



**WHAT
IS
REAL?**

1
00:00:00,270 --> 00:00:06,710
[Applause]

2
00:00:09,430 --> 00:00:07,909
we're gonna talk about the simulated

3
00:00:10,629 --> 00:00:09,440
reality

4
00:00:13,270 --> 00:00:10,639
and

5
00:00:15,589 --> 00:00:13,280
uh this crazy universe we all seem to be

6
00:00:18,470 --> 00:00:15,599
occupying at the same time

7
00:00:21,349 --> 00:00:18,480
so i got a couple articles about this

8
00:00:23,990 --> 00:00:21,359
and the the first one i'm gonna bring up

9
00:00:26,310 --> 00:00:24,000
on screen please

10
00:00:27,910 --> 00:00:26,320
there's a headline that says if we live

11
00:00:30,950 --> 00:00:27,920
in a simulation

12
00:00:32,709 --> 00:00:30,960
how much computer memory does it need oh

13
00:00:33,830 --> 00:00:32,719

we just discussed this before the show

14

00:00:36,549 --> 00:00:33,840

you can tell them all about computer

15

00:00:40,310 --> 00:00:36,559

memory i i ran out of computer memory i

16

00:00:42,470 --> 00:00:40,320

ran out of some ram and my computer was

17

00:00:44,549 --> 00:00:42,480

messing up last week if everyone

18

00:00:46,310 --> 00:00:44,559

remembers we weren't streaming

19

00:00:48,150 --> 00:00:46,320

uh to all the locations we normally

20

00:00:50,069 --> 00:00:48,160

would because i ran out of memory so if

21

00:00:51,270 --> 00:00:50,079

we live in a simulation simulation what

22

00:00:54,549 --> 00:00:51,280

do we need

23

00:00:57,189 --> 00:00:54,559

well uh storing a simulation of the

24

00:00:59,990 --> 00:00:57,199

universe is likely to require more

25

00:01:04,549 --> 00:01:00,000

memory than the average video game well

26

00:01:08,550 --> 00:01:06,469

what kind of statement is that for like

27

00:01:10,789 --> 00:01:08,560

a lead off you know

28

00:01:12,310 --> 00:01:10,799

this comes from live science

29

00:01:14,070 --> 00:01:12,320

i've never heard of life science you

30

00:01:16,070 --> 00:01:14,080

never like science life science good

31

00:01:17,670 --> 00:01:16,080

they got the best science over there

32

00:01:20,630 --> 00:01:17,680

based on what based on the one sentence

33

00:01:22,230 --> 00:01:20,640

you've read me yeah i would say no

34

00:01:24,789 --> 00:01:22,240

okay well

35

00:01:27,350 --> 00:01:24,799

uh what if we told you

36

00:01:29,429 --> 00:01:27,360

that the the world could live though i'm

37

00:01:31,510 --> 00:01:29,439

sorry what if we told you that the world

38

00:01:33,190 --> 00:01:31,520

you live in isn't real it might sound

39

00:01:35,030 --> 00:01:33,200

like a concept straight out of the kiana

40

00:01:36,710 --> 00:01:35,040

reeves science fiction favorite the

41

00:01:38,469 --> 00:01:36,720

matrix but according to some of the

42

00:01:41,830 --> 00:01:38,479

world's most

43

00:01:43,510 --> 00:01:41,840

important top minds the i that idea

44

00:01:45,749 --> 00:01:43,520

that we are living inside a

45

00:01:47,109 --> 00:01:45,759

sophisticated computer simulation is not

46

00:01:48,550 --> 00:01:47,119

only possible

47

00:01:50,950 --> 00:01:48,560

it may

48

00:01:54,069 --> 00:01:50,960

actually be more likely than the idea

49

00:01:56,630 --> 00:01:54,079

that we are living in the real world but

50

00:01:59,590 --> 00:01:56,640

like all computer programs such as such

51
00:02:02,389 --> 00:01:59,600
a complex situ uh simulation

52
00:02:05,109 --> 00:02:02,399
which would presumably include the

53
00:02:07,350 --> 00:02:05,119
entire observable universe

54
00:02:09,270 --> 00:02:07,360
would have to be stored somewhere

55
00:02:10,469 --> 00:02:09,280
intrigued by the possibility physicist

56
00:02:13,670 --> 00:02:10,479
melvin

57
00:02:15,510 --> 00:02:13,680
vopson from the university of portsmouth

58
00:02:18,229 --> 00:02:15,520
has sought to calculate just how much

59
00:02:20,710 --> 00:02:18,239
computer memory the entire universe

60
00:02:22,229 --> 00:02:20,720
would actually require

61
00:02:24,150 --> 00:02:22,239
