they're gonna hate on me but that's

2226

01:16:59,590 --> 01:16:57,910

thanks again to dr doug matzke for

2227

01:17:01,510 --> 01:16:59,600

joining me today on skeptico the one

2228

01:17:02,229 --> 01:17:01,520

question i'd have to tee up from this

2229

01:17:05,669 --> 01:17:02,239

interview

2230

01:17:08,550 --> 01:17:05,679

is what do you make of

2231

01:17:10,950 --> 01:17:08,560

doug's transition from quantum physics

2232

01:17:14,149 --> 01:17:10,960

quantum computing to

2233

01:17:17,910 --> 01:17:14,159

the metaphysical to the spiritual

2234

01:17:21,350 --> 01:17:17,920

science it's a leap but he claims

2235

01:17:23,990 --> 01:17:21,360

it's an undeniable leap

2236

01:17:25,430 --> 01:17:24,000

what do you think let me know your

2237

01:17:26,149 --> 01:17:25,440

thoughts jump on over to the skeptical

2238

01:17:29,110 --> 01:17:26,159

forum or

2239

01:17:30,950 --> 01:17:29,120

track me down wherever you can find me

2240

01:17:31,990 --> 01:17:30,960

plenty of shows coming up stay with me

2241

01:17:36,180 --> 01:17:32,000

for all of that

2242

01:17:42,830 --> 01:17:36,190

until next time take care and bye for