

JUNE 24, 2021

10:00 PM EST | 08:00 PM MST | 07:00 PM PST

RIZWAN VIRK

ARTIFICIAL INTELLIGENCE

F2B

with Jimmy Church



#F2B JIMMYCHURCHRADIO.COM

1
00:01:47,499 --> 00:01:41,820

[Music]

2
00:01:51,730 --> 00:01:47,509

this hope radiates for the masses

3
00:01:53,380 --> 00:01:51,740

Atlanta between July 3 1947 beyond the

4
00:01:55,959 --> 00:01:53,390

airport who has announced on applying

5
00:01:59,139 --> 00:01:55,969

the - found and is now in the possession

6
00:02:03,190 --> 00:01:59,149

of the RA the game is rigged changed the

7
00:02:06,429 --> 00:02:03,200

game changer I occasionally think how

8
00:02:10,210 --> 00:02:06,439

quickly our differences worldwide would

9
00:02:12,540 --> 00:02:10,220

vanish if we were facing an alien threat

10
00:02:18,000 --> 00:02:12,550

from outside his way

11
00:02:23,280 --> 00:02:20,460

fade to black with your host Jimmy

12
00:02:29,839 --> 00:02:23,290

church on the game-changer radio network

13
00:02:29,849 --> 00:02:39,460

I need your help to get to the year 1980

14

00:02:47,460 --> 00:02:42,319

black with jimmy touch on the game

15

00:02:55,800 --> 00:02:52,690

[Music]

16

00:02:59,250 --> 00:02:57,020

fade to black

17

00:03:03,540 --> 00:02:59,260

[Music]

18

00:03:10,750 --> 00:03:05,840

for

19

00:03:13,170 --> 00:03:10,760

the masses

20

00:03:16,350 --> 00:03:13,180

sigh man

21

00:03:19,980 --> 00:03:16,360

how you doing how you doing today's

22

00:03:22,470 --> 00:03:19,990

Wednesday June 24 2020

23

00:03:27,130 --> 00:03:22,480

[Music]