to do this you started by first

62
00:02:24,949 --> 00:02:24,160
determining how much information there

63
00:02:28,470 --> 00:02:24,959

is

64

00:02:30,630 --> 00:02:28,480

in a single subtonic subatomic particle

65

00:02:33,350 --> 00:02:30,640

then marked up multiplied it uh

66

00:02:35,430 --> 00:02:33,360

multiplied this by the estimate for the

67

00:02:36,390 --> 00:02:35,440

total number of particles in the

68

00:02:38,309 --> 00:02:36,400

universe

69

00:02:41,670 --> 00:02:38,319

this calculation just comes to a rather

70

00:02:43,830 --> 00:02:41,680

ridiculous 10 to the 93rd

71

00:02:46,710 --> 00:02:43,840

power of bits or

72

00:02:48,949 --> 00:02:46,720

6 million trillion trillion trillion

73

00:02:50,869 --> 00:02:48,959

trillion needed to store the entire

74

00:02:52,869 --> 00:02:50,879

universe in computer memory well i'm

75

00:02:55,190 --> 00:02:52,879

going to pause right there

76

00:02:56,630 --> 00:02:55,200

he is saying that

77

00:02:58,070 --> 00:02:56,640

according to this calculation he's

78

00:02:59,589 --> 00:02:58,080

saying

79

00:03:02,390 --> 00:02:59,599

every

80

00:03:04,949 --> 00:03:02,400

subatomic subatomic particle is rendered

81

00:03:08,309 --> 00:03:04,959

simultaneously

82

00:03:09,670 --> 00:03:08,319

and i'm not sure if that's true he's

83

00:03:11,830 --> 00:03:09,680

calculating he's making all these

84

00:03:14,309 --> 00:03:11,840

calculations like well everything is

85

00:03:17,270 --> 00:03:14,319

rendered at the same time so therefore

86

00:03:19,190 --> 00:03:17,280

we need that much memory when i think

87

00:03:22,790 --> 00:03:19,200

the universe if it is a simulation it

88

00:03:23,830 --> 00:03:22,800

gets rendered on demand and that demand

89

00:03:24,630 --> 00:03:23,840

is

90

00:03:28,309 --> 00:03:24,640

uh

91

00:03:30,630 --> 00:03:28,319

the conscious observable mind like us it

92

00:03:32,869 --> 00:03:30,640

gets rendered when us the observer is

93

00:03:34,869 --> 00:03:32,879

looking at it beyond that it's not

94

00:03:36,789 --> 00:03:34,879

consuming all that memory all that much

95

00:03:39,350 --> 00:03:36,799

memory so that that's a one of the

96

00:03:40,710 --> 00:03:39,360

primary ways that that developers who do

97

00:03:42,470 --> 00:03:40,720

develop video games when they're working

98

00:03:44,229 --> 00:03:42,480

on that they they save on the amount of

99

00:03:46,149 --> 00:03:44,239

memory overhead necessary they only

100

00:03:47,910 --> 00:03:46,159

render out the world that's visible yeah

101
00:03:50,550 --> 00:03:47,920
in the field of view from the point of

102
00:03:51,670 --> 00:03:50,560
view of the player character um which is

103
00:03:53,990 --> 00:03:51,680
why one of the things you could do in

104
00:03:56,309 --> 00:03:54,000
some of the older was the the

105
00:03:58,470 --> 00:03:56,319
grand theft auto games if you drove

106
00:03:59,670 --> 00:03:58,480
backwards but looked forwards the world

107
00:04:02,149 --> 00:03:59,680
hadn't rendered behind you so there was

108
00:04:04,630 --> 00:04:02,159
no traffic yeah stuff like that so

109
00:04:07,350 --> 00:04:04,640
you're right it would seem odd to say

110
00:04:10,630 --> 00:04:07,360
that every particle is rendered as its

111
00:04:12,390 --> 00:04:10,640
own bit presumably uh and thus using

112
00:04:14,710 --> 00:04:12,400
that number which is species to start

113
00:04:16,229 --> 00:04:14,720

with anyway is how they arrived at

114

00:04:18,949 --> 00:04:16,239

umpteen quadrillion trillion drilling

115

00:04:21,110 --> 00:04:18,959

whatever it was brazilians uh of of

116

00:04:22,390 --> 00:04:21,120

memory necessary

117

00:04:25,430 --> 00:04:22,400

already said

118

00:04:27,749 --> 00:04:25,440

you only ever need 640k

119

00:04:29,430 --> 00:04:27,759

that's what he said that was uh i think

120

00:04:31,350 --> 00:04:29,440

he may have changed his mind since then

121

00:04:33,670 --> 00:04:31,360