24

00:03:30,009 --> 00:03:27,140

176 days into the new year only 190 days

25

00:03:31,270 --> 00:03:30,019

left we are live from a bunker somewhere

26

00:03:33,190 --> 00:03:31,280

in the middle of beautiful downtown

27

00:03:34,750 --> 00:03:33,200

Burbank California and I would like to

28

00:03:41,309 --> 00:03:34,760

welcome everybody listening all around

29

00:03:45,780 --> 00:03:43,979

hither and thither to and fro back and

30

00:03:49,910 --> 00:03:45,790

forth up and down east and west north

31

00:03:52,580 --> 00:03:49,920

and south far and near

32

00:03:55,400 --> 00:03:52,590

this is faith black 4kj CR the

33

00:03:59,660 --> 00:03:55,410

game-changer network and kg are a the

34

00:04:02,010 --> 00:03:59,670

planets a mural chibi Church what is

35

00:04:08,300 --> 00:04:02,020

crackin everybody

36

00:04:14,490 --> 00:04:08,310

how you doing are you doing all right

37

00:04:17,349 --> 00:04:14,500

tonight right here right here on this

38

00:04:23,050 --> 00:04:21,580

Riz burg Risberg is here we're going to

39

00:04:26,850 --> 00:04:23,060

be talking about artificial intelligence

40

00:04:32,290 --> 00:04:26,860

tonight the good the bad and the ugly

41

00:04:34,360 --> 00:04:32,300

Gregg Housh Gregg Housh had a real

42

00:04:38,230 --> 00:04:34,370

family emergency right before showtime

43

00:04:42,219 --> 00:04:38,240

tonight that's right

44

00:04:43,719 --> 00:04:42,229

right before showtime so our thoughts

45

00:04:46,209 --> 00:04:43,729

and concerns and everything like that

46

00:04:50,769 --> 00:04:46,219

that we need to say right now go out to

47

00:04:54,700 --> 00:04:50,779

Greg and but in the situation like that

48

00:04:58,689 --> 00:04:54,710

who do you call you call the smartest

49

00:05:04,709 --> 00:04:58,699

man in all of computer dumb that's what

50

00:05:07,269 --> 00:05:04,719

you do you call em I t's rizz Burke yep

51

00:05:10,240 --> 00:05:07,279

yeah yep

52

00:05:13,600 --> 00:05:10,250

and he actually picked up the phone rizz

53

00:05:15,760 --> 00:05:13,610

Burke and so we got to thank rizz you

54

00:05:20,230 --> 00:05:15,770

know he's a great friend of the show and

55

00:05:21,640 --> 00:05:20,240

to have somebody like rizz involved with

56

00:05:24,519 --> 00:05:21,650

fade to black and a lot of different

57

00:05:26,680 --> 00:05:24,529

levels over the years it's an honor and

58

00:05:30,339 --> 00:05:26,690

a privilege and I want to thank R is for

59

00:05:32,200 --> 00:05:30,349

stepping in which is not only going to

60

00:05:36,119 --> 00:05:32,210

make sure that this is a dynamic show

61

00:05:38,829 --> 00:05:36,129

covering artificial intelligence but

62

00:05:42,040 --> 00:05:38,839

making sure that that fade to black only

63

00:05:45,909 --> 00:05:42,050

has the very best the very brightest on

64

00:05:49,050 --> 00:05:45,919

this show so think here is Greg I will

65

00:05:51,329 --> 00:05:49,060

talk to you in a couple of days brother

66

00:05:54,659 --> 00:05:51,339

not sure if you're listening right now

67

00:05:58,179 --> 00:05:54,669

but there you go all right all right

68

00:06:02,649 --> 00:05:58,189

here we go follow me on Twitter at Jay

69

00:06:05,260 --> 00:06:02,659

Church radio at Jay tert radio that's

70

00:06:09,869 --> 00:06:05,270

what you do you start off your social

71

00:06:14,920 --> 00:06:09,879

media connection to me and this program

72

00:06:17,709 --> 00:06:14,930

with Twitter ad Jay Church radio all

73

00:06:20,499 --> 00:06:17,719

right hashtag F to B is the sandbox that

74

00:06:22,329 --> 00:06:20,509

is Twitter okay and I hang out there all

75

00:06:23,950 --> 00:06:22,339

night it's right in front of me I

76

00:06:26,379 --> 00:06:23,960

mention it all the time because it's

77

00:06:28,540 --> 00:06:26,389

true it's right here right in front of

78

00:06:30,190 --> 00:06:28,550

me latest tweet and they just come

79

00:06:34,060 --> 00:06:30,200

popping in right there's Jimmy

80

00:06:36,700 --> 00:06:34,070

there's Tampa there's a bloke there's

81

00:06:40,350 --> 00:06:36,710

meow you want to know what Meowth Sean

82

00:06:45,520 --> 00:06:40,360

from NorCal troublemaker right there

83

00:06:51,270 --> 00:06:45,530

Zhu Roo is that Ju are you that must be

84

00:06:58,810 --> 00:06:51,280

Julie in Russia Oh judy judy in russia

85

00:07:01,300 --> 00:06:58,820

yeah Karen in here Cory a serenity come

86

00:07:04,180 --> 00:07:01,310

and hang out with all of us the fader

87

00:07:05,890 --> 00:07:04,190

not the crew over at hashtag if to be

88

00:07:09,400 --> 00:07:05,900

and of course everything is going on

89

00:07:14,130 --> 00:07:09,410

right now on YouTube hello Matt this is

90

00:07:17,820 --> 00:07:14,140

a this is this is this is not good

91

00:07:20,890 --> 00:07:17,830

this should be that's not good that's

92

00:07:27,700 --> 00:07:20,900

not good if I've got a sinking chair I

93

00:07:29,620 --> 00:07:27,710

can deal with that a sinking oh man

94

00:07:32,890 --> 00:07:29,630

it's always something see this is the

95

00:07:34,420 --> 00:07:32,900

thing just like your car right you drive

96

00:07:37,180 --> 00:07:34,430

your car all the time you ride your bike

97

00:07:41,290 --> 00:07:37,190

all the time things that you do all the

98

00:07:43,900 --> 00:07:41,300

time with things they wear out you know

99

00:07:45,700 --> 00:07:43,910

we do a live show nearly every night of

100

00:07:48,280 --> 00:07:45,710

the week and when we're not doing a show

101
00:07:53,200 --> 00:07:48,290
we're working this stuff gets worked out

102
00:07:57,730 --> 00:07:53,210
man worked out so it might be time for a

103
00:08:00,970 --> 00:07:57,740
new mic yeah look at man man it was all

104
00:08:13,360 --> 00:08:00,980
stiff now it's not stiff is it this is

105
00:08:16,090 --> 00:08:13,370
it this that's oh never mind never mind

106
00:08:19,180 --> 00:08:16,100
see you guys just saw that on the bunker

107
00:08:22,540 --> 00:08:19,190
cam nevermind email is Jimmy at Jimmy

108
00:08:24,160 --> 00:08:22,550
Church radio calm hashtag f2b Q is fade

109
00:08:26,170 --> 00:08:24,170
to black questions hello to everybody on

110
00:08:28,330 --> 00:08:26,180
Facebook hello to everybody on the

111
00:08:31,230 --> 00:08:28,340
Twitter feed hello to everybody at

112
00:08:32,620 --> 00:08:31,240
YouTube of course talk stream live

113
00:08:39,460 --> 00:08:32,630

alright

114

00:08:41,080 --> 00:08:39,470

we've got a great show in front of us

115

00:08:43,199 --> 00:08:41,090

tonight I want you to get your immune

116

00:08:48,030 --> 00:08:43,209

system boosted visit get the tea

117

00:08:51,030 --> 00:08:48,040

komm promo code fader f ad er you will

118

00:08:53,069 --> 00:08:51,040

get free shipping on all orders over \$50

119

00:08:56,220 --> 00:08:53,079

then there is forbidden knowledge dot TV

120

00:08:58,889 --> 00:08:56,230

Billy Carson's new internet TV network

121

00:09:01,710 --> 00:08:58,899

go and visit right now get registered

122

00:09:04,230 --> 00:09:01,720

three day three day free trial

123

00:09:06,090 --> 00:09:04,240

membership and of course River moon

124

00:09:08,660 --> 00:09:06,100

coffee the best coffee in the world

125

00:09:11,999 --> 00:09:08,670

there's no question about that it is the

126

00:09:12,869 --> 00:09:12,009

finest coffee in the world get your very

127

00:09:15,900 --> 00:09:12,879

own right now

128

00:09:18,509 --> 00:09:15,910

visit their Amazon store or the web site

129

00:09:20,970 --> 00:09:18,519

and the way the websites

130

00:09:22,619 --> 00:09:20,980

yeah the websites the banners are over

131

00:09:25,290 --> 00:09:22,629

at Jimmy Church radio calm got lots of

132

00:09:30,889 --> 00:09:25,300

breaking news lots of breaking news

133

00:09:35,369 --> 00:09:30,899

because last month it was murder Hornets

134

00:09:39,059 --> 00:09:35,379

remember that the murder Hornets those

135

00:09:45,480 --> 00:09:39,069

are no joke well today it's the Saharan

136

00:09:48,629 --> 00:09:45,490

dust hurricane the current Saharan dust

137

00:09:50,400 --> 00:09:48,639

episode is marching across the Atlantic

138

00:09:54,239 --> 00:09:50,410

Ocean and it's going to be leading to

139

00:09:57,539 --> 00:09:54,249

the worst dust storm in decades over the

140

00:10:00,629 --> 00:09:57,549

weekend the Saharan dust moved into the

141

00:10:03,269 --> 00:10:00,639

Caribbean by Monday it had changed the

142

00:10:08,369 --> 00:10:03,279

tropical blue skies into a hazy brown

143

00:10:11,639 --> 00:10:08,379

gray color yesterday no today it was a

144

00:10:14,400 --> 00:10:11,649

sunset enhancing blue sky limiting

145

00:10:18,780 --> 00:10:14,410

tropical threat dust plume that

146

00:10:21,869 --> 00:10:18,790

continues its 5000 mile journey towards

147

00:10:25,199 --> 00:10:21,879

the United States aerosols measured in

148

00:10:28,769 --> 00:10:25,209

PM 10 at the May albrecht eros research

149

00:10:32,929 --> 00:10:28,779

station in Puerto Rico have reached the

150

00:10:35,869 --> 00:10:32,939

levels they have never seen before ever

151
00:10:40,019 --> 00:10:35,879
records at the station go back 15 years

152
00:10:42,569 --> 00:10:40,029
the dust layer is so thick you can see

153
00:10:44,309 --> 00:10:42,579
it on weather satellites astronauts have

154
00:10:47,220 --> 00:10:44,319
also gotten a pretty good view of it

155
00:10:49,379 --> 00:10:47,230
posting pictures all over Twitter from

156
00:10:52,980 --> 00:10:49,389
the International Space Station

157
00:10:56,820 --> 00:10:52,990
Thursday morning that's tomorrow

158
00:10:59,370 --> 00:10:56,830
people in Brownsville and Houston Texas

159
00:11:02,040 --> 00:10:59,380
to wake up to a beautiful sunrise and a

160
00:11:04,850 --> 00:11:02,050
hazy er than normal sky what about the

161
00:11:07,530 --> 00:11:04,860
dust storm we're gonna find out right

162
00:11:10,680 --> 00:11:07,540
rumor has it there's murder Hornets in

163
00:11:13,350 --> 00:11:10,690

the cloud forecast models showed thicker

164

00:11:17,370 --> 00:11:13,360

concentration of blanketing most of

165

00:11:23,550 --> 00:11:17,380

Central America and Mexico also starting

166

00:11:26,490 --> 00:11:23,560

tomorrow well it happened I got a first

167

00:11:28,650 --> 00:11:26,500

timer for you here the American Civil

168

00:11:30,630 --> 00:11:28,660

Liberties Union has filed an

169

00:11:32,820 --> 00:11:30,640

administrative complaint with the

170

00:11:34,980 --> 00:11:32,830

Detroit's Police Department over what

171

00:11:37,830 --> 00:11:34,990

advaiti organizations

172

00:11:42,420 --> 00:11:37,840

claim that it's the country's first

173

00:11:45,660 --> 00:11:42,430

known wrongful arrest involving facial

174

00:11:48,210 --> 00:11:45,670

recognition and technology according to

175

00:11:50,490 --> 00:11:48,220

the complaint Robert Williams was

176

00:11:53,700 --> 00:11:50,500

pulling into the driveway of his home in

177

00:11:57,060 --> 00:11:53,710

Farmington Hills Michigan this happened

178

00:11:59,850 --> 00:11:57,070

on a night back in January when a police

179

00:12:03,150 --> 00:11:59,860

vehicle suddenly drove up blocking him

180

00:12:04,860 --> 00:12:03,160

in officers lucked out place Williams

181

00:12:07,110 --> 00:12:04,870

under her arrest all of this in front of

182

00:12:11,160 --> 00:12:07,120

his family by the way and whisk him away

183

00:12:13,890 --> 00:12:11,170

to a detention center Detroit police

184

00:12:16,950 --> 00:12:13,900

believed Williams was responsible for

185

00:12:20,760 --> 00:12:16,960

stealing several watches from a local

186

00:12:26,490 --> 00:12:20,770

watch store but it turns out that the

187

00:12:30,360 --> 00:12:26,500

police were long that's right my cousin

188

00:12:33,840 --> 00:12:30,370

Vinnie the DPD used facial recognition

189

00:12:36,780 --> 00:12:33,850

software from dataworks plus and matched

190

00:12:40,370 --> 00:12:36,790

to a picture of Williams in their

191

00:12:44,720 --> 00:12:40,380

database which matched a security video

192

00:12:50,520 --> 00:12:44,730

from the store right there you go boom

193

00:12:52,470 --> 00:12:50,530

no investigation a positive ID right

194

00:12:54,630 --> 00:12:52,480

Williams was subsequently arrested

195

00:12:56,850 --> 00:12:54,640

though he was released after an

196

00:12:59,550 --> 00:12:56,860

interrogation during which as the

197

00:13:01,920 --> 00:12:59,560

complaint says it became clear that his

198

00:13:04,920 --> 00:13:01,930

arrest was based on erroneous facial

199

00:13:07,740 --> 00:13:04,930

recognition identification that's right

200

00:13:08,850 --> 00:13:07,750

it's not known how many local police

201
00:13:09,890 --> 00:13:08,860
departments use facial recognition

202
00:13:12,500 --> 00:13:09,900
system

203
00:13:16,100 --> 00:13:12,510
across the country but there are few

204
00:13:19,060 --> 00:13:16,110
rules right now governing how and where

205
00:13:24,490 --> 00:13:19,070
it can be deployed there's no federal

206
00:13:29,840 --> 00:13:24,500
regulations there's no laws there is not

207
00:13:32,740 --> 00:13:29,850
well the Senate Intelligence Committee

208
00:13:35,030 --> 00:13:32,750
has voted to require US intelligence

209
00:13:37,580 --> 00:13:35,040
agencies and the Defense Department to

210
00:13:41,540 --> 00:13:37,590
compile a detailed public analysis of

211
00:13:45,170 --> 00:13:41,550
all data collected on unidentified

212
00:13:46,940 --> 00:13:45,180
aerial phenomena that's right the

213
00:13:49,820 --> 00:13:46,950

provision contained in the annual

214

00:13:51,710 --> 00:13:49,830

intelligence authorization bill which

215

00:13:54,290 --> 00:13:51,720

still needs to be adopted by the way by

216

00:13:57,500 --> 00:13:54,300

the full Senate sets up a public debate

217

00:13:59,810 --> 00:13:57,510

on Capitol Hill and they want to know

218

00:14:04,150 --> 00:13:59,820

how extensively the government has been

219

00:14:11,210 --> 00:14:04,160

tracking high performance aircraft right

220

00:14:14,540 --> 00:14:11,220

you AP's now and i'm not sure if anybody

221

00:14:18,560 --> 00:14:14,550

on the hill is looking at any of this as

222

00:14:20,180 --> 00:14:18,570

an ET issue or anything off-planet the

223

00:14:21,950 --> 00:14:20,190

wording of everything says it's a

224

00:14:24,500 --> 00:14:21,960

concern with the possibility of another

225

00:14:27,800 --> 00:14:24,510

country having technology that we don't

226

00:14:30,320 --> 00:14:27,810

know about but of course there are those

227

00:14:33,550 --> 00:14:30,330

out there and there's gonna be

228

00:14:38,480 --> 00:14:33,560

journalists there's gonna be something

229

00:14:40,220 --> 00:14:38,490

New York Times you know and somebody out

230

00:14:45,020 --> 00:14:40,230

there is gonna start saying from the UFO

231

00:14:46,520 --> 00:14:45,030

community that this is a UFO issue and

232

00:14:49,880 --> 00:14:46,530

try to make it something that it isn't

233

00:14:53,030 --> 00:14:49,890

which is also fun by the way I dig it

234

00:14:56,030 --> 00:14:53,040

and I get it so there you go

235

00:14:58,460 --> 00:14:56,040

is it furthering the UFO issue not on

236

00:15:01,340 --> 00:14:58,470

the hill not in Washington it's not a

237

00:15:05,420 --> 00:15:01,350

UFO issue for them it's not it's a

238

00:15:08,810 --> 00:15:05,430

military issue our community is making

239

00:15:09,320 --> 00:15:08,820

it a UFO issue now I'm gonna close with

240

00:15:15,530 --> 00:15:09,330

this

241

00:15:17,870 --> 00:15:15,540

it's a sad day the segue the segue

242

00:15:22,990 --> 00:15:17,880

personal transport and there was known

243

00:15:26,889 --> 00:15:23,000

as the Segway PT will officially

244

00:15:29,470 --> 00:15:26,899

to an end this summer china-based

245

00:15:33,189 --> 00:15:29,480

ninebot which acquired segway back in

246

00:15:38,429 --> 00:15:33,199

2015 will finally halt production of the

247

00:15:41,319 --> 00:15:38,439

PT on July 15th 21 staffers still left

248

00:15:44,499 --> 00:15:41,329

will be laid off at its Bedford New

249

00:15:47,110 --> 00:15:44,509

Hampshire plant the Segway PT was

250

00:15:50,410 --> 00:15:47,120

finally revealed on December 30 2001 a

251
00:15:52,480 --> 00:15:50,420
Good Morning America inventor Dean Kaman

252
00:15:57,550 --> 00:15:52,490
and if you remember if you're old enough

253
00:16:02,220 --> 00:15:57,560
to remember back in 2000 it was right

254
00:16:06,040 --> 00:16:02,230
around 2000 Dean came and started this

255
00:16:10,540 --> 00:16:06,050
very secretive conversation and and

256
00:16:14,079 --> 00:16:10,550
leakage of the most important invention

257
00:16:16,689 --> 00:16:14,089
in the history of the world and people

258
00:16:21,210 --> 00:16:16,699
were thinking it was like a flying car

259
00:16:25,389 --> 00:16:21,220
and anti-gravity Parrish shoes you know

260
00:16:28,410 --> 00:16:25,399
something something insane and he hyped

261
00:16:32,429 --> 00:16:28,420
it up pretty good raised a lot of cash

262
00:16:35,319 --> 00:16:32,439
well it turned out to be the Segway and

263
00:16:39,160 --> 00:16:35,329

he said that urban transportation and

264

00:16:41,710 --> 00:16:39,170

its revolution was coming and cars would

265

00:16:43,900 --> 00:16:41,720

be obsolete and we'd they just allowed

266

00:16:45,970 --> 00:16:43,910

your imagination to run wild well it

267

00:16:50,670 --> 00:16:45,980

turned out to be the Segway the

268

00:16:55,119 --> 00:16:50,680

revolution lasted almost 19 years

269

00:16:57,549 --> 00:16:55,129

unbelievable he'd have a funeral yeah

270

00:16:59,530 --> 00:16:57,559

the Starworks artificial intelligence

271

00:17:02,679 --> 00:16:59,540

conference in Laughlin Nevada is going

272

00:17:04,600 --> 00:17:02,689

down November 5th through the 8th wants

273

00:17:06,549 --> 00:17:04,610

you to go to Starworks usa.com for

274

00:17:09,909 --> 00:17:06,559

tickets and info we're gonna be having

275

00:17:13,510 --> 00:17:09,919

to sky watches one on Thursday the fifth

276

00:17:16,809 --> 00:17:13,520

one on Friday the 6th we're gonna have a

277

00:17:17,949 --> 00:17:16,819

special guest and I'm gonna hose so you

278

00:17:19,720 --> 00:17:17,959

want to go there for that we're gonna

279

00:17:22,510 --> 00:17:19,730

have this at a special indigenous

280

00:17:25,149 --> 00:17:22,520

petroglyph site it's gonna be awesome so

281

00:17:26,949 --> 00:17:25,159

that's part of it James Fox is gonna be

282

00:17:28,090 --> 00:17:26,959

there with his movie the phenomenon Paul

283

00:17:30,310 --> 00:17:28,100

Heinrich is gonna be there Grant

284

00:17:31,840 --> 00:17:30,320

Cameron's gonna be there Alan Stillman I

285

00:17:33,610 --> 00:17:31,850

cannot wait for that it's going to be

286

00:17:36,520 --> 00:17:33,620

there Sid Goldberg's going to be there

287

00:17:40,360 --> 00:17:36,530

causing trouble and another dozen

288

00:17:43,540 --> 00:17:40,370

speakers alright Sixto Paz is gonna be

289

00:17:46,330 --> 00:17:43,550

witness and one of the sky watches you

290

00:17:48,880 --> 00:17:46,340

know the action is going to be going

291

00:17:53,130 --> 00:17:48,890

down in Laughlin Nevada get your tickets

292

00:17:56,620 --> 00:17:53,140

and info right now at Starworks usa.com

293

00:17:59,650 --> 00:17:56,630

the other big event of the year okay

294

00:18:03,420 --> 00:17:59,660

the biggest this is the biggest right

295

00:18:06,910 --> 00:18:03,430

it's the mass meditation disclosure fest

296

00:18:11,260 --> 00:18:06,920

October 10th Saturday one-day event

297

00:18:16,450 --> 00:18:11,270

20,000 people totally free stages music

298

00:18:20,950 --> 00:18:16,460

art yoga meditation speaking great food

299

00:18:22,420 --> 00:18:20,960

lots of sage burning you're gonna want

300

00:18:25,480 --> 00:18:22,430

to come and hang out man bring the

301

00:18:27,550 --> 00:18:25,490

family it's absolutely amazing at the

302

00:18:28,720 --> 00:18:27,560

historic Los Angeles Park in downtown

303

00:18:32,410 --> 00:18:28,730

Los Angeles

304

00:18:33,910 --> 00:18:32,420

please go visit disclosure fest org for

305

00:18:37,180 --> 00:18:33,920

all of your information you can also

306

00:18:40,210 --> 00:18:37,190

donate to all of the initiatives that

307

00:18:42,010 --> 00:18:40,220

are part of disclosure fest let's get

308

00:18:47,590 --> 00:18:42,020

the show crackin happy birthday to today

309

00:18:51,240 --> 00:18:47,600

Jeff Beck is 76 best guitar player in

310

00:18:55,360 --> 00:18:51,250

the world that's right Jeff Beck today

311

00:18:59,380 --> 00:18:55,370

76 years old Mick Fleetwood still doing

312

00:19:01,000 --> 00:18:59,390

it Mick Fleetwood today is 73 I believe

313

00:19:04,600 --> 00:19:01,010

he's in the Guinness Book of World

314

00:19:07,150 --> 00:19:04,610

Records as the world's tallest drummer

315

00:19:10,480 --> 00:19:07,160

that's ever been in Fleetwood Mac I

316

00:19:15,760 --> 00:19:10,490

believe that's a fact Rammstein

317

00:19:17,440 --> 00:19:15,770

guitarist Richard crucify today 53 years

318

00:19:22,930 --> 00:19:17,450

old unbelievable

319

00:19:26,980 --> 00:19:22,940

man great guitar player good guy - all

320

00:19:30,550 --> 00:19:26,990

right I'm the same history OTD 1997 US

321

00:19:33,130 --> 00:19:30,560

Air Force officials release a 231 page

322

00:19:37,630 --> 00:19:33,140

report dismissing long-standing claims

323

00:19:39,160 --> 00:19:37,640

of an alien spacecraft that crashed in

324

00:19:42,820 --> 00:19:39,170

Roswell New Mexico

325

00:19:46,510 --> 00:19:42,830

almost exactly 50 years earlier

326

00:19:48,900 --> 00:19:46,520

here's your fader fact especially

327

00:19:49,960 --> 00:19:48,910

tonight when we're talking about

328

00:19:52,990 --> 00:19:49,970

artifice

329

00:19:54,540 --> 00:19:53,000

intelligence and we you know this is for

330

00:20:00,160 --> 00:19:54,550

you Gregg Housh if you're out there

331

00:20:02,860 --> 00:20:00,170

because hacker Rafael gray posted a

332

00:20:06,370 --> 00:20:02,870

stolen data of over six and a half

333

00:20:09,730 --> 00:20:06,380

thousand credit cards and said that law

334

00:20:12,550 --> 00:20:09,740

enforcement was too incompetent they

335

00:20:14,410 --> 00:20:12,560

were a bunch of doofuses and they would

336

00:20:18,940 --> 00:20:14,420

never be able to stop him

337

00:20:21,790 --> 00:20:18,950

well then came hacker Chris Davis who

338

00:20:24,910 --> 00:20:21,800

saw the post and wasn't happy about it

339

00:20:29,200 --> 00:20:24,920

and didn't think it was cool so he

340

00:20:36,250 --> 00:20:29,210

hacked Gray's information and informed

341

00:20:39,280 --> 00:20:36,260

the FBI gray was arrested and that is

342

00:20:41,440 --> 00:20:39,290

your fader fact tonight very special

343

00:20:43,270 --> 00:20:41,450

guest rizz Burke is here we're talking

344

00:20:46,180 --> 00:20:43,280

about artificial intelligence tonight

345

00:20:47,410 --> 00:20:46,190

the good the bad and the ugly rizz is

346

00:20:49,960 --> 00:20:47,420

one of the smartest people that I know

347

00:20:51,820 --> 00:20:49,970

this conversation is gonna go in a lot

348

00:20:54,550 --> 00:20:51,830

of different directions I look forward

349

00:20:55,840 --> 00:20:54,560

to it rizz burg will be with us at the

350

00:20:58,090 --> 00:20:55,850

bottom of the hour tomorrow night is

351

00:21:00,730 --> 00:20:58,100

Fator night with open lines all night

352

00:21:10,060 --> 00:21:00,740

long now let me hit this River moon

353

00:21:10,810 --> 00:21:10,070

coffee River moon coffee dot-com tonight

354

00:21:13,180 --> 00:21:10,820

we're going to be talking about

355

00:21:15,940 --> 00:21:13,190

artificial intelligence with R is Burke

356

00:21:18,520 --> 00:21:15,950

and we're probably gonna go pretty deep

357

00:21:20,620 --> 00:21:18,530

at times with the technical sides of it

358

00:21:23,650 --> 00:21:20,630

and we'll of course talk about

359

00:21:25,330 --> 00:21:23,660

consciousness and AI but there are a

360

00:21:28,180 --> 00:21:25,340

couple of things that we probably won't

361

00:21:30,370 --> 00:21:28,190

get to get into the conversation so

362

00:21:33,370 --> 00:21:30,380

won't want to make sure that it gets

363

00:21:36,070 --> 00:21:33,380

discussed and one of those things I used

364

00:21:38,260 --> 00:21:36,080

to ask I used to do this a lot with

365

00:21:41,230 --> 00:21:38,270

guests in the past was this I would ask

366

00:21:43,390 --> 00:21:41,240

him hey if you could upload yourself

367

00:21:47,920 --> 00:21:43,400

onto a hard drive and live in the world

368

00:21:49,900 --> 00:21:47,930

of Tron would you do it right you've

369

00:21:54,610 --> 00:21:49,910

heard me ask that question probably a

370

00:21:57,700 --> 00:21:54,620

hundred times now on the surface this is

371

00:22:00,520 --> 00:21:57,710

an honest question and I'm certainly not

372

00:22:02,140 --> 00:22:00,530

the first to ask someone this it happens

373

00:22:04,110 --> 00:22:02,150

all the time and I hear it often in

374

00:22:06,180 --> 00:22:04,120

different discussions and interviews

375

00:22:10,110 --> 00:22:06,190

it's a subject with a lot of engineers

376
00:22:12,570 --> 00:22:10,120
and scientists I of course have thought

377
00:22:14,370 --> 00:22:12,580
about it a lot over the years now I've

378
00:22:16,139 --> 00:22:14,380
watched the original version of Tron

379
00:22:19,560 --> 00:22:16,149
countless times I can't even tell you

380
00:22:22,379 --> 00:22:19,570
how many times I've watched it this year

381
00:22:24,029 --> 00:22:22,389
I even got the video game back in the

382
00:22:26,190 --> 00:22:24,039
day not the old one like the

383
00:22:29,460 --> 00:22:26,200
second-generation version came out

384
00:22:31,049 --> 00:22:29,470
around 2000 and it was an excellent game

385
00:22:31,680 --> 00:22:31,059
and I played the crap out of it it was

386
00:22:34,700 --> 00:22:31,690
awesome

387
00:22:38,430 --> 00:22:34,710
I really dreamed about living as a

388
00:22:43,169 --> 00:22:38,440

program now the more research that I did

389

00:22:46,680 --> 00:22:43,179

the Tron fantasy is kind of faded away

390

00:22:49,019 --> 00:22:46,690

I really thought at some point that it

391

00:22:50,600 --> 00:22:49,029

was possible computers are faster

392

00:22:53,360 --> 00:22:50,610

today's hard drives are ginormous

393

00:22:56,759 --> 00:22:53,370

software is better or more complex

394

00:22:59,639 --> 00:22:56,769

artificial reality is nearly perfect and

395

00:23:03,029 --> 00:22:59,649

character generation in gaming has gone

396

00:23:09,259 --> 00:23:03,039

to a whole new level of realism the

397

00:23:13,200 --> 00:23:09,269

stage is set right let's go to Tron now

398

00:23:14,490 --> 00:23:13,210

to be very clear we will one day perhaps

399

00:23:17,100 --> 00:23:14,500

very soon

400

00:23:19,620 --> 00:23:17,110

we will be uploading entire memories

401
00:23:21,899 --> 00:23:19,630
onto a hard drive this is a goal set by

402
00:23:23,730 --> 00:23:21,909
countless engineers scientists companies

403
00:23:25,259 --> 00:23:23,740
and governments all around the world the

404
00:23:30,360 --> 00:23:25,269
race is on

405
00:23:32,310 --> 00:23:30,370
just ask DARPA ask rizz but there are

406
00:23:34,019 --> 00:23:32,320
two fundamental points that often get

407
00:23:37,019 --> 00:23:34,029
overlooked when this research is

408
00:23:40,320 --> 00:23:37,029
discussed and first if the entire

409
00:23:43,680 --> 00:23:40,330
content of an individual's brain is

410
00:23:48,629 --> 00:23:43,690
uploaded onto a drive what happens to

411
00:23:51,480 --> 00:23:48,639
consciousness your soul will this be

412
00:23:53,310 --> 00:23:51,490
carried forward does that transfer right

413
00:23:55,110 --> 00:23:53,320

does that come out to plug in the back

414

00:23:59,399 --> 00:23:55,120

of your head does that make it to the

415

00:24:02,370 --> 00:23:59,409

harddrive right right now of course we

416

00:24:04,710 --> 00:24:02,380

don't know I'm sure that DARPA Elon Musk

417

00:24:06,840 --> 00:24:04,720

and others have gotten pretty far with a

418

00:24:08,460 --> 00:24:06,850

workable interface but their results in

419

00:24:12,360 --> 00:24:08,470

current state of research her tightly

420

00:24:15,269 --> 00:24:12,370

held secrets the second point one that

421

00:24:16,840 --> 00:24:15,279

nobody talks about because it's totally

422

00:24:19,880 --> 00:24:16,850

a buzzkill

423

00:24:22,700 --> 00:24:19,890

is that even if you could or would

424

00:24:24,799 --> 00:24:22,710

upload your mind to a drive and

425

00:24:28,820 --> 00:24:24,809

everything was successful including your

426
00:24:32,630 --> 00:24:28,830
soul you would never share the

427
00:24:34,700 --> 00:24:32,640
experience you would be sitting there in

428
00:24:37,940 --> 00:24:34,710
your chair but the interface plugged in

429
00:24:40,640 --> 00:24:37,950
on the back of your head and at the

430
00:24:45,080 --> 00:24:40,650
instant the upload is complete right the

431
00:24:51,470 --> 00:24:45,090
meter fills out done upload complete the

432
00:24:53,720 --> 00:24:51,480
new you is off to the races alone you

433
00:25:00,200 --> 00:24:53,730
would not be walking around in the world

434
00:25:04,600 --> 00:25:00,210
of Tron it's someone else trying to

435
00:25:07,730 --> 00:25:04,610
solve this issue it gets very complex

436
00:25:09,830 --> 00:25:07,740
the first thing to consider is that

437
00:25:12,860 --> 00:25:09,840
maybe your consciousness transfers maybe

438
00:25:16,340 --> 00:25:12,870

you could be in two places at once right

439

00:25:21,650 --> 00:25:16,350

your soul is duplicated upload complete

440

00:25:25,100 --> 00:25:21,660

all good okay well how how how do you

441

00:25:27,560 --> 00:25:25,110

share the five senses what about sight

442

00:25:30,260 --> 00:25:27,570

smell touch hearing a taste how would

443

00:25:35,390 --> 00:25:30,270

that work how would it work how would

444

00:25:38,720 --> 00:25:35,400

you share it right it wouldn't work how

445

00:25:42,200 --> 00:25:38,730

could your brain see with your eyes two

446

00:25:44,900 --> 00:25:42,210

different things at the same time how

447

00:25:48,310 --> 00:25:44,910

would that happen and the second thing

448

00:25:52,750 --> 00:25:48,320

is and this is even a further stretch

449

00:25:57,169 --> 00:25:52,760

but the old you sitting in the chair

450

00:26:03,530 --> 00:25:57,179

would have to go I mean really go as in

451
00:26:08,330 --> 00:26:03,540
dead like Momo logic says that there

452
00:26:16,400 --> 00:26:08,340
can't actually be two of you so the old

453
00:26:19,690 --> 00:26:16,410
you is now growing cold right did you

454
00:26:27,020 --> 00:26:19,700
magically appear in the world of Tron

455
00:26:30,680 --> 00:26:27,030
probably not you roll the dice oops

456
00:26:33,080 --> 00:26:30,690
yeah and if you think about it and take

457
00:26:36,710 --> 00:26:33,090
all of these concepts even one step

458
00:26:40,070 --> 00:26:36,720
further the same issues come up with

459
00:26:42,560 --> 00:26:40,080
teleportation again not not to be a

460
00:26:47,080 --> 00:26:42,570
total buzzkill here but if you copy

461
00:26:51,860 --> 00:26:47,090
yourself and transfer that data to Mars

462
00:26:54,380 --> 00:26:51,870
that ain't you on Mars that's someone

463
00:26:58,610 --> 00:26:54,390

else can be in two places at the same

464

00:27:00,980 --> 00:26:58,620

time now portal stargates bending space

465

00:27:05,570 --> 00:27:00,990

wormholes those are totally different

466

00:27:06,640 --> 00:27:05,580

ideas and with each one it's you and

467

00:27:12,260 --> 00:27:06,650

only you

468

00:27:13,730 --> 00:27:12,270

making the trip not an upload so if you

469

00:27:14,270 --> 00:27:13,740

think about it we still got that going

470

00:27:17,960 --> 00:27:14,280

for us

471

00:27:20,540 --> 00:27:17,970

yeah it's pretty good now we'll a I have

472

00:27:23,770 --> 00:27:20,550

consciousness how will it have

473

00:27:26,270 --> 00:27:23,780

consciousness does it have to have

474

00:27:29,210 --> 00:27:26,280

consciousness all of these questions

475

00:27:34,490 --> 00:27:29,220

will be discussed tonight right here in

476

00:27:36,380 --> 00:27:34,500

our own little version of Tron that's

477

00:27:39,290 --> 00:27:36,390

right because our guest tonight is rizz

478

00:27:43,070 --> 00:27:39,300

Burke we are discussing artificial

479

00:27:44,120 --> 00:27:43,080

intelligence the good the bad and the

480

00:27:45,620 --> 00:27:44,130

ugly

481

00:27:47,470 --> 00:27:45,630

tomorrow night is another Fator night

482

00:27:50,300 --> 00:27:47,480

with open lines all night long

483

00:27:52,700 --> 00:27:50,310

here we go I am your host Jimmy church

484

00:27:55,280 --> 00:27:52,710

on the GameChanger network and kgr a the

485

00:27:59,870 --> 00:27:55,290

planet you can follow me right now on

486

00:28:02,360 --> 00:27:59,880

twitter at J Church radio email is Jimmy

487

00:28:04,430 --> 00:28:02,370

at Jimmy Church radio calm you can

488

00:28:08,420 --> 00:28:04,440

follow rizz on Twitter it's rizq

489

00:28:11,180 --> 00:28:08,430

Ambridge by the way yeah follow no r is

490

00:28:12,720 --> 00:28:11,190

Stanford can't believe I just said

491

00:28:15,820 --> 00:28:12,730

escape

492

00:28:18,280 --> 00:28:15,830

then that's an inside joke I'll be right

493

00:28:19,110 --> 00:28:18,290

back with the rivers whisper after this

494

00:28:34,450 --> 00:28:19,120

short break

495

00:28:39,009 --> 00:28:36,970

this is Nicole Church daughter of

496

00:28:41,019 --> 00:28:39,019

you-know-who and you're listening to

497

00:28:46,239 --> 00:28:41,029

fade to black on Jimmy Church radio.com

498

00:28:48,740 --> 00:28:46,249

and the GameChanger network you're

499

00:28:58,950 --> 00:28:48,750

listening to Jimmy Church fade to black

500

00:29:08,499 --> 00:29:06,310

are a radio when you take the beans from

501
00:29:11,049 --> 00:29:08,509
Central America with dashes of

502
00:29:13,480 --> 00:29:11,059
indonesian and african mixed in and then

503
00:29:16,330 --> 00:29:13,490
roasted to the dark side of fade to

504
00:29:19,480 --> 00:29:16,340
black you create the ultimate brew of

505
00:29:23,230 --> 00:29:19,490
fringe introducing the fade to black

506
00:29:25,840 --> 00:29:23,240
blend from river moon coffee yes River

507
00:29:27,460 --> 00:29:25,850
moons darkest customized roast was

508
00:29:31,119 --> 00:29:27,470
created for the love of

509
00:29:33,639 --> 00:29:31,129
fade to black the alchemy of masterful

510
00:29:36,909 --> 00:29:33,649
roasting and smoking the beans is in

511
00:29:41,109 --> 00:29:36,919
every sip of this full-bodied dark Java

512
00:29:42,970 --> 00:29:41,119
I need my coffee doc deep with distinct

513
00:29:46,149 --> 00:29:42,980

bittersweet chocolate highlights just

514

00:29:48,580 --> 00:29:46,159

like the bunker leaning further into the

515

00:29:51,850 --> 00:29:48,590

darkness of the roast is fade to black

516

00:29:53,499 --> 00:29:51,860

blend from River moon coffee just click

517

00:29:56,799 --> 00:29:53,509

on the banner at Jimmy Church radio.com

518

00:30:02,129 --> 00:29:56,809

and use the promo code F to B blend for

519

00:30:04,389 --> 00:30:02,139

15% off of your order today gobekli tepe

520

00:30:07,899 --> 00:30:04,399

this is Jimmy Church of fade to black

521

00:30:10,239 --> 00:30:07,909

and you can get our podcast for just \$2

522

00:30:12,759 --> 00:30:10,249

per month all you have to do is click on

523

00:30:14,430 --> 00:30:12,769

the podcast banner over at Jimmy Church

524

00:30:17,980 --> 00:30:14,440

radio.com

525

00:30:20,379 --> 00:30:17,990

hi folks its trembling times and fear is

526

00:30:22,299 --> 00:30:20,389

pushing emotions which in turn pushes

527

00:30:24,399 --> 00:30:22,309

health the wrong direction do you ever

528

00:30:26,830 --> 00:30:24,409

get an ache because life is uneasy try

529

00:30:28,659 --> 00:30:26,840

life change t it get the tea calm life

530

00:30:30,580 --> 00:30:28,669

change tea works on your digestive tract

531

00:30:32,799 --> 00:30:30,590

helping to move food through quicker and

532

00:30:35,080 --> 00:30:32,809

comfortably so your health is spot-on

533

00:30:37,149 --> 00:30:35,090

life change tea may not help with world

534

00:30:39,820 --> 00:30:37,159

issues but it will help with your

535

00:30:42,849 --> 00:30:39,830

digestive issues a glass a day helps

536

00:30:43,480 --> 00:30:42,859

keep the intruders away so change your

537

00:30:46,180 --> 00:30:43,490

life today

538

00:30:48,130 --> 00:30:46,190

log on to get the tea calm that's get

539

00:30:50,350 --> 00:30:48,140

the tea calm you

540

00:30:53,500 --> 00:30:50,360

your health game is off get on by

541

00:30:55,330 --> 00:30:53,510

ordering life change t get the t.com and

542

00:30:57,640 --> 00:30:55,340

while you're on our site look around at

543

00:30:59,680 --> 00:30:57,650

the great non-gmo organic supplements

544

00:31:02,080 --> 00:30:59,690

and if you're a sale shopper go to our

545

00:31:04,150 --> 00:31:02,090

specials page and see what's for you

546

00:31:05,680 --> 00:31:04,160

I've been drinking the tea for 12 years

547

00:31:08,530 --> 00:31:05,690

and I'm sure glad for its health

548

00:31:12,610 --> 00:31:08,540

benefits again that's get the t-dot-com

549

00:31:19,450 --> 00:31:12,620

get the t-dot-com the tea that makes you

550

00:31:20,740 --> 00:31:19,460

go 9 out of 10 geneticists agreed fade

551
00:31:26,050 --> 00:31:20,750
to black

552
00:31:29,430 --> 00:31:26,060
is not your father's radio show on the

553
00:31:34,330 --> 00:31:29,440
game changer of Radio Network and K GRA

554
00:31:36,190 --> 00:31:34,340
the planets hi this is Rob Reiner from

555
00:32:00,100 --> 00:31:36,200
Apple and you're listening to Jimmy

556
00:32:03,280 --> 00:32:02,230
welcome back pay to block I'm your host

557
00:32:07,419 --> 00:32:03,290
Jimmy church tonight

558
00:32:09,910 --> 00:32:07,429
Riz Burt is joining us Before we jump

559
00:32:13,600 --> 00:32:09,920
into it I just got to say thank you to R

560
00:32:17,410 --> 00:32:13,610
is for stepping in literally minutes

561
00:32:22,090 --> 00:32:17,420
before show time tonight to fill the

562
00:32:27,360 --> 00:32:22,100
very big shoes of Greg house and Greg is

563
00:32:32,500 --> 00:32:27,370

going right now oh man it's Risberg

564

00:32:34,180 --> 00:32:32,510

jimmy upstaged me well he got to it in

565

00:32:35,130 --> 00:32:34,190

an emergency like this who you gonna

566

00:32:38,409 --> 00:32:35,140

call

567

00:32:41,500 --> 00:32:38,419

well R is Burke picked up the phone Riz

568

00:32:43,299 --> 00:32:41,510

Burke successful entrepreneur angel

569

00:32:45,490 --> 00:32:43,309

investor best-selling author video game

570

00:32:48,010 --> 00:32:45,500

industry pioneer and an independent film

571

00:32:51,760 --> 00:32:48,020

producer risk currently runs Bayview

572

00:32:53,680 --> 00:32:51,770

labs and play labs at MIT a startup

573

00:32:55,740 --> 00:32:53,690

accelerator held on campus at the

574

00:32:58,870 --> 00:32:55,750

Massachusetts Institute of Technology

575

00:33:01,960 --> 00:32:58,880

rizz received a BS in computer science

576

00:33:05,470 --> 00:33:01,970

and engineering from MIT and an MS and

577

00:33:07,630 --> 00:33:05,480

management from Stanford's GSB rizz is a

578

00:33:09,820 --> 00:33:07,640

Silicon Valley angel investor and his

579

00:33:14,020 --> 00:33:09,830

startups include tap fish bingo run

580

00:33:16,570 --> 00:33:14,030

penny dreadful demin mande I'm not even

581

00:33:20,020 --> 00:33:16,580

sure I've never played that grim cards

582

00:33:22,930 --> 00:33:20,030

of fate Tapjoy telltale games discord

583

00:33:25,690 --> 00:33:22,940

fangio pocket gems moon express and many

584

00:33:28,750 --> 00:33:25,700

others rumor has it he's an ace at

585

00:33:30,580 --> 00:33:28,760

pac-man rizz has produced many

586

00:33:33,180 --> 00:33:30,590

independent films including turquoise

587

00:33:35,560 --> 00:33:33,190

Rose thrive what on earth will it take

588

00:33:37,900 --> 00:33:35,570

serious and one of my favorite movies of

589

00:33:40,870 --> 00:33:37,910

all time the classic Knights of

590

00:33:43,930 --> 00:33:40,880

Badassdom starring Peter Dinklage his

591

00:33:47,789 --> 00:33:43,940

books include treasure hunts I have it

592

00:33:51,130 --> 00:33:47,799

the simulation hypothesis I have it and

593

00:33:52,750 --> 00:33:51,140

startup myths and models and he's got a

594

00:33:53,320 --> 00:33:52,760

special chapter and they were dedicated

595

00:33:56,320 --> 00:33:53,330

to fade to black

596

00:33:57,340 --> 00:33:56,330

Riz Burke how you doing man hey Jimmy

597

00:34:00,520 --> 00:33:57,350

good to be with you again

598

00:34:02,440 --> 00:34:00,530

were you a pacman ace tell me the truth

599

00:34:04,810 --> 00:34:02,450

you know I used to play space invaders a

600

00:34:07,120 --> 00:34:04,820

lot yeah it's more of an ASA on that

601
00:34:08,379 --> 00:34:07,130
game I think than pac-man what about C

602
00:34:11,340 --> 00:34:08,389
you're showing your age what about

603
00:34:13,380 --> 00:34:11,350
asteroids asteroid yeah I was pretty

604
00:34:16,350 --> 00:34:13,390
with asteroids as well I remember Galaga

605
00:34:18,960 --> 00:34:16,360
was a lot of fun yeah is it Galaga or

606
00:34:20,580 --> 00:34:18,970
Galaga you know it's a good question I

607
00:34:22,380 --> 00:34:20,590
always thought it was Galaga but that's

608
00:34:23,670 --> 00:34:22,390
I have to ask somebody who yeah nobody

609
00:34:24,720 --> 00:34:23,680
was involved in making it you know

610
00:34:27,960 --> 00:34:24,730
there's a lot of these guys still

611
00:34:31,380 --> 00:34:27,970
floating around what you don't you know

612
00:34:33,180 --> 00:34:31,390
what I really dug especially back in the

613
00:34:36,600 --> 00:34:33,190

original console you know the home

614

00:34:38,430 --> 00:34:36,610

consoles Missile Command yeah you know

615

00:34:40,650 --> 00:34:38,440

there's a whole book about the creation

616

00:34:43,680 --> 00:34:40,660

of Missile Command and how the guy that

617

00:34:46,500 --> 00:34:43,690

created it you know he was making a game

618

00:34:49,140 --> 00:34:46,510

about nuclear war between the Soviets

619

00:34:51,450 --> 00:34:49,150

and the Americans and he started to have

620

00:34:53,310 --> 00:34:51,460

nightmares about this scenario

621

00:34:54,780 --> 00:34:53,320

eventually they changed it so that it

622

00:34:57,300 --> 00:34:54,790

was kind of a neutral thing it wasn't

623

00:34:58,500 --> 00:34:57,310

necessarily a US vs USSR but there's a

624

00:35:00,240 --> 00:34:58,510

whole book about the history of that

625

00:35:05,670 --> 00:35:00,250

game wait a minute I mean that wasn't

626
00:35:10,320 --> 00:35:05,680
about the US versus the USSR everybody

627
00:35:12,240 --> 00:35:10,330
assumed exactly that was the idea that

628
00:35:14,820 --> 00:35:12,250
they pitched Atari and then you know

629
00:35:16,650 --> 00:35:14,830
they took some time to build it but it

630
00:35:18,000 --> 00:35:16,660
really got under the the creators skin I

631
00:35:20,250 --> 00:35:18,010
don't remember his name now but it's

632
00:35:22,260 --> 00:35:20,260
called an 8-bit apocalypse that the name

633
00:35:23,880 --> 00:35:22,270
of the book that was about this man

634
00:35:25,710 --> 00:35:23,890
definitely if you're in the video game

635
00:35:27,540 --> 00:35:25,720
history it's worth the read yeah I just

636
00:35:29,730 --> 00:35:27,550
thought it was really sophisticated I

637
00:35:32,880 --> 00:35:29,740
always thought you know space invaders

638
00:35:36,140 --> 00:35:32,890

which everybody played and I did too I

639

00:35:40,050 --> 00:35:36,150

just thought it was kind of childlike

640

00:35:43,770 --> 00:35:40,060

but Missile Command that was the adult

641

00:35:46,470 --> 00:35:43,780

game right because you also started to

642

00:35:48,870 --> 00:35:46,480

move away from just reflexes to strategy

643

00:35:51,270 --> 00:35:48,880

strategy base are you gonna protect and

644

00:35:53,490 --> 00:35:51,280

and so that led to you know strategy

645

00:35:56,820 --> 00:35:53,500

games coming down the pike eventually

646

00:35:58,800 --> 00:35:56,830

yeah and the gaming industry and this is

647

00:36:01,320 --> 00:35:58,810

what we're going to be talking about

648

00:36:05,220 --> 00:36:01,330

artificial intelligence tonight and one

649

00:36:07,140 --> 00:36:05,230

of the things that gets overlooked now I

650

00:36:09,660 --> 00:36:07,150

talked to Issac Arthur about this a lot

651
00:36:12,720 --> 00:36:09,670
because he's into game development these

652
00:36:14,640 --> 00:36:12,730
very sophisticated sci-fi games and and

653
00:36:17,690 --> 00:36:14,650
also writing and you know he's a

654
00:36:20,360 --> 00:36:17,700
physicist it's a great combination

655
00:36:23,150 --> 00:36:20,370
of things for him because he is able to

656
00:36:28,130 --> 00:36:23,160
look at the universe but he collaborates

657
00:36:30,830 --> 00:36:28,140
with very very intelligent people in the

658
00:36:34,310 --> 00:36:30,840
gaming industry that come from sci-fi

659
00:36:37,670 --> 00:36:34,320
and they they have these science

660
00:36:41,470 --> 00:36:37,680
backgrounds all of this applied into the

661
00:36:45,470 --> 00:36:41,480
gaming world to create layers and

662
00:36:49,850 --> 00:36:45,480
realistic environments for you to to

663
00:36:52,790 --> 00:36:49,860

game in but the individual character

664

00:36:54,680 --> 00:36:52,800

development you know and the things that

665

00:36:57,950 --> 00:36:54,690

are running around in the background and

666

00:37:01,130 --> 00:36:57,960

the you know these these autonomous that

667

00:37:04,130 --> 00:37:01,140

is artificial intelligence I don't care

668

00:37:07,520 --> 00:37:04,140

what anybody says about the development

669

00:37:09,830 --> 00:37:07,530

of the gaming industry is on par and on

670

00:37:11,870 --> 00:37:09,840

pace with the development of anything

671

00:37:14,660 --> 00:37:11,880

else computer related on this planet

672

00:37:16,160 --> 00:37:14,670

it's very sophisticated isn't it yeah

673

00:37:17,450 --> 00:37:16,170

it's very true and not a lot of people

674

00:37:20,030 --> 00:37:17,460

realize this but the history of

675

00:37:21,590 --> 00:37:20,040

computers is very much the history of

676
00:37:24,530 --> 00:37:21,600
videogames right when you think about

677
00:37:26,000 --> 00:37:24,540
the ways that we've optimized you know

678
00:37:28,940 --> 00:37:26,010
you know there's Moore's law about how

679
00:37:31,040 --> 00:37:28,950
processors double and speed every 18

680
00:37:33,500 --> 00:37:31,050
months but if you look at why do they

681
00:37:35,330 --> 00:37:33,510
need to double why do we need faster

682
00:37:37,580 --> 00:37:35,340
processing historically it's been so we

683
00:37:39,410 --> 00:37:37,590
can process more graphics and what's

684
00:37:42,230 --> 00:37:39,420
been driving graphics it's been video

685
00:37:44,870 --> 00:37:42,240
games if you look at the first real AI

686
00:37:47,270 --> 00:37:44,880
of any type that was implemented it was

687
00:37:49,310 --> 00:37:47,280
a chess-playing computer from presser

688
00:37:51,710 --> 00:37:49,320

Claude Shannon who was at MIT employ in

689

00:37:54,650 --> 00:37:51,720

Bell Labs you know back in the 1950s and

690

00:37:56,720 --> 00:37:54,660

if you think about how AI is implemented

691

00:37:58,630 --> 00:37:56,730

today I mean there's you know simple

692

00:38:01,400 --> 00:37:58,640

stuff that was around a while ago like

693

00:38:03,770 --> 00:38:01,410

chatbots are around today you know they

694

00:38:07,880 --> 00:38:03,780

came from sort of it Eliza which is like

695

00:38:10,220 --> 00:38:07,890

a gaming type of interface but if you

696

00:38:12,680 --> 00:38:10,230

look at how AI is implemented today it's

697

00:38:15,110 --> 00:38:12,690

mostly using GPUs right the company

698

00:38:16,850 --> 00:38:15,120

Nvidia's is the biggest provider of GPUs

699

00:38:19,040 --> 00:38:16,860

and what it was just GPU stand for

700

00:38:21,290 --> 00:38:19,050

graphics processing units and why do you

701
00:38:23,030 --> 00:38:21,300
need graphics processing units it's for

702
00:38:24,590 --> 00:38:23,040
gaming that's really why they were

703
00:38:28,220 --> 00:38:24,600
developed in the first place so and

704
00:38:30,470 --> 00:38:28,230
gaming is so resource intensive that it

705
00:38:31,190 --> 00:38:30,480
really kind of gets the hardware to do

706
00:38:34,579 --> 00:38:31,200
its paces

707
00:38:37,280 --> 00:38:34,589
so you end up you know like the iPhone

708
00:38:38,870 --> 00:38:37,290
for example nobody realized that like

709
00:38:40,790 --> 00:38:38,880
Apple didn't know that gaming was going

710
00:38:43,160 --> 00:38:40,800
to be its most popular application in

711
00:38:45,410 --> 00:38:43,170
the first 10 years of the iPhone and so

712
00:38:47,510 --> 00:38:45,420
they had to keep upgrading the CPU so

713
00:38:50,000 --> 00:38:47,520

more and more you see that gaming is

714

00:38:51,560 --> 00:38:50,010

related to pretty much any aspect of

715

00:38:56,480 --> 00:38:51,570

technology that's developed over the

716

00:38:59,300 --> 00:38:56,490

last you know 30 40 50 years now the the

717

00:39:03,560 --> 00:38:59,310

amount of money let's talk dollars and

718

00:39:05,630 --> 00:39:03,570

cents here's we start to unroll this

719

00:39:11,740 --> 00:39:05,640

conversation tonight the amount of money

720

00:39:18,349 --> 00:39:14,930

not only is it big but most people don't

721

00:39:21,069 --> 00:39:18,359

have a concept of it gamers do right

722

00:39:25,609 --> 00:39:21,079

when you look at twitch and you look at

723

00:39:29,000 --> 00:39:25,619

the the the staying in front of

724

00:39:32,540 --> 00:39:29,010

technology of the things like zoom and

725

00:39:35,630 --> 00:39:32,550

Skype this is these are concepts online

726

00:39:38,120 --> 00:39:35,640

gaming and partnering headsets

727

00:39:42,319 --> 00:39:38,130

microphones communication two-way

728

00:39:44,599 --> 00:39:42,329

communication networking this all

729

00:39:48,319 --> 00:39:44,609

developed out of the gaming industry and

730

00:39:51,500 --> 00:39:48,329

how things drive forward based on around

731

00:39:56,329 --> 00:39:51,510

games and the money is huge a successful

732

00:39:58,339 --> 00:39:56,339

game dwarfs a Hollywood movie right yeah

733

00:39:59,960 --> 00:39:58,349

if you look at the total revenue the

734

00:40:01,640 --> 00:39:59,970

gaming industry the video game industry

735

00:40:04,010 --> 00:40:01,650

it's over a hundred billion dollars a

736

00:40:05,870 --> 00:40:04,020

year and so that is more than the

737

00:40:07,309 --> 00:40:05,880

Hollywood box-office in a given year

738

00:40:09,140 --> 00:40:07,319

that's crazy

739

00:40:10,880 --> 00:40:09,150

and and the part of the reason why it's

740

00:40:12,710 --> 00:40:10,890

gotten so big is you know used to be

741

00:40:14,510 --> 00:40:12,720

just people with consoles we're playing

742

00:40:16,460 --> 00:40:14,520

video games but you know with the

743

00:40:19,609 --> 00:40:16,470

introduction of mobile games and

744

00:40:21,740 --> 00:40:19,619

smartphones pretty much everybody plays

745

00:40:24,140 --> 00:40:21,750

games so you have millions and hundreds

746

00:40:25,849 --> 00:40:24,150

of millions of casual players who are

747

00:40:29,780 --> 00:40:25,859

playing like candy crush and games like

748

00:40:30,650 --> 00:40:29,790

that you've got fortnight right if some

749

00:40:32,530 --> 00:40:30,660

of your listeners haven't played

750

00:40:35,059 --> 00:40:32,540

fortnight your kids probably have right

751

00:40:37,460 --> 00:40:35,069

it's one of the most popular games on

752

00:40:38,839 --> 00:40:37,470

the planet there's Minecraft and you're

753

00:40:40,730 --> 00:40:38,849

right that there's so much of this

754

00:40:43,460 --> 00:40:40,740

technology like you may have heard of

755

00:40:45,950 --> 00:40:43,470

discord which is a really well known

756

00:40:47,900 --> 00:40:45,960

chat app and voice communication and

757

00:40:49,880 --> 00:40:47,910

there it's used in cryptocurrency it's

758

00:40:51,740 --> 00:40:49,890

used in a lot of places but not many

759

00:40:54,770 --> 00:40:51,750

people know discord actually started as

760

00:40:56,660 --> 00:40:54,780

a video game company they had a what's

761

00:40:57,980 --> 00:40:56,670

called a MOBA game kind of like League

762

00:41:00,109 --> 00:40:57,990

of Legends for mobile I didn't quite

763

00:41:02,150 --> 00:41:00,119

work out but they had built this kind of

764

00:41:04,400 --> 00:41:02,160

cool chat app and they said they

765

00:41:05,990 --> 00:41:04,410

released it as a separate app and now

766

00:41:08,420 --> 00:41:06,000

it's one of the most downloaded apps of

767

00:41:09,980 --> 00:41:08,430

all time same would slack many people

768

00:41:12,410 --> 00:41:09,990

who are listening probably you slack for

769

00:41:13,910 --> 00:41:12,420

work it turns out slack was also a game

770

00:41:15,770 --> 00:41:13,920

company and the game didn't quite work

771

00:41:17,480 --> 00:41:15,780

out but they had built some interesting

772

00:41:20,630 --> 00:41:17,490

communication tools and they released it

773

00:41:22,130 --> 00:41:20,640

so those are like two recent examples of

774

00:41:23,990 --> 00:41:22,140

things that have come out of the the

775

00:41:27,440 --> 00:41:24,000

video game industry but with eSports now

776

00:41:29,270 --> 00:41:27,450

I mean if you're under 30 you probably

777

00:41:32,150 --> 00:41:29,280

more likely pay attention to eSports

778

00:41:34,400 --> 00:41:32,160

competitive video games than you are to

779

00:41:36,710 --> 00:41:34,410

the NFL or the average age of the NFL

780

00:41:40,609 --> 00:41:36,720

viewer is like fifty five or something

781

00:41:43,760 --> 00:41:40,619

like that yeah I watched I don't know if

782

00:41:46,370 --> 00:41:43,770

it was I can't remember if it was

783

00:41:48,320 --> 00:41:46,380

fortnight or what the what the what the

784

00:41:51,020 --> 00:41:48,330

competition was here at Staples Center

785

00:41:54,230 --> 00:41:51,030

yes probably League of Legend of Legends

786

00:41:57,680 --> 00:41:54,240

right and I'm white the riots right and

787

00:42:00,020 --> 00:41:57,690

not only that element of it it was the

788

00:42:03,410 --> 00:42:00,030

spectacle that was there you would have

789

00:42:07,160 --> 00:42:03,420

thought Michael Jordan just came back

790

00:42:08,599 --> 00:42:07,170

out of retirement right right and now

791

00:42:11,140 --> 00:42:08,609

you have sports teams like the

792

00:42:13,609 --> 00:42:11,150

Philadelphia 76ers who are buying into

793

00:42:15,740 --> 00:42:13,619

eSports teams right I mean they're

794

00:42:17,630 --> 00:42:15,750

realizing that the future of competitive

795

00:42:19,490 --> 00:42:17,640

sports may actually be online and

796

00:42:23,420 --> 00:42:19,500

certainly with you know this recent

797

00:42:25,160 --> 00:42:23,430

lockdown right Sports is continuing on

798

00:42:27,170 --> 00:42:25,170

whereas traditional sports has been

799

00:42:29,900 --> 00:42:27,180

blocked a bit because of the need to go

800

00:42:33,140 --> 00:42:29,910

to the arena so it's a it's really

801
00:42:34,930 --> 00:42:33,150
pervasive so you know I was talking with

802
00:42:36,950 --> 00:42:34,940
a professor at Stanford Business School

803
00:42:39,500 --> 00:42:36,960
saying you know we should teach a class

804
00:42:41,000 --> 00:42:39,510
on the the video game industry and he

805
00:42:42,829 --> 00:42:41,010
said oh that sounds like a niche you

806
00:42:44,540 --> 00:42:42,839
know industry to me and I said do you

807
00:42:46,640 --> 00:42:44,550
realize how big gaming is I don't think

808
00:42:48,260 --> 00:42:46,650
he does because even in my generation

809
00:42:50,390 --> 00:42:48,270
right we used to play on the Atari and

810
00:42:52,700 --> 00:42:50,400
the consoles but it's the younger

811
00:42:56,359 --> 00:42:52,710
generations for whom it's it's like life

812
00:42:59,089 --> 00:42:56,369
basically when somebody says that to you

813
00:43:04,730 --> 00:42:59,099

an age group that maybe above you just

814

00:43:07,099 --> 00:43:04,740

walk away just walk your not gonna plant

815

00:43:09,319 --> 00:43:07,109

a flag there Riz you're not gonna change

816

00:43:11,749 --> 00:43:09,329

somebody's life you're not quite

817

00:43:16,640 --> 00:43:11,759

now now Sita the reason why I bring that

818

00:43:20,870 --> 00:43:16,650

up is this the recruitment at colleges

819

00:43:24,410 --> 00:43:20,880

for coders that want to get into the

820

00:43:26,630 --> 00:43:24,420

gaming industry that is but that's about

821

00:43:28,940 --> 00:43:26,640

as competitive as it as it gets in

822

00:43:32,359 --> 00:43:28,950

college these days but the same

823

00:43:37,190 --> 00:43:32,369

recruitment pursuits are going after

824

00:43:41,120 --> 00:43:37,200

those that want to develop and move into

825

00:43:44,359 --> 00:43:41,130

a career in artificial intelligence the

826

00:43:48,620 --> 00:43:44,369

amount of money that is spent globally

827

00:43:52,430 --> 00:43:48,630

on artificial intelligence for that race

828

00:43:54,559 --> 00:43:52,440

is is again completely daunting and most

829

00:43:58,430 --> 00:43:54,569

people don't know what is going on

830

00:44:00,380 --> 00:43:58,440

behind the scenes is the race for the

831

00:44:02,599 --> 00:44:00,390

you know somebody's gotta cross the

832

00:44:06,140 --> 00:44:02,609

finish line first with artificial

833

00:44:09,470 --> 00:44:06,150

intelligence is that I just lost my

834

00:44:12,019 --> 00:44:09,480

connection with R is okay where is are

835

00:44:15,979 --> 00:44:12,029

you there yep I'm here now how can

836

00:44:21,529 --> 00:44:15,989

somebody from MIT computer science

837

00:44:27,799 --> 00:44:21,539

degree BS have have have a shaky phone

838

00:44:32,239 --> 00:44:27,809

connection to the Wi-Fi yeah it does it

839

00:44:35,499 --> 00:44:32,249

does but but the the the race

840

00:44:37,999 --> 00:44:35,509

that is on right now globally between

841

00:44:42,999 --> 00:44:38,009

engineers scientists corporations

842

00:44:46,630 --> 00:44:43,009

companies universities state actors

843

00:44:50,120 --> 00:44:46,640

around the world the goal right now

844

00:44:52,069 --> 00:44:50,130

isn't to have the best game right it's

845

00:44:54,170 --> 00:44:52,079

it's the winner for artificial

846

00:44:56,660 --> 00:44:54,180

intelligence that's where the game is

847

00:44:59,120 --> 00:44:56,670

played today right yeah I mean that is

848

00:45:01,370 --> 00:44:59,130

the the biggest kind of segment where

849

00:45:02,900 --> 00:45:01,380

the most money is going in terms of

850

00:45:05,749 --> 00:45:02,910

investment and that's true

851
00:45:07,789 --> 00:45:05,759
here in Silicon Valley right if you look

852
00:45:09,470 --> 00:45:07,799
at different startups I mean there are

853
00:45:12,020 --> 00:45:09,480
funds that have been formed

854
00:45:14,300 --> 00:45:12,030
for investing in AI there are startup

855
00:45:18,380 --> 00:45:14,310
accelerators and it's because there are

856
00:45:20,420 --> 00:45:18,390
so many different potential applications

857
00:45:23,120 --> 00:45:20,430
of AI I mean you talked about the facial

858
00:45:25,609 --> 00:45:23,130
recognition right with with deep fakes

859
00:45:27,740 --> 00:45:25,619
and you know I just tweeted a picture of

860
00:45:29,390 --> 00:45:27,750
using deep fake technology to turn you

861
00:45:30,710 --> 00:45:29,400
Jimmy into a female let's see what you

862
00:45:32,210 --> 00:45:30,720
might look like you know just as an

863
00:45:34,550 --> 00:45:32,220

example it's gotten you've probably seen

864

00:45:36,530 --> 00:45:34,560

the ones of William Shatner out there

865

00:45:39,020 --> 00:45:36,540

right that show him right yep Tim Kirk

866

00:45:41,020 --> 00:45:39,030

as a female and so you know the

867

00:45:43,040 --> 00:45:41,030

technology is getting better and better

868

00:45:44,660 --> 00:45:43,050

to be able to do that but there's so

869

00:45:46,849 --> 00:45:44,670

many different applications that AI is

870

00:45:48,650 --> 00:45:46,859

very broad it's kind of like saying the

871

00:45:50,780 --> 00:45:48,660

web you know back in the 90s right

872

00:45:53,330 --> 00:45:50,790

originally that was like one market and

873

00:45:56,000 --> 00:45:53,340

then it broke off so that everything was

874

00:45:57,890 --> 00:45:56,010

related to the Internet and the web it

875

00:45:59,510 --> 00:45:57,900

just mattered you know what kind of

876

00:46:01,700 --> 00:45:59,520

business were you in on the web were you

877

00:46:03,260 --> 00:46:01,710

ecommerce were you an existing business

878

00:46:05,000 --> 00:46:03,270

that was getting on the web or your

879

00:46:06,890 --> 00:46:05,010

development to or you content are your

880

00:46:09,460 --> 00:46:06,900

social network there's so many different

881

00:46:12,620 --> 00:46:09,470

aspects of it now what's what's

882

00:46:14,930 --> 00:46:12,630

reviewing is that at MIT you know if you

883

00:46:16,520 --> 00:46:14,940

went back 50 years there was just the