but the 600 million trillion trillion

122

00:04:34,950 --> 00:04:33,680

trillion trillion trillion trillion

123

00:04:36,629 --> 00:04:34,960

um

124

00:04:38,629 --> 00:04:36,639

pieces of memory needed to render the

125

00:04:41,189 --> 00:04:38,639

universe i mean i don't have that much i

126

00:04:42,790 --> 00:04:41,199

only have 600 million trillion trillion

127

00:04:44,629 --> 00:04:42,800

trillion

128

00:04:46,550 --> 00:04:44,639

megabytes of ram so you need to get more

129

00:04:48,550 --> 00:04:46,560

memory today i'm a little low on my

130

00:04:50,070 --> 00:04:48,560

memory to for even my own personal

131

00:04:52,070 --> 00:04:50,080

computing needs

132

00:04:53,430 --> 00:04:52,080

so do you select what gets turned off in

133

00:04:55,510 --> 00:04:53,440

the universe you was like you know what

134

00:04:56,629 --> 00:04:55,520

south america i don't really care about

135

00:04:59,110 --> 00:04:56,639

you right now

136

00:05:00,629 --> 00:04:59,120

yeah so i i appreciate the pr the

137

00:05:02,870 --> 00:05:00,639

approach here i just don't think he

138

00:05:04,150 --> 00:05:02,880

thought it through all the way he's he's

139

00:05:06,390 --> 00:05:04,160

he's assuming everything's an active

140

00:05:09,350 --> 00:05:06,400

memory which i don't think that it is

141

00:05:12,310 --> 00:05:09,360

um so i'll continue on here of course if

142

00:05:14,870 --> 00:05:12,320

we are living in a computer simulation

143

00:05:17,189 --> 00:05:14,880

it is likely to be one created by a much

144

00:05:19,990 --> 00:05:17,199

more advanced civilization or

145

00:05:21,990 --> 00:05:20,000

even our future selves meaning that such

146

00:05:24,550 --> 00:05:22,000

levels of computer storage

147

00:05:27,510 --> 00:05:24,560

might not be particularly excessive or

148

00:05:29,670 --> 00:05:27,520

unreachable as thing stands

149

00:05:31,990 --> 00:05:29,680

it's a bit like trying to imagine how

150

00:05:34,790 --> 00:05:32,000

the latest big budget video game which

151
00:05:37,990 --> 00:05:34,800
can exceed 100 gigabytes of size could

152
00:05:41,670 --> 00:05:38,000
be stored in the memory of an old 1980s

153
00:05:43,189 --> 00:05:41,680
8-bit home computer

154
00:05:44,710 --> 00:05:43,199
baby

155
00:05:46,790 --> 00:05:44,720
that doesn't make any

156
00:05:48,790 --> 00:05:46,800
what the hell kind of reference was that

157
00:05:51,990 --> 00:05:48,800
so i think it's like they're trying to

158
00:05:55,830 --> 00:05:52,000
create an analogy they're saying we are

159
00:05:59,350 --> 00:05:55,840
like the old 1980s 8-bit home computer

160
00:06:02,150 --> 00:05:59,360
and we're like we are trying to imagine

161
00:06:04,710 --> 00:06:02,160
what it would be like to try to run

162
00:06:07,510 --> 00:06:04,720
a modern video game on the platforms we

163
00:06:09,590 --> 00:06:07,520

have and we can't we can't understand it

164

00:06:12,150 --> 00:06:09,600

we can't understand using a hundred

165

00:06:14,469 --> 00:06:12,160

gigabytes just for a game well but using

166

00:06:16,950 --> 00:06:14,479

an 8-bit computer he's mixing metaphors

167

00:06:19,029 --> 00:06:16,960

of memory and storage and memory in

168

00:06:21,749 --> 00:06:19,039

addressable storage versus now

169

00:06:23,510 --> 00:06:21,759

processing power yes exactly

170

00:06:25,510 --> 00:06:23,520

right this is like the who's who ted

171

00:06:27,029 --> 00:06:25,520

stevens it's a series of tubes it's like

172

00:06:28,710 --> 00:06:27,039

some of these analogies don't work when

173

00:06:29,590 --> 00:06:28,720

you fundamentally get it wrong to start

174

00:06:31,909 --> 00:06:29,600

with

175

00:06:33,270 --> 00:06:31,919

you know bandwidth maximum throughput

176
00:06:34,710 --> 00:06:33,280
and bandwidth are different things you

177
00:06:36,469 --> 00:06:34,720
can't just say it's tubes let's add

178
00:06:39,510 --> 00:06:36,479