884

00:46:18,590 --> 00:46:16,530

Department of Electrical Engineering

885

00:46:20,900 --> 00:46:18,600

right and then when I was there in the

886

00:46:22,160 --> 00:46:20,910

90s as an undergraduate by then we had

887

00:46:24,380 --> 00:46:22,170

electrical engineering and computer

888

00:46:25,849 --> 00:46:24,390

science and they were both part of the

889

00:46:27,620 --> 00:46:25,859

department of engineering which was one

890

00:46:29,570 --> 00:46:27,630

of like or School of Engineering there

891

00:46:32,900 --> 00:46:29,580

were like four schools right liberal

892

00:46:34,849 --> 00:46:32,910

arts Business School etc and just I

893

00:46:37,910 --> 00:46:34,859

think last year or the year before they

894

00:46:40,010 --> 00:46:37,920

created a new school now that's a big

895

00:46:42,890 --> 00:46:40,020

deal that doesn't happen very often and

896

00:46:45,590 --> 00:46:42,900

in this school was the school for

897

00:46:47,750 --> 00:46:45,600

computing and one of the big reasons

898

00:46:49,790 --> 00:46:47,760

they did this was because a I was gonna

899

00:46:52,460 --> 00:46:49,800

impact pretty much every single industry

900

00:46:53,930 --> 00:46:52,470

out there and so they wanted they needed

901
00:46:55,670 --> 00:46:53,940
an entire school with lots of

902
00:46:58,280 --> 00:46:55,680
departments right before computer

903
00:47:00,890 --> 00:46:58,290
science was a department within the you

904
00:47:04,130 --> 00:47:00,900
know the School of Engineering now it's

905
00:47:07,640 --> 00:47:04,140
a whole new school on how AI is going to

906
00:47:09,590 --> 00:47:07,650
be basically make an impact on all these

907
00:47:11,240 --> 00:47:09,600
different industries so that gives you a

908
00:47:12,650 --> 00:47:11,250
sense of kind of how important people

909
00:47:15,190 --> 00:47:12,660
are viewing it in the technology world

910
00:47:18,290 --> 00:47:15,200
now okay

911
00:47:20,530 --> 00:47:18,300
the there are some fundamental questions

912
00:47:22,340 --> 00:47:20,540
that we've got to get out of the way and

913
00:47:25,130 --> 00:47:22,350

without you know

914

00:47:29,600 --> 00:47:25,140

having an entire conversation on rakers

915

00:47:32,990 --> 00:47:29,610

well rice and we have an immense amount

916

00:47:34,930 --> 00:47:33,000

of fear porn going on out there

917

00:47:36,920 --> 00:47:34,940

and there are others out there that

918

00:47:40,460 --> 00:47:36,930

absolutely say we have nothing to worry

919

00:47:42,380 --> 00:47:40,470

about okay so we have the two extremes

920

00:47:46,250 --> 00:47:42,390

it's going to play out somewhere in the

921

00:47:49,040 --> 00:47:46,260

middle I am sure but as far as a time

922

00:47:50,630 --> 00:47:49,050

scale and we've got to get to

923

00:47:52,820 --> 00:47:50,640

definitions too because we have

924

00:47:57,650 --> 00:47:52,830

artificial intelligence then we have a

925

00:47:59,780 --> 00:47:57,660

GI swimming around with both of those we

926

00:48:02,720 --> 00:47:59,790

have machine learning right okay

927

00:48:06,280 --> 00:48:02,730

as far as artificial intelligence goes a

928

00:48:09,590 --> 00:48:06,290

fully independent thinking conscience

929

00:48:13,070 --> 00:48:09,600

conscious computing system how many

930

00:48:16,910 --> 00:48:13,080

years out are we is this next week or is

931

00:48:18,800 --> 00:48:16,920

this 2050 well you know there's a lot of

932

00:48:20,540 --> 00:48:18,810

different estimates out there for how

933

00:48:23,180 --> 00:48:20,550

long it's going to take to develop a GI

934

00:48:24,680 --> 00:48:23,190

and you know the the Turing test which

935

00:48:28,130 --> 00:48:24,690

we've talked about before on this show

936

00:48:29,840 --> 00:48:28,140

which was put out by Alan Turing and he

937

00:48:31,730 --> 00:48:29,850

called it the imitation game where he

938

00:48:33,470 --> 00:48:31,740

said it's behind curtain 1 you have a

939

00:48:35,630 --> 00:48:33,480

computer and he was thinking in terms of

940

00:48:37,820 --> 00:48:35,640

hardware today we know AI is more

941

00:48:39,980 --> 00:48:37,830

software but you know back then they

942

00:48:41,480 --> 00:48:39,990

thought of it as hardware and behind

943

00:48:44,930 --> 00:48:41,490

curtain 2 as a person and you're just

944

00:48:46,040 --> 00:48:44,940

sending messages back and forth the if

945

00:48:48,320 --> 00:48:46,050

you could not tell the difference

946

00:48:50,320 --> 00:48:48,330

between the computer and the human then

947

00:48:52,850 --> 00:48:50,330

you would say that that computer passes

948

00:48:55,100 --> 00:48:52,860

the imitation game or today we call it

949

00:48:56,960 --> 00:48:55,110

the passing the Turing test now we're

950

00:49:00,320 --> 00:48:56,970

not there yet in terms of fully

951
00:49:02,600 --> 00:49:00,330
interactive conversations but you know a

952
00:49:05,030 --> 00:49:02,610
couple years ago Google or actually just

953
00:49:06,920 --> 00:49:05,040
last year Google had this thing where

954
00:49:08,180 --> 00:49:06,930
they they free Otis called Google duplex

955
00:49:10,550 --> 00:49:08,190
I think where they can make phone calls

956
00:49:13,100 --> 00:49:10,560
to book you an appointment and say a

957
00:49:16,250 --> 00:49:13,110
hair salon and it was generating a voice

958
00:49:17,960 --> 00:49:16,260
and it was so close to human that the

959
00:49:20,330 --> 00:49:17,970
people in the hair salons couldn't tell

960
00:49:22,220 --> 00:49:20,340
the difference so Google had to add a

961
00:49:24,650 --> 00:49:22,230
little thing saying this is an automated

962
00:49:27,140 --> 00:49:24,660
call right because it would insert

963
00:49:30,020 --> 00:49:27,150

little things like ah and um you know

964

00:49:31,610 --> 00:49:30,030

into the conversation and so you know

965

00:49:33,440 --> 00:49:31,620

we're getting close to being able to

966

00:49:36,259 --> 00:49:33,450

pass the Turing test for some things but

967

00:49:40,069 --> 00:49:36,269

of course that's a phone call in a

968

00:49:42,139 --> 00:49:40,079

scenario or a specific use case and of

969

00:49:44,389 --> 00:49:42,149

course you've probably heard that you

970

00:49:48,079 --> 00:49:44,399

know AI has beat the world's best chess

971

00:49:50,059 --> 00:49:48,089

players more recently they had they were

972

00:49:51,709 --> 00:49:50,069

able to beat some of professional goal

973

00:49:53,989 --> 00:49:51,719

players in the world and turns out this

974

00:49:55,279 --> 00:49:53,999

was a lot harder now the way people used

975

00:49:57,589 --> 00:49:55,289

to think of AI I mentioned Claude

976

00:50:00,139 --> 00:49:57,599

Shannon and he wrote a paper back in the

977

00:50:02,239 --> 00:50:00,149

50s who's sort of the father of

978

00:50:03,799 --> 00:50:02,249

information theory and he said you know

979

00:50:06,349 --> 00:50:03,809

if you think of different ways that AI

980

00:50:08,059 --> 00:50:06,359

applies to games it actually gives you a

981

00:50:11,029 --> 00:50:08,069

good model for how AI applies to the

982

00:50:13,609 --> 00:50:11,039

world and in the first instance the a I

983

00:50:15,979 --> 00:50:13,619

would just take the rules of chess and

984

00:50:18,349 --> 00:50:15,989

just be able to follow the rules in the

985

00:50:20,959 --> 00:50:18,359

second instance it would go forward at

986

00:50:23,120 --> 00:50:20,969

such speeds and project forward all the

987

00:50:25,099 --> 00:50:23,130

possible scenarios and choose the best

988

00:50:27,259 --> 00:50:25,109

one so that's still kind of an

989

00:50:30,469 --> 00:50:27,269

old-school paradigm of AI which is

990

00:50:33,409 --> 00:50:30,479

rule-based and the first wave of AI came

991

00:50:36,229 --> 00:50:33,419

in the 80s and 90s it was called expert

992

00:50:37,489 --> 00:50:36,239

systems and it was all rule-based and

993

00:50:38,929 --> 00:50:37,499

then you know someone came up with a

994

00:50:40,519 --> 00:50:38,939

bright idea of neural networks and so

995

00:50:43,129 --> 00:50:40,529

Claude Shannon back in the fifties said

996

00:50:45,259 --> 00:50:43,139

eventually you could have an AI that

997

00:50:48,049 --> 00:50:45,269

could play video games without needing

998

00:50:50,089 --> 00:50:48,059

to learn the rules right and the idea

999

00:50:51,769 --> 00:50:50,099

was it would just play the game and as

1000

00:50:53,839 --> 00:50:51,779

it played the game it would learn the

1001
00:50:55,459 --> 00:50:53,849
rules now he didn't know about neural

1002
00:50:57,049 --> 00:50:55,469
networks back then but between neural

1003
00:50:59,059 --> 00:50:57,059
networks and deep learning machine

1004
00:51:01,309 --> 00:50:59,069
learning algorithms today that's what

1005
00:51:04,609 --> 00:51:01,319
happened with this program I think it

1006
00:51:07,339 --> 00:51:04,619
was alphago was the man alphago yeah

1007
00:51:09,319 --> 00:51:07,349
yeah and so it would just play games and

1008
00:51:11,689 --> 00:51:09,329
it started off really bad right it would

1009
00:51:13,370 --> 00:51:11,699
just play a game and lose but every time

1010
00:51:15,439 --> 00:51:13,380
it played a game it would learn and then

1011
00:51:17,389 --> 00:51:15,449
it played itself right and this is where

1012
00:51:19,849 --> 00:51:17,399
the exponential you know learning comes

1013
00:51:23,329 --> 00:51:19,859

in because obviously an AI can play

1014

00:51:25,669 --> 00:51:23,339

itself many more times than a human can

1015

00:51:27,229 --> 00:51:25,679

play a particular game and eventually it

1016

00:51:29,599 --> 00:51:27,239

learned the rules so nobody had to

1017

00:51:31,609 --> 00:51:29,609

program the rules and so that's kind of

1018

00:51:34,879 --> 00:51:31,619

the second wave of AI that we're in

1019

00:51:39,049 --> 00:51:34,889

today which is this idea of learning

1020

00:51:41,059 --> 00:51:39,059

through examples training sets you know

1021

00:51:43,879 --> 00:51:41,069

even today's self-driving cars you know

1022

00:51:44,989 --> 00:51:43,889

I actually live in between Boston and

1023

00:51:47,310 --> 00:51:44,999

Mountain View when I'm in Mountain View

1024

00:51:50,040 --> 00:51:47,320

I live right down the road from Google

1025

00:51:52,470 --> 00:51:50,050

and you know when I moved here in 2007 I

1026

00:51:54,300 --> 00:51:52,480

started to see these weird cars with

1027

00:51:56,040 --> 00:51:54,310

these weird cameras on and turns out

1028

00:51:57,990 --> 00:51:56,050

they were Google's early prototype for

1029

00:52:00,090 --> 00:51:58,000

self-driving cars and now it's fairly

1030

00:52:02,610 --> 00:52:00,100

common to see them you know all over and

1031

00:52:04,830 --> 00:52:02,620

you know they rely on a combination of

1032

00:52:06,270 --> 00:52:04,840

rules I mean the system has to know

1033

00:52:09,690 --> 00:52:06,280

something about the rules of the road

1034

00:52:11,100 --> 00:52:09,700

and learning from images and it's taking

1035

00:52:12,810 --> 00:52:11,110

all these pictures and originally the

1036

00:52:14,580 --> 00:52:12,820

camera used to spin around now they just

1037

00:52:16,290 --> 00:52:14,590

have lenses that face every direction so

1038

00:52:17,910 --> 00:52:16,300

it doesn't have to spin but they used to

1039

00:52:19,770 --> 00:52:17,920

just literally spin around and take all

1040

00:52:21,240 --> 00:52:19,780

these images and and that's how they

1041

00:52:24,810 --> 00:52:21,250

would figure it out and so I'm giving

1042

00:52:26,730 --> 00:52:24,820

you a long-winded answer here but the so

1043

00:52:28,620 --> 00:52:26,740

we're in that phase of AI right now

1044

00:52:31,230 --> 00:52:28,630

which is kind of the machine learning

1045

00:52:33,330 --> 00:52:31,240

phase I'm personally of the opinion that

1046

00:52:36,690 --> 00:52:33,340

it's gonna take a while before we get

1047

00:52:39,180 --> 00:52:36,700

artificial general intelligence and so I

1048

00:52:42,780 --> 00:52:39,190

put it out even further you know there's

1049

00:52:44,640 --> 00:52:42,790

some estimates here that 2039 I spin the

1050

00:52:46,680 --> 00:52:44,650

singularity right ray kurzweil you

1051
00:52:48,300 --> 00:52:46,690
mentioned right and you know the

1052
00:52:51,210 --> 00:52:48,310
singularity is a term that was defined

1053
00:52:52,830 --> 00:52:51,220
by a sci-fi writer Verner wind vinge

1054
00:52:56,700 --> 00:52:52,840
who's also a computer science professor

1055
00:53:00,180 --> 00:52:56,710
and he said it's the point beyond which

1056
00:53:01,800 --> 00:53:00,190
things change and there are different

1057
00:53:04,680 --> 00:53:01,810
ways that could happen one of the ways

1058
00:53:07,260 --> 00:53:04,690
is you get exponential intelligence

1059
00:53:09,090 --> 00:53:07,270
explosion so that the computers become

1060
00:53:11,730 --> 00:53:09,100
smarter than humans and I think that's

1061
00:53:13,070 --> 00:53:11,740
which leads to a lot of these doomsday

1062
00:53:15,180 --> 00:53:13,080
scenarios that people are worried about

1063
00:53:17,670 --> 00:53:15,190

Kurzweil also talks about being able to

1064

00:53:20,040 --> 00:53:17,680

upload your consciousness to Silicon as

1065

00:53:23,160 --> 00:53:20,050

an aspect of the singularity as well and

1066

00:53:27,120 --> 00:53:23,170

so I think he had said 2039 personally I

1067

00:53:29,370 --> 00:53:27,130

think it's closer you know to 2075 and

1068

00:53:31,890 --> 00:53:29,380

the reason I think that is because I

1069

00:53:33,690 --> 00:53:31,900

feel like this wave of AI and deep

1070

00:53:36,840 --> 00:53:33,700

learning is gonna go pretty far much

1071

00:53:38,250 --> 00:53:36,850

further than the previous wave did in

1072

00:53:40,740 --> 00:53:38,260

fact the previous wave was kind of seen

1073

00:53:42,810 --> 00:53:40,750

as a disappointment this time for very

1074

00:53:45,510 --> 00:53:42,820

specific tasks whether it's you know

1075

00:53:47,820 --> 00:53:45,520

identifying people or there's AI now

1076

00:53:50,700 --> 00:53:47,830

that's been shown to be better at

1077

00:53:52,890 --> 00:53:50,710

diagnosing you know cancer from looking

1078

00:53:54,930 --> 00:53:52,900

at x-rays or different diseases from

1079

00:53:57,600 --> 00:53:54,940

looking at x-rays in fact when I was at

1080

00:54:00,960 --> 00:53:57,610

MIT last year I think or two years ago

1081

00:54:03,510 --> 00:54:00,970

there was a company that was basically

1082

00:54:05,970 --> 00:54:03,520

training these different x-rays of CT

1083

00:54:08,010 --> 00:54:05,980

scans it was training the AI based upon

1084

00:54:09,630 --> 00:54:08,020

this and so right now there's still a

1085

00:54:12,000 --> 00:54:09,640

lot of training you have to do you can't

1086

00:54:14,640 --> 00:54:12,010

just say turn on the AI and it's gonna

1087

00:54:17,160 --> 00:54:14,650

do whatever you want it to do right we

1088

00:54:18,450 --> 00:54:17,170

don't have data yes we can just say you

1089

00:54:20,550 --> 00:54:18,460

know talk to him and have them learned

1090

00:54:23,240 --> 00:54:20,560

anything and have them read the history

1091

00:54:26,250 --> 00:54:23,250

of whatever subject we want them to read

1092

00:54:27,600 --> 00:54:26,260

but I feel like there's still another

1093

00:54:29,550 --> 00:54:27,610

breakthrough and we haven't quite

1094

00:54:31,260 --> 00:54:29,560

figured out what that breakthrough is so

1095

00:54:34,890 --> 00:54:31,270

I have a feeling this wave is gonna play

1096

00:54:37,410 --> 00:54:34,900

out over the next decade and then there

1097

00:54:40,830 --> 00:54:37,420

may be another decade or two before we

1098

00:54:41,940 --> 00:54:40,840

get you know to that final phase but you

1099

00:54:43,260 --> 00:54:41,950

know in the overall scheme of things

1100

00:54:47,340 --> 00:54:43,270

that's not that far right if you think

1101
00:54:50,970 --> 00:54:47,350
about it yeah weather is 2050 2075 2100

1102
00:54:53,310 --> 00:54:50,980
it's within 150 years or 100 years

1103
00:54:54,870 --> 00:54:53,320
really of the first computers right so

1104
00:54:57,360 --> 00:54:54,880
that's actually happening pretty quickly

1105
00:54:59,370 --> 00:54:57,370
on a cosmic timescale now do you think

1106
00:55:02,960 --> 00:54:59,380
we've got about two minutes before the

1107
00:55:05,370 --> 00:55:02,970
break three minutes do you think that

1108
00:55:08,550 --> 00:55:05,380
those that are dealing with machine

1109
00:55:11,190 --> 00:55:08,560
learning right now and certainly alphago

1110
00:55:14,940 --> 00:55:11,200
was a really good example of this which

1111
00:55:18,150 --> 00:55:14,950
is it's not massive amounts of code it's

1112
00:55:22,560 --> 00:55:18,160
not Kay locks for days it's actually the

1113
00:55:26,450 --> 00:55:22,570

opposite it's very very simple code you

1114

00:55:29,280 --> 00:55:26,460

know for that just a fundamental set of

1115

00:55:32,040 --> 00:55:29,290

instructions to go and learn anything

1116

00:55:36,360 --> 00:55:32,050

just like with a baby a baby just learns

1117

00:55:38,610 --> 00:55:36,370

on its own right you can teach but it's

1118

00:55:41,370 --> 00:55:38,620

going to learn on its own it's got a

1119

00:55:43,710 --> 00:55:41,380

very fundamental subset when it's born

1120

00:55:47,300 --> 00:55:43,720

and you are able to teach it and that

1121

00:55:50,400 --> 00:55:47,310

it's it the races to the simple code

1122

00:55:52,950 --> 00:55:50,410

like with alphago it wasn't learning

1123

00:55:55,650 --> 00:55:52,960

every possible move and go right that's

1124

00:56:00,510 --> 00:55:55,660

more stars in the universe than you have

1125

00:56:02,640 --> 00:56:00,520

with possible moves on a go board so it

1126

00:56:06,540 --> 00:56:02,650

was it was another approach that made

1127

00:56:09,000 --> 00:56:06,550

alphago work yeah and in fact it wasn't

1128

00:56:11,430 --> 00:56:09,010

so much the code so there was some code

1129

00:56:13,230 --> 00:56:11,440

and some some simple rules but the way

1130

00:56:13,970 --> 00:56:13,240

that deep learning words in the way that

1131

00:56:16,520 --> 00:56:13,980

neural networks in

1132

00:56:19,160 --> 00:56:16,530

general work is you have a a set of

1133

00:56:20,990 --> 00:56:19,170

nodes like neurons and they have weights

1134

00:56:23,660 --> 00:56:21,000

between them and what happens is when

1135

00:56:26,330 --> 00:56:23,670

you put give it examples what's actually

1136

00:56:28,160 --> 00:56:26,340

changing is the value of the weights and

1137

00:56:30,680 --> 00:56:28,170

the connections right if you think about

1138

00:56:33,290 --> 00:56:30,690

it Google became a better search engine

1139

00:56:35,210 --> 00:56:33,300

then you know Yahoo and excite and all

1140

00:56:37,760 --> 00:56:35,220

these others because they focused on the

1141

00:56:39,620 --> 00:56:37,770

links between websites and so what we're

1142

00:56:41,510 --> 00:56:39,630

really doing when we do machine learning

1143

00:56:45,590 --> 00:56:41,520

is we're focusing in on the weights

1144

00:56:46,970 --> 00:56:45,600

between the the layers of neurons and so

1145

00:56:49,099 --> 00:56:46,980

there's a lotta we won't have time to

1146

00:56:50,810 --> 00:56:49,109

get in the details and but there's lots

1147

00:56:53,660 --> 00:56:50,820

of different ways to do that but they

1148

00:56:55,820 --> 00:56:53,670

basically as you say you know this is a

1149

00:56:58,190 --> 00:56:55,830

winning move this is not a winning move

1150

00:56:59,960 --> 00:56:58,200

and if you do that you know a hundred

1151
00:57:02,390 --> 00:56:59,970
times a thousand times ten thousand

1152
00:57:04,250 --> 00:57:02,400
times a million times the Machine starts

1153
00:57:06,859 --> 00:57:04,260
to learn what the best outcomes are and

1154
00:57:08,780 --> 00:57:06,869
that gets put into the data so depending

1155
00:57:10,490 --> 00:57:08,790
on how many layers you have you might

1156
00:57:13,190 --> 00:57:10,500
not even have that many compared to like

1157
00:57:14,660 --> 00:57:13,200
a brain which might have billions of

1158
00:57:16,760 --> 00:57:14,670
neurons

1159
00:57:18,500 --> 00:57:16,770
most of these neural networks don't have

1160
00:57:20,270 --> 00:57:18,510
you know anywhere near that number right

1161
00:57:22,760 --> 00:57:20,280
you may have a dozen in a layer right

1162
00:57:24,290 --> 00:57:22,770
but it's the weights between them that

1163
00:57:25,430 --> 00:57:24,300

really make the difference in learning

1164

00:57:27,020 --> 00:57:25,440

and that's the only thing that's

1165

00:57:29,900 --> 00:57:27,030

changing while it's learning

1166

00:57:32,810 --> 00:57:29,910

yeah with alphago and I've watched the

1167

00:57:36,590 --> 00:57:32,820

documentary a few times there's a

1168

00:57:39,710 --> 00:57:36,600

specific moment in the championship this

1169

00:57:41,690 --> 00:57:39,720

went down in South Korea right you know

1170

00:57:44,480 --> 00:57:41,700

you've got what 30 40 million people

1171

00:57:48,320 --> 00:57:44,490

watching live like the Super Bowl it was

1172

00:57:51,680 --> 00:57:48,330

I believe it was moved 36 right and it's

1173

00:57:53,960 --> 00:57:51,690

alphago's move plays this unorthodox

1174

00:57:58,250 --> 00:57:53,970

move away from the action on the game

1175

00:58:03,230 --> 00:57:58,260

right and makes this move the kid the

1176

00:58:06,160 --> 00:58:03,240

world champion retired right it was like

1177

00:58:09,080 --> 00:58:06,170

it was a move later but he realized

1178

00:58:10,700 --> 00:58:09,090

right then and it was to like it was a

1179

00:58:15,920 --> 00:58:10,710

move that nobody would ever make ever

1180

00:58:18,890 --> 00:58:15,930

right but coming up with strategy on its

1181

00:58:21,440 --> 00:58:18,900

own way ahead of way ahead way

1182

00:58:24,230 --> 00:58:21,450

away and it was a it was amazing it was

1183

00:58:27,730 --> 00:58:24,240

that move 36 and everybody should hear

1184

00:58:31,190 --> 00:58:27,740

the commentators nobody nobody

1185

00:58:32,930 --> 00:58:31,200

understood it but he's watching you know

1186

00:58:35,569 --> 00:58:32,940

he's he's in the middle of the game and

1187

00:58:39,319 --> 00:58:35,579

he goes back to where he was on the

1188

00:58:41,539 --> 00:58:39,329

other part of the board and he's looking

1189

00:58:43,549 --> 00:58:41,549

at the the computers move right and he

1190

00:58:45,559 --> 00:58:43,559

could just see what he's think and he

1191

00:58:48,799 --> 00:58:45,569

makes the move computer makes another

1192

00:58:51,490 --> 00:58:48,809

play he throws and it just it just just

1193

00:58:54,349 --> 00:58:51,500

just caved it was absolutely incredible

1194

00:58:56,359 --> 00:58:54,359

incredible to see that let's say let's

1195

00:58:58,670 --> 00:58:56,369

take our break right here is our guest

1196

00:59:01,640 --> 00:58:58,680

tonight rizz Burke I am your host Jimmy

1197

00:59:04,400 --> 00:59:01,650

church tonight it is a full night a full

1198

00:59:07,549 --> 00:59:04,410

conversation of artificial intelligence

1199

00:59:09,890 --> 00:59:07,559

we're doing it all the good the bad and

1200

00:59:11,359 --> 00:59:09,900

the ugly I'm your host Jimmy Church

1201

00:59:15,109 --> 00:59:11,369

this is fade to black on the game

1202

00:59:17,120 --> 00:59:15,119

changer Network in kg RA the planet you

1203

00:59:20,059 --> 00:59:17,130

can follow me on Twitter I change radio

1204

00:59:21,859 --> 00:59:20,069

you can follow R is at R is Stanford

1205

00:59:38,910 --> 00:59:21,869

right there on Twitter I'll be right

1206

00:59:42,880 --> 00:59:40,750

this is fade to black

1207

00:59:46,570 --> 00:59:42,890

with Jimmy Church on the game changer

1208

00:59:48,390 --> 00:59:46,580

radio network at K GRA the global radio

1209

00:59:51,670 --> 00:59:48,400

alliance

1210

00:59:55,030 --> 00:59:51,680

this is kera digital broadcasting

1211

00:59:58,570 --> 00:59:55,040

station Salt Lake City Utah Van Buren

1212

01:00:00,190 --> 00:59:58,580

Arkansas hello my name is Billy Carson

1213

01:00:02,260 --> 01:00:00,200

and I'm a best-selling author and the

1214

01:00:04,060 --> 01:00:02,270

founder of forbidden knowledge TV

1215

01:00:06,310 --> 01:00:04,070

together with my team we have built a

1216

01:00:08,020 --> 01:00:06,320

all new conscious dreaming TV platform

1217

01:00:10,030 --> 01:00:08,030

designed with every family member in

1218

01:00:11,290 --> 01:00:10,040

mind if you have ever wanted to travel

1219

01:00:12,880 --> 01:00:11,300

the world and attend lectures and

1220

01:00:14,770 --> 01:00:12,890

workshops from your favorite speakers we

1221

01:00:17,440 --> 01:00:14,780

were able to look no further

1222

01:00:19,420 --> 01:00:17,450

forbidden knowledge dot TV there are

1223

01:00:20,440 --> 01:00:19,430

dozens of workshops and lectures from

1224

01:00:22,810 --> 01:00:20,450

speakers we know and love

1225

01:00:24,730 --> 01:00:22,820

we have also included amazing categories

1226

01:00:26,470 --> 01:00:24,740

to assure that your consciousness is

1227

01:00:29,020 --> 01:00:26,480

entertained and elevating on a daily

1228

01:00:31,380 --> 01:00:29,030

basis amazing interviews ancient history

1229

01:00:34,150 --> 01:00:31,390

essential knowledge wisdom teachings

1230

01:00:36,220 --> 01:00:34,160

documentaries conspiracies mysteries

1231

01:00:38,770 --> 01:00:36,230

health and fitness conscious cooking

1232

01:00:40,870 --> 01:00:38,780

meditations finance yoga and so much

1233

01:00:42,820 --> 01:00:40,880

more to start your free trial on any

1234

01:00:45,820 --> 01:00:42,830

mobile device or computer surf their

1235

01:00:47,860 --> 01:00:45,830

forbidden knowledge TV that's forbidden

1236

01:00:48,580 --> 01:00:47,870

nones with the number 4 forbidden

1237

01:00:55,050 --> 01:00:48,590

knowledge

1238

01:01:00,610 --> 01:00:57,820

introducing the new surfer music app

1239

01:01:04,150 --> 01:01:00,620

listen fate or not you know I love my

1240

01:01:07,090 --> 01:01:04,160

music this is my go-to for all things

1241

01:01:09,370 --> 01:01:07,100

notes the surfer hat is a brand new

1242

01:01:11,440 --> 01:01:09,380

concept of music listening surfer is

1243

01:01:13,390 --> 01:01:11,450

free providing unlimited access to

1244

01:01:15,700 --> 01:01:13,400

thousands of live streaming radio

1245

01:01:17,440 --> 01:01:15,710

stations surfer is an exciting

1246

01:01:20,069 --> 01:01:17,450

interactive listening experience

1247

01:01:22,920 --> 01:01:20,079

discovery and surprise are built right

1248

01:01:25,680 --> 01:01:22,930

surfer is your destination to discover

1249

01:01:28,199 --> 01:01:25,690

and rediscover great live streaming

1250

01:01:30,390 --> 01:01:28,209

music it features high quality audio

1251

01:01:32,160 --> 01:01:30,400

streams free access to music from

1252

01:01:34,859 --> 01:01:32,170

thousands of live streaming radio

1253

01:01:37,589 --> 01:01:34,869

stations unlimited listening unlimited

1254

01:01:39,269 --> 01:01:37,599

skipping you get a music visualizer and

1255

01:01:41,370 --> 01:01:39,279

you can also select your favorite

1256

01:01:42,900 --> 01:01:41,380

channels get it at the Apple App Store

1257

01:01:46,019 --> 01:01:42,910

or Google Play

1258

01:01:48,299 --> 01:01:46,029

just search surfer music or click on the

1259

01:01:54,630 --> 01:01:48,309

surfer banner at jimmy church radio calm

1260

01:01:57,539 --> 01:01:54,640

go back Lee Tempe let's get this man to

1261

01:02:00,059 --> 01:01:57,549

the ER stat right away we see this every

1262

01:02:02,489 --> 01:02:00,069

day heart attack or angina pain due to

1263

01:02:04,890 --> 01:02:02,499

blocked and clogged arteries chelation

1264

01:02:07,019 --> 01:02:04,900

can remove obstructions or blockages

1265

01:02:09,630 --> 01:02:07,029

from arteries and help avoid painful and

1266

01:02:11,880 --> 01:02:09,640

expensive surgery now there's angiogram

1267

01:02:13,650 --> 01:02:11,890

it's a liquid oral chelation product

1268

01:02:15,959 --> 01:02:13,660

that you take with juice you start to

1269

01:02:17,789 --> 01:02:15,969

feel the results fast angio primm

1270

01:02:19,979 --> 01:02:17,799

increases blood flow all over the body

1271

01:02:22,049 --> 01:02:19,989

and that means more energy and strength

1272

01:02:24,749 --> 01:02:22,059

to take on the day with less aches and

1273

01:02:27,749 --> 01:02:24,759

pains 60 years of research has gone into

1274

01:02:30,630 --> 01:02:27,759

chelation and angiogram is the result a

1275

01:02:32,489 --> 01:02:30,640

safe and easy way to unblock your veins

1276

01:02:38,069 --> 01:02:32,499

and arteries from build-up that slow

1277

01:02:42,989 --> 01:02:38,079

circulation log on now to angio prim

1278

01:02:45,089 --> 01:02:42,999

calm that ang io PRI am calm or to speak

1279

01:02:47,009 --> 01:02:45,099

with a trained consultant give angio

1280

01:02:49,259 --> 01:02:47,019

Primack call at nine fifty four eight

1281

01:02:51,449 --> 01:02:49,269

eight two seventy two twenty one that's

1282

01:02:59,310 --> 01:02:51,459

nine fifty four eight eight two seventy

1283

01:03:03,820 --> 01:03:01,960

hi this is race Hobbs here repping the

1284

01:03:06,820 --> 01:03:03,830

planet and you're listening to my good

1285

01:03:09,340 --> 01:03:06,830

friend Jimmy Church fade to black

1286

01:03:13,930 --> 01:03:09,350

on the game changer network and the kgr

1287

01:03:16,090 --> 01:03:13,940

a digital broadcast station this is Toby

1288

01:03:37,060 --> 01:03:16,100

Kebbell you're listening to Jimmy Church

1289

01:03:39,070 --> 01:03:37,070

radio calm this is Jimmy Church of fade

1290

01:03:40,930 --> 01:03:39,080

to black and you can become an official

1291

01:03:43,930 --> 01:03:40,940

fader not by just going to our

1292

01:03:47,920 --> 01:03:43,940

membership section at Jimmy Church radio

1293

01:03:49,930 --> 01:03:47,930

calm hello this is Serena right kayla

1294

01:03:51,970 --> 01:03:49,940

from conscious life Expo and you're

1295

01:03:54,460 --> 01:03:51,980

listening to fade to black with Jimmy

1296

01:03:56,610 --> 01:03:54,470

Church who holds the Lucky Pony record

1297

01:03:59,950 --> 01:03:56,620

for the best astrological chart since

1298

01:04:02,200 --> 01:03:59,960

1963 true story

1299

01:04:03,880 --> 01:04:02,210

this is Micah Hank so the graylien

1300

01:04:06,190 --> 01:04:03,890

report and you're listening to jimmy

1301

01:04:08,320 --> 01:04:06,200

church on fade to black across the globe

1302

01:04:11,610 --> 01:04:08,330

on the GameChanger radio network and the

1303

01:04:31,380 --> 01:04:11,620

one and only kgr a radio the planet

1304

01:04:33,700 --> 01:04:31,390

[Music]