another tube so this guy's saying well

179
00:06:41,029 --> 00:06:39,520
if your nintendo in 1986 had a trillion

180
00:06:42,469 --> 00:06:41,039
trillion trillion trillion trillion bits

181
00:06:43,670 --> 00:06:42,479
of memory it could run all them no it

182
00:06:44,550 --> 00:06:43,680
couldn't

183
00:06:46,070 --> 00:06:44,560
so

184
00:06:48,870 --> 00:06:46,080
these computers i'll tell you they just

185
00:06:53,270 --> 00:06:48,880
get crazier i agree alex

186
00:06:58,950 --> 00:06:56,309
my nintendo plays atari games how does

187
00:07:01,029 --> 00:06:58,960
that not work i thought it worked i

188
00:07:03,029 --> 00:07:01,039

bought a computer

189

00:07:05,990 --> 00:07:03,039

it's all compatible

190

00:07:08,150 --> 00:07:06,000

well i i uh i just think that this

191

00:07:09,350 --> 00:07:08,160

calculation that they did was uh

192

00:07:11,749 --> 00:07:09,360

they're just not thinking through i

193

00:07:13,350 --> 00:07:11,759

understand like the the exercise that

194

00:07:15,830 --> 00:07:13,360

they tried to do here and it's like oh

195

00:07:17,350 --> 00:07:15,840

my god

196

00:07:20,070 --> 00:07:17,360

this computer that we're running in is

197

00:07:21,670 --> 00:07:20,080

is completely crazy but uh yeah like

198

00:07:23,670 --> 00:07:21,680

we're talking about like active memory

199

00:07:27,430 --> 00:07:23,680

versus what's observable

200

00:07:29,510 --> 00:07:27,440

and uh i decide there's a philosophical

201
00:07:32,150 --> 00:07:29,520
element to the simulated reality that

202
00:07:33,990 --> 00:07:32,160
they're ignoring he's mixing ram and rob

203
00:07:35,510 --> 00:07:34,000
you know active storage and accessible

204
00:07:37,589 --> 00:07:35,520
memory it's just like

205
00:07:38,870 --> 00:07:37,599
and then processing power so what so i

206
00:07:39,830 --> 00:07:38,880
see there's some there are some comments

207
00:07:40,870 --> 00:07:39,840
there

208
00:07:41,990 --> 00:07:40,880
what are what are the first couple

209
00:07:43,909 --> 00:07:42,000
comments are they calling this guy out

210
00:07:45,589 --> 00:07:43,919
and being just like

211
00:07:47,830 --> 00:07:45,599
i will read the comments because i love

212
00:07:50,150 --> 00:07:47,840
comments so

213
00:07:52,309 --> 00:07:50,160

uh the uh first coming here here's my

214

00:07:54,469 --> 00:07:52,319

cynical post that contributes little to

215

00:07:55,350 --> 00:07:54,479

what i consider is an aimless thread

216

00:07:57,510 --> 00:07:55,360

based

217

00:07:58,390 --> 00:07:57,520

loosely on a superficial article that

218

00:08:00,869 --> 00:07:58,400

makes

219

00:08:02,790 --> 00:08:00,879

a barely litter attempt to narrate some

220

00:08:05,430 --> 00:08:02,800

of the irrelevant speculations about an

221

00:08:08,150 --> 00:08:05,440

ill-considered notion derived from

222

00:08:10,150 --> 00:08:08,160

multiple hypoth hypothetical concepts

223

00:08:12,950 --> 00:08:10,160

but it taps into a fundamental

224

00:08:15,110 --> 00:08:12,960

uneasiness about ourselves our fates and

225

00:08:17,510 --> 00:08:15,120

actual uh reality of our existence

226

00:08:19,110 --> 00:08:17,520

presumably this simulation

227

00:08:21,589 --> 00:08:19,120

uh were

228

00:08:24,150 --> 00:08:21,599

in is coded well enough that we can't

229

00:08:27,110 --> 00:08:24,160

ever prove or disprove it's there

230

00:08:28,629 --> 00:08:27,120

logically the aliens who designed us

231

00:08:34,230 --> 00:08:28,639

might also be

232

00:08:35,589 --> 00:08:34,240

there's someone else's computer

233

00:08:37,670 --> 00:08:35,599

okay so

234

00:08:40,630 --> 00:08:37,680

good call tom 1200 for calling out this

235

00:08:42,230 --> 00:08:40,640

guy on his on his specious and spurious

236

00:08:43,509 --> 00:08:42,240

argument to start with and then pointing

237

00:08:44,310 --> 00:08:43,519

out that it's probably much bigger than

238

00:08:47,269 --> 00:08:44,320

that

239

00:08:49,269 --> 00:08:47,279

so what uh post 20 here says uh it might

240

00:08:51,670 --> 00:08:49,279

actually it might take less memory than

241

00:08:54,310 --> 00:08:51,680

that as there is another version of the

242

00:08:56,550 --> 00:08:54,320

simulated theory where the only things

243

00:08:58,710 --> 00:08:56,560

being processed is what is being

244

00:09:00,389 --> 00:08:58,720

observed interacted with

245

00:09:04,949 --> 00:09:00,399

while the rest is just background

246

00:09:07,350 --> 00:09:04,959

stimulation for a very large and even uh

247

00:09:09,190 --> 00:09:07,360

for very large and even that

248

00:09:10,710 --> 00:09:09,200

well this is not written very well but

249

00:09:12,630 --> 00:09:10,720

that's what we're talking about

250

00:09:14,630 --> 00:09:12,640

um

251
00:09:17,190 --> 00:09:14,640
like only the observed

252
00:09:18,550 --> 00:09:17,200
universe is is being rendered at that

253
00:09:20,630 --> 00:09:18,560
particular time

254
00:09:22,389 --> 00:09:20,640
and it's not some of it's not even being

255
00:09:24,470 --> 00:09:22,399
rendered completely

256
00:09:28,870 --> 00:09:24,480
well and there might be things that are

257
00:09:32,790 --> 00:09:28,880
missing and i i brought this up like um

258
00:09:35,030 --> 00:09:32,800
like when it comes to flat versus round

259
00:09:37,190 --> 00:09:35,040
it can be rendered round that's that's

260
00:09:38,949 --> 00:09:37,200
what it's programmed to be rendered but

261
00:09:40,630 --> 00:09:38,959
you know it actually might be

262
00:09:42,550 --> 00:09:40,640
flat to a certain degree in certain

263
00:09:44,870 --> 00:09:42,560

areas depending on who's observing it

264

00:09:46,790 --> 00:09:44,880

and and where they're observing this and

265

00:09:49,110 --> 00:09:46,800

how much uh processing power is demanded

266

00:09:52,070 --> 00:09:49,120

at that point in time

267

00:09:53,350 --> 00:09:52,080

um fascinating conversation but

268

00:09:54,470 --> 00:09:53,360

what you basically just described right

269

00:09:56,389 --> 00:09:54,480

there is compression that's how

270

00:09:57,910 --> 00:09:56,399

compression works is you you eliminate

271

00:09:59,910 --> 00:09:57,920

information that's not necessary for the

272

00:10:01,670 --> 00:09:59,920

fundamental yeah transmission of set

273

00:10:04,310 --> 00:10:01,680

information reducing colors or reducing

274

00:10:05,910 --> 00:10:04,320

depth um and yeah you could do that if

275

00:10:07,829 --> 00:10:05,920

you take a photo of a three-dimensional

276

00:10:09,030 --> 00:10:07,839

space your brain fills in the gaps to

277

00:10:10,230 --> 00:10:09,040

tell you how it's three-dimensional and

278

00:10:11,509 --> 00:10:10,240

how the rest of it looks and how it was

279

00:10:12,790 --> 00:10:11,519

all interacting

280

00:10:13,910 --> 00:10:12,800

so you could do the same thing in this

281

00:10:16,150 --> 00:10:13,920

sort of thing the simulation do i need a

282

00:10:17,509 --> 00:10:16,160

simulation of venus

283

00:10:18,550 --> 00:10:17,519

if there's physically nobody on venus

284

00:10:20,470 --> 00:10:18,560

let's just start with that if there's

285

00:10:21,990 --> 00:10:20,480

nobody on venus do we need to fully

286

00:10:23,829 --> 00:10:22,000

render venus or can we just like no

287

00:10:25,350 --> 00:10:23,839

there's a freaking thing in the sky just

288

00:10:27,269 --> 00:10:25,360

put some clouds there it's easier to

289

00:10:29,190 --> 00:10:27,279

render yeah and when any probe gets in

290

00:10:31,269 --> 00:10:29,200

there you just melt it yeah just just

291

00:10:32,870 --> 00:10:31,279

put some blobs there blobs of white

292

00:10:34,949 --> 00:10:32,880

clouds we don't got to render any

293

00:10:36,870 --> 00:10:34,959

mountains if they happen to get a probe

294

00:10:38,310 --> 00:10:36,880

in there fine we'll render some dirt for

295

00:10:39,990 --> 00:10:38,320

them or some [h__h]