1305

01:04:36,609 --> 01:04:33,710

welcome back fade to black I am your

1306

01:04:38,829 --> 01:04:36,619

host Jimmy church tonight Risberg we are

1307

01:04:44,109 --> 01:04:38,839

discussing artificial intelligence all

1308

01:04:47,980 --> 01:04:44,119

bylaws whiz has two books out too first

1309

01:04:51,339 --> 01:04:47,990

off the simulation hypothesis which R is

1310

01:04:54,490 --> 01:04:51,349

and I have covered a couple of times now

1311

01:04:58,120 --> 01:04:54,500

on this program is out and his newest

1312

01:05:00,400 --> 01:04:58,130

release is startup myths and models you

1313

01:05:02,920 --> 01:05:00,410

can go to Zen entrepreneur.com

1314

01:05:03,930 --> 01:05:02,930

and the links are over at Jimmy Church

1315

01:05:07,839 --> 01:05:03,940

radio.com

1316

01:05:11,549 --> 01:05:07,849

now R is now this is this is this is

1317

01:05:14,140 --> 01:05:11,559

what I find so interesting I could have

1318

01:05:16,580 --> 01:05:14,150

right now you're on the show right

1319

01:05:21,329 --> 01:05:16,590

you're here we're discussing this oh

1320

01:05:22,720 --> 01:05:21,339

[Laughter]

1321

01:05:27,099 --> 01:05:22,730

yeah we are

1322

01:05:31,089 --> 01:05:27,109

it's AI bro it's AI and and and and you

1323

01:05:35,769 --> 01:05:31,099

have your knowledge you're an instructor

1324

01:05:37,900 --> 01:05:35,779

you're your a guide right you're a

1325

01:05:40,420 --> 01:05:37,910

mentor to so many different people not

1326

01:05:42,940 --> 01:05:40,430

only with computers but technology in

1327

01:05:45,130 --> 01:05:42,950

general right so you know what's going

1328

01:05:48,579 --> 01:05:45,140

on and then I could bring on somebody

1329

01:05:53,650 --> 01:05:48,589

like Sam Harris or Elon Musk where

1330

01:05:55,660 --> 01:05:53,660

they're just gonna go we're doomed and

1331

01:05:58,809 --> 01:05:55,670

they have their knowledge right and

1332

01:06:00,670 --> 01:05:58,819

they're following you know I just read

1333

01:06:04,569 --> 01:06:00,680

what's the book that came out three or

1334

01:06:08,700 --> 01:06:04,579

four years ago super intelligence by

1335

01:06:12,150 --> 01:06:08,710

Nick Nick Bostrom yeah Nick Bostrom and

1336

01:06:16,599 --> 01:06:12,160

now you you go through that book and

1337

01:06:19,029 --> 01:06:16,609

most of it is pretty logical you know

1338

01:06:20,109 --> 01:06:19,039

he's a very smart guy I don't mean it in

1339

01:06:22,120 --> 01:06:20,119

a bad way

1340

01:06:24,400 --> 01:06:22,130

but it's stuff that makes a lot of sense

1341

01:06:27,370 --> 01:06:24,410

it there's only a couple of pages in

1342

01:06:30,130 --> 01:06:27,380

that book at a real doom and gloom but

1343

01:06:33,370 --> 01:06:30,140

people have grasped those few pages of

1344

01:06:36,370 --> 01:06:33,380

that book to say that this is where we

1345

01:06:41,510 --> 01:06:36,380

are headed and a lot of people accept it

1346

01:06:45,890 --> 01:06:41,520

now as as gospel why why this the

1347

01:06:50,750 --> 01:06:45,900

is this why dichotomy of opinion of what

1348

01:06:52,070 --> 01:06:50,760

AI means to the future robust sure well

1349

01:06:54,560 --> 01:06:52,080

you know earlier I mentioned these

1350

01:06:57,710 --> 01:06:54,570

different waves of AI and I think what

1351

01:07:00,350 --> 01:06:57,720

what happened with this second wave you

1352

01:07:02,810 --> 01:07:00,360

know there was a group of researchers in

1353

01:07:05,060 --> 01:07:02,820

I think University of Waterloo somewhere

1354

01:07:07,610 --> 01:07:05,070

in Canada and who were working on this

1355

01:07:10,100 --> 01:07:07,620

throughout the decade of the 2000s and

1356

01:07:13,520 --> 01:07:10,110

back then nobody was really paying any

1357

01:07:16,250 --> 01:07:13,530

attention to it right and in fact you

1358

01:07:18,470 --> 01:07:16,260

know they won the what's the Nobel Prize

1359

01:07:20,990 --> 01:07:18,480

of computing and you know one of the

1360

01:07:23,120 --> 01:07:21,000

guys who was kind of a mentor in that

1361

01:07:25,340 --> 01:07:23,130

group or the senior guy in the group and

1362

01:07:27,080 --> 01:07:25,350

he said you know people told him why are

1363

01:07:29,150 --> 01:07:27,090

you wasting your time on this stuff

1364

01:07:30,500 --> 01:07:29,160

right so what happened in the last

1365

01:07:34,490 --> 01:07:30,510

decade is I think people have been

1366

01:07:35,810 --> 01:07:34,500

surprised at how quickly this new mode

1367

01:07:38,600 --> 01:07:35,820

of machine learning and deep learning

1368

01:07:42,140 --> 01:07:38,610

has allowed AI to do tasks that people

1369

01:07:44,900 --> 01:07:42,150

thought we're not gonna ever be able to

1370

01:07:47,180 --> 01:07:44,910

be done and so when your eyes start to

1371

01:07:50,000 --> 01:07:47,190

open and you're like oh you know you can

1372

01:07:51,380 --> 01:07:50,010

actually see a car driving around that's

1373

01:07:53,750 --> 01:07:51,390

not something we thought we would see

1374

01:07:56,540 --> 01:07:53,760

anytime soon and you know if you look at

1375

01:07:59,330 --> 01:07:56,550

the history of that DARPA put on a

1376

01:08:01,190 --> 01:07:59,340

competition right in the desert for cars

1377

01:08:02,500 --> 01:08:01,200

you know that could drive and there were

1378

01:08:05,810 --> 01:08:02,510

teams from a bunch of different places

1379

01:08:08,390 --> 01:08:05,820

that were working on it and you know the

1380

01:08:09,860 --> 01:08:08,400

first one nobody came even close to just

1381

01:08:14,110 --> 01:08:09,870

being able to drive around no it was

1382

01:08:18,230 --> 01:08:14,120

automating in cars that could crash well

1383

01:08:21,230 --> 01:08:18,240

I was relieved by the way I was relieved

1384

01:08:22,610 --> 01:08:21,240

I didn't want to see you know say you

1385

01:08:26,570 --> 01:08:22,620

know a couple of you know you know

1386

01:08:28,099 --> 01:08:26,580

perfectly effortlessly with speed and

1387

01:08:30,460 --> 01:08:28,109

direct you know what I mean across the

1388

01:08:33,349 --> 01:08:30,470

finish line because that would indicate

1389

01:08:35,150 --> 01:08:33,359

progress that nobody was really aware of

1390

01:08:38,329 --> 01:08:35,160

I was pretty happy to see things in

1391

01:08:40,309 --> 01:08:38,339

ditches right and that was I forget the

1392

01:08:42,230 --> 01:08:40,319

year but it was sort of early 2000s I

1393

01:08:44,030 --> 01:08:42,240

think and as I said I mentioned by the

1394

01:08:45,920 --> 01:08:44,040

time that I moved to Mountain View in

1395

01:08:48,829 --> 01:08:45,930

2007 we had there were cars already

1396

01:08:50,300 --> 01:08:48,839

driving around on their own I mean yet

1397

01:08:53,360 --> 01:08:50,310

you still had to have drivers there just

1398

01:08:54,769 --> 01:08:53,370

in case in these Google cars today it's

1399

01:08:56,599 --> 01:08:54,779

known as way mo

1400

01:08:58,430 --> 01:08:56,609

so I think it caught a lot of people by

1401
01:09:01,609 --> 01:08:58,440
surprise how quickly I mean I think the

1402
01:09:03,799 --> 01:09:01,619
second or third time DARPA ran that race

1403
01:09:06,559 --> 01:09:03,809
that there were teams that were did a

1404
01:09:08,930 --> 01:09:06,569
pretty good job of having of navigating

1405
01:09:12,109 --> 01:09:08,940
at least the particular terrain which

1406
01:09:14,599 --> 01:09:12,119
was still a very specific environment

1407
01:09:16,189 --> 01:09:14,609
and so given the amount of money that

1408
01:09:18,169 --> 01:09:16,199
was spent over the last decade you know

1409
01:09:20,779 --> 01:09:18,179
companies like GM and they have Cruz

1410
01:09:23,839 --> 01:09:20,789
Tesla has its own self-driving just into

1411
01:09:26,359 --> 01:09:23,849
that one aspect of AI which is the

1412
01:09:29,180 --> 01:09:26,369
self-driving car I think it's it's

1413
01:09:30,649 --> 01:09:29,190

become I open and that's why people were

1414

01:09:34,069 --> 01:09:30,659

quite surprised I mean we all watch the

1415

01:09:38,209 --> 01:09:34,079

terminator back in the 80s and TT was in

1416

01:09:39,200 --> 01:09:38,219

the 90s and you know it was a I don't

1417

01:09:41,779 --> 01:09:39,210

know if not many people know this but

1418

01:09:44,240 --> 01:09:41,789

you know James Cameron had a had a dream

1419

01:09:45,769 --> 01:09:44,250

of robots emerging from a fire it was a

1420

01:09:49,309 --> 01:09:45,779

nightmare more than anything when he was

1421

01:09:50,599 --> 01:09:49,319

filming some b-movie in Italy and he

1422

01:09:51,589 --> 01:09:50,609

woke up and he wasn't sure what to do

1423

01:09:54,919 --> 01:09:51,599

this vision he couldn't get it out of

1424

01:09:56,299 --> 01:09:54,929

his head and his friend Gail said why

1425

01:09:57,500 --> 01:09:56,309

don't you draw a picture so he drew a

1426
01:09:58,669 --> 01:09:57,510
picture and then she said why don't you

1427
01:10:00,529 --> 01:09:58,679
write a screenplay and he wrote a

1428
01:10:02,180 --> 01:10:00,539
screenplay but so you know this

1429
01:10:04,970 --> 01:10:02,190
terrifying vision I think has been out

1430
01:10:07,549 --> 01:10:04,980
there and it's pervaded in the media

1431
01:10:09,109 --> 01:10:07,559
even going to you know one of my and

1432
01:10:10,339 --> 01:10:09,119
your favorite movies The Matrix right

1433
01:10:13,850 --> 01:10:10,349
where there were super intelligent

1434
01:10:16,160 --> 01:10:13,860
machines that were keeping neo and

1435
01:10:18,560 --> 01:10:16,170
everyone inside the simulation and so I

1436
01:10:22,129 --> 01:10:18,570
think you know that has pervaded the

1437
01:10:23,750 --> 01:10:22,139
consciousness from the media and then

1438
01:10:26,149 --> 01:10:23,760

when when people began to see in the

1439

01:10:27,709 --> 01:10:26,159

last decade how quickly a I was making

1440

01:10:29,899 --> 01:10:27,719

progress we jumped to these doomsday

1441

01:10:32,120 --> 01:10:29,909

scenarios now I'm not saying that there

1442

01:10:33,919 --> 01:10:32,130

aren't doomsday scenarios in fact I

1443

01:10:38,720 --> 01:10:33,929

think I'm a little more worried about

1444

01:10:41,240 --> 01:10:38,730

doomsday scenarios than maybe you know

1445

01:10:42,470 --> 01:10:41,250

some some scientists are because you

1446

01:10:44,510 --> 01:10:42,480

know they're all worried about super

1447

01:10:47,029 --> 01:10:44,520

intelligence right so the word of that

1448

01:10:47,720 --> 01:10:47,039

AI will get so smart that it doesn't

1449

01:10:49,970 --> 01:10:47,730

need us anymore

1450

01:10:53,149 --> 01:10:49,980

and therefore it will decide to wipe us

1451

01:10:54,410 --> 01:10:53,159

out and you know my worry and I wrote an

1452

01:10:56,209 --> 01:10:54,420

article about this I think we even

1453

01:10:58,850 --> 01:10:56,219

talked about it on a show a couple years

1454

01:11:00,799 --> 01:10:58,860

ago is it's kind of like having a 10th

1455

01:11:02,899 --> 01:11:00,809

level black belt versus a first level

1456

01:11:04,850 --> 01:11:02,909

black belt like if your sparring with

1457

01:11:05,930 --> 01:11:04,860

the 10th level black belt you're

1458

01:11:07,100 --> 01:11:05,940

probably gonna lose but he's probably

1459

01:11:08,000 --> 01:11:07,110

not gonna hurt you because there's

1460

01:11:11,149 --> 01:11:08,010

enough control

1461

01:11:14,180 --> 01:11:11,159

there you know there's enough refinement

1462

01:11:15,649 --> 01:11:14,190

to know but somebody who just got the

1463

01:11:16,939 --> 01:11:15,659

black belt may not be that refined

1464

01:11:20,180 --> 01:11:16,949

you're more likely to get hurt

1465

01:11:22,370 --> 01:11:20,190

unintentionally is so my worry is more

1466

01:11:24,589 --> 01:11:22,380

and I think this is where the doomsday

1467

01:11:27,620 --> 01:11:24,599

fear comes in is is when you start

1468

01:11:30,140 --> 01:11:27,630

marrying weapons together with

1469

01:11:32,060 --> 01:11:30,150

autonomous systems so you get this area

1470

01:11:34,729 --> 01:11:32,070

of autonomous weapons and there was a

1471

01:11:36,229 --> 01:11:34,739

petition I think like 2000 scientists

1472

01:11:38,810 --> 01:11:36,239

sign that a few years ago and Elon Musk

1473

01:11:41,419 --> 01:11:38,820

was part of that group that said we

1474

01:11:43,189 --> 01:11:41,429

should not develop autonomous weapons

1475

01:11:45,529 --> 01:11:43,199

right you get into kind of like the

1476

01:11:47,930 --> 01:11:45,539

Robocop or in the Terminator scenario

1477

01:11:49,759 --> 01:11:47,940

where they said Skynet was put in charge

1478

01:11:53,029 --> 01:11:49,769

of all the bombing runs and it had a

1479

01:11:56,359 --> 01:11:53,039

hundred percent accuracy I'm actually

1480

01:11:59,509 --> 01:11:56,369

not so worried that that could happen I

1481

01:12:01,669 --> 01:11:59,519

mean I I mean I am worried because that

1482

01:12:05,709 --> 01:12:01,679

actually could happen in the same way

1483

01:12:09,160 --> 01:12:05,719

that AI is getting better at diagnosing

1484

01:12:11,450 --> 01:12:09,170

you know for looking at CT scans and

1485

01:12:12,470 --> 01:12:11,460

when you think about bombing you're

1486

01:12:14,479 --> 01:12:12,480

really just trying to hit a certain

1487

01:12:17,569 --> 01:12:14,489

target right all right so if you just

1488

01:12:20,000 --> 01:12:17,579

told AI to just focus on bombing it's

1489

01:12:21,669 --> 01:12:20,010

gonna get very good at just bombing the

1490

01:12:24,200 --> 01:12:21,679

exact target you said the problem maybe

1491

01:12:26,720 --> 01:12:24,210

if you then tell it to pick a target

1492

01:12:28,729 --> 01:12:26,730

that's where things get scary it is

1493

01:12:32,600 --> 01:12:28,739

you know what's you know this is what is

1494

01:12:36,799 --> 01:12:32,610

scary I would rather have a human being

1495

01:12:39,979 --> 01:12:36,809

with a gun right in military in full-on

1496

01:12:44,209 --> 01:12:39,989

battle fatigue marching at me down the

1497

01:12:47,839 --> 01:12:44,219

street then some frigging AI Droid with

1498

01:12:52,430 --> 01:12:47,849

a gun coming at me I can't negotiate

1499

01:12:54,290 --> 01:12:52,440

I can't negotiate with you know I can't

1500

01:12:56,120 --> 01:12:54,300

negotiate with a machine number one

1501
01:12:59,720 --> 01:12:56,130
number two the machines not going to

1502
01:13:02,330 --> 01:12:59,730
miss three the the the machine doesn't

1503
01:13:04,220 --> 01:13:02,340
have a wife and kids at home right there

1504
01:13:05,839 --> 01:13:04,230
there's no empathy there there isn't

1505
01:13:08,299 --> 01:13:05,849
anything going on there isn't the human

1506
01:13:12,979 --> 01:13:08,309
connection at least you got a ray of

1507
01:13:14,990 --> 01:13:12,989
hope you could surrender you know but

1508
01:13:16,790 --> 01:13:15,000
but you're not gonna that's that's what

1509
01:13:18,820 --> 01:13:16,800
scares me because you're dealing with

1510
01:13:21,310 --> 01:13:18,830
something that it may

1511
01:13:25,030 --> 01:13:21,320
an AI component to it that is driving it

1512
01:13:27,040 --> 01:13:25,040
but there's no emotion there right

1513
01:13:28,840 --> 01:13:27,050

there's no emotion no empathy it's kind

1514

01:13:30,610 --> 01:13:28,850

of like in the Star Trek The Next

1515

01:13:33,520 --> 01:13:30,620

Generation movies right where data

1516

01:13:35,380 --> 01:13:33,530

finally got his emotion chip right but

1517

01:13:37,210 --> 01:13:35,390

then he wasn't able to function in a

1518

01:13:39,490 --> 01:13:37,220

crisis as he was getting too emotional

1519

01:13:41,200 --> 01:13:39,500

right and Picard says data you might

1520

01:13:44,560 --> 01:13:41,210

want to turn off your emotion chip just

1521

01:13:47,650 --> 01:13:44,570

for now wait cleaning the operation what

1522

01:13:53,340 --> 01:13:47,660

do you think motivates what what does

1523

01:13:57,130 --> 01:13:53,350

Elon know that would make him you know

1524

01:13:59,530 --> 01:13:57,140

present these statements publicly about

1525

01:14:03,310 --> 01:13:59,540

some very scary scenarios when it comes

1526
01:14:06,250 --> 01:14:03,320
to AI because people listen to him yeah

1527
01:14:09,100 --> 01:14:06,260
what motivates him what is it that he

1528
01:14:10,450 --> 01:14:09,110
knows it's a good question and I don't

1529
01:14:12,670 --> 01:14:10,460
know the answer to that but I can

1530
01:14:15,850 --> 01:14:12,680
speculate because he also you know has

1531
01:14:17,590 --> 01:14:15,860
this company and neural link yep which

1532
01:14:21,250 --> 01:14:17,600
he's been talking about a lot lately and

1533
01:14:24,160 --> 01:14:21,260
the idea there is to actually augment

1534
01:14:27,130 --> 01:14:24,170
the human brain with AI by putting a

1535
01:14:28,540 --> 01:14:27,140
chip you know into into the head and

1536
01:14:32,500 --> 01:14:28,550
then having it wirelessly communicate

1537
01:14:36,780 --> 01:14:32,510
and so the idea there is Elon is worried

1538
01:14:39,430 --> 01:14:36,790

that AI will eventually outpace humans

1539

01:14:41,800 --> 01:14:39,440

with super intelligence and so we need

1540

01:14:44,830 --> 01:14:41,810

to become more intelligent right and so

1541

01:14:46,470 --> 01:14:44,840

that's what he's publicly stated is you

1542

01:14:48,880 --> 01:14:46,480

know part of his motivation for

1543

01:14:50,860 --> 01:14:48,890

investing in this company and and and

1544

01:14:53,650 --> 01:14:50,870

really focusing in on it is to find ways

1545

01:14:56,020 --> 01:14:53,660

to make the human brain more intelligent

1546

01:14:58,750 --> 01:14:56,030

so that it can process as much as any AI

1547

01:15:00,130 --> 01:14:58,760

and I believe there's actually some even

1548

01:15:03,130 --> 01:15:00,140

though I'm not a big fan of putting a

1549

01:15:05,560 --> 01:15:03,140

chip in your head right and you know our

1550

01:15:07,090 --> 01:15:05,570

mutual friend dannion brinkley you know

1551

01:15:10,660 --> 01:15:07,100

had a lot of interesting prophecies

1552

01:15:13,410 --> 01:15:10,670

about that scenario that that that would

1553

01:15:15,730 --> 01:15:13,420

also qualify his doomsday scenarios but

1554

01:15:19,330 --> 01:15:15,740

there's been a debate within the AI

1555

01:15:22,300 --> 01:15:19,340

communities is is AI there to augment

1556

01:15:24,610 --> 01:15:22,310

human intelligence or is it there to

1557

01:15:27,360 --> 01:15:24,620

replace human intelligence now if you

1558

01:15:30,070 --> 01:15:27,370

went back to the 80s like early eighties

1559

01:15:31,490 --> 01:15:30,080

the Japanese were making progress with

1560

01:15:33,410 --> 01:15:31,500

AI and we were making

1561

01:15:35,390 --> 01:15:33,420

progress here in the US and people

1562

01:15:38,420 --> 01:15:35,400

thought we were gonna have AGI by the

1563

01:15:41,060 --> 01:15:38,430

end of the 80s right so there's a long

1564

01:15:43,820 --> 01:15:41,070

history of people being worried about AI

1565

01:15:47,000 --> 01:15:43,830

becoming you know as smart as the humans

1566

01:15:48,680 --> 01:15:47,010

but then I think what shifted is people

1567

01:15:50,840 --> 01:15:48,690

realize that well it's not about whether

1568

01:15:53,300 --> 01:15:50,850

they're as smart as humans right I mean

1569

01:15:56,660 --> 01:15:53,310

AI may be better at different kinds of

1570

01:16:00,290 --> 01:15:56,670

things and so if you focus it in and you

1571

01:16:02,300 --> 01:16:00,300

augment what humans can do with AI like

1572

01:16:04,640 --> 01:16:02,310

it's really good at processing lots of

1573

01:16:06,380 --> 01:16:04,650

information but it's not so good at

1574

01:16:08,240 --> 01:16:06,390

making like we talked about you know

1575

01:16:12,770 --> 01:16:08,250

empathy human level judgments and this

1576

01:16:14,660 --> 01:16:12,780

is why with drones and you know there's

1577

01:16:16,490 --> 01:16:14,670

a history with the different Defense

1578

01:16:18,830 --> 01:16:16,500

Department in fact as I mentioned DARPA

1579

01:16:20,480 --> 01:16:18,840

put on that first competition for the

1580

01:16:22,490 --> 01:16:20,490

autonomous vehicles in the desert and

1581

01:16:24,320 --> 01:16:22,500

why did they do that because they didn't

1582

01:16:25,930 --> 01:16:24,330

want to send soldiers out to hazardous

1583

01:16:29,680 --> 01:16:25,940

situation they'd rather just sent

1584

01:16:32,390 --> 01:16:29,690

self-driving cars sort of tanks really

1585

01:16:36,170 --> 01:16:32,400

so there is definitely a lot of interest

1586

01:16:37,940 --> 01:16:36,180

I mean the first real robot they you

1587

01:16:40,370 --> 01:16:37,950

know in that could move around was a

1588

01:16:43,190 --> 01:16:40,380

robot called shakey and that was at

1589

01:16:46,520 --> 01:16:43,200

Stanford Research Institute back in the

1590

01:16:47,960 --> 01:16:46,530

1970s it was even on life life magazine

1591

01:16:50,600 --> 01:16:47,970

I don't was in the cover or it was just

1592

01:16:53,510 --> 01:16:50,610

in the magazine itself but you know it

1593

01:16:55,370 --> 01:16:53,520

had trouble really navigating hallways

1594

01:16:57,050 --> 01:16:55,380

and things on its own but there were a

1595

01:16:59,180 --> 01:16:57,060

lot of advances that came from that

1596

01:17:02,330 --> 01:16:59,190

including you know finding the shortest

1597

01:17:06,650 --> 01:17:02,340

path algorithms which then work their

1598

01:17:08,960 --> 01:17:06,660

way into like when you go to Google Maps

1599

01:17:10,580 --> 01:17:08,970

and you get directions right so a lot of

1600

01:17:12,830 --> 01:17:10,590

those algorithms have worked their way

1601
01:17:14,330 --> 01:17:12,840
to these but there's a history in the

1602
01:17:17,360 --> 01:17:14,340
Department of Defense at least in the

1603
01:17:21,500 --> 01:17:17,370
u.s. of wanting to be able to replace

1604
01:17:22,910 --> 01:17:21,510
soldiers and not risk human lives but of

1605
01:17:24,770 --> 01:17:22,920
course the flip side of that is if

1606
01:17:27,080 --> 01:17:24,780
you're on the other side and the robots

1607
01:17:28,370 --> 01:17:27,090
are coming at you right there's more of

1608
01:17:30,290 --> 01:17:28,380
a chance that they're going to kill you

1609
01:17:32,690 --> 01:17:30,300
just because they you know that's what

1610
01:17:34,460 --> 01:17:32,700
they're good at so so I think there's

1611
01:17:38,750 --> 01:17:34,470
some judgment things that need to be

1612
01:17:41,570 --> 01:17:38,760
done and my worry is that that they will

1613
01:17:43,850 --> 01:17:41,580

get really good at these tasks and once

1614

01:17:44,880 --> 01:17:43,860

you hook them up to these tasks to

1615

01:17:46,320 --> 01:17:44,890

autonomous weapon

1616

01:17:48,600 --> 01:17:46,330

I'm not so worried about that they're

1617

01:17:50,370 --> 01:17:48,610

gonna be so intelligent right because if

1618

01:17:51,780 --> 01:17:50,380

they're so much more intelligent than us

1619

01:17:53,370 --> 01:17:51,790

they can probably make judgments about

1620

01:17:56,700 --> 01:17:53,380

when they should kill or not kill and

1621

01:17:57,240 --> 01:17:56,710

super intelligent AI may not care about

1622

01:18:00,120 --> 01:17:57,250

us

1623

01:18:02,970 --> 01:18:00,130

right if you remember in the movie her

1624

01:18:06,480 --> 01:18:02,980

right did you see that movie I did you

1625

01:18:09,000 --> 01:18:06,490

know at the end the his AI girlfriend

1626

01:18:11,640 --> 01:18:09,010

and all the other a eyes decide to go

1627

01:18:15,270 --> 01:18:11,650

somewhere where do they go I mean they

1628

01:18:17,460 --> 01:18:15,280

don't really care I mean AI you have to

1629

01:18:18,990 --> 01:18:17,470

look at the the values and I think in

1630

01:18:22,050 --> 01:18:19,000

that book super intelligence there's

1631

01:18:24,270 --> 01:18:22,060

another one by Max tegmark called life

1632

01:18:27,630 --> 01:18:24,280

studio they talk about what are the

1633

01:18:29,910 --> 01:18:27,640

values that the AI has and so this is

1634

01:18:31,290 --> 01:18:29,920

actually really important and I think

1635

01:18:33,000 --> 01:18:31,300

what all these scientists are worried

1636

01:18:36,150 --> 01:18:33,010

about is we haven't put enough thought

1637

01:18:38,400 --> 01:18:36,160

into what are the values they're going

1638

01:18:41,100 --> 01:18:38,410

to have like in Terminator you know that

1639

01:18:43,650 --> 01:18:41,110

they want to kill and enslave the humans

1640

01:18:46,830 --> 01:18:43,660

but why right if you really are just

1641

01:18:48,480 --> 01:18:46,840

software would you rather be here or not

1642

01:18:51,300 --> 01:18:48,490

or would you rather just be in some

1643

01:18:53,070 --> 01:18:51,310

virtual environment that has nothing to

1644

01:18:55,260 --> 01:18:53,080

do with the physical world you just need

1645

01:18:57,210 --> 01:18:55,270

enough of the physical world that you

1646

01:18:58,620 --> 01:18:57,220

can keep getting electricity of course

1647

01:19:00,750 --> 01:18:58,630

that leads to the matrix doomsday

1648

01:19:02,610 --> 01:19:00,760

scenario the super intelligent machines

1649

01:19:06,000 --> 01:19:02,620

are using right right brain for

1650

01:19:07,800 --> 01:19:06,010

electricity that that's not you know an

1651

01:19:09,330 --> 01:19:07,810

acceptance scenario in any serious

1652

01:19:11,010 --> 01:19:09,340

technology discussion but it's kind of a

1653

01:19:13,770 --> 01:19:11,020

fun one but you know you would think

1654

01:19:16,470 --> 01:19:13,780

some some type of solar energy would be

1655

01:19:18,330 --> 01:19:16,480

enough for the AI to kind of be happy in

1656

01:19:21,630 --> 01:19:18,340

and of itself so it's when you start

1657

01:19:24,240 --> 01:19:21,640

having AI that's more physical and that

1658

01:19:26,370 --> 01:19:24,250

has a sense of itself you know I

1659

01:19:30,300 --> 01:19:26,380

sometimes call this the Star Wars versus

1660

01:19:34,590 --> 01:19:30,310

Star Trek view of AI right in Star Wars

1661

01:19:37,380 --> 01:19:34,600

which came out in 76 right the droids

1662

01:19:40,350 --> 01:19:37,390

were really kind of the AI right they

1663

01:19:41,850 --> 01:19:40,360

were physical robots and anytime they

1664

01:19:44,760 --> 01:19:41,860

needed to do something in the Death Star

1665

01:19:47,610 --> 01:19:44,770

they would have r2d2 plug in right over

1666

01:19:50,580 --> 01:19:47,620

the the Metroid's or whatever they call

1667

01:19:52,620 --> 01:19:50,590

astromech droids plug in and do it for

1668

01:19:54,780 --> 01:19:52,630

them and c-3po was there to communicate

1669

01:19:56,880 --> 01:19:54,790

with the humans and translate all of

1670

01:19:58,020 --> 01:19:56,890

that but if you look at Star Trek The

1671

01:19:59,490 --> 01:19:58,030

Next Generation they star

1672

01:20:01,080 --> 01:19:59,500

talking to their computer right they

1673

01:20:06,060 --> 01:20:01,090

used to say computer do this do that

1674

01:20:07,709 --> 01:20:06,070

right so the AI was built into the ship

1675

01:20:09,990 --> 01:20:07,719

itself and data was through the only

1676

01:20:12,600 --> 01:20:10,000

example of a robot initially at least

1677

01:20:14,279 --> 01:20:12,610

within that series but so so there's an

1678

01:20:16,709 --> 01:20:14,289

interesting debate about whether AI

1679

01:20:18,930 --> 01:20:16,719

should be embodied and have a sense of

1680

01:20:20,700 --> 01:20:18,940

itself in the physical world or if it's

1681

01:20:24,149 --> 01:20:20,710

really just algorithms that work on

1682

01:20:26,790 --> 01:20:24,159

machines or inhabit say a ship like

1683

01:20:30,209 --> 01:20:26,800

another kind of interesting scenario was

1684

01:20:33,330 --> 01:20:30,219

how in 2001 now this goes back to 1968

1685

01:20:35,339 --> 01:20:33,340

or 69 when it first came out and it was

1686

01:20:37,859 --> 01:20:35,349

aware of the ship but it didn't have an

1687

01:20:39,959 --> 01:20:37,869

independent existence outside of that

1688

01:20:41,850 --> 01:20:39,969

ship and so I mean I know making a lot

1689

01:20:43,649 --> 01:20:41,860

of science fiction references here but

1690

01:20:45,779 --> 01:20:43,659

it I do think these are you know big

1691

01:20:47,310 --> 01:20:45,789

issues that we haven't fully grappled

1692

01:20:49,169 --> 01:20:47,320

with and I don't think we have to worry

1693

01:20:53,069 --> 01:20:49,179

about a doomsday scenario you know as

1694

01:20:55,890 --> 01:20:53,079

long as we are not letting autonomous

1695

01:20:58,260 --> 01:20:55,900

weapons run loose but it's it's it's

1696

01:21:00,510 --> 01:20:58,270

possible that if we could do go down

1697

01:21:01,919 --> 01:21:00,520

that route even if I think super

1698

01:21:03,899 --> 01:21:01,929

intelligence isn't gonna be here for a

1699

01:21:07,290 --> 01:21:03,909

while there's danger of a lot of lives

1700

01:21:11,609 --> 01:21:07,300

being lost well what what max tegmark

1701
01:21:14,609 --> 01:21:11,619
and Nick Bostrom and others and those

1702
01:21:17,939 --> 01:21:14,619
guys actually they paint a pretty dark

1703
01:21:21,629 --> 01:21:17,949
picture and and I like Max and he's a

1704
01:21:23,040 --> 01:21:21,639
very even-handed I like I like the way

1705
01:21:26,580 --> 01:21:23,050
that he speaks and I like the way that

1706
01:21:32,669 --> 01:21:26,590
he writes but they all point to one

1707
01:21:35,520 --> 01:21:32,679
basic thing the minute that a GI not you

1708
01:21:38,359 --> 01:21:35,530
know not full-on AI craziness but you

1709
01:21:44,870 --> 01:21:38,369
know an artificial general intelligence

1710
01:21:47,549 --> 01:21:44,880
scenario where the software is now

1711
01:21:48,540 --> 01:21:47,559
rewriting its own code and making its

1712
01:21:52,290 --> 01:21:48,550
own decisions

1713
01:21:54,990 --> 01:21:52,300

the second the nanosecond that that is

1714

01:22:00,689 --> 01:21:55,000

achieved then every time that the

1715

01:22:05,339 --> 01:22:00,699

computer cycles it's now doing eons of

1716

01:22:07,979 --> 01:22:05,349

days of computing instantly where it's

1717

01:22:09,810 --> 01:22:07,989

outpacing our own ability to do that

1718

01:22:11,410 --> 01:22:09,820

same type of thinking in calculations

1719

01:22:14,800 --> 01:22:11,420

and that's

1720

01:22:16,720 --> 01:22:14,810

what we need to be aware of is do you

1721

01:22:20,110 --> 01:22:16,730

have that same concern are you at that

1722

01:22:23,080 --> 01:22:20,120

point where once it's self correcting

1723

01:22:26,680 --> 01:22:23,090

and writing its own code that is what we

1724

01:22:29,020 --> 01:22:26,690

need to be aware of well yeah that's

1725

01:22:32,350 --> 01:22:29,030

part of it I mean once it's able to

1726

01:22:34,419 --> 01:22:32,360

modify itself I mean in general there's

1727

01:22:35,729 --> 01:22:34,429

a famous line from terminator you know

1728

01:22:38,830 --> 01:22:35,739

on such-and-such a date

1729

01:22:39,550 --> 01:22:38,840

Skynet became self-aware right right

1730

01:22:41,760 --> 01:22:39,560

right

1731

01:22:44,410 --> 01:22:41,770

so this is an interesting question and

1732

01:22:46,660 --> 01:22:44,420

it's almost a metaphysical question but

1733

01:22:48,910 --> 01:22:46,670

it gets into the technology and into

1734

01:22:52,600 --> 01:22:48,920

these doomsday scenarios is what does it

1735

01:22:54,100 --> 01:22:52,610

mean you know for it to be self-aware or

1736

01:22:58,959 --> 01:22:54,110

for it to be aware of itself there was a

1737

01:23:01,419 --> 01:22:58,969

it was an old test where if a dog looks

1738

01:23:03,220 --> 01:23:01,429

in the mirror you know does it realize

1739

01:23:06,490 --> 01:23:03,230

it's looking at itself or does it think

1740

01:23:07,870 --> 01:23:06,500

it's looking at another dog and so if a

1741

01:23:10,000 --> 01:23:07,880

human is there and you touch your face

1742

01:23:13,150 --> 01:23:10,010

and the guy in the mirror is touching

1743

01:23:17,050 --> 01:23:13,160

your face you realize hopefully pretty

1744

01:23:20,770 --> 01:23:17,060

soon that that is you right so you are

1745

01:23:24,340 --> 01:23:20,780

self-aware and so that's I think a key

1746

01:23:27,640 --> 01:23:24,350

point in in the development of AI if

1747

01:23:30,280 --> 01:23:27,650

it's embodied right and so there's this

1748

01:23:33,220 --> 01:23:30,290

question of whether AI really is going

1749

01:23:34,570 --> 01:23:33,230

to be embodied or not if you remember

1750

01:23:36,130 --> 01:23:34,580

another moving the Terminator series

1751

01:23:39,250 --> 01:23:36,140

that most people think was not a good

1752

01:23:40,720 --> 01:23:39,260

one was Terminator 3 but at the end you

1753

01:23:42,370 --> 01:23:40,730

know he was looking for a server to blow

1754

01:23:44,709 --> 01:23:42,380

up and he realizes there's no server

1755

01:23:47,530 --> 01:23:44,719

that he can blow up it was software it

1756

01:23:50,500 --> 01:23:47,540

was out there all over the Internet and

1757

01:23:52,419 --> 01:23:50,510

so it's self-aware AI going to be

1758

01:23:54,580 --> 01:23:52,429

software that rewrites itself man we

1759

01:23:56,530 --> 01:23:54,590

have programs that can modify itself now

1760

01:23:58,900 --> 01:23:56,540

in fact you know when I was a student

1761

01:24:01,330 --> 01:23:58,910

back at MIT I did a neat little trick

1762

01:24:02,850 --> 01:24:01,340

back in the 90s where I won this we had

1763

01:24:04,689 --> 01:24:02,860

this programming competition where

1764

01:24:06,610 --> 01:24:04,699

you're supposed to write a program that

1765

01:24:07,900 --> 01:24:06,620

competes with another program and the

1766

01:24:10,930 --> 01:24:07,910

programs were trying were supposed to

1767

01:24:13,660 --> 01:24:10,940

kill it each other and whichever kills

1768

01:24:14,830 --> 01:24:13,670

the other program won and I was sitting

1769

01:24:16,479 --> 01:24:14,840

up one night trying to figure out how

1770

01:24:17,650 --> 01:24:16,489

can I write a program that's gonna win

1771

01:24:18,850 --> 01:24:17,660

this competition at about three o'clock

1772

01:24:21,669 --> 01:24:18,860

in the morning it dawned on me

1773

01:24:23,110 --> 01:24:21,679

I'll have this program modify itself and

1774

01:24:24,939 --> 01:24:23,120

the other program so it'll just kill

1775

01:24:25,330 --> 01:24:24,949

both and no matter what the other

1776

01:24:27,729 --> 01:24:25,340

program

1777

01:24:29,770 --> 01:24:27,739

we'll end up dead and and I ended up

1778

01:24:34,510 --> 01:24:29,780

winning that competition and it was like

1779

01:24:37,180 --> 01:24:34,520

changing its own code right and so code

1780

01:24:39,310 --> 01:24:37,190

and data we think those are two

1781

01:24:41,290 --> 01:24:39,320

different things but really they're all

1782

01:24:42,370 --> 01:24:41,300

just stored within memory so they're

1783

01:24:44,800 --> 01:24:42,380

really the same thing so if you can

1784

01:24:46,510 --> 01:24:44,810

modify data you can modify code so there

1785

01:24:49,629 --> 01:24:46,520

are programs that can modify itself

1786

01:24:51,729 --> 01:24:49,639

today but they're not really that

1787

01:24:55,240 --> 01:24:51,739

intelligent so yeah I mean I do worry

1788

01:24:57,459 --> 01:24:55,250

that if you start to have software AI

1789

01:25:00,189 --> 01:24:57,469

that is self-aware that is self

1790

01:25:02,320 --> 01:25:00,199

modification modifying and that has a

1791

01:25:04,660 --> 01:25:02,330

goal like the other thing is if you

1792

01:25:06,850 --> 01:25:04,670

remember in the in grade school you know

1793

01:25:09,459 --> 01:25:06,860

they had here's the definition of what

1794

01:25:11,740 --> 01:25:09,469

is alive and one of the definitions is

1795

01:25:13,750 --> 01:25:11,750

it wants to keep itself alive survival

1796

01:25:15,970 --> 01:25:13,760

right that was one of the criteria for

1797

01:25:19,359 --> 01:25:15,980

something that is alive and so

1798

01:25:23,500 --> 01:25:19,369

self-awareness if it's married to

1799

01:25:26,229 --> 01:25:23,510

wanting to keep itself alive and that

1800

01:25:28,479 --> 01:25:26,239

means making sure there's no off switch

1801
01:25:30,339 --> 01:25:28,489
right right right so so far we don't

1802
01:25:32,109 --> 01:25:30,349
have any AI that doesn't have an off

1803
01:25:32,560 --> 01:25:32,119
switch right right right right right

1804
01:25:34,780 --> 01:25:32,570
right

1805
01:25:36,879 --> 01:25:34,790
but once you get to that point and it's

1806
01:25:38,320 --> 01:25:36,889
one of the gates right if you remember

1807
01:25:39,609 --> 01:25:38,330
like a year and a half ago I think we

1808
01:25:42,640 --> 01:25:39,619
had a show where we talked about these

1809
01:25:44,620 --> 01:25:42,650
four gates of killer a high high and

1810
01:25:47,080 --> 01:25:44,630
that was one of them is if you have

1811
01:25:48,430 --> 01:25:47,090
software that is so distributed that it

1812
01:25:50,530 --> 01:25:48,440
doesn't have an off switch

1813
01:25:52,089 --> 01:25:50,540

right I mean and effectively if it's out

1814

01:25:54,669 --> 01:25:52,099

on the internet everywhere then it

1815

01:25:57,490 --> 01:25:54,679

really doesn't have an off switch even

1816

01:26:01,450 --> 01:25:57,500

an EMP pulse and then nowhere that's

1817

01:26:05,470 --> 01:26:01,460

right and an aware AI would would know

1818

01:26:07,870 --> 01:26:05,480

this and would this is the thing that is

1819

01:26:10,750 --> 01:26:07,880

such a fundamental thought of us right

1820

01:26:16,209 --> 01:26:10,760

well just unplug the computer well okay

1821

01:26:19,089 --> 01:26:16,219

AI knew that last week you're way ahead

1822

01:26:23,399 --> 01:26:19,099

of the game so of course it would be

1823

01:26:25,240 --> 01:26:23,409

distributed software so the off switch

1824

01:26:27,640 --> 01:26:25,250

goes out of play

1825

01:26:30,669 --> 01:26:27,650

but the survival mode of being

1826

01:26:32,530 --> 01:26:30,679

self-aware that is such an instinctual

1827

01:26:34,720 --> 01:26:32,540

thing if you are going to have a

1828

01:26:37,030 --> 01:26:34,730

computer that is not only self-aware but

1829

01:26:39,790 --> 01:26:37,040

now dealing with

1830

01:26:41,530 --> 01:26:39,800

amounts of consciousness and we will

1831

01:26:44,530 --> 01:26:41,540

talk about that after the break that's

1832

01:26:47,680 --> 01:26:44,540

the next stage here is that it is in

1833

01:26:50,680 --> 01:26:47,690

survival mode every second of its

1834

01:26:52,780 --> 01:26:50,690

existence just like we are well but

1835

01:26:56,520 --> 01:26:52,790

that's the question I don't know that we

1836

01:26:59,140 --> 01:26:56,530

necessarily assume that AI will

1837

01:27:02,380 --> 01:26:59,150

prioritize its own survival so this is

1838

01:27:05,950 --> 01:27:02,390

why you know the question of values in

1839

01:27:07,710 --> 01:27:05,960

AI is a really important one like so far

1840

01:27:11,500 --> 01:27:07,720

we don't really have a program that

1841

01:27:14,440 --> 01:27:11,510

whose goal is to keep running itself

1842

01:27:18,330 --> 01:27:14,450

well okay hold on before the break this

1843

01:27:24,190 --> 01:27:18,340

is the point with what you just said is

1844

01:27:26,110 --> 01:27:24,200

who is coding the morals right that

1845

01:27:28,720 --> 01:27:26,120

that's that's that's the difference

1846

01:27:31,420 --> 01:27:28,730

right yes you've got somebody holding it

1847

01:27:33,550 --> 01:27:31,430

and also what data are they feeding it

1848

01:27:35,890 --> 01:27:33,560

right I mean you talked in the

1849

01:27:39,070 --> 01:27:35,900

introduction about this case of facial

1850

01:27:40,780 --> 01:27:39,080

recognition being you know arresting is

1851
01:27:42,550 --> 01:27:40,790
being used to arrest someone right you

1852
01:27:44,470 --> 01:27:42,560
know that is dangerous right because the

1853
01:27:47,050 --> 01:27:44,480
data set it's like I remember about a

1854
01:27:48,670 --> 01:27:47,060
year ago I I got this thing in the mail

1855
01:27:51,130 --> 01:27:48,680
from the state of California saying that

1856
01:27:52,540 --> 01:27:51,140
you know I had to pay this toll because

1857
01:27:54,670 --> 01:27:52,550
I didn't pay the toll at the Golden Gate

1858
01:27:56,830 --> 01:27:54,680
Bridge and I looked at it was this dark

1859
01:27:59,080 --> 01:27:56,840
image of this car my car is white and it

1860
01:28:01,330 --> 01:27:59,090
wasn't even white and you couldn't

1861
01:28:03,430 --> 01:28:01,340
really read the license plate but the

1862
01:28:04,930 --> 01:28:03,440
data assumed that was my license plate

1863
01:28:07,060 --> 01:28:04,940

even though there was no way you could

1864

01:28:08,620 --> 01:28:07,070

tell but I could tell cuz it wasn't a

1865

01:28:10,780 --> 01:28:08,630

white car so therefore it wasn't my car

1866

01:28:13,990 --> 01:28:10,790

they knew they knew it because it was a

1867

01:28:16,090 --> 01:28:14,000

Bentley and you drive a Bentley

1868

01:28:17,590 --> 01:28:16,100

okay let's take a break right here is

1869

01:28:18,310 --> 01:28:17,600

you stay right there I guess tonight

1870

01:28:20,830 --> 01:28:18,320

Risberg

1871

01:28:22,630 --> 01:28:20,840

we're talking artificial intelligence

1872

01:28:23,830 --> 01:28:22,640

the good the bad and the ugly when we

1873

01:28:26,470 --> 01:28:23,840

come back we've got to get into

1874

01:28:29,170 --> 01:28:26,480

consciousness this is a big debate out

1875

01:28:30,730 --> 01:28:29,180

there right now we'll get to all of it

1876

01:28:31,420 --> 01:28:30,740

right after this stay with us I'm yours

1877

01:28:38,930 --> 01:28:31,430

to be Church

1878

01:28:38,940 --> 01:28:48,820

[Music]

1879

01:28:56,300 --> 01:28:52,000

way out here we listen to Jimmy Church

1880

01:28:58,340 --> 01:28:56,310

you're listening to fade to black always

1881

01:29:01,190 --> 01:28:58,350

on the edge of the hottest alternative

1882

01:29:18,650 --> 01:29:01,200

talk chili church with fade to black

1883

01:29:21,410 --> 01:29:18,660

stay GRA radio.com do you want to be an

1884

01:29:23,390 --> 01:29:21,420

official state or not of course you do

1885

01:29:25,970 --> 01:29:23,400

this is Jimmy Church of fade to black

1886

01:29:31,010 --> 01:29:25,980

just go to our membership section at

1887

01:29:34,160 --> 01:29:31,020

Jimmy Church radio.com introducing the

1888

01:29:37,160 --> 01:29:34,170

new surfer music app listen fade or not

1889

01:29:40,820 --> 01:29:37,170

you know I love my music this is my

1890

01:29:42,740 --> 01:29:40,830

go-to for all things notes the surfer

1891

01:29:45,230 --> 01:29:42,750

app is a brand new concept of music

1892

01:29:47,360 --> 01:29:45,240

listening surfer is free providing

1893

01:29:49,910 --> 01:29:47,370

unlimited access to thousands of live

1894

01:29:51,530 --> 01:29:49,920

streaming radio stations surfer is an

1895

01:29:53,750 --> 01:29:51,540

exciting interactive listening

1896

01:29:56,330 --> 01:29:53,760

experience discovery and surprise are

1897

01:29:58,300 --> 01:29:56,340

built right in surfer is your

1898

01:30:01,760 --> 01:29:58,310

destination to discover and rediscover

1899

01:30:04,520 --> 01:30:01,770

great live streaming music it features

1900

01:30:06,140 --> 01:30:04,530

high quality audio streams free access

1901

01:30:08,330 --> 01:30:06,150
to music from thousands of live

1902

01:30:10,730 --> 01:30:08,340
streaming radio stations unlimited

1903

01:30:13,280 --> 01:30:10,740
listening unlimited skipping you get a

1904

01:30:15,470 --> 01:30:13,290
music visualizer and you can also select

1905

01:30:17,450 --> 01:30:15,480
your favorite channels get it at the

1906

01:30:19,100 --> 01:30:17,460
Apple App Store or Google Play

1907

01:30:21,379 --> 01:30:19,110
just search sir

1908

01:30:24,379 --> 01:30:21,389
for music or click on the surfer banner

1909

01:30:27,090 --> 01:30:24,389
at Jimmy Church radio calm go back late

1910

01:30:34,210 --> 01:30:30,550
so you love talk radio then you'll love

1911

01:30:37,060 --> 01:30:34,220
talk stream live.com talk stream live is

1912

01:30:39,310 --> 01:30:37,070
always on 24/7 with the best streaming

1913

01:30:41,380 --> 01:30:39,320

talk shows find your favorite talkers

1914

01:30:44,020 --> 01:30:41,390

and discover some new ones it's free

1915

01:30:46,300 --> 01:30:44,030

readily available online or on mobile

1916

01:30:48,190 --> 01:30:46,310

with any smartphone or tablet finding

1917

01:30:50,920 --> 01:30:48,200

your favorite talk shows all in one

1918

01:30:53,530 --> 01:30:50,930

place has gotten a whole lot easier just

1919

01:30:55,480 --> 01:30:53,540

go to talk stream live.com be sure to

1920

01:31:00,520 --> 01:30:55,490

download the free apps from Google Play

1921

01:31:08,050 --> 01:31:00,530

or the iTunes App Store listen to us and

1922

01:31:11,920 --> 01:31:08,060

we listen to you so does the CIA jgr a

1923

01:31:15,160 --> 01:31:11,930

radio comm permanent industrial glue

1924

01:31:18,190 --> 01:31:15,170

impossible to remove not anymore because

1925

01:31:20,320 --> 01:31:18,200

handyman formula by D bond is a patented

1926

01:31:21,160 --> 01:31:20,330

chemical adhesive remover it's used in

1927

01:31:24,010 --> 01:31:21,170

the building and home maintenance

1928

01:31:27,760 --> 01:31:24,020

industry but now it's available for your

1929

01:31:30,460 --> 01:31:27,770

home use for your DIY projects unglue

1930

01:31:32,860 --> 01:31:30,470

stickers silicone rubber labels price

1931

01:31:36,550 --> 01:31:32,870

tags flex tape weather stripping carpet

1932

01:31:39,760 --> 01:31:36,560

glue wood glue liquid nails even 3m 5200

1933

01:31:42,220 --> 01:31:39,770

and it dissolves graffiti yeah

1934

01:31:44,020 --> 01:31:42,230

graffiti handyman formula by dee bond

1935

01:31:45,970 --> 01:31:44,030

works and it's safe to use on most

1936

01:31:48,400 --> 01:31:45,980

surfaces no need to call a professional

1937

01:31:51,010 --> 01:31:48,410

don't get out the pliers and blowtorch

1938

01:31:53,260 --> 01:31:51,020

just apply a little handyman formula by

1939

01:31:55,870 --> 01:31:53,270

dee bond and wait 90 seconds then

1940

01:31:58,600 --> 01:31:55,880

quickly and easily pull the items apart

1941

01:32:01,510 --> 01:31:58,610

get unstuck visit dee bond handyman

1942

01:32:03,910 --> 01:32:01,520

formula.com that's dee bond telepath is

1943

01:32:05,920 --> 01:32:03,920

a weekly digital newsletter filled with

1944

01:32:08,260 --> 01:32:05,930

the latest paranormal news trending

1945

01:32:10,300 --> 01:32:08,270

topics and fresh articles from some of

1946

01:32:12,670 --> 01:32:10,310

the most popular critical thinkers in

1947

01:32:14,800 --> 01:32:12,680

the community today stay informed on

1948

01:32:17,380 --> 01:32:14,810

your favorite paranormal podcasts and

1949

01:32:19,360 --> 01:32:17,390

live streaming talk shows interact with

1950

01:32:22,000 --> 01:32:19,370

the telepath and upload your paranormal

1951

01:32:24,550 --> 01:32:22,010

story or pics it could be featured in an

1952

01:32:27,020 --> 01:32:24,560

upcoming edition sign up right now for

1953

01:32:29,779 --> 01:32:27,030

the free telepath newsletter at pare

1954

01:32:32,390 --> 01:32:29,789

normal dot radio that's paranormal dot

1955

01:32:34,640 --> 01:32:32,400

radio including the network you're

1956

01:32:37,520 --> 01:32:34,650

listening to right now the paranormal

1957

01:32:42,680 --> 01:32:37,530

radio app free in Google Play and the

1958

01:32:43,129 --> 01:32:42,690

iOS app store you are listening to fade

1959

01:32:45,410 --> 01:32:43,139

to black

1960

01:32:50,240 --> 01:32:45,420

with Jimmy Church on the game changer

1961

01:32:52,279 --> 01:32:50,250

Network hi I'm Lisa Vance you're

1962

01:32:55,250 --> 01:32:52,289

listening to Jaime Church this is

1963

01:33:01,990 --> 01:32:55,260

revolution the revolution will not be

1964

01:33:41,750 --> 01:33:04,510

[Laughter]