296

00:10:42,069 --> 00:10:40,000

but beyond that they ain't getting

297

00:10:44,150 --> 00:10:42,079

anything

298

00:10:45,269 --> 00:10:44,160

uh here's another

299

00:10:46,949 --> 00:10:45,279

article

300

00:10:49,269 --> 00:10:46,959

related to the

301

00:10:51,269 --> 00:10:49,279

uh simulated reality

302

00:10:54,550 --> 00:10:51,279

and this one's titled could our universe

303

00:10:57,509 --> 00:10:54,560

be an alien science experiment

304

00:11:01,990 --> 00:10:57,519

and this comes from uh scientific

305

00:11:04,550 --> 00:11:02,000

american oh yes the scientific american

306

00:11:08,310 --> 00:11:04,560

so we have what the scientifically the

307

00:11:09,750 --> 00:11:08,320

one and only scientific american

308

00:11:11,829 --> 00:11:09,760

so we have live science doing the

309

00:11:15,430 --> 00:11:11,839

simulated reality and we got scientific

310

00:11:17,110 --> 00:11:15,440

american uh doing the alien experiment

311

00:11:18,710 --> 00:11:17,120

um

312

00:11:20,550 --> 00:11:18,720

so and these are all coming out within

313

00:11:22,310 --> 00:11:20,560

like two to three weeks of each other so

314

00:11:25,670 --> 00:11:22,320

it's all written by the same guy i don't

315

00:11:27,030 --> 00:11:25,680

know i put i you can look it up i could

316

00:11:29,110 --> 00:11:27,040

i'll well you're getting all these

317

00:11:31,750 --> 00:11:29,120

through through an uh aggregator right i

318

00:11:33,269 --> 00:11:31,760

am an aggregator but

319

00:11:35,030 --> 00:11:33,279

i'll read this here a little bit so

320

00:11:37,829 --> 00:11:35,040

scientists have speculated over the

321

00:11:40,550 --> 00:11:37,839

possibility that our entire universe may

322

00:11:42,069 --> 00:11:40,560

have been created in a laboratory there

323

00:11:44,069 --> 00:11:42,079

is so much we don't understand about the

324

00:11:46,150 --> 00:11:44,079

universe and the nature of existence

325

00:11:48,949 --> 00:11:46,160

that even attempting to comprehend how

326

00:11:52,069 --> 00:11:48,959

anything actually exists at all

327

00:11:54,069 --> 00:11:52,079

is enough to make your head hurt

328

00:11:55,590 --> 00:11:54,079

well currently while the currently

329

00:11:58,389 --> 00:11:55,600

accepted model for the birth of the

330

00:11:59,269 --> 00:11:58,399

universe is the big bang we still don't

331

00:12:01,350 --> 00:11:59,279

know

332

00:12:03,829 --> 00:12:01,360

much of anything about

333

00:12:05,509 --> 00:12:03,839

what was around before that or what

334

00:12:06,389 --> 00:12:05,519

triggered the expansion in the first

335

00:12:08,150 --> 00:12:06,399

place

336

00:12:10,710 --> 00:12:08,160

could the universe be caught in an in

337

00:12:13,190 --> 00:12:10,720

the cycle of expansion and contraction

338

00:12:15,990 --> 00:12:13,200

is our universe one of a multitude of

339

00:12:18,470 --> 00:12:16,000

other universes in the overarching

340

00:12:20,310 --> 00:12:18,480

multiverse we just don't know

341

00:12:22,790 --> 00:12:20,320

in a recent article harvard university

342

00:12:25,910 --> 00:12:22,800

astronomer uh alvi

343

00:12:27,829 --> 00:12:25,920

loeb put forward another possibility one

344

00:12:30,230 --> 00:12:27,839

that doesn't exactly help to explain the

345

00:12:32,790 --> 00:12:30,240

nature of reality but certainly makes

346

00:12:34,710 --> 00:12:32,800

for an interesting thought exercise what

347

00:12:37,430 --> 00:12:34,720

if the universe was actually created by

348

00:12:40,629 --> 00:12:37,440

an advanced extraterrestrial uh

349

00:12:42,230 --> 00:12:40,639

civilization or beings in a laboratory

350

00:12:45,030 --> 00:12:42,240

for this to be true of course there

351
00:12:47,910 --> 00:12:45,040
would need to be some other universe of

352
00:12:51,190 --> 00:12:47,920
which our universe is a part of

353
00:12:53,190 --> 00:12:51,200
or part to which it is connected one

354
00:12:54,150 --> 00:12:53,200
which these alien scientists live in

355
00:12:57,829 --> 00:12:54,160
work

356
00:12:59,269 --> 00:12:57,839
it is also likely that if this were true

357
00:13:03,590 --> 00:12:59,279
they

358
00:13:05,430 --> 00:13:03,600
universes in the same way

359
00:13:08,150 --> 00:13:05,440
but this is all this all begs the

360
00:13:10,150 --> 00:13:08,160
question how did their universe come

361
00:13:13,190 --> 00:13:10,160
about rather than solving the question

362
00:13:15,590 --> 00:13:13,200
of the origin of our universe it simply

363
00:13:18,150 --> 00:13:15,600

uh regresses the problem and

364

00:13:19,190 --> 00:13:18,160

necessitates the even more complex

365

00:13:20,870 --> 00:13:19,200

answer

366

00:13:22,310 --> 00:13:20,880

why wouldn't they just use the same wife

367

00:13:24,069 --> 00:13:22,320

yeah if our universe is created by the

368

00:13:25,430 --> 00:13:24,079

big bang and then someone says but maybe

369

00:13:27,269 --> 00:13:25,440

our universe is a simulation inside

370

00:13:31,430 --> 00:13:27,279

another universe why isn't that one just

371

00:13:35,190 --> 00:13:32,949

in us

372

00:13:37,110 --> 00:13:35,200

it is similar to the common atheist

373

00:13:39,269 --> 00:13:37,120

argument concerning the existence of god

374

00:13:41,350 --> 00:13:39,279

if god made our universe

375

00:13:44,550 --> 00:13:41,360

who made god at the end of the day the

376

00:13:45,910 --> 00:13:44,560

same question remains unanswered

377

00:13:49,990 --> 00:13:45,920

the creature

378

00:13:51,269 --> 00:13:50,000

creature and or the goblins the goblin

379

00:13:52,550 --> 00:13:51,279

now i've been

380

00:13:54,550 --> 00:13:52,560

listening to you just want to point out

381

00:13:56,470 --> 00:13:54,560

real quick that that tv show big bang

382

00:13:58,629 --> 00:13:56,480

theory uh which i'm still proud to say

383

00:14:00,069 --> 00:13:58,639

i've never seen has ruined all of my

384

00:14:03,350 --> 00:14:00,079

searches for images related to the big

385

00:14:05,350 --> 00:14:03,360

bang yeah it's [h__\h] yes it is

386

00:14:07,750 --> 00:14:05,360

well um

387

00:14:09,269 --> 00:14:07,760

it just seems like

388

00:14:11,990 --> 00:14:09,279

they're kind of stumbling here a little

389

00:14:13,430 --> 00:14:12,000

bit i i like that they're asking these

390

00:14:15,269 --> 00:14:13,440

questions

391

00:14:17,189 --> 00:14:15,279

but and but it seems like they're

392

00:14:19,750 --> 00:14:17,199

they're really limiting

393

00:14:21,430 --> 00:14:19,760

the the scope of of their their thought

394

00:14:23,590 --> 00:14:21,440

here like if it like the previous

395

00:14:25,350 --> 00:14:23,600

article if it is a simulation and we're

396

00:14:27,030 --> 00:14:25,360

living in some sort of computer

397

00:14:29,189 --> 00:14:27,040

generated reality well then

398

00:14:31,670 --> 00:14:29,199

hypothetically there's some sort of api

399

00:14:33,509 --> 00:14:31,680

we can tap into and let's just go down

400

00:14:36,069 --> 00:14:33,519

that route like it is a simulation it's

401
00:14:39,269 --> 00:14:36,079
a very advanced simulation one which we

402
00:14:41,750 --> 00:14:39,279
all feel is real and the more you feel

403
00:14:42,870 --> 00:14:41,760
it your emotions are real you are real i

404
00:14:45,590 --> 00:14:42,880
know a lot of people don't like these

405
00:14:48,150 --> 00:14:45,600
simulated reality theory because they

406
00:14:51,110 --> 00:14:48,160
think everything is fake and it turns

407
00:14:52,949 --> 00:14:51,120
into some exercise and nihilism where

408
00:14:54,790 --> 00:14:52,959
nothing's real so i can do anything i

409
00:14:57,509 --> 00:14:54,800
want well i think the opposite approach

410
00:14:59,990 --> 00:14:57,519
where um even if it is simulated you

411
00:15:03,990 --> 00:15:00,000
feel as though it is

412
00:15:06,550 --> 00:15:04,000
real and your emotions do have a a real

413
00:15:07,269 --> 00:15:06,560

impact on your emotional well-being and

414

00:15:10,470 --> 00:15:07,279

the

415

00:15:11,430 --> 00:15:10,480

around you

416

00:15:14,870 --> 00:15:11,440

well

417

00:15:17,269 --> 00:15:14,880

if this is a a simulated

418

00:15:18,870 --> 00:15:17,279

universe inside another universe and we

419

00:15:20,949 --> 00:15:18,880

are part of that simulation

420

00:15:22,310 --> 00:15:20,959

wouldn't our simulated and created

421

00:15:23,750 --> 00:15:22,320

consciousnesses

422

00:15:25,430 --> 00:15:23,760

thus

423

00:15:27,189 --> 00:15:25,440

assume that any anything we pick up is

424

00:15:28,389 --> 00:15:27,199

real and would you know be part of that

425

00:15:29,509 --> 00:15:28,399

why why would that be different why

426
00:15:30,870 --> 00:15:29,519
would we be

427
00:15:32,629 --> 00:15:30,880
outside of the matrix if we're in the

428
00:15:34,949 --> 00:15:32,639
matrix i guess

429
00:15:38,230 --> 00:15:34,959
yeah well i think uh there are like if

430
00:15:41,110 --> 00:15:38,240
each like this universe like our section

431
00:15:43,430 --> 00:15:41,120
of the observable universe is powered by

432
00:15:44,949 --> 00:15:43,440
our own brains and like there's

433
00:15:47,269 --> 00:15:44,959
different processing powers like you can

434
00:15:48,389 --> 00:15:47,279
say like this hypothetically like our

435
00:15:50,389 --> 00:15:48,399
brain

436
00:15:52,389 --> 00:15:50,399
is part of the simulation it like this

437
00:15:54,870 --> 00:15:52,399
part of the simulation is running off

438
00:15:56,870 --> 00:15:54,880

the containers like like in our brain

439

00:15:59,749 --> 00:15:56,880

and it's fairly advanced let's just say

440

00:16:02,389 --> 00:15:59,759

it is like an i9 processor with 32

441

00:16:04,629 --> 00:16:02,399

gigabytes of ram meanwhile like little

442

00:16:06,870 --> 00:16:04,639

bugs you know they're like a raspberry

443

00:16:09,189 --> 00:16:06,880

pi you know they can do stuff and they

444