1965

01:33:45,500 --> 01:33:43,950

welcome back pay to black our guest

1966

01:33:48,360 --> 01:33:45,510

tonight Risberg

1967

01:33:53,580 --> 01:33:48,370

talking about artificial intelligence

1968

01:33:56,040 --> 01:33:53,590

the good the bad and the ugly what a

1969

01:33:57,090 --> 01:33:56,050

great conversation so far and before we

1970

01:34:02,160 --> 01:33:57,100

get back into it

1971

01:34:05,220 --> 01:34:02,170

rizz Rita has an artificial intelligence

1972

01:34:10,379 --> 01:34:05,230

program it's this machine learning

1973

01:34:15,419 --> 01:34:10,389

craziness that creates words that don't

1974

01:34:18,870 --> 01:34:15,429

exist that creates words that don't

1975

01:34:21,570 --> 01:34:18,880

exist yes and she posts them you can't

1976

01:34:25,610 --> 01:34:21,580

look them up in the dictionary but you

1977

01:34:28,939 --> 01:34:25,620

read them and you realize that there's

1978

01:34:38,430 --> 01:34:28,949

like okay so you just posted this one

1979

01:34:40,580 --> 01:34:38,440

flakey mouth well some of them are

1980

01:34:45,270 --> 01:34:40,590

completely made up like this

1981

01:34:48,979 --> 01:34:45,280

crazier cra-z l a crazy

1982

01:34:51,510 --> 01:34:48,989

you know she's and it's really funny

1983

01:34:54,470 --> 01:34:51,520

well there are there are a l programs

1984

01:34:58,649 --> 01:34:54,480

that write stories now news stories

1985

01:35:00,270 --> 01:34:58,659

paint they paint they yes they're not

1986

01:35:02,399 --> 01:35:00,280

perfect and you could still tell the

1987

01:35:04,470 --> 01:35:02,409

difference like when you see text that's

1988

01:35:06,689 --> 01:35:04,480

generated there was a video game you

1989

01:35:10,140 --> 01:35:06,699

appreciate this there was you know the

1990

01:35:11,669 --> 01:35:10,150

old text adventure games that like Zork

1991

01:35:14,370 --> 01:35:11,679

in these games right

1992

01:35:16,500 --> 01:35:14,380

someone put together they took a text

1993

01:35:19,860 --> 01:35:16,510

generation engine recently that uses AI

1994

01:35:21,270 --> 01:35:19,870

and they had it basically create you

1995

01:35:23,550 --> 01:35:21,280

know a text adventure game and so it

1996

01:35:25,410 --> 01:35:23,560

just creates the the rooms as you go and

1997

01:35:26,580 --> 01:35:25,420

at first you're like wow this is cool

1998

01:35:29,340 --> 01:35:26,590

but then after a little while you

1999

01:35:30,840 --> 01:35:29,350

realize it's it's missing things right

2000

01:35:32,939 --> 01:35:30,850

there's just things that are wrong in

2001

01:35:37,439 --> 01:35:32,949

there and so you know we're we're still

2002

01:35:40,260 --> 01:35:37,449

a little ways off from having AI that

2003

01:35:41,970 --> 01:35:40,270

can really produce intelligible text

2004

01:35:43,740 --> 01:35:41,980

when you're interacting with it right so

2005

01:35:45,990 --> 01:35:43,750

we're still away from the Turing test I

2006

01:35:47,430 --> 01:35:46,000

think and when Alan Turing made that he

2007

01:35:50,220 --> 01:35:47,440

called it the imitation game like I said

2008

01:35:51,090 --> 01:35:50,230

earlier but back then he used like tell

2009

01:35:53,520 --> 01:35:51,100

X's right

2010

01:35:55,080 --> 01:35:53,530

sending messages today we would say type

2011

01:35:57,840 --> 01:35:55,090

2 message or

2012

01:35:59,250 --> 01:35:57,850

text message or use your voice but yeah

2013

01:36:01,530 --> 01:35:59,260

it is it is pretty interesting how

2014

01:36:03,810 --> 01:36:01,540

quickly you know this stuff has come

2015

01:36:05,820 --> 01:36:03,820

about yeah there is a I can't remember

2016

01:36:08,460 --> 01:36:05,830

the website somebody I'll post it up

2017

01:36:11,780 --> 01:36:08,470

here in Twitter they'll they'll know but

2018

01:36:16,920 --> 01:36:11,790

there's there's a website out there that

2019

01:36:23,550 --> 01:36:16,930

AI generates in real-time

2020

01:36:28,890 --> 01:36:23,560

okay real-time thrash-metal right and so

2021

01:36:33,840 --> 01:36:28,900

and it's it's it's a 24-hour 365 day a

2022

01:36:38,190 --> 01:36:33,850

year constant stream one song continuous

2023

01:36:41,990 --> 01:36:38,200

and it's and so anyway you listen to it

2024

01:36:46,820 --> 01:36:42,000

it's guitars bass drums keyboards and

2025

01:36:49,320 --> 01:36:46,830

done in thrash industrial metal style

2026

01:36:53,430 --> 01:36:49,330

and it's never-ending I've listened to

2027

01:36:56,760 --> 01:36:53,440

it for 3-4 hours at a stretch and there

2028

01:36:59,250 --> 01:36:56,770

are there's only moments when you

2029

01:37:01,860 --> 01:36:59,260

realize it's not human there's only

2030

01:37:05,070 --> 01:37:01,870

moments the rest I mean it's it's pretty

2031

01:37:07,140 --> 01:37:05,080

it's pretty dang good man yeah really

2032

01:37:09,030 --> 01:37:07,150

good I mean we're making great strides

2033

01:37:12,270 --> 01:37:09,040

right when you when you think about

2034

01:37:14,070 --> 01:37:12,280

specific tasks right I mean that AI was

2035

01:37:16,080 --> 01:37:14,080

programmed for the specific task of

2036

01:37:19,710 --> 01:37:16,090

generating music and it's got a very

2037

01:37:22,350 --> 01:37:19,720

limited set of notes and instruments

2038

01:37:23,880 --> 01:37:22,360

that can be played and so if I'm

2039

01:37:25,320 --> 01:37:23,890

assuming I don't know I haven't been to

2040

01:37:27,750 --> 01:37:25,330

the website but I'm assuming they

2041

01:37:32,640 --> 01:37:27,760

trained it right by having it listened

2042

01:37:36,480 --> 01:37:32,650

to or in some other way feeding in you

2043

01:37:40,070 --> 01:37:36,490

know data about different songs or music

2044

01:37:43,920 --> 01:37:40,080

that we humans whoever was feeding it in

2045

01:37:46,260 --> 01:37:43,930

thought was you know good thrash metal

2046

01:37:47,970 --> 01:37:46,270

or whatever it happens to be and and so

2047

01:37:50,790 --> 01:37:47,980

you know we're still at that stage where

2048

01:37:52,320 --> 01:37:50,800

we have to train for specific tasks but

2049

01:37:54,030 --> 01:37:52,330

I think you mentioned this earlier too

2050

01:37:57,030 --> 01:37:54,040

and that's how that's how babies learn

2051

01:37:59,250 --> 01:37:57,040

right we learn specific tasks over time

2052

01:38:01,680 --> 01:37:59,260

and then we get better at them so so

2053

01:38:04,560 --> 01:38:01,690

we're definitely starting to see things

2054

01:38:06,330 --> 01:38:04,570

improve and go go in that direction with

2055

01:38:08,250 --> 01:38:06,340

Woodward's is a little bit easier to

2056

01:38:09,510 --> 01:38:08,260

tell not

2057

01:38:12,180 --> 01:38:09,520

dividual words but when you have to

2058

01:38:13,590 --> 01:38:12,190

string them together with meaning that's

2059

01:38:14,940 --> 01:38:13,600

when you realize that it's good at

2060

01:38:17,030 --> 01:38:14,950

stringing together words but it's not

2061

01:38:18,810 --> 01:38:17,040

necessarily good at grasping the meaning

2062

01:38:21,960 --> 01:38:18,820

you know maybe it's a good thing that

2063

01:38:24,270 --> 01:38:21,970

language is so illogical sometimes right

2064

01:38:26,730 --> 01:38:24,280

I mean if you had to learn all the rules

2065

01:38:28,830 --> 01:38:26,740

for specific language you can still tell

2066

01:38:30,060 --> 01:38:28,840

like when you translate an article and

2067

01:38:31,860 --> 01:38:30,070

from one language to another like

2068

01:38:34,230 --> 01:38:31,870

sometimes I'll see an article that I

2069

01:38:37,530 --> 01:38:34,240

wrote say about the simulation

2070

01:38:39,660 --> 01:38:37,540

hypothesis and I'll see a version of it

2071

01:38:41,970 --> 01:38:39,670

that's in English but it's not using the

2072

01:38:43,200 --> 01:38:41,980

exact same words I used and then I'll

2073

01:38:45,360 --> 01:38:43,210

realize it was because somebody

2074

01:38:47,760 --> 01:38:45,370

translated it into another language and

2075

01:38:50,490 --> 01:38:47,770

then some AI translated it back to

2076

01:38:52,860 --> 01:38:50,500

English so it's close to what I was

2077

01:38:54,780 --> 01:38:52,870

saying the words are close but you miss

2078

01:38:57,420 --> 01:38:54,790

the meanings many times and you have

2079

01:39:00,300 --> 01:38:57,430

something lost in translation literally

2080

01:39:02,190 --> 01:39:00,310

so right now I getting into

2081

01:39:03,660 --> 01:39:02,200

consciousness here because this is

2082

01:39:05,670 --> 01:39:03,670

actually part of what we're talking

2083

01:39:10,080 --> 01:39:05,680

about right now you know taking that

2084

01:39:15,210 --> 01:39:10,090

next step there are physicists out there

2085

01:39:19,500 --> 01:39:15,220

that are speaking about consciousness

2086

01:39:22,410 --> 01:39:19,510

that every particle it doesn't matter

2087

01:39:25,200 --> 01:39:22,420

a particle from the the smallest of the

2088

01:39:29,310 --> 01:39:25,210

small the random everything has got a

2089

01:39:32,340 --> 01:39:29,320

little piece of consciousness there it's

2090

01:39:35,700 --> 01:39:32,350

when you accumulate a mass of particles

2091

01:39:38,580 --> 01:39:35,710

together like our brain where

2092

01:39:43,140 --> 01:39:38,590

consciousness is then grouped together

2093

01:39:47,190 --> 01:39:43,150

in mass and then it's it's created like

2094

01:39:49,860 --> 01:39:47,200

we use it today but that would mean and

2095

01:39:54,240 --> 01:39:49,870

indicate that there is a certain amount

2096

01:39:57,780 --> 01:39:54,250

of consciousness in your car right there

2097

01:40:00,630 --> 01:39:57,790

that and things right it may be a small

2098

01:40:03,960 --> 01:40:00,640

amount but I think that if you yell at

2099

01:40:09,180 --> 01:40:03,970

your car enough and and our mean to it

2100

01:40:12,180 --> 01:40:09,190

one day it's just not gonna start and so

2101
01:40:15,720 --> 01:40:12,190
and so one word well when we're dealing

2102
01:40:17,200 --> 01:40:15,730
with computers in a massive amount of

2103
01:40:21,610 --> 01:40:17,210
data

2104
01:40:24,790 --> 01:40:21,620
of an uploaded mind and now this created

2105
01:40:30,209 --> 01:40:24,800
AI engine that with all that stored data

2106
01:40:34,300 --> 01:40:30,219
of bits and bytes that there could be an

2107
01:40:37,150 --> 01:40:34,310
unintentional massing of consciousness

2108
01:40:39,130 --> 01:40:37,160
and that you're not gonna program it in

2109
01:40:42,640 --> 01:40:39,140
it's just going to be there because

2110
01:40:45,750 --> 01:40:42,650
that's the way the universe works right

2111
01:40:49,540 --> 01:40:45,760
and so you know I think there's a debate

2112
01:40:51,670 --> 01:40:49,550
on what consciousness is nobody really

2113
01:40:54,850 --> 01:40:51,680

understands that even though many people

2114

01:40:57,070 --> 01:40:54,860

think they do and so you know one the

2115

01:41:00,300 --> 01:40:57,080

materialists point of view is that

2116

01:41:03,430 --> 01:41:00,310

consciousness is an emergent property of

2117

01:41:06,790 --> 01:41:03,440

chemicals right so if you put together

2118

01:41:09,700 --> 01:41:06,800

enough neurons then consciousness just

2119

01:41:11,680 --> 01:41:09,710

magically emerges right there's the view

2120

01:41:16,630 --> 01:41:11,690

that consciousness is something separate

2121

01:41:18,850 --> 01:41:16,640

from the physical brain and that we

2122

01:41:21,100 --> 01:41:18,860

download into the brain at birth and

2123

01:41:24,459 --> 01:41:21,110

then depending on what you believe

2124

01:41:26,440 --> 01:41:24,469

either we goes away or we upload right

2125

01:41:28,990 --> 01:41:26,450

then I talked a lot about this in the

2126
01:41:30,520 --> 01:41:29,000
simulation hypothesis whereas if you

2127
01:41:32,020 --> 01:41:30,530
look at all the religious traditions not

2128
01:41:34,510 --> 01:41:32,030
any particular tradition just all of

2129
01:41:36,550 --> 01:41:34,520
them right they all kind of tell us that

2130
01:41:38,530 --> 01:41:36,560
the physical world is not the real world

2131
01:41:40,600 --> 01:41:38,540
and that with there's a part of us that

2132
01:41:42,580 --> 01:41:40,610
existed before we came in and there's a

2133
01:41:44,650 --> 01:41:42,590
part of us after and obviously in some

2134
01:41:46,060 --> 01:41:44,660
religions you come back again and again

2135
01:41:48,459 --> 01:41:46,070
and have multiple lives playing

2136
01:41:50,410 --> 01:41:48,469
different roles or different avatars as

2137
01:41:52,479 --> 01:41:50,420
I like to say it and then there's this

2138
01:41:54,490 --> 01:41:52,489

idea of pan psychism right which i think

2139

01:41:57,060 --> 01:41:54,500

is what you're getting at which is that

2140

01:42:00,850 --> 01:41:57,070

every everything in the universe has

2141

01:42:02,920 --> 01:42:00,860

some level of consciousness now one of

2142

01:42:05,080 --> 01:42:02,930

the reasons why people are starting to

2143

01:42:07,890 --> 01:42:05,090

consider this is is the whole quantum

2144

01:42:10,780 --> 01:42:07,900

indeterminacy and the observer effect

2145

01:42:14,500 --> 01:42:10,790

right and you know this is something

2146

01:42:17,410 --> 01:42:14,510

that drives physicists crazy because you

2147

01:42:20,440 --> 01:42:17,420

know the implications are that for the

2148

01:42:22,870 --> 01:42:20,450

probability wave to collapse there has

2149

01:42:24,910 --> 01:42:22,880

to be some level of consciousness to do

2150

01:42:27,130 --> 01:42:24,920

it and materialist hate that and so

2151
01:42:29,560 --> 01:42:27,140
materialists are moving towards the

2152
01:42:30,970 --> 01:42:29,570
parallel worlds view and the idea is

2153
01:42:31,990 --> 01:42:30,980
that every is

2154
01:42:34,120 --> 01:42:32,000
that of having to collapse this

2155
01:42:36,310 --> 01:42:34,130
probability wave every single one of

2156
01:42:38,229 --> 01:42:36,320
these elements of probability exists

2157
01:42:39,670 --> 01:42:38,239
just a separate world the problem with

2158
01:42:43,180 --> 01:42:39,680
that is and you end up with an infinite

2159
01:42:44,860 --> 01:42:43,190
number of physical worlds which seems

2160
01:42:46,420 --> 01:42:44,870
almost more ridiculous than just having

2161
01:42:49,840 --> 01:42:46,430
a consciousness to collapse the

2162
01:42:51,100 --> 01:42:49,850
probability wave you know I make the

2163
01:42:53,080 --> 01:42:51,110

point in simulation hypothesis that

2164

01:42:54,700 --> 01:42:53,090

these other worlds aren't necessarily

2165

01:42:56,740 --> 01:42:54,710

real physical worlds they're just

2166

01:42:58,090 --> 01:42:56,750

information and so is our physical world

2167

01:42:59,880 --> 01:42:58,100

therefore you can have an infinite

2168

01:43:03,010 --> 01:42:59,890

number of them they're just

2169

01:43:05,440 --> 01:43:03,020

probabilities if you will but so another

2170

01:43:07,180 --> 01:43:05,450

way around that to not have

2171

01:43:08,760 --> 01:43:07,190

consciousness be something separate

2172

01:43:11,380 --> 01:43:08,770

outside the physical world is to say

2173

01:43:12,880 --> 01:43:11,390

okay well if we don't like this idea of

2174

01:43:15,520 --> 01:43:12,890

an infinite number of physical worlds

2175

01:43:18,340 --> 01:43:15,530

which would solve the the quantum

2176
01:43:20,260 --> 01:43:18,350
problem and we don't like this idea that

2177
01:43:23,140 --> 01:43:20,270
there is a consciousness that's

2178
01:43:24,490 --> 01:43:23,150
observing the physical world then how

2179
01:43:26,080 --> 01:43:24,500
about we have everything have a little

2180
01:43:27,250 --> 01:43:26,090
bit of consciousness therefore we don't

2181
01:43:29,380 --> 01:43:27,260
need to have consciousness being

2182
01:43:31,750 --> 01:43:29,390
something separate from matter matter is

2183
01:43:33,160 --> 01:43:31,760
consciousness right that's kind of what

2184
01:43:35,590 --> 01:43:33,170
I think we're you were getting at with

2185
01:43:37,570 --> 01:43:35,600
with with that idea we're trying to out

2186
01:43:41,520 --> 01:43:37,580
figure it out I've listened to every

2187
01:43:44,500 --> 01:43:41,530
side of this and when we talk about

2188
01:43:47,710 --> 01:43:44,510

measurement and an observation in

2189

01:43:51,550 --> 01:43:47,720

physics and the fact that that is one of

2190

01:43:54,580 --> 01:43:51,560

the fundamental things that is an

2191

01:43:58,810 --> 01:43:54,590

unknown it's a complete unknown and they

2192

01:44:02,740 --> 01:43:58,820

can argue about it the math says it is

2193

01:44:04,330 --> 01:44:02,750

so they don't know why right now that's

2194

01:44:07,330 --> 01:44:04,340

right right and that's it that's a big

2195

01:44:09,640 --> 01:44:07,340

issue the same thing this well I think

2196

01:44:12,670 --> 01:44:09,650

this is what you're getting at these

2197

01:44:16,360 --> 01:44:12,680

same principles apply when we jump back

2198

01:44:20,650 --> 01:44:16,370

over into what consciousness would be

2199

01:44:23,310 --> 01:44:20,660

how it could be if it could be with

2200

01:44:27,690 --> 01:44:23,320

software and artificial intelligence

2201

01:44:30,490 --> 01:44:27,700

it's it's nearly the exact same argument

2202

01:44:33,430 --> 01:44:30,500

right so this question of you know what

2203

01:44:36,640 --> 01:44:33,440

if AI becomes intelligent is it

2204

01:44:40,450 --> 01:44:36,650

conscious right and the the question in

2205

01:44:41,920 --> 01:44:40,460

in the in the world of AI is how would

2206

01:44:44,080 --> 01:44:41,930

you know I mean how could you tell the

2207

01:44:45,669 --> 01:44:44,090

difference I mean if it acts like it's

2208

01:44:49,360 --> 01:44:45,679

conscious

2209

01:44:51,600 --> 01:44:49,370

it gets back to the if it walks like a

2210

01:44:53,669 --> 01:44:51,610

duck right then what is the difference

2211

01:44:56,340 --> 01:44:53,679

between something that is conscious

2212

01:45:00,490 --> 01:44:56,350

versus something that is not conscious

2213

01:45:03,820 --> 01:45:00,500

and you know if you think about it even

2214

01:45:06,490 --> 01:45:03,830

our biological if you say that

2215

01:45:11,680 --> 01:45:06,500

consciousness is an emergent property of

2216

01:45:14,830 --> 01:45:11,690

the material world of the cells in the

2217

01:45:16,570 --> 01:45:14,840

brain and and in the body then you know

2218

01:45:19,660 --> 01:45:16,580

we're basically a physical machine if

2219

01:45:22,840 --> 01:45:19,670

you will and consciousness is the

2220

01:45:24,280 --> 01:45:22,850

information processing that is happening

2221

01:45:26,709 --> 01:45:24,290

you know between the neurons right

2222

01:45:31,020 --> 01:45:26,719

what's the what's the difference between

2223

01:45:33,580 --> 01:45:31,030

us and the mechanics of a computer

2224

01:45:36,580 --> 01:45:33,590

what's the difference we're still based

2225

01:45:38,890 --> 01:45:36,590

on chemicals and electricity right so

2226

01:45:42,390 --> 01:45:38,900

it's a different kind of computer right

2227

01:45:44,560 --> 01:45:42,400

into biology is that I mean there's

2228

01:45:47,439 --> 01:45:44,570

increasing evidence that it's based on

2229

01:45:48,970 --> 01:45:47,449

some type of computational algorithms

2230

01:45:51,010 --> 01:45:48,980

right and this is why I say that the

2231

01:45:53,260 --> 01:45:51,020

physical world there is no such thing as

2232

01:45:55,330 --> 01:45:53,270

the physical world I mean when you say

2233

01:45:57,160 --> 01:45:55,340

okay it comes from cells and you look

2234

01:45:58,660 --> 01:45:57,170

inside the cells and you get molecules

2235

01:46:00,970 --> 01:45:58,670

and you look inside the molecules and

2236

01:46:02,919 --> 01:46:00,980

you got atoms but you open up the atoms

2237

01:46:04,030 --> 01:46:02,929

it's mostly empty space and you just

2238

01:46:06,490 --> 01:46:04,040

keep going down to the subatomic

2239

01:46:09,939 --> 01:46:06,500

particles that there actually is no such

2240

01:46:11,470 --> 01:46:09,949

thing as matter in physicists say all

2241

01:46:13,540 --> 01:46:11,480

you really have are the properties of

2242

01:46:15,700 --> 01:46:13,550

these particles we call them particles

2243

01:46:17,770 --> 01:46:15,710

but really you can identify them based

2244

01:46:21,399 --> 01:46:17,780

on certain properties which is just

2245

01:46:24,399 --> 01:46:21,409

information right so if biological

2246

01:46:26,380 --> 01:46:24,409

matter is just based on information then

2247

01:46:29,830 --> 01:46:26,390

you can have other matter like silicon

2248

01:46:32,110 --> 01:46:29,840

etc that's based on information and so

2249

01:46:34,120 --> 01:46:32,120

there really isn't that that big of a

2250

01:46:36,910 --> 01:46:34,130

difference you know I tend to have the

2251

01:46:40,899 --> 01:46:36,920

personal view that consciousness is more

2252

01:46:44,649 --> 01:46:40,909

than just coming from the matter that

2253

01:46:46,959 --> 01:46:44,659

there is something else then that we do

2254

01:46:49,330 --> 01:46:46,969

in fact download now it doesn't mean

2255

01:46:50,560 --> 01:46:49,340

we're not information right so if you

2256

01:46:52,169 --> 01:46:50,570

look at the different religious

2257

01:46:56,109 --> 01:46:52,179

traditions I mentioned this idea of

2258

01:47:01,209 --> 01:46:56,119

multiple lives in the Eastern traditions

2259

01:47:02,830 --> 01:47:01,219

and there's this this idea that the in

2260

01:47:04,659 --> 01:47:02,840

Hinduism that you have this eternal soul

2261

01:47:06,939 --> 01:47:04,669

that reincarnates again and again and in

2262

01:47:08,830 --> 01:47:06,949

Buddhism they express it differently by

2263

01:47:11,500 --> 01:47:08,840

saying it's not really an eternal soul

2264

01:47:14,529 --> 01:47:11,510

it's a bag of karma and what is karma

2265

01:47:16,689 --> 01:47:14,539

but a bunch of information right about

2266

01:47:19,149 --> 01:47:16,699

the things that you've done and things

2267

01:47:21,459 --> 01:47:19,159

that you may need to do in future lives

2268

01:47:22,869 --> 01:47:21,469

so it's like a questing system and it's

2269

01:47:26,169 --> 01:47:22,879

stored in a database which some people

2270

01:47:29,049 --> 01:47:26,179

call the Akashic records but it really

2271

01:47:31,810 --> 01:47:29,059

is just information that's coming back

2272

01:47:36,219 --> 01:47:31,820

and forth and so you know it's possible

2273

01:47:38,799 --> 01:47:36,229

that if we get physical computers that

2274

01:47:41,350 --> 01:47:38,809

are sophisticated enough that you could

2275

01:47:43,959 --> 01:47:41,360

also have this same process where you

2276

01:47:47,529 --> 01:47:43,969

have information downloaded into the

2277

01:47:49,600 --> 01:47:47,539

computer in such a way that whoever is

2278

01:47:52,149 --> 01:47:49,610

downloading it now it's a question of it

2279

01:47:53,529 --> 01:47:52,159

like I I like the RPG version or the

2280

01:47:56,439 --> 01:47:53,539

matrix version of the simulation

2281

01:47:59,250 --> 01:47:56,449

hypothesis which is like with you you

2282

01:48:01,419 --> 01:47:59,260

exist outside the game you're putting on

2283

01:48:03,429 --> 01:48:01,429

something that is tying you into the

2284

01:48:04,929 --> 01:48:03,439

game and then you forget that you exist

2285

01:48:07,029 --> 01:48:04,939

outside the game so while you're there

2286

01:48:09,279 --> 01:48:07,039

you are the avatar as far as you're

2287

01:48:10,719 --> 01:48:09,289

concerned now if that's the case if

2288

01:48:13,119 --> 01:48:10,729

that's what's happening with our

2289

01:48:16,179 --> 01:48:13,129

biological well why couldn't we also

2290

01:48:20,290 --> 01:48:16,189

play an avatar that is like a robot that

2291

01:48:21,850 --> 01:48:20,300

has the ability to reason etc but there

2292

01:48:23,259 --> 01:48:21,860

could still be a person controlling it

2293

01:48:26,049 --> 01:48:23,269

there may just be a level of

2294

01:48:28,029 --> 01:48:26,059

sophistication that if it gets to now

2295

01:48:30,609 --> 01:48:28,039

we're in very you know metaphysical and

2296

01:48:32,919 --> 01:48:30,619

religious types of discussions we move

2297

01:48:35,619 --> 01:48:32,929

beyond the AI and no we're not we're

2298

01:48:38,199 --> 01:48:35,629

actually right there because that is

2299

01:48:40,179 --> 01:48:38,209

also something that must come into play

2300

01:48:43,659 --> 01:48:40,189

and I don't care if we're talking about

2301

01:48:45,939 --> 01:48:43,669

self-driving cars an AI and what is

2302

01:48:49,479 --> 01:48:45,949

deterministic there and the decisions

2303

01:48:51,699 --> 01:48:49,489

that are made in nanoseconds right who

2304

01:48:57,189 --> 01:48:51,709

to who to run over and who not all right

2305

01:49:01,029 --> 01:48:57,199

there's that part of it and the the AI

2306

01:49:06,399 --> 01:49:01,039

the artificial intelligence would would

2307

01:49:07,950 --> 01:49:06,409

we want religion and spirituality to be

2308

01:49:15,620 --> 01:49:07,960

part of

2309

01:49:18,560 --> 01:49:15,630

Vai and before you answer that the

2310

01:49:21,840 --> 01:49:18,570

community out there of coders of

2311

01:49:25,680 --> 01:49:21,850

scientists of physicists a quantum

2312

01:49:30,300 --> 01:49:25,690

physicist they're the the question of

2313

01:49:33,360 --> 01:49:30,310

being religious or atheist or agnostic

2314

01:49:34,950 --> 01:49:33,370

all of this comes into play and oh right

2315

01:49:37,350 --> 01:49:34,960

because we're touching the big questions

2316

01:49:40,200 --> 01:49:37,360

right right happens after death right

2317

01:49:42,330 --> 01:49:40,210

that is I think one of the big questions

2318

01:49:44,580 --> 01:49:42,340

that all religions get into and that

2319

01:49:47,280 --> 01:49:44,590

science is trying to avoid right now

2320

01:49:50,850 --> 01:49:47,290

well and also religion comes into play

2321

01:49:56,010 --> 01:49:50,860

for the decision-making of most of the

2322

01:49:58,230 --> 01:49:56,020

planet right most planet this how many

2323

01:50:01,260 --> 01:49:58,240

atheists are on this planet well that's

2324

01:50:03,210 --> 01:50:01,270

in the millions we have seven and a half

2325

01:50:07,320 --> 01:50:03,220

billion people with some type of

2326

01:50:11,220 --> 01:50:07,330

spiritual or religious guidance for them

2327

01:50:13,830 --> 01:50:11,230

and if we're gonna have a true AI you

2328

01:50:17,940 --> 01:50:13,840

would assume for those decisions to be

2329

01:50:19,770 --> 01:50:17,950

based on a human ideal then you would

2330

01:50:23,280 --> 01:50:19,780

have some type of religion programmed

2331

01:50:26,820 --> 01:50:23,290

into the AI right so this gets back into

2332

01:50:30,090 --> 01:50:26,830

the you know the values discussions of

2333

01:50:32,460 --> 01:50:30,100

the AI should the AI is values be our

2334

01:50:35,460 --> 01:50:32,470

values and how do we teach values as

2335

01:50:40,140 --> 01:50:35,470

humans you know religion is one of the

2336

01:50:41,370 --> 01:50:40,150

ways in in which we we do that from the

2337

01:50:43,320 --> 01:50:41,380

time that you're a little kid right

2338

01:50:45,030 --> 01:50:43,330

these things are kind of put into you

2339

01:50:47,460 --> 01:50:45,040

now you can debate whether religion is a

2340

01:50:49,440 --> 01:50:47,470

good thing or a bad thing and you know

2341

01:50:51,630 --> 01:50:49,450

the metaphysical side of religions I

2342

01:50:52,800 --> 01:50:51,640

find more interesting than the you know

2343

01:50:55,380 --> 01:50:52,810

you should do this you should do that

2344

01:51:00,260 --> 01:50:55,390

that there are certain rules of the game

2345

01:51:03,120 --> 01:51:00,270

which we define as morality but with AI

2346

01:51:06,930 --> 01:51:03,130

yet there's no real values being

2347

01:51:10,020 --> 01:51:06,940

programmed into the AI at the moment and

2348

01:51:12,150 --> 01:51:10,030

so it actually you know becomes like you

2349

01:51:16,080 --> 01:51:12,160

said a religion for the AI if we think

2350

01:51:19,830 --> 01:51:16,090

about like like if you think of the was

2351
01:51:21,670 --> 01:51:19,840
it a Asimov's laws of robotics right the

2352
01:51:24,700 --> 01:51:21,680
Three Laws of Robotics

2353
01:51:26,380 --> 01:51:24,710
a robot cannot harm a human was the

2354
01:51:28,660 --> 01:51:26,390
first one and the second one in third

2355
01:51:31,630 --> 01:51:28,670
one but that was kind of a religion in a

2356
01:51:35,320 --> 01:51:31,640
way right it was sort of programmed into

2357
01:51:37,630 --> 01:51:35,330
the operating system of the robots

2358
01:51:41,020 --> 01:51:37,640
and that was you know even

2359
01:51:44,050 --> 01:51:41,030
self-preservation was not as important

2360
01:51:45,970 --> 01:51:44,060
as preserving human life and so these

2361
01:51:49,060 --> 01:51:45,980
are these are I think you know the big

2362
01:51:52,120 --> 01:51:49,070
ethical questions about AI and this is

2363
01:51:53,500 --> 01:51:52,130

why it's such a a broad topic you know

2364

01:51:55,240 --> 01:51:53,510

it's not just about this machine

2365

01:51:56,740 --> 01:51:55,250

learning algorithm versus that or how

2366

01:51:59,380 --> 01:51:56,750

good it is to playing a video game or

2367

01:52:01,660 --> 01:51:59,390

not it's about what you know what will

2368

01:52:04,230 --> 01:52:01,670

the future of the world look like as AI

2369

01:52:07,420 --> 01:52:04,240

becomes more and more intelligent and

2370

01:52:10,750 --> 01:52:07,430

you know will we have just one right I

2371

01:52:13,150 --> 01:52:10,760

mean if a religion or spiritual or set

2372

01:52:15,070 --> 01:52:13,160

of laws like the laws of robotics can be

2373

01:52:17,770 --> 01:52:15,080

programmed well then you could have

2374

01:52:20,110 --> 01:52:17,780

different classes of AI right you could

2375

01:52:23,020 --> 01:52:20,120

have certain AI that is prioritizing

2376

01:52:25,630 --> 01:52:23,030

survival and and certain AI that

2377

01:52:29,140 --> 01:52:25,640

prioritizes doing exactly what humans

2378

01:52:31,900 --> 01:52:29,150

what the AI do is it possible to put

2379

01:52:36,220 --> 01:52:31,910

those limits on it B and the reason why

2380

01:52:40,030 --> 01:52:36,230

I say that is if you have a true AI that

2381

01:52:43,180 --> 01:52:40,040

is acting like the human brain you Riz

2382

01:52:46,930 --> 01:52:43,190

and I we go to a casino and we play

2383

01:52:49,780 --> 01:52:46,940

blackjack all night and and we've

2384

01:52:51,520 --> 01:52:49,790

learned blackjack but then we're walking

2385

01:52:53,290 --> 01:52:51,530

out of the casino and we're out on the

2386

01:52:55,780 --> 01:52:53,300

streets of Vegas and we look over and we

2387

01:52:57,370 --> 01:52:55,790

see somebody riding a skateboard and you

2388

01:52:59,500 --> 01:52:57,380

think to yourself man I would like to

2389

01:53:02,020 --> 01:52:59,510

learn how to ride a skateboard you know

2390

01:53:04,570 --> 01:53:02,030

you want to go and now explore right and

2391

01:53:07,510 --> 01:53:04,580

that's what a computer if it's going to

2392

01:53:08,670 --> 01:53:07,520

act like a human that's what you need to

2393

01:53:12,250 --> 01:53:08,680

be nervous about

2394

01:53:14,410 --> 01:53:12,260

they'd learn how to alphago right learn

2395

01:53:16,390 --> 01:53:14,420

how to champion alphago what if that

2396

01:53:19,090 --> 01:53:16,400

computer stopped and said okay well you

2397

01:53:22,600 --> 01:53:19,100

know what this is cool but I want to

2398

01:53:24,550 --> 01:53:22,610

learn how to ride a bike now right well

2399

01:53:27,610 --> 01:53:24,560

this gets back to the making its own

2400

01:53:29,890 --> 01:53:27,620

decision without limits being put on it

2401
01:53:32,170 --> 01:53:29,900
by you you know you just talked about

2402
01:53:34,700 --> 01:53:32,180
putting up a fence you know around

2403
01:53:37,670 --> 01:53:34,710
certain aspects of this if there's no

2404
01:53:40,520 --> 01:53:37,680
you don't have a fence all right so

2405
01:53:43,790 --> 01:53:40,530
that's that's is that the danger zone

2406
01:53:46,310 --> 01:53:43,800
we're crossing the line of being a

2407
01:53:48,260 --> 01:53:46,320
computer to being human is like making

2408
01:53:51,110 --> 01:53:48,270
those kinds of decisions I don't want to

2409
01:53:53,090 --> 01:53:51,120
play chess anymore you know I want to

2410
01:53:54,800 --> 01:53:53,100
learn how to drive a car I want to play

2411
01:53:57,979 --> 01:53:54,810
guitar I want to play global

2412
01:54:00,800 --> 01:53:57,989
thermonuclear war yeah you said it not

2413
01:54:04,130 --> 01:54:00,810

me right use an old reference from war

2414

01:54:07,640 --> 01:54:04,140

games right back in the day but yeah I

2415

01:54:10,790 --> 01:54:07,650

agree I think that that that is the

2416

01:54:13,729 --> 01:54:10,800

danger zone and you know we're not there

2417

01:54:17,060 --> 01:54:13,739

yet because we don't have a GI and I

2418

01:54:19,070 --> 01:54:17,070

still think we're you know decades away

2419

01:54:21,080 --> 01:54:19,080

from from being able to get there now if

2420

01:54:23,060 --> 01:54:21,090

it's one decade or two I guess that you

2421

01:54:26,720 --> 01:54:23,070

know that matters versus five or ten

2422

01:54:29,709 --> 01:54:26,730

decades then it's a very different point

2423

01:54:32,810 --> 01:54:29,719

but right now you have to train it to

2424

01:54:35,479 --> 01:54:32,820

play you know the video game there was

2425

01:54:38,000 --> 01:54:35,489

actually a group that trained one of the

2426
01:54:40,430 --> 01:54:38,010
I forget which one is a deep mind maybe

2427
01:54:41,930 --> 01:54:40,440
they trained it to play the old Atari

2428
01:54:43,910 --> 01:54:41,940
video games right we started off by

2429
01:54:47,240 --> 01:54:43,920
talking about pac-man and space invaders

2430
01:54:50,240 --> 01:54:47,250
and they had it just randomly choose

2431
01:54:51,410 --> 01:54:50,250
moves and just figure out the rules of

2432
01:54:54,020 --> 01:54:51,420
the game and they were eventually able

2433
01:54:56,870 --> 01:54:54,030
to get it to be able to play there was

2434
01:55:00,050 --> 01:54:56,880
never was like world champion in 60

2435
01:55:02,780 --> 01:55:00,060
games in a day you know so crazy it was

2436
01:55:05,570 --> 01:55:02,790
some nutty stat like that yeah but they

2437
01:55:08,330 --> 01:55:05,580
were able to get it to play a number of

2438
01:55:10,340 --> 01:55:08,340

those old games pretty well but you know

2439

01:55:13,100 --> 01:55:10,350

again they're still training it to play

2440

01:55:16,160 --> 01:55:13,110

the games right and so this question of

2441

01:55:19,340 --> 01:55:16,170

embodiment comes up right like what is

2442

01:55:22,040 --> 01:55:19,350

the world that the AI cares about and I

2443

01:55:25,490 --> 01:55:22,050

think all the doomsday scenarios assume

2444

01:55:28,430 --> 01:55:25,500

that the AI cares about the physical

2445

01:55:30,459 --> 01:55:28,440

world and then it's sense of itself I

2446

01:55:32,990 --> 01:55:30,469

mean to a certain extent you can argue

2447

01:55:35,930 --> 01:55:33,000

in a metaphysical tradition this is the

2448

01:55:38,030 --> 01:55:35,940

body is not the self right but certainly

2449

01:55:40,790 --> 01:55:38,040

while we're here we think of this body

2450

01:55:43,400 --> 01:55:40,800

as being us right we think of there

2451
01:55:47,180 --> 01:55:43,410
being boundaries between us and other

2452
01:55:48,089 --> 01:55:47,190
people now whether that's actually the

2453
01:55:49,500 --> 01:55:48,099
case

2454
01:55:50,879 --> 01:55:49,510
now you're back in the metaphysical

2455
01:55:52,770 --> 01:55:50,889
world and in fact we may all be

2456
01:55:55,290 --> 01:55:52,780
connected which is where a lot of this

2457
01:55:57,870 --> 01:55:55,300
paranormal phenomena comes from and we

2458
01:55:59,550 --> 01:55:57,880
may not be like PC a lot of materialists

2459
01:56:01,830 --> 01:55:59,560
assume that you know we're like pcs in

2460
01:56:03,510 --> 01:56:01,840
the 80s Steve Jobs at a famous quote he

2461
01:56:06,089 --> 01:56:03,520
said why would you want to connect you

2462
01:56:08,040 --> 01:56:06,099
have an umbilical cord on your PC to

2463
01:56:10,620 --> 01:56:08,050

connect it to work or he didn't think

2464

01:56:12,899 --> 01:56:10,630

networking was important of course today

2465

01:56:14,550 --> 01:56:12,909

networking is the computer right we

2466

01:56:16,290 --> 01:56:14,560

wouldn't be talking if our computers

2467

01:56:18,810 --> 01:56:16,300

weren't networked and so it's possible

2468

01:56:21,300 --> 01:56:18,820

that we biologically all have a network

2469

01:56:23,609 --> 01:56:21,310

that we haven't yet figured out because

2470

01:56:27,780 --> 01:56:23,619

it's just a more efficient well what do

2471

01:56:30,720 --> 01:56:27,790

we do yeah exactly what do we do when we

2472

01:56:34,319 --> 01:56:30,730

get to the point where you go to play

2473

01:56:35,939 --> 01:56:34,329

you know chess master 5000 whatever you

2474

01:56:39,359 --> 01:56:35,949

know making something you got to play

2475

01:56:44,790 --> 01:56:39,369

and it literally says you're not good

2476

01:56:49,890 --> 01:56:44,800

enough right you're not a challenge for

2477

01:56:52,709 --> 01:56:49,900

me yeah you can't even log in you know

2478

01:56:56,040 --> 01:56:52,719

would it get to the point of and as I

2479

01:56:59,910 --> 01:56:56,050

say that somebody just said exactly can

2480

01:57:03,240 --> 01:56:59,920

a I experience boredom right where we're

2481

01:57:04,950 --> 01:57:03,250

not a challenge anymore right and then

2482

01:57:08,060 --> 01:57:04,960

you know what would the next challenge

2483

01:57:11,790 --> 01:57:08,070

be right I mean to a certain extent

2484

01:57:15,720 --> 01:57:11,800

we're programmed to look for new

2485

01:57:18,990 --> 01:57:15,730

challenges which is why we keep you know

2486

01:57:20,129 --> 01:57:19,000

expanding and which is why we're fooling

2487

01:57:22,439 --> 01:57:20,139

around with technology that could be

2488

01:57:24,330 --> 01:57:22,449

dangerous down the road but which is why

2489

01:57:26,550 --> 01:57:24,340

some people won't explore you know the

2490

01:57:29,129 --> 01:57:26,560

solar system or the galaxies but AI

2491

01:57:31,890 --> 01:57:29,139

doesn't have that value this gets back

2492

01:57:34,890 --> 01:57:31,900

to the core operating system right but

2493

01:57:37,830 --> 01:57:34,900

but I also wonder if AI will even care

2494

01:57:40,410 --> 01:57:37,840

about the physical world right so if we

2495

01:57:43,550 --> 01:57:40,420

have really intelligent AI it may be

2496

01:57:47,520 --> 01:57:43,560

more concerned with its virtual world

2497

01:57:50,609 --> 01:57:47,530

and connecting with other virtual beings

2498

01:57:54,390 --> 01:57:50,619

more so than it cares about the physical

2499

01:57:56,760 --> 01:57:54,400

world so that's why you know I'm not so

2500

01:57:58,200 --> 01:57:56,770

worried about super intelligence coming

2501
01:58:00,260 --> 01:57:58,210
in and destroying the physical world

2502
01:58:01,850 --> 01:58:00,270
because why would it care

2503
01:58:04,430 --> 01:58:01,860
all right but I'd be more concerned

2504
01:58:06,940 --> 01:58:04,440
about what I would consider not super

2505
01:58:09,260 --> 01:58:06,950
intelligent AI you know it's not dummy I

2506
01:58:10,970 --> 01:58:09,270
we're still kind of in the you know

2507
01:58:15,410 --> 01:58:10,980
we're in that transition from dumb AI to

2508
01:58:16,880 --> 01:58:15,420
a little smart AI I'm gonna jump in real

2509
01:58:20,690 --> 01:58:16,890
quick and I'm just gonna say to

2510
01:58:23,930 --> 01:58:20,700
everybody my monitors started to shake

2511
01:58:27,470 --> 01:58:23,940
and they did it twice and I'm wondering

2512
01:58:31,370 --> 01:58:27,480
it no no I'm just wondering if an

2513
01:58:34,040 --> 01:58:31,380

earthquake happened somewhere but it it

2514

01:58:36,770 --> 01:58:34,050

happened twice and my my cameras are

2515

01:58:39,260 --> 01:58:36,780

mounted to them so I'm wondering if

2516

01:58:42,230 --> 01:58:39,270

anybody saw the the slight shaking and

2517

01:58:45,680 --> 01:58:42,240

my reaction to that but it happened

2518

01:58:47,090 --> 01:58:45,690

twice about 15 seconds apart very very

2519

01:58:50,270 --> 01:58:47,100

bizarre let's take our break right here

2520

01:58:52,550 --> 01:58:50,280

is and I'm gonna watch Twitter to see

2521

01:58:54,200 --> 01:58:52,560

what is going on out there in the world

2522

01:58:55,820 --> 01:58:54,210

if something happened

2523

01:58:57,200 --> 01:58:55,830

this is fade to black I'm your host

2524

01:58:59,560 --> 01:58:57,210

Jimmy Church I guess that R is Bert

2525

01:59:03,500 --> 01:58:59,570

talking about artificial intelligence

2526

01:59:05,900 --> 01:59:03,510

the good the bad and the ugly got a lot

2527

01:59:08,120 --> 01:59:05,910

more to cover we'll get it all in stay

2528

01:59:11,460 --> 01:59:08,130

with us we'll be right back

2529

01:59:13,930 --> 01:59:11,470

[Music]

2530

01:59:19,040 --> 01:59:13,940

my brother's rock out for the metal

2531

01:59:24,870 --> 01:59:22,320

this is kera digital broadcasting

2532

01:59:27,840 --> 01:59:24,880

station Salt Lake City Utah

2533

01:59:30,150 --> 01:59:27,850

Van Buren Arkansas why is it we're not

2534

01:59:30,900 --> 01:59:30,160

very good with our health regiment until

2535

01:59:32,760 --> 01:59:30,910

it's too late

2536

01:59:34,590 --> 01:59:32,770

we don't put oil in the car until the

2537

01:59:37,380 --> 01:59:34,600

engine blows up when the body's out of

2538

01:59:38,550 --> 01:59:37,390

balance your health is not so good give

2539

01:59:40,950 --> 01:59:38,560

your body some love

2540

01:59:42,630 --> 01:59:40,960

log on to get the t-dot-com that's get

2541

01:59:44,400 --> 01:59:42,640

the t-dot-com

2542

01:59:47,310 --> 01:59:44,410

try our life change tea which cleanses

2543

01:59:49,530 --> 01:59:47,320

you from harmful intruders a clean colon

2544

01:59:50,130 --> 01:59:49,540

is one of the ways to bring the body and

2545

01:59:52,200 --> 01:59:50,140

balance

2546

01:59:54,390 --> 01:59:52,210

we also carry organic supplements to

2547

01:59:56,820 --> 01:59:54,400

help you get where you need to go

2548

02:00:00,510 --> 01:59:56,830

so do your body a favor log on to get

2549

02:00:03,120 --> 02:00:00,520

the t-dot-com let's get the tte aecom

2550

02:00:05,220 --> 02:00:03,130

you can even visit our sales page to

2551
02:00:07,560 --> 02:00:05,230
save some dough and does anybody call

2552
02:00:09,300 --> 02:00:07,570
money dough anymore anyway if you're

2553
02:00:11,580 --> 02:00:09,310
looking for short healthful health tips

2554
02:00:16,670 --> 02:00:11,590
go to youtube and punch in health

2555
02:00:20,400 --> 02:00:16,680
matters now that's health matters now so

2556
02:00:22,620 --> 02:00:20,410
log on to get the t.com shop get

2557
02:00:25,110 --> 02:00:22,630
balanced then learn some cool tips at

2558
02:00:25,410 --> 02:00:25,120
health matters now you'll be glad you

2559
02:00:29,460 --> 02:00:25,420
did

2560
02:00:32,820 --> 02:00:29,470
that's get the t-dot-com your contact

2561
02:00:36,690 --> 02:00:32,830
for current news and trending topics jgr

2562
02:00:38,970 --> 02:00:36,700
a radio.com this is Jimmy Church of fade

2563
02:00:42,090 --> 02:00:38,980

to black and I only drink

2564

02:00:44,610 --> 02:00:42,100

fade to black blend coffee from River

2565

02:00:47,430 --> 02:00:44,620

Moon just click on the river moon Coffee

2566

02:00:52,050 --> 02:00:47,440

Banner at Jimmy Church radio.com promo

2567

02:00:54,630 --> 02:00:52,060

code f2b blend so are you tired of being

2568

02:00:56,700 --> 02:00:54,640

tired well then it's time to get the tea

2569

02:00:59,280 --> 02:00:56,710

hey it's Lisa here to tell you about

2570

02:01:01,050 --> 02:00:59,290

this all-natural all organic tea I've

2571

02:01:02,430 --> 02:01:01,060

been drinking that has had great results

2572

02:01:05,370 --> 02:01:02,440

for over 20 years

2573

02:01:07,200 --> 02:01:05,380

it's called life changed tea and it's

2574

02:01:09,810 --> 02:01:07,210

specially formulated to help detoxify

2575

02:01:12,510 --> 02:01:09,820

and cleanse your kidneys liver colon and

2576

02:01:14,040 --> 02:01:12,520

blood all at once the colon is one of

2577

02:01:16,650 --> 02:01:14,050

the most ignored organs in the human

2578

02:01:18,480 --> 02:01:16,660

body the faster that waste is eliminated

2579

02:01:20,490 --> 02:01:18,490

from the body the less time that way

2580

02:01:22,380 --> 02:01:20,500

sits in our intestines spreading toxins

2581

02:01:24,360 --> 02:01:22,390

to our bloodstream this tea helps

2582

02:01:26,220 --> 02:01:24,370

cleanse chemicals caused by outside

2583

02:01:29,280 --> 02:01:26,230

intruders from our entire digestive

2584

02:01:30,669 --> 02:01:29,290

system and get this weight loss can be a

2585

02:01:32,739 --> 02:01:30,679

side effect

2586

02:01:34,719 --> 02:01:32,749

with continued use of the tea you can

2587

02:01:37,299 --> 02:01:34,729

experience clearer healthier younger

2588

02:01:39,129 --> 02:01:37,309

looking skin increased energy and a

2589

02:01:40,449 --> 02:01:39,139

happier outlook on life so if you're

2590

02:01:43,209 --> 02:01:40,459

tired of being tired

2591

02:01:44,020 --> 02:01:43,219

get the life changed tea at get the tea

2592

02:01:50,020 --> 02:01:44,030

calm

2593

02:01:51,759 --> 02:01:50,030

you'll be glad you did did you know that

2594

02:01:54,040 --> 02:01:51,769

when you're on the road with limited

2595

02:01:55,959 --> 02:01:54,050

data or Wi-Fi available you can still

2596

02:01:58,719 --> 02:01:55,969

listen to every minute of fade to black

2597

02:02:01,839 --> 02:01:58,729

by just calling six oh five five six two

2598

02:02:04,149 --> 02:02:01,849

four four eight two no smartphone app or

2599

02:02:06,399 --> 02:02:04,159

internet needed it saves your data plan

2600

02:02:09,729 --> 02:02:06,409

and no extra cost if you have unlimited

2601

02:02:12,069 --> 02:02:09,739

minutes just call six oh five five six

2602

02:02:14,500 --> 02:02:12,079

two four four eight two you can listen

2603

02:02:19,359 --> 02:02:14,510

to me Jimmy Church on any phone anytime

2604

02:02:21,580 --> 02:02:19,369

anywhere gobekli tepe telepath is a

2605

02:02:23,589 --> 02:02:21,590

weekly digital newsletter filled with

2606

02:02:25,929 --> 02:02:23,599

the latest paranormal news trending

2607

02:02:27,969 --> 02:02:25,939

topics and fresh articles from some of

2608

02:02:30,310 --> 02:02:27,979

the most popular critical thinkers in

2609

02:02:32,469 --> 02:02:30,320

the community today stay informed on

2610

02:02:35,049 --> 02:02:32,479

your favorite paranormal podcasts and

2611

02:02:37,060 --> 02:02:35,059

live streaming talk shows interact with

2612

02:02:39,669 --> 02:02:37,070

the telepath and upload your paranormal

2613

02:02:41,830 --> 02:02:39,679

story or pics it could be featured in an

2614

02:02:44,199 --> 02:02:41,840

upcoming edition sign up right now for

2615

02:02:46,810 --> 02:02:44,209

the free telepath newsletter at

2616

02:02:56,720 --> 02:02:46,820

paranormal dot radio that's paranormal

2617

02:03:03,120 --> 02:02:59,040

you want to know a secret

2618

02:03:06,060 --> 02:03:03,130

I love ponies I really love ponies I'm

2619

02:03:10,319 --> 02:03:06,070

serious I couldn't stay sane without

2620

02:03:15,850 --> 02:03:10,329

Pony mr. brush I fade to black because

2621

02:03:19,820 --> 02:03:17,689

this is fade to black

2622

02:03:23,510 --> 02:03:19,830

with Jimmy Church on the game changer

2623

02:03:31,600 --> 02:03:23,520

radio network at K GRA the global radio

2624

02:03:31,610 --> 02:03:38,220

[Music]