00:16:11,910 --> 00:16:09,199

can but you know it they're not

445

00:16:13,350 --> 00:16:11,920

observing as much of the universe as we

446

00:16:17,269 --> 00:16:13,360

are at one time

447

00:16:19,269 --> 00:16:17,279

and so it's like how modern-day computer

448

00:16:21,269 --> 00:16:19,279

infrastructure is deployed through

449

00:16:23,990 --> 00:16:21,279

containers and all these virtual

450

00:16:26,310 --> 00:16:24,000

environments uh ours is the same way we

451
00:16:28,310 --> 00:16:26,320
have all these different uh virtualized

452
00:16:31,189 --> 00:16:28,320
environments some with more processing

453
00:16:32,310 --> 00:16:31,199
power than others and that's exactly how

454
00:16:34,069 --> 00:16:32,320
we

455
00:16:35,749 --> 00:16:34,079
render this universe is through our

456
00:16:37,670 --> 00:16:35,759
observations

457
00:16:40,550 --> 00:16:37,680
and i think there's some sort of api

458
00:16:43,110 --> 00:16:40,560
that you can tap into by using prayer or

459
00:16:44,949 --> 00:16:43,120
ritual some people use blood sacrifice

460
00:16:46,069 --> 00:16:44,959
it's probably quick and easy dirty way

461
00:16:48,310 --> 00:16:46,079
to do it but you got to deal with the

462
00:16:49,430 --> 00:16:48,320
consequences um

463
00:16:51,189 --> 00:16:49,440

and

464

00:16:53,269 --> 00:16:51,199

then you have things like how do you

465

00:16:55,749 --> 00:16:53,279

explain paranor activity like ghosts

466

00:16:58,069 --> 00:16:55,759

maybe that's a zombie process where it

467

00:16:59,829 --> 00:16:58,079

was a process like we all are and it got

468

00:17:01,189 --> 00:16:59,839

killed off but the computer simulation

469

00:17:03,829 --> 00:17:01,199

didn't take it out so it's this

470

00:17:06,870 --> 00:17:03,839

continuing its zombie process in the

471

00:17:08,870 --> 00:17:06,880

background which we say oh my god it's a

472

00:17:10,949 --> 00:17:08,880

it's a specter it's a spirit no it's

473

00:17:12,630 --> 00:17:10,959

just a zombie process that hasn't been

474

00:17:15,189 --> 00:17:12,640

uh cleared out of the system yet you

475

00:17:17,110 --> 00:17:15,199

gotta kill that pig and it hasn't been

476
00:17:18,630 --> 00:17:17,120
killed by the main processing system the

477
00:17:21,029 --> 00:17:18,640
main process isn't that one of the

478
00:17:24,309 --> 00:17:21,039
conceits of the uh of the the world of

479
00:17:26,870 --> 00:17:25,510
there were programs that had been

480
00:17:28,470 --> 00:17:26,880
running that had been removed from the

481
00:17:30,470 --> 00:17:28,480
system but were still running and

482
00:17:31,990 --> 00:17:30,480
functionally were ghosts yeah something

483
00:17:33,270 --> 00:17:32,000
like that i don't think it's that

484
00:17:35,350 --> 00:17:33,280
far-fetched

485
00:17:36,710 --> 00:17:35,360
uh i like that they're they're

486
00:17:39,270 --> 00:17:36,720
they're touching on these things but i

487
00:17:40,230 --> 00:17:39,280
don't think they're going deep enough

488
00:17:42,470 --> 00:17:40,240

they're really just scratching the

489

00:17:44,549 --> 00:17:42,480

surface when like science talks about

490

00:17:45,750 --> 00:17:44,559

this kind of stuff or ufos they're

491

00:17:48,549 --> 00:17:45,760

really just kind of scratching the

492

00:17:50,710 --> 00:17:48,559

surface and as soon as they start to get

493

00:17:52,230 --> 00:17:50,720

to some interesting philosophical

494

00:17:53,430 --> 00:17:52,240

questions they kind of pull back a

495

00:17:55,510 --> 00:17:53,440

little bit

496

00:17:56,390 --> 00:17:55,520

and they don't they don't want to go too

497

00:17:58,830 --> 00:17:56,400

far

498

00:18:01,430 --> 00:17:58,840

um like there's like a theory like

499

00:18:03,590 --> 00:18:01,440

each black hole

500

00:18:06,710 --> 00:18:03,600

that is out there in our universe

501
00:18:08,710 --> 00:18:06,720
actually kicks off a new universe like

502
00:18:10,230 --> 00:18:08,720
if you could go through and like go

503
00:18:13,029 --> 00:18:10,240
through that black hole and live you

504
00:18:14,070 --> 00:18:13,039
would wind up in a new universe that's

505
00:18:15,430 --> 00:18:14,080
the theory i don't know i don't know how

506
00:18:17,350 --> 00:18:15,440
you can prove that maybe through some

507
00:18:18,710 --> 00:18:17,360
kind of mathematical

508
00:18:19,990 --> 00:18:18,720
theorem or

509
00:18:20,870 --> 00:18:20,000
something i don't know but i mean that's

510
00:18:22,950 --> 00:18:20,880
one thing you're just going through a

511
00:18:24,310 --> 00:18:22,960
black hole just you just go in there and

512
00:18:26,390 --> 00:18:24,320
just find out

513
00:18:29,590 --> 00:18:26,400

just just yell back what you saw yeah

514

00:18:32,270 --> 00:18:29,600

give us an email at our big dumb month

515

00:18:35,029 --> 00:18:32,280

gmail.com check out

516

00:18:36,230 --> 00:18:35,039

obdmport.com for all the social media

517

00:18:40,070 --> 00:18:36,240

and donation links