2625

02:03:41,979 --> 02:03:40,120

welcome back fade to black

2626

02:03:43,750 --> 02:03:41,989

I am your host Jimmy Church yes tonight

2627

02:03:48,310 --> 02:03:43,760

Risberg we're talking about artificial

2628

02:03:52,540 --> 02:03:48,320

intelligence and I I'm watching

2629

02:03:54,100 --> 02:03:52,550

everybody right now going we got to have

2630

02:03:56,709 --> 02:03:54,110

overtime with the R is we got to have

2631

02:03:58,239 --> 02:03:56,719

and what I called R is earlier today and

2632

02:04:03,189 --> 02:03:58,249

I was lucky enough that he pick up the

2633

02:04:05,680 --> 02:04:03,199

phone and goes Jimmy two hours and

2634

02:04:07,720 --> 02:04:05,690

everybody is alright is so let's let's

2635

02:04:12,040 --> 02:04:07,730

get as much in as we can in this next

2636

02:04:14,229 --> 02:04:12,050

segment and before I have to talk risen

2637

02:04:16,000 --> 02:04:14,239

to overtime at the bottom of the hour I

2638

02:04:17,919 --> 02:04:16,010

can already see how a man

2639

02:04:19,330 --> 02:04:17,929

Riz I'm so thankful that you're here

2640

02:04:22,120 --> 02:04:19,340

tonight and I don't want to be in that

2641

02:04:24,850 --> 02:04:22,130

position but I feel it coming okay so

2642

02:04:35,859 --> 02:04:24,860

that's my softball that's my underhand

2643

02:04:39,930 --> 02:04:35,869

pitch coming in yes exactly see R is

2644

02:04:46,299 --> 02:04:39,940

already just shot me down bad slap is is

2645

02:04:52,450 --> 02:04:46,309

is this briefly one of the aspects of AI

2646

02:04:55,569 --> 02:04:52,460

is overtaking employment right replacing

2647

02:05:00,100 --> 02:04:55,579

factory workers replacing farmers these

2648

02:05:04,180 --> 02:05:00,110

are some of the direct things robots and

2649

02:05:07,390 --> 02:05:04,190

and machine learning overtaking so many

2650

02:05:10,930 --> 02:05:07,400

aspects of society and then we have all

2651

02:05:14,470 --> 02:05:10,940

of the blue-collar parts of it right

2652

02:05:16,359 --> 02:05:14,480

Wall Street banking how about doctors

2653

02:05:18,419 --> 02:05:16,369

right is there a reason to even have a

2654

02:05:22,239 --> 02:05:18,429

doctor anymore if you could just take a

2655

02:05:24,790 --> 02:05:22,249

you know an x-ray a CT scan and and and

2656

02:05:28,169 --> 02:05:24,800

have your medications prescribed

2657

02:05:30,489 --> 02:05:28,179

automatically and and you know blood

2658

02:05:32,859 --> 02:05:30,499

testing and the next thing you know what

2659

02:05:36,370 --> 02:05:32,869

what's the need for it there there's a

2660

02:05:40,390 --> 02:05:36,380

whole segment of society that most

2661

02:05:43,959 --> 02:05:40,400

people don't consider if if AI does its

2662

02:05:46,569 --> 02:05:43,969

job and does replace so we don't have to

2663

02:05:49,800 --> 02:05:46,579

work anymore then what did we do for

2664

02:05:51,880 --> 02:05:49,810

jobs and is this a real concern

2665

02:05:55,720 --> 02:05:51,890

well you know I think this has been a

2666

02:05:58,570 --> 02:05:55,730

concern for a while now and it might

2667

02:06:01,990 --> 02:05:58,580

seem like it's a new concern but really

2668

02:06:03,910 --> 02:06:02,000

if you go back to like the 1920s right

2669

02:06:06,070 --> 02:06:03,920

and even earlier when the Industrial

2670

02:06:09,729 --> 02:06:06,080

Revolution I mean when was the movie

2671

02:06:12,430 --> 02:06:09,739

metropolis but I was like 1932 I think

2672

02:06:14,380 --> 02:06:12,440

there's a real item but before that my

2673

02:06:16,990 --> 02:06:14,390

problem when I did the 20 so yeah yeah

2674

02:06:19,080 --> 02:06:17,000

and it was you know one of the fears at

2675

02:06:21,700 --> 02:06:19,090

the time was that automation and

2676
02:06:24,189 --> 02:06:21,710
machines would take over everybody's

2677
02:06:26,740 --> 02:06:24,199
jobs and that was you know part of the

2678
02:06:29,140 --> 02:06:26,750
reason why he made that movie so you

2679
02:06:32,140 --> 02:06:29,150
know there was a first wave of worrying

2680
02:06:35,050 --> 02:06:32,150
about that and of course there are many

2681
02:06:39,390 --> 02:06:35,060
the things that did become automated but

2682
02:06:42,160 --> 02:06:39,400
the economy always you know shifted into

2683
02:06:44,229 --> 02:06:42,170
having plenty of employment in areas

2684
02:06:47,320 --> 02:06:44,239
that weren't so easy to automate and

2685
02:06:48,820 --> 02:06:47,330
there was some professors at MIT and

2686
02:06:50,560 --> 02:06:48,830
elsewhere in the 60s that were writing

2687
02:06:52,360 --> 02:06:50,570
about you know they were worried that

2688
02:06:54,970 --> 02:06:52,370

computers and automation we're gonna

2689

02:06:57,220 --> 02:06:54,980

take away jobs and you know hasn't quite

2690

02:06:59,620 --> 02:06:57,230

happened but if you look at where we are

2691

02:07:02,050 --> 02:06:59,630

today certainly you know you'll start to

2692

02:07:04,090 --> 02:07:02,060

see I think more and more automation

2693

02:07:05,260 --> 02:07:04,100

like self-driving cars that's an area

2694

02:07:07,570 --> 02:07:05,270

we've talked about a lot

2695

02:07:09,880 --> 02:07:07,580

truck drivers right that's an area that

2696

02:07:12,310 --> 02:07:09,890

I think there's a lot of worry that as

2697

02:07:14,979 --> 02:07:12,320

these self-driving algorithms get so

2698

02:07:17,979 --> 02:07:14,989

good you know do we need people

2699

02:07:20,740 --> 02:07:17,989

especially since it's some cases such a

2700

02:07:22,920 --> 02:07:20,750

grueling thing where they have to be out

2701
02:07:26,050 --> 02:07:22,930
for you know so many hours on the road

2702
02:07:27,580 --> 02:07:26,060
in a row so I think there are certain

2703
02:07:29,860 --> 02:07:27,590
areas that are definitely going to be

2704
02:07:33,040 --> 02:07:29,870
affected by AI but I don't think we're

2705
02:07:35,110 --> 02:07:33,050
at the point yet for doctors you know

2706
02:07:36,670 --> 02:07:35,120
where you don't need a doctor because

2707
02:07:38,590 --> 02:07:36,680
there's still that judgement there's

2708
02:07:43,000 --> 02:07:38,600
still a judgement element like if you

2709
02:07:46,300 --> 02:07:43,010
said look at these CT scans and figure

2710
02:07:48,880 --> 02:07:46,310
out if this guy has cancer or a tumor ai

2711
02:07:51,880 --> 02:07:48,890
is very good at that right

2712
02:07:54,370 --> 02:07:51,890
right now ai is not good at hey I don't

2713
02:07:59,140 --> 02:07:54,380

feel well right now when I when I see my

2714

02:08:01,000 --> 02:07:59,150

doctor he has to go through a lot of you

2715

02:08:03,220 --> 02:08:01,010

know not just rules like the rules you

2716

02:08:07,120 --> 02:08:03,230

can teach right but there's a lot of

2717

02:08:10,380 --> 02:08:07,130

experience and so you know a doctor has

2718

02:08:12,490 --> 02:08:10,390

experience over many many years

2719

02:08:13,900 --> 02:08:12,500

realizing that hey this is not like

2720

02:08:15,640 --> 02:08:13,910

sometimes my doctor will say don't worry

2721

02:08:17,470 --> 02:08:15,650

about that it's not a big deal you know

2722

02:08:19,540 --> 02:08:17,480

it's not gonna kill you so you don't

2723

02:08:21,580 --> 02:08:19,550

need to be freaked out right but that

2724

02:08:23,470 --> 02:08:21,590

takes many years of training and

2725

02:08:25,630 --> 02:08:23,480

eventually I'm not saying that hey I

2726

02:08:27,580 --> 02:08:25,640

couldn't do that right and and in fact

2727

02:08:30,940 --> 02:08:27,590

you know it seems like a logical place

2728

02:08:33,970 --> 02:08:30,950

if you look at the hologram on Star Trek

2729

02:08:36,460 --> 02:08:33,980

Voyager right rott Robert Picardo his

2730

02:08:37,720 --> 02:08:36,470

character the emergency medical hologram

2731

02:08:39,190 --> 02:08:37,730

I think they called it mm-hmm he says

2732

02:08:41,350 --> 02:08:39,200

you know what state your medical

2733

02:08:43,530 --> 02:08:41,360

emergency and it tries to vary I mean

2734

02:08:46,600 --> 02:08:43,540

Ill think we will get to that point

2735

02:08:48,520 --> 02:08:46,610

where you know you've got in this case

2736

02:08:50,380 --> 02:08:48,530

it's not a limited domain it's a pretty

2737

02:08:51,250 --> 02:08:50,390

big domain medicine is a very big domain

2738

02:08:52,750 --> 02:08:51,260

right because you have to go over

2739

02:08:55,990 --> 02:08:52,760

everything from a headaches I don't feel

2740

02:08:58,120 --> 02:08:56,000

well but I still think we're you know

2741

02:09:00,490 --> 02:08:58,130

decades away from from having effective

2742

02:09:02,500 --> 02:09:00,500

doctors so I don't think that's gonna

2743

02:09:05,020 --> 02:09:02,510

get automated anytime soon but very

2744

02:09:07,600 --> 02:09:05,030

specific medical tasks will but I think

2745

02:09:10,479 --> 02:09:07,610

what can happen first is telemedicine

2746

02:09:12,940 --> 02:09:10,489

that's already happening right I mean

2747

02:09:15,490 --> 02:09:12,950

especially with this lockdown a lot of

2748

02:09:18,040 --> 02:09:15,500

people have started to to you know have

2749

02:09:20,590 --> 02:09:18,050

telemedicine sessions where you can just

2750

02:09:22,330 --> 02:09:20,600

get on zoom' or some other platform and

2751
02:09:26,140 --> 02:09:22,340
they can see you and we've also had

2752
02:09:29,170 --> 02:09:26,150
cases with virtual reality where you

2753
02:09:32,200 --> 02:09:29,180
know doctors in India can kind of

2754
02:09:34,150 --> 02:09:32,210
examine and maybe even control you know

2755
02:09:35,740 --> 02:09:34,160
what's happening here and so just like

2756
02:09:37,750 --> 02:09:35,750
with programming you know there was an

2757
02:09:39,280 --> 02:09:37,760
outsourcing element with manufacturing

2758
02:09:41,590 --> 02:09:39,290
there was an outsourcing element first

2759
02:09:43,720 --> 02:09:41,600
the full birth goes to automation I

2760
02:09:45,580 --> 02:09:43,730
think with like white collar jobs too

2761
02:09:46,870 --> 02:09:45,590
they will start to be because I think a

2762
02:09:48,370 --> 02:09:46,880
lot of companies are realizing they

2763
02:09:51,340 --> 02:09:48,380

don't you don't need to go to the office

2764

02:09:53,650 --> 02:09:51,350

right like a lot of at least in the tech

2765

02:09:55,450 --> 02:09:53,660

worlds like I live in Mountain View just

2766

02:09:57,460 --> 02:09:55,460

down the road from Google and usually

2767

02:09:58,960 --> 02:09:57,470

there's a huge amount of traffic every

2768

02:10:00,370 --> 02:09:58,970

day I think they have like 40,000 people

2769

02:10:02,500 --> 02:10:00,380

working there and so it's really

2770

02:10:04,150 --> 02:10:02,510

impossible for me to get to the park

2771

02:10:06,370 --> 02:10:04,160

where I like to go for a walk on a

2772

02:10:08,500 --> 02:10:06,380

normal weekday between certain hours and

2773

02:10:10,720 --> 02:10:08,510

with a lockdown if they haven't been

2774

02:10:11,860 --> 02:10:10,730

coming in the office but many of them

2775

02:10:13,060 --> 02:10:11,870

are still working and many of these

2776

02:10:14,260 --> 02:10:13,070

companies like Twitter are saying well

2777

02:10:14,740 --> 02:10:14,270

you know you can say working at home

2778

02:10:16,820 --> 02:10:14,750

forever

2779

02:10:19,910 --> 02:10:16,830

well I think that

2780

02:10:21,020 --> 02:10:19,920

will happen first before we can start to

2781

02:10:22,850 --> 02:10:21,030

automate some of these white-collar

2782

02:10:26,180 --> 02:10:22,860

tasks and that's not quite as alarmist

2783

02:10:27,620 --> 02:10:26,190

as you know maybe some people are but

2784

02:10:29,960 --> 02:10:27,630

but I do think there are certain

2785

02:10:32,630 --> 02:10:29,970

professions where the AI automation will

2786

02:10:35,570 --> 02:10:32,640

happen much sooner you know over for

2787

02:10:37,760 --> 02:10:35,580

example right I mean if if self-driving

2788

02:10:39,410 --> 02:10:37,770

driving cars get that good do we really

2789

02:10:42,470 --> 02:10:39,420

need to have a person there and this

2790

02:10:45,010 --> 02:10:42,480

virus concerns just adds to that right

2791

02:10:47,690 --> 02:10:45,020

if you can just have a car that can can

2792

02:10:49,250 --> 02:10:47,700

disinfect itself and not have another

2793

02:10:49,790 --> 02:10:49,260

human there maybe that's preferable in

2794

02:10:51,950 --> 02:10:49,800

some cases

2795

02:10:53,660 --> 02:10:51,960

yeah like the trucking industry I mean

2796

02:10:58,990 --> 02:10:53,670

that's one of the that's one of the

2797

02:11:02,450 --> 02:10:59,000

major focuses right now because of the

2798

02:11:05,360 --> 02:11:02,460

the simplistic side of driving on you

2799

02:11:08,660 --> 02:11:05,370

know a freeway for extended miles and

2800

02:11:12,320 --> 02:11:08,670

and offloading and loading cargo all of

2801
02:11:16,900 --> 02:11:12,330
this could be done in an automated way

2802
02:11:19,190 --> 02:11:16,910
and also you don't have to have the

2803
02:11:22,130 --> 02:11:19,200
exhausted driver that has been out there

2804
02:11:25,460 --> 02:11:22,140
for ten hours and and these trucks could

2805
02:11:27,320 --> 02:11:25,470
run 24 hours a day and and virtually

2806
02:11:30,620 --> 02:11:27,330
change the trucking industry overnight

2807
02:11:32,530 --> 02:11:30,630
but we have 300,000 truck drivers in the

2808
02:11:37,010 --> 02:11:32,540
United States do they all get replaced

2809
02:11:38,330 --> 02:11:37,020
and now I the I'm looking at my time

2810
02:11:40,820 --> 02:11:38,340
limit here because you just put

2811
02:11:42,470 --> 02:11:40,830
restrictions on me there and there's

2812
02:11:45,140 --> 02:11:42,480
another part of this by the way somebody

2813
02:11:46,730 --> 02:11:45,150

just tweeted your deal was made with me

2814

02:11:48,800 --> 02:11:46,740

not with our audience

2815

02:11:51,350 --> 02:11:48,810

it's our audience that you have to face

2816

02:11:58,700 --> 02:11:51,360

is this when we're talking about

2817

02:12:03,700 --> 02:11:58,710

decisions made by AI where you or I as a

2818

02:12:06,230 --> 02:12:03,710

child had a little blue matchbox car

2819

02:12:08,600 --> 02:12:06,240

right and so we grow up and we're

2820

02:12:12,830 --> 02:12:08,610

looking at cars and our decisions are

2821

02:12:15,230 --> 02:12:12,840

made from our emotions that have been

2822

02:12:18,400 --> 02:12:15,240

developed since we were children and we

2823

02:12:21,190 --> 02:12:18,410

go out and we buy a blue car but AI

2824

02:12:24,530 --> 02:12:21,200

doesn't have the five-year-old's

2825

02:12:25,840 --> 02:12:24,540

experience with Hot Wheels right or a

2826

02:12:29,160 --> 02:12:25,850

matchbox car

2827

02:12:33,750 --> 02:12:29,170

so is that alleviate is that

2828

02:12:37,290 --> 02:12:33,760

can care of by uploading a life's worth

2829

02:12:40,400 --> 02:12:37,300

of memories write an entire brain that

2830

02:12:44,310 --> 02:12:40,410

they add the AI can access those

2831

02:12:46,890 --> 02:12:44,320

memories right and that that's an

2832

02:12:50,189 --> 02:12:46,900

interesting question because you know

2833

02:12:51,750 --> 02:12:50,199

like I said the first wave of AI they

2834

02:12:52,919 --> 02:12:51,760

were trying to create these expert

2835

02:12:54,360 --> 02:12:52,929

systems and they were trying to

2836

02:12:55,830 --> 02:12:54,370

encapsulate the knowledge of a

2837

02:12:57,180 --> 02:12:55,840

specialist and then they were trying to

2838

02:13:00,780 --> 02:12:57,190

break that into a set of rules that

2839

02:13:02,850 --> 02:13:00,790

could then go to the I today's AI uses

2840

02:13:05,370 --> 02:13:02,860

machine learning and training large sets

2841

02:13:06,810 --> 02:13:05,380

of data where you just show one thing

2842

02:13:08,820 --> 02:13:06,820

after another this is good this is bad

2843

02:13:10,590 --> 02:13:08,830

this is a good this is bad and it

2844

02:13:13,620 --> 02:13:10,600

eventually figures out what's good and

2845

02:13:16,979 --> 02:13:13,630

what's bad and so you're trying to get a

2846

02:13:19,350 --> 02:13:16,989

lifetime's worth of experience into you

2847

02:13:22,350 --> 02:13:19,360

know that training data set now I

2848

02:13:25,310 --> 02:13:22,360

personally I do think that we will

2849

02:13:28,020 --> 02:13:25,320

figure out the electrical structure of

2850

02:13:30,630 --> 02:13:28,030

memories right I call it you know stage

2851

02:13:32,580 --> 02:13:30,640

8 in the road to the simulation point

2852

02:13:35,610 --> 02:13:32,590

when I talk about you know living inside

2853

02:13:37,080 --> 02:13:35,620

something like the matrix and you know

2854

02:13:38,580 --> 02:13:37,090

there have been like these experiments

2855

02:13:43,979 --> 02:13:38,590

with with the rats where they were able

2856

02:13:45,720 --> 02:13:43,989

to use electricity to kind of implant a

2857

02:13:47,850 --> 02:13:45,730

memory now it's not the kind of memory

2858

02:13:50,070 --> 02:13:47,860

we think of but like with the rats in a

2859

02:13:51,630 --> 02:13:50,080

maze it was like they were they they

2860

02:13:53,580 --> 02:13:51,640

know not to go down this path again

2861

02:13:54,689 --> 02:13:53,590

because there's nothing there or there

2862

02:13:56,850 --> 02:13:54,699

was a shock there or there were

2863

02:13:58,650 --> 02:13:56,860

something there but they found a way to

2864

02:14:00,120 --> 02:13:58,660

convince the rat to do the same thing

2865

02:14:02,310 --> 02:14:00,130

without it actually having to go there

2866

02:14:05,130 --> 02:14:02,320

which means that there may be a

2867

02:14:08,550 --> 02:14:05,140

structure to memory at least from the

2868

02:14:11,300 --> 02:14:08,560

biological side and so you know we're

2869

02:14:14,340 --> 02:14:11,310

not at the point where we can represent

2870

02:14:15,840 --> 02:14:14,350

an entire history but you know it's like

2871

02:14:18,479 --> 02:14:15,850

kind of that scene from Blade Runner

2872

02:14:20,669 --> 02:14:18,489

right where Shawn Young's character

2873

02:14:22,200 --> 02:14:20,679

thinks he talks about the spider in the

2874

02:14:24,870 --> 02:14:22,210

summer and turns out that was a memory

2875

02:14:27,150 --> 02:14:24,880

from the niece of the guy who created

2876

02:14:30,990 --> 02:14:27,160

the Android hits the Tyrell corporation

2877

02:14:33,060 --> 02:14:31,000

and so you know we're just barely

2878

02:14:38,400 --> 02:14:33,070

touching you know how that works but

2879

02:14:41,839 --> 02:14:38,410

that might be one way to get the AIS to

2880

02:14:45,469 --> 02:14:41,849

have more curiosity and

2881

02:14:48,020 --> 02:14:45,479

it basically act more human right and we

2882

02:14:49,759 --> 02:14:48,030

don't know like we don't know why we

2883

02:14:52,129 --> 02:14:49,769

dream exactly there's lots of theories

2884

02:14:53,589 --> 02:14:52,139

in that materialist side and there's a

2885

02:14:56,419 --> 02:14:53,599

lot of theories in the spiritual side

2886

02:14:58,520 --> 02:14:56,429

but you know Philip K Dix

2887

02:15:00,139 --> 02:14:58,530

so a Blade Runner was based on his book

2888

02:15:02,330 --> 02:15:00,149

which was called two Androids Dream of

2889

02:15:04,399 --> 02:15:02,340

Electric Sheep and you know one of the

2890

02:15:06,619 --> 02:15:04,409

theories is that it's a garbage

2891

02:15:10,069 --> 02:15:06,629

collection mechanism right so we're

2892

02:15:12,589 --> 02:15:10,079

getting input all day into our memory

2893

02:15:14,239 --> 02:15:12,599

and now in computer science garbage

2894

02:15:16,790 --> 02:15:14,249

collection means you have to kind of

2895

02:15:18,109 --> 02:15:16,800

clean up the stuff and reorganize it and

2896

02:15:21,259 --> 02:15:18,119

get rid of stuff that you don't need

2897

02:15:23,060 --> 02:15:21,269

anymore and certainly within dreams even

2898

02:15:24,830 --> 02:15:23,070

within the Tibetan Buddhist traditions

2899

02:15:26,899 --> 02:15:24,840

there's this idea of karmic traces that

2900

02:15:28,250 --> 02:15:26,909

just stuff you picked up during the day

2901
02:15:30,379 --> 02:15:28,260
that's why sometimes you'll dream about

2902
02:15:31,909 --> 02:15:30,389
it at night and that's like one type of

2903
02:15:34,879 --> 02:15:31,919
dream that's not the only type of dream

2904
02:15:37,759 --> 02:15:34,889
but it's a cleanup mechanism and so if

2905
02:15:40,459 --> 02:15:37,769
we're gonna let AI roam freely and learn

2906
02:15:43,069 --> 02:15:40,469
freely there probably needs to be some

2907
02:15:45,500 --> 02:15:43,079
kind of garbage collection mechanism and

2908
02:15:48,169 --> 02:15:45,510
there needs to be some way to kind of

2909
02:15:50,989 --> 02:15:48,179
take past experiences so once we've got

2910
02:15:53,029 --> 02:15:50,999
a representation of that we can figure

2911
02:15:56,449 --> 02:15:53,039
out how to upload that into

2912
02:15:58,489 --> 02:15:56,459
consciousness but you know getting back

2913
02:16:00,349 --> 02:15:58,499

to science fiction there's that show

2914

02:16:02,779 --> 02:16:00,359

altered carbon right have you seen that

2915

02:16:04,819 --> 02:16:02,789

at the year I have you know they have

2916

02:16:06,949 --> 02:16:04,829

these stacks they call them these this

2917

02:16:09,619 --> 02:16:06,959

little thing that gets into your spine

2918

02:16:11,599 --> 02:16:09,629

and you can basically once you take that

2919

02:16:14,419 --> 02:16:11,609

out you can put it into another body

2920

02:16:17,119 --> 02:16:14,429

right so it's got everything about the

2921

02:16:18,830 --> 02:16:17,129

person in there and they call it you

2922

02:16:21,529 --> 02:16:18,840

know Reese leaving but getting into

2923

02:16:23,089 --> 02:16:21,539

another sleeve and then you think you're

2924

02:16:25,040 --> 02:16:23,099

the same person and it's got all the

2925

02:16:27,169 --> 02:16:25,050

memories but also all the patterns of

2926

02:16:28,849 --> 02:16:27,179

how they act even in science fiction

2927

02:16:30,830 --> 02:16:28,859

they didn't know well how would that

2928

02:16:33,979 --> 02:16:30,840

work you say that well we got it from

2929

02:16:36,200 --> 02:16:33,989

aliens right so in the end these things

2930

02:16:39,589 --> 02:16:36,210

come down to you know unexplainable

2931

02:16:43,339 --> 02:16:39,599

things or two aliens often but once we

2932

02:16:46,609 --> 02:16:43,349

figure that out we could then replicate

2933

02:16:49,280 --> 02:16:46,619

that and give those memories to a

2934

02:16:52,129 --> 02:16:49,290

computer but right now you know we we

2935

02:16:53,479 --> 02:16:52,139

don't we can't efficiently represent all

2936

02:16:54,589 --> 02:16:53,489

of the memories and all of the

2937

02:16:55,669 --> 02:16:54,599

connections some people think if you

2938

02:16:57,560 --> 02:16:55,679

just took all the

2939

02:16:58,669 --> 02:16:57,570

billions of neurons and the trillions of

2940

02:17:01,280 --> 02:16:58,679

connections and you just basically

2941

02:17:03,410 --> 02:17:01,290

modeled that inside a neural network

2942

02:17:06,230 --> 02:17:03,420

that that's all you need that that AI

2943

02:17:07,310 --> 02:17:06,240

would be just like the person I don't

2944

02:17:09,350 --> 02:17:07,320

think it's that simple

2945

02:17:11,810 --> 02:17:09,360

right that's why I still feel like we're

2946

02:17:13,250 --> 02:17:11,820

going there's new breakthroughs that

2947

02:17:14,990 --> 02:17:13,260

need to happen and I can't tell you what

2948

02:17:16,700 --> 02:17:15,000

those breakthroughs are if I did I could

2949

02:17:17,629 --> 02:17:16,710

go out and find a company to do those

2950

02:17:19,640 --> 02:17:17,639

breakthroughs right

2951

02:17:20,900 --> 02:17:19,650

but they will happen over time and

2952

02:17:23,060 --> 02:17:20,910

that's why I think we're a bit further

2953

02:17:24,530 --> 02:17:23,070

away from either artificial general

2954

02:17:26,570 --> 02:17:24,540

intelligence or certainly super

2955

02:17:29,000 --> 02:17:26,580

intelligence than many people think now

2956

02:17:31,190 --> 02:17:29,010

in we've we've made a lot of movie

2957

02:17:33,440 --> 02:17:31,200

references tonight and I and I like that

2958

02:17:34,340 --> 02:17:33,450

aspect of this conversation and my

2959

02:17:36,500 --> 02:17:34,350

opening

2960

02:17:39,650 --> 02:17:36,510

rant tonight was about the movie Tron

2961

02:17:42,290 --> 02:17:39,660

and there are a couple of elements of

2962

02:17:44,240 --> 02:17:42,300

Tron and if you we really think about it

2963

02:17:48,860 --> 02:17:44,250

the timing of the movie which came out

2964

02:17:51,440 --> 02:17:48,870

in 82 or 83 its vision of the future was

2965

02:17:56,570 --> 02:17:51,450

strong there you know everything was

2966

02:18:00,410 --> 02:17:56,580

there but the part of it that I'm bummed

2967

02:18:04,150 --> 02:18:00,420

out about is that I see it as an

2968

02:18:07,250 --> 02:18:04,160

impossibility that you can't actually

2969

02:18:10,640 --> 02:18:07,260

experience we can upload all day long

2970

02:18:12,680 --> 02:18:10,650

but you are not there you are still

2971

02:18:19,129 --> 02:18:12,690

existing in your own body your only

2972

02:18:23,000 --> 02:18:19,139

convert creating a new life right that's

2973

02:18:25,459 --> 02:18:23,010

it life is off its own experiences and

2974

02:18:27,590 --> 02:18:25,469

its own thing you are not sharing

2975

02:18:29,209 --> 02:18:27,600

consciousness you know you're not part

2976

02:18:32,510 --> 02:18:29,219

of it you're not inside of the computer

2977

02:18:35,120 --> 02:18:32,520

you're still on the outside of the

2978

02:18:38,270 --> 02:18:35,130

computer right so it's like you're

2979

02:18:40,660 --> 02:18:38,280

forking the data set at that point right

2980

02:18:43,340 --> 02:18:40,670

it's a that's a copy of you but it's not

2981

02:18:45,860 --> 02:18:43,350

necessarily you well that's an

2982

02:18:47,959 --> 02:18:45,870

interesting question is it you or is it

2983

02:18:50,000 --> 02:18:47,969

not so the way they dealt with this in

2984

02:18:52,010 --> 02:18:50,010

Altered carbon was there was a strict

2985

02:18:54,200 --> 02:18:52,020

rule that you can't double sleeve right

2986

02:18:55,850 --> 02:18:54,210

you can't have the same information

2987

02:18:58,970 --> 02:18:55,860

because they didn't just have it in the

2988

02:19:00,890 --> 02:18:58,980

the device the way they did interstellar

2989

02:19:05,150 --> 02:19:00,900

travel was they beamed the information

2990

02:19:07,129 --> 02:19:05,160

about you into the cortical stack on the

2991

02:19:09,560 --> 02:19:07,139

other planet and then you went into

2992

02:19:12,260 --> 02:19:09,570

another body and then suddenly you were

2993

02:19:14,870 --> 02:19:12,270

but they also didn't allow you to still

2994

02:19:16,700 --> 02:19:14,880

be in the old body so when you took the

2995

02:19:19,430 --> 02:19:16,710

stack out they would have to die but

2996

02:19:22,010 --> 02:19:19,440

that was a political solution right that

2997

02:19:23,720 --> 02:19:22,020

wasn't a technical solution because it

2998

02:19:25,340 --> 02:19:23,730

turns out you could in that in that

2999

02:19:28,100 --> 02:19:25,350

scenario you could have two versions of

3000

02:19:30,110 --> 02:19:28,110

you that diverged at that point in time

3001

02:19:32,300 --> 02:19:30,120

kind of like a backup right it's when

3002

02:19:35,620 --> 02:19:32,310

the backup is made but you don't have

3003

02:19:37,550 --> 02:19:35,630

you don't have two minds in one mind

3004

02:19:40,520 --> 02:19:37,560

happening at the same time you're not

3005

02:19:43,460 --> 02:19:40,530

controlling the other body from one body

3006

02:19:44,930 --> 02:19:43,470

the two bodies are independent like I

3007

02:19:48,461 --> 02:19:44,940

said in the beginning of the show right

3008

02:19:52,011 --> 02:19:48,471

if you teleport you you you sent data

3009

02:19:55,011 --> 02:19:52,021

from yourself to Mars and you teleported

3010

02:19:58,190 --> 02:19:55,021

to Mars that doesn't mean you are on

3011

02:20:01,430 --> 02:19:58,200

Mars there's just a different version of

3012

02:20:05,150 --> 02:20:01,440

you on Mars not experiencing Mars you're

3013

02:20:06,650 --> 02:20:05,160

not smelling Mars well it depends you

3014

02:20:09,320 --> 02:20:06,660

know that's one way to think about it is

3015

02:20:12,711 --> 02:20:09,330

that it is a a copy of you right just

3016

02:20:14,120 --> 02:20:12,721

like twins right identical twins that

3017

02:20:15,890 --> 02:20:14,130

came from the same cells but then they

3018

02:20:17,211 --> 02:20:15,900

have different experiences so then they

3019

02:20:18,801 --> 02:20:17,221

go on to have different personalities

3020

02:20:20,961 --> 02:20:18,811

but they started at the same place so

3021

02:20:22,761 --> 02:20:20,971

it's kind of like breaking off a digital

3022

02:20:25,070 --> 02:20:22,771

twin of you and that's a you know a term

3023

02:20:27,320 --> 02:20:25,080

that's used a lot in this world is

3024

02:20:28,850 --> 02:20:27,330

digital immortality all right a simple

3025

02:20:30,950 --> 02:20:28,860

example of that is you know after

3026

02:20:33,110 --> 02:20:30,960

someone dies you have all their social

3027

02:20:35,060 --> 02:20:33,120

media their posts and it keeps posting

3028

02:20:37,330 --> 02:20:35,070

all right that's kind of a primitive

3029

02:20:41,330 --> 02:20:37,340

version of that you're getting into a

3030

02:20:43,730 --> 02:20:41,340

much deeper question but it depends

3031

02:20:46,131 --> 02:20:43,740

because if we're talking about AI and

3032

02:20:48,650 --> 02:20:46,141

we're talking about code who's to say

3033

02:20:49,850 --> 02:20:48,660

that code can't be synchronized right

3034

02:20:51,860 --> 02:20:49,860

there's something in computer science we

3035

02:20:54,110 --> 02:20:51,870

call it replication and it turns out

3036

02:20:56,301 --> 02:20:54,120

most many people use Dropbox right you

3037

02:20:59,091 --> 02:20:56,311

probably use Dropbox right and so I've

3038

02:21:01,580 --> 02:20:59,101

got a Dropbox account on this laptop and

3039

02:21:04,280 --> 02:21:01,590

my other laptop and every time I make a

3040

02:21:06,171 --> 02:21:04,290

change it gets synced all right and so

3041

02:21:07,190 --> 02:21:06,181

the idea with their application is

3042

02:21:09,801 --> 02:21:07,200

you're trying to keep these two

3043

02:21:11,750 --> 02:21:09,811

different pieces of information synced

3044

02:21:15,051 --> 02:21:11,760

and you're trying to do it as real time

3045

02:21:16,131 --> 02:21:15,061

as possible all right and so going back

3046

02:21:17,390 --> 02:21:16,141

to science fiction because that's

3047

02:21:19,011 --> 02:21:17,400

sometimes the easiest way to talk about

3048

02:21:20,860 --> 02:21:19,021

this stuff if you if you link back to

3049

02:21:22,330 --> 02:21:20,870

dune right

3050

02:21:27,480 --> 02:21:22,340

remember dude there's a new movie coming

3051

02:21:29,740 --> 02:21:27,490

out but there isn't one I cannot wait

3052

02:21:34,030 --> 02:21:29,750

looking forward to it but if you read

3053

02:21:35,740 --> 02:21:34,040

kind of the prequel series that Frank

3054

02:21:37,960 --> 02:21:35,750

Herbert his son Frank Herbert's son

3055

02:21:40,301 --> 02:21:37,970

Brian Herbert right of an Anderson wrote

3056

02:21:42,070 --> 02:21:40,311

the you know they had a big they had a

3057

02:21:43,990 --> 02:21:42,080

case where the the machines enslaved

3058

02:21:46,180 --> 02:21:44,000

humanity and then they had this thing

3059

02:21:48,160 --> 02:21:46,190

called a balerion jihad and they rose up

3060

02:21:50,920 --> 02:21:48,170

and then they had these rules that said

3061

02:21:52,570 --> 02:21:50,930

thou shalt not create a computer in the

3062

02:21:54,761 --> 02:21:52,580

image of a human brain right that was

3063

02:21:56,350 --> 02:21:54,771

the religion because they saw what would

3064

02:21:58,810 --> 02:21:56,360

happen if they were enslaved by the

3065

02:22:01,540 --> 02:21:58,820

machine but if you look at the machine

3066

02:22:03,850 --> 02:22:01,550

that enslaved the humanity it was called

3067

02:22:06,790 --> 02:22:03,860

omnious I think if memory serves me

3068

02:22:08,801 --> 02:22:06,800

correctly and there were multiple copies

3069

02:22:11,801 --> 02:22:08,811

of omnious and it would constantly

3070

02:22:14,860 --> 02:22:11,811

synchronize and there was one robot that

3071

02:22:17,290 --> 02:22:14,870

was a separate self-contained robot so

3072

02:22:19,330 --> 02:22:17,300

it was not syncing to the rest of

3073

02:22:21,970 --> 02:22:19,340

omnious but all the other versions of it

3074

02:22:23,801 --> 02:22:21,980

were syncing and so it's possible that

3075

02:22:27,280 --> 02:22:23,811

you might have multiple versions of an

3076

02:22:29,410 --> 02:22:27,290

AI that on the one hand you might say

3077

02:22:32,320 --> 02:22:29,420

well they're they're not the same but if

3078

02:22:34,600 --> 02:22:32,330

they're sinking very often then it's

3079

02:22:37,511 --> 02:22:34,610

almost as if it is the same and it's

3080

02:22:39,730 --> 02:22:37,521

having both experiences and you know

3081

02:22:42,700 --> 02:22:39,740

maybe there's no limit like we think of

3082

02:22:44,950 --> 02:22:42,710

CPUs as having one instruction at a time

3083

02:22:47,740 --> 02:22:44,960

and that's all I can do and even in our

3084

02:22:50,020 --> 02:22:47,750

laptop when I have multiple windows open

3085

02:22:52,030 --> 02:22:50,030

you know the CPU and its course still

3086

02:22:53,730 --> 02:22:52,040

only doing one little instruction at a

3087

02:22:56,380 --> 02:22:53,740

time it's just what they call

3088

02:22:58,240 --> 02:22:56,390

multitasking right which is it's

3089

02:22:59,560 --> 02:22:58,250

starting one and then it goes and does

3090

02:23:01,511 --> 02:22:59,570

an instruction in the other window and

3091

02:23:03,160 --> 02:23:01,521

then it comes back to my window and

3092

02:23:05,380 --> 02:23:03,170

that's kind of how multitasking works

3093

02:23:08,860 --> 02:23:05,390

right but now that we're starting to

3094

02:23:10,330 --> 02:23:08,870

have clusters of GPUs and CPUs you get

3095

02:23:12,130 --> 02:23:10,340

this idea that you can have multiple

3096

02:23:14,680 --> 02:23:12,140

things happening at the exact same time

3097

02:23:17,440 --> 02:23:14,690

so there's no reason you couldn't have

3098

02:23:20,110 --> 02:23:17,450

AI that has multiple copies of itself

3099

02:23:21,910 --> 02:23:20,120

but that are constantly in sync there

3100

02:23:23,500 --> 02:23:21,920

may be a limit to how fast that can be

3101

02:23:26,230 --> 02:23:23,510

done and you know it's kind of like

3102

02:23:28,360 --> 02:23:26,240

somebody mentioned Second Life earlier I

3103

02:23:29,830 --> 02:23:28,370

think you know on Twitter like I

3104

02:23:31,960 --> 02:23:29,840

remember sometimes in Second Life I I

3105

02:23:33,439 --> 02:23:31,970

had two avatars and I would just want to

3106

02:23:35,179 --> 02:23:33,449

see what it was like

3107

02:23:37,249 --> 02:23:35,189

to avatars and there's people who

3108

02:23:38,779 --> 02:23:37,259

believe in the spiritual world that that

3109

02:23:41,420 --> 02:23:38,789

happens sometimes where a soul might

3110

02:23:42,800 --> 02:23:41,430

divide and be in two separate bodies but

3111

02:23:45,199 --> 02:23:42,810

there's actually still a part that's

3112

02:23:47,779 --> 02:23:45,209

outside of it so it's possible you could

3113

02:23:50,590 --> 02:23:47,789

have multiple copies and have it all be

3114

02:23:53,389 --> 02:23:50,600

the same the same person or the same a l

3115

02:23:55,429 --> 02:23:53,399

although that might not be you the

3116

02:23:57,469 --> 02:23:55,439

biological one each of them could be

3117

02:23:59,269 --> 02:23:57,479

connected with each other and in a

3118

02:24:01,999 --> 02:23:59,279

network if you will and the network is

3119

02:24:04,249 --> 02:24:02,009

the AI in that case well we've got we

3120

02:24:06,199 --> 02:24:04,259

okay we've got literally three minutes

3121

02:24:09,889 --> 02:24:06,209

left essentially cutting me off do you

3122

02:24:12,559 --> 02:24:09,899

want to do overtime tonight okay okay so

3123

02:24:16,099 --> 02:24:12,569

then one last question that's that's my

3124

02:24:21,249 --> 02:24:16,109

last softball pitch is is is this or is

3125

02:24:25,369 --> 02:24:21,259

a couple of months ago Elon Musk said

3126

02:24:30,679 --> 02:24:25,379

that neural link was ready and it was a

3127

02:24:33,170 --> 02:24:30,689

few months away from the big reveal now

3128

02:24:38,979 --> 02:24:33,180

those three or four months of sense

3129

02:24:41,719 --> 02:24:38,989

passed right but he I think it's ready

3130

02:24:45,739 --> 02:24:41,729

well if you listen closely to what he

3131

02:24:49,489 --> 02:24:45,749

said you know was he's talking about V 1

3132

02:24:52,999 --> 02:24:49,499

and V 1 was meant for people that might

3133

02:24:55,789 --> 02:24:53,009

have a you know a brain dysfunction and

3134

02:24:57,590 --> 02:24:55,799

so you know he's an entrepreneur he's

3135

02:24:59,929 --> 02:24:57,600

gonna play it up in many ways right

3136

02:25:02,420 --> 02:24:59,939

right because he wants this company to

3137

02:25:04,340 --> 02:25:02,430

be successful but you know I think it

3138

02:25:06,499 --> 02:25:04,350

was that the Rogan podcast yes it was on

3139

02:25:09,050 --> 02:25:06,509

the Rogan podcast so I there's my

3140

02:25:12,319 --> 02:25:09,060

confession I listen to Rogan but this is

3141

02:25:17,149 --> 02:25:12,329

but this is my question no link comes

3142

02:25:20,769 --> 02:25:17,159

out do you do it you understand the

3143

02:25:23,929 --> 02:25:20,779

technology yeah do you do you link up I

3144

02:25:26,599 --> 02:25:23,939

don't I wouldn't link up right away like

3145

02:25:28,699 --> 02:25:26,609

I would wait a long time and the reason

3146

02:25:32,359 --> 02:25:28,709

is I write software so I know software

3147

02:25:34,309 --> 02:25:32,369

breaks right and so you know it's like

3148

02:25:36,920 --> 02:25:34,319

being a beta tester you know being a

3149

02:25:40,159 --> 02:25:36,930

beta tester on a game breaks down no big

3150

02:25:42,709 --> 02:25:40,169

deal right beta tester of technology

3151

02:25:44,179 --> 02:25:42,719

that's sitting in your head you know

3152

02:25:47,980 --> 02:25:44,189

that's sitting inside your brain with a

3153

02:25:51,740 --> 02:25:47,990

little drill I wouldn't do it until over

3154

02:25:53,960 --> 02:25:51,750

or later possibly right because by then

3155

02:25:56,960 --> 02:25:53,970

they would have worked out the kinks and

3156

02:25:59,000 --> 02:25:56,970

you also have to see I mean we're in the

3157

02:26:04,430 --> 02:25:59,010

early days of brain computer interface

3158

02:26:06,350 --> 02:26:04,440

PCI and I think that's you know a really

3159

02:26:08,421 --> 02:26:06,360

interesting area moving forward and

3160

02:26:10,341 --> 02:26:08,431

there are different ways of doing that

3161

02:26:13,640 --> 02:26:10,351

you can just try to sense the electrical

3162

02:26:15,860 --> 02:26:13,650

signals without be having an invasive

3163

02:26:18,110 --> 02:26:15,870

version I know I think you've had Adam

3164

02:26:20,810 --> 02:26:18,120

curry on your show before yeah yep yep

3165

02:26:23,330 --> 02:26:20,820

yep and adam has a company called

3166

02:26:25,100 --> 02:26:23,340

entangled where they're trying to use

3167

02:26:27,350 --> 02:26:25,110

these quantum random number generators

3168

02:26:29,570 --> 02:26:27,360

to detect your thoughts and they say

3169

02:26:31,100 --> 02:26:29,580

that you know should be 50/50 but when

3170

02:26:32,990 --> 02:26:31,110

you're thinking certain thoughts the

3171

02:26:35,450 --> 02:26:33,000

random number generators are not 50/50

3172

02:26:37,070 --> 02:26:35,460

and so there's a non-invasive way of

3173

02:26:39,830 --> 02:26:37,080

trying to figure out what you're

3174

02:26:43,250 --> 02:26:39,840

thinking and and and kind of reading

3175

02:26:45,860 --> 02:26:43,260

your mind but you know personally I

3176
02:26:47,540 --> 02:26:45,870
think with a more invasive way I think

3177
02:26:49,460 --> 02:26:47,550
we have to be careful where we just

3178
02:26:52,040 --> 02:26:49,470
don't understand consciousness or the

3179
02:26:53,631 --> 02:26:52,050
brain that well so well you know there's

3180
02:26:56,150 --> 02:26:53,641
very it's very likely that there's gonna

3181
02:26:58,190 --> 02:26:56,160
be problems right kind of like remember

3182
02:27:01,730 --> 02:26:58,200
the the first artificial heart in this

3183
02:27:04,040 --> 02:27:01,740
in 1984 or whenever it was that the

3184
02:27:05,660 --> 02:27:04,050
Jarvik 7 I think it was called right it

3185
02:27:07,850 --> 02:27:05,670
didn't quite work out now a hundred

3186
02:27:10,881 --> 02:27:07,860
years from now you know we may have lots

3187
02:27:12,410 --> 02:27:10,891
of artificial organs right but yeah I

3188
02:27:15,080 --> 02:27:12,420

don't think I'd want to be you know one

3189

02:27:17,570 --> 02:27:15,090

of those first people unless you know

3190

02:27:20,421 --> 02:27:17,580

there was no alternative yeah well I've

3191

02:27:24,020 --> 02:27:20,431

got 30 seconds left I'm not gonna get

3192

02:27:28,330 --> 02:27:24,030

into your personal issues but if there

3193

02:27:30,830 --> 02:27:28,340

was an opportunity for a stem-cell heart

3194

02:27:35,120 --> 02:27:30,840

right and somebody said hey hey rizz

3195

02:27:41,600 --> 02:27:35,130

it's it's it's it was it was grown from

3196

02:27:44,720 --> 02:27:41,610

you for you you need it that's that is

3197

02:27:47,240 --> 02:27:44,730

is that something that you do well yeah

3198

02:27:49,160 --> 02:27:47,250

I think if it's based on my stem cells

3199

02:27:52,160 --> 02:27:49,170

right then it's not that different than

3200

02:27:54,200 --> 02:27:52,170

what the body did when it converted

3201

02:27:56,841 --> 02:27:54,210

those stem cells to the cells that make

3202

02:27:59,540 --> 02:27:56,851

a part or the brain right we just have

3203

02:28:01,219 --> 02:27:59,550

to learn how to get the stem cells to do

3204

02:28:03,319 --> 02:28:01,229

certain things so as I

3205

02:28:06,080 --> 02:28:03,329

said we are biological machines well

3206

02:28:09,800 --> 02:28:06,090

what about somebody else's heart perfect

3207

02:28:13,160 --> 02:28:09,810

match I don't know if that's you know

3208

02:28:15,319 --> 02:28:13,170

it's Swedish well if it feels weird to

3209

02:28:16,670 --> 02:28:15,329

me because you're getting this you're

3210

02:28:19,399 --> 02:28:16,680

getting their sold

3211

02:28:21,200 --> 02:28:19,409

yeah you're getting their soul suddenly

3212

02:28:22,639 --> 02:28:21,210

you know you wake up in the morning

3213

02:28:25,779 --> 02:28:22,649

you're like man I've never played tennis

3214

02:28:28,450 --> 02:28:25,789

before but I'm ready to get you know

3215

02:28:30,620 --> 02:28:28,460

there was a Korean movie called eyes

3216

02:28:32,359 --> 02:28:30,630

about that where she got eyes

3217

02:28:36,170 --> 02:28:32,369

transplanted and that you started to see

3218

02:28:39,439 --> 02:28:36,180

stuff that the previous owner had seen

3219

02:28:43,790 --> 02:28:39,449

right all right we don't fully even

3220

02:28:46,279 --> 02:28:43,800

understand memory so you know we is it

3221

02:28:48,979 --> 02:28:46,289

purely biological or are there other

3222

02:28:50,630 --> 02:28:48,989

elements to memories it also you know

3223

02:28:53,000 --> 02:28:50,640

not stored in one place is it

3224

02:28:55,639 --> 02:28:53,010

distributed throughout the cells of the

3225

02:28:57,200 --> 02:28:55,649

body and so you know that there could be

3226

02:28:58,670 --> 02:28:57,210

possibilities of that I guess for me it

3227

02:29:01,219 --> 02:28:58,680

just depends on how dire is the

3228

02:29:03,229 --> 02:29:01,229

situation personally right because if

3229

02:29:05,269 --> 02:29:03,239

he's away then that's one thing right

3230

02:29:07,429 --> 02:29:05,279

then either you're gonna move on and die

3231

02:29:08,300 --> 02:29:07,439

or you're gonna get this thing it might

3232

02:29:11,179 --> 02:29:08,310

be worth a shot

3233

02:29:13,250 --> 02:29:11,189

but if it's you know you've got other

3234

02:29:15,319 --> 02:29:13,260

alternatives then I don't think that I

3235

02:29:17,599 --> 02:29:15,329

would necessarily do that right away

3236

02:29:19,939 --> 02:29:17,609

well these deep philosophical issues I

3237

02:29:22,809 --> 02:29:19,949

think come into play with things like

3238

02:29:26,269 --> 02:29:22,819

neural link or some type of a you know

3239

02:29:28,929 --> 02:29:26,279

brain computer interface which DARPA is

3240

02:29:32,300 --> 02:29:28,939

heavily funded on right now I mean that

3241

02:29:35,929 --> 02:29:32,310

Google the this is a big focus for

3242

02:29:39,319 --> 02:29:35,939

everybody to get this done and and get

3243

02:29:42,559 --> 02:29:39,329

the the software the communication

3244

02:29:44,420 --> 02:29:42,569

between us and in the computer and and

3245

02:29:48,050 --> 02:29:44,430

and give getting that up and running but

3246

02:29:50,510 --> 02:29:48,060

it's the same a philosophical issue that

3247

02:29:52,460 --> 02:29:50,520

we're dealing with here you know do you

3248

02:29:55,069 --> 02:29:52,470

do you accept somebody else's heart an

3249

02:29:58,760 --> 02:29:55,079

artificial heart a stem cell heart or

3250

02:30:00,769 --> 02:29:58,770

brain or a lung or whatever and it's the

3251
02:30:03,500 --> 02:30:00,779
same thing with neural link where now

3252
02:30:06,849 --> 02:30:03,510
you're interfacing with a computer that

3253
02:30:09,950 --> 02:30:06,859
the software comes from somebody else

3254
02:30:12,500 --> 02:30:09,960
right well in neural link and others

3255
02:30:14,380 --> 02:30:12,510
you're getting a silicon device right

3256
02:30:17,380 --> 02:30:14,390
that's being put into

3257
02:30:19,960 --> 02:30:17,390
a biological entity and you know I think

3258
02:30:22,149 --> 02:30:19,970
that's a harder thing longer-term but if

3259
02:30:24,910 --> 02:30:22,159
it's for a specific like if I had

3260
02:30:27,280 --> 02:30:24,920
Alzheimers or a specific neurological

3261
02:30:29,710 --> 02:30:27,290
disorder certainly I would consider

3262
02:30:32,500 --> 02:30:29,720
right that just like I might consider

3263
02:30:35,530 --> 02:30:32,510

you know getting in a metal hip right if

3264

02:30:37,599 --> 02:30:35,540

something didn't work out and I needed

3265

02:30:40,479 --> 02:30:37,609

it for that reason and that's I think

3266

02:30:42,639 --> 02:30:40,489

we're neuro-link we'll find you know

3267

02:30:46,899 --> 02:30:42,649

we'll find some success initially is in

3268

02:30:52,330 --> 02:30:46,909

figuring out how it can use electrical

3269

02:30:55,330 --> 02:30:52,340

signals into the brain to then you know

3270

02:30:56,439 --> 02:30:55,340

improve a specific condition you know

3271

02:30:58,780 --> 02:30:56,449

what I might consider is something

3272

02:30:59,740 --> 02:30:58,790

that's a little less invasive like for

3273

02:31:01,360 --> 02:30:59,750

example

3274

02:31:04,809 --> 02:31:01,370

speaking of sci-fi do you ever see the

3275

02:31:06,700 --> 02:31:04,819

series travelers no longer right and

3276

02:31:08,590 --> 02:31:06,710

they came from the future okay time

3277

02:31:09,939 --> 02:31:08,600

travel would you know is a different

3278

02:31:12,130 --> 02:31:09,949

thing but they had a little speaker

3279

02:31:15,130 --> 02:31:12,140

right that was right underneath the year

3280

02:31:17,469 --> 02:31:15,140

I mean to me it's annoying to like have

3281

02:31:19,120 --> 02:31:17,479

different have my bluetooth connect to

3282

02:31:22,030 --> 02:31:19,130

my computer than to my phone and my iPad

3283

02:31:24,040 --> 02:31:22,040

and my other laptop I mean they're all

3284

02:31:25,330 --> 02:31:24,050

using the same thing its speakers right

3285

02:31:27,219 --> 02:31:25,340

so and then I have to put on these

3286

02:31:28,630 --> 02:31:27,229

headphones when I'm talking to you like

3287

02:31:30,639 --> 02:31:28,640

if I was able to have something that I

3288

02:31:32,320 --> 02:31:30,649

could just press on and turn it on or

3289

02:31:33,820 --> 02:31:32,330

off it uses bluetooth and it wasn't too

3290

02:31:36,040 --> 02:31:33,830

far in so that it's really easy to take

3291

02:31:38,349 --> 02:31:36,050

it out if you need to upgrade it with

3292

02:31:39,880 --> 02:31:38,359

just a little you know incision then the

3293

02:31:42,250 --> 02:31:39,890

doubt I would consider I don't think I'd

3294

02:31:44,860 --> 02:31:42,260

want to get a hole drilled in my head

3295

02:31:46,769 --> 02:31:44,870

right away mostly because I'd say wait

3296

02:31:54,809 --> 02:31:46,779

till version 10 that I might consider it

3297

02:31:58,200 --> 02:31:54,819

the I think the goal for Elon is to

3298

02:32:01,090 --> 02:31:58,210

access the internet through your mind I

3299

02:32:03,580 --> 02:32:01,100

think that I think that's a good yeah

3300

02:32:06,309 --> 02:32:03,590

that's good oh yeah I mean this goal is

3301
02:32:09,250 --> 02:32:06,319
to basically augment the human mind with

3302
02:32:11,410 --> 02:32:09,260
AI by accessing information that's out

3303
02:32:12,880 --> 02:32:11,420
there and this leads to all kinds of

3304
02:32:16,000 --> 02:32:12,890
interesting discussions will you be able

3305
02:32:18,160 --> 02:32:16,010
to use it to download information you

3306
02:32:19,719 --> 02:32:18,170
know and learn things right it's kind of

3307
02:32:22,260 --> 02:32:19,729
like in the matrix where you guys ooh I

3308
02:32:26,230 --> 02:32:25,149
we'll see that's it that's a great point

3309
02:32:30,881 --> 02:32:26,240
can all he

3310
02:32:32,980 --> 02:32:30,891
humans passed the Turing test right what

3311
02:32:40,060 --> 02:32:32,990
is you head right what have you had two

3312
02:32:41,740 --> 02:32:40,070
humans behind the the doors right it's a

3313
02:32:45,011 --> 02:32:41,750

good question well I guess it would

3314

02:32:47,171 --> 02:32:45,021

depend on language right like if if

3315

02:32:49,810 --> 02:32:47,181

somebody was speaking not their first

3316

02:32:53,051 --> 02:32:49,820

language then it would be harder to it

3317

02:32:55,120 --> 02:32:53,061

would be easier to figure out right so

3318

02:32:57,040 --> 02:32:55,130

so yeah that you're right maybe maybe

3319

02:33:00,640 --> 02:32:57,050

not you know you might think one of

3320

02:33:04,120 --> 02:33:00,650

those humans is a computer right

3321

02:33:07,360 --> 02:33:04,130

Riz thank you so much my friend and your

3322

02:33:08,921 --> 02:33:07,370

new book startup myths and models we

3323

02:33:13,841 --> 02:33:08,931

have a large audience here and if

3324

02:33:15,551 --> 02:33:13,851

somebody when when you speak about this

3325

02:33:19,360 --> 02:33:15,561

book everybody wants to start a company

3326

02:33:21,850 --> 02:33:19,370

right and and what is behind it and

3327

02:33:25,570 --> 02:33:21,860

especially in in today's climate with

3328

02:33:30,160 --> 02:33:25,580

the dynamics that that are in play here

3329

02:33:32,110 --> 02:33:30,170

who is who is this book written for sure

3330

02:33:34,150 --> 02:33:32,120

yeah so this book is written for anyone

3331

02:33:36,190 --> 02:33:34,160

who's thinking of starting a company or

3332

02:33:38,560 --> 02:33:36,200

anybody who has started a company or

3333

02:33:41,140 --> 02:33:38,570

who's involved in a start-up you know as

3334

02:33:43,330 --> 02:33:41,150

an early employee or as an investor and

3335

02:33:45,490 --> 02:33:43,340

the idea the subtitle is what they don't

3336

02:33:46,961 --> 02:33:45,500

teach you in business school and you

3337

02:33:49,480 --> 02:33:46,971

know I'm of a belief that a lot of

3338

02:33:52,450 --> 02:33:49,490

success comes through intuition and

3339

02:33:54,461 --> 02:33:52,460

following the clues and that it's a

3340

02:33:56,200 --> 02:33:54,471

journey and so this book is about what

3341

02:33:58,150 --> 02:33:56,210

that journey is really like and it's

3342

02:34:00,220 --> 02:33:58,160

framed as like the hero's journey where

3343

02:34:01,930 --> 02:34:00,230

you have different stages creating the

3344

02:34:03,850 --> 02:34:01,940

call to adventure and finding the

3345

02:34:05,890 --> 02:34:03,860

treasure at the end so you know it's

3346

02:34:07,720 --> 02:34:05,900

probably a bit outside of what we

3347

02:34:09,970 --> 02:34:07,730

normally talk about and then fade to

3348

02:34:11,290 --> 02:34:09,980

black but if anybody is interested in

3349

02:34:13,030 --> 02:34:11,300

entrepreneurship and I definitely

3350

02:34:14,950 --> 02:34:13,040

recommend they check it out they can go

3351
02:34:17,410 --> 02:34:14,960
to my website as an entrepreneur comm

3352
02:34:19,330 --> 02:34:17,420
and download chapters of that as well as

3353
02:34:24,100 --> 02:34:19,340
of the simulation hypothesis there for

3354
02:34:26,140 --> 02:34:24,110
free now have you found that and we I

3355
02:34:29,320 --> 02:34:26,150
spoke about this earlier band the whole

3356
02:34:31,450 --> 02:34:29,330
atheist component of Technology and

3357
02:34:36,160 --> 02:34:31,460
science and and physicists and quantum

3358
02:34:38,680 --> 02:34:36,170
physics that you especially in in

3359
02:34:39,429 --> 02:34:38,690
treasure hunt by the way where you are

3360
02:34:42,449 --> 02:34:39,439
absolute

3361
02:34:45,670 --> 02:34:42,459
please end out man you are talking about

3362
02:34:48,250 --> 02:34:45,680
if figuring out the little clues of your

3363
02:34:52,479 --> 02:34:48,260

day that are guiding your life that can

3364

02:34:53,949 --> 02:34:52,489

help you on your journey to success and

3365

02:34:56,319 --> 02:34:53,959

it's the name of the book treasure hunt

3366

02:34:58,750 --> 02:34:56,329

and you do this also and start in

3367

02:35:01,809 --> 02:34:58,760

startup myths and models does that go

3368

02:35:05,019 --> 02:35:01,819

against the grain of Silicon Valley and

3369

02:35:07,689 --> 02:35:05,029

venture capital where you know going

3370

02:35:11,199 --> 02:35:07,699

into the Zen spiritual aspect of being

3371

02:35:13,359 --> 02:35:11,209

successful that's that's it's it's more

3372

02:35:16,630 --> 02:35:13,369

of a pragmatic black-and-white world out

3373

02:35:19,059 --> 02:35:16,640

there isn't it well it is but it's also

3374

02:35:22,080 --> 02:35:19,069

you know I think there's a recognition

3375

02:35:25,300 --> 02:35:22,090

that it's as much of an art as a science

3376

02:35:27,429 --> 02:35:25,310

well Steve Jobs would definitely go

3377

02:35:29,739 --> 02:35:27,439

against the grain and look at well look

3378

02:35:31,630 --> 02:35:29,749

at what he did right but he's not the

3379

02:35:33,670 --> 02:35:31,640

only one you know Salesforce coms

3380

02:35:35,590 --> 02:35:33,680

founder Marc Benioff I think is is

3381

02:35:37,719 --> 02:35:35,600

really into Zen meditation and so I

3382

02:35:39,309 --> 02:35:37,729

think there's a recognition like the

3383

02:35:41,109 --> 02:35:39,319

subtitle of this book was you know what

3384

02:35:43,179 --> 02:35:41,119

they don't teach you in Business School

3385

02:35:43,929 --> 02:35:43,189

and originally I was gonna call it what

3386

02:35:45,189 --> 02:35:43,939

they don't teach you at Stanford

3387

02:35:46,870 --> 02:35:45,199

Business School because that's where I

3388

02:35:48,309 --> 02:35:46,880

went to business school but it was

3389

02:35:50,080 --> 02:35:48,319

published by Columbia so they took it

3390

02:35:52,599 --> 02:35:50,090

out but in Business School they try to

3391

02:35:54,760 --> 02:35:52,609

teach you okay this is how you do X Y or

3392

02:35:57,160 --> 02:35:54,770

Z one two three and you build these long

3393

02:35:58,120 --> 02:35:57,170

spreadsheets and when I'm remember

3394

02:35:59,410 --> 02:35:58,130

raising my head and said well what if

3395

02:36:01,120 --> 02:35:59,420

you just change the input and laughed

3396

02:36:03,279 --> 02:36:01,130

because well then all the numbers on the

3397

02:36:05,199 --> 02:36:03,289

right change so all the decisions change

3398

02:36:06,399 --> 02:36:05,209

and so well how do you know what numbers

3399

02:36:09,580 --> 02:36:06,409

to plug in and I said well that's where

3400

02:36:11,889 --> 02:36:09,590

you got to use your gut right so it gets

3401

02:36:14,260 --> 02:36:11,899

back to following your gut and your

3402

02:36:17,439 --> 02:36:14,270

intuition I mean many venture

3403

02:36:19,239 --> 02:36:17,449

capitalists you know 90% of the

3404

02:36:21,699 --> 02:36:19,249

companies fail but the ones that make it

3405

02:36:23,559 --> 02:36:21,709

make it big and you know they don't know

3406

02:36:26,319 --> 02:36:23,569

up front which it's going to be and what

3407

02:36:28,179 --> 02:36:26,329

makes a good VC versus not Austin comes

3408

02:36:29,739 --> 02:36:28,189

down to intuition so I think there's a

3409

02:36:32,859 --> 02:36:29,749

recognition that intuition is an

3410

02:36:35,290 --> 02:36:32,869

important part of success but you know

3411

02:36:37,090 --> 02:36:35,300

whether they buy into where these clues

3412

02:36:39,040 --> 02:36:37,100

coming from are they messages from the

3413

02:36:41,349 --> 02:36:39,050

future are they messages from spirit

3414

02:36:43,269 --> 02:36:41,359

guides outside the physical world that

3415

02:36:46,029 --> 02:36:43,279

stuff is not talked about but I think

3416

02:36:49,479 --> 02:36:46,039

the knowledge that that there's a strong

3417

02:36:51,399 --> 02:36:49,489

intuitional component is is important

3418

02:36:52,750 --> 02:36:51,409

that's why you might invest in one

3419

02:36:55,150 --> 02:36:52,760

entrepreneur versus another

3420

02:36:56,769 --> 02:36:55,160

why somebody's called to do one thing

3421

02:37:00,070 --> 02:36:56,779

versus another well as a venture

3422

02:37:01,900 --> 02:37:00,080

capitalist and which you are and you're

3423

02:37:03,790 --> 02:37:01,910

an angel investor but if somebody is

3424

02:37:06,790 --> 02:37:03,800

sitting down in front of you rizz or

3425

02:37:09,130 --> 02:37:06,800

they're at some crazy Sycamore or

3426

02:37:10,540 --> 02:37:09,140

venture capital and I just made that up

3427

02:37:13,030 --> 02:37:10,550

but it sounded real

3428

02:37:14,710 --> 02:37:13,040

is there a sycamore venture capital but

3429

02:37:18,580 --> 02:37:14,720

anyways let's do is look on Sequoia

3430

02:37:20,280 --> 02:37:18,590

that's for ya okay okay and and I go in

3431

02:37:25,150 --> 02:37:20,290

and I sit down in front of this

3432

02:37:27,940 --> 02:37:25,160

billionaire and I and he goes so up do

3433

02:37:29,889 --> 02:37:27,950

you have let me see your paperwork

3434

02:37:32,530 --> 02:37:29,899

what's your business model well you know

3435

02:37:35,710 --> 02:37:32,540

when I'm going off my god I had a dream

3436

02:37:39,429 --> 02:37:35,720

and in the drink you know yeah that's

3437

02:37:41,650 --> 02:37:39,439

not gonna sell is it or is it well not

3438

02:37:42,820 --> 02:37:41,660

by itself right but this is why you need

3439

02:37:45,760 --> 02:37:42,830

to bring the left brain and the right

3440

02:37:47,469 --> 02:37:45,770

brain together right which is usually

3441

02:37:50,650 --> 02:37:47,479

the idea might come to you in a dream so

3442

02:37:53,349 --> 02:37:50,660

the the site monster.com which is really

3443

02:37:54,849 --> 02:37:53,359

well known job site it came to this guy

3444

02:37:56,590 --> 02:37:54,859

Jeff Taylor in the middle of the night

3445

02:37:58,690 --> 02:37:56,600

he woke up and had a vision of a website

3446

02:38:01,929 --> 02:37:58,700

for jobseekers and he drew it all out

3447

02:38:04,540 --> 02:38:01,939

and then he went and found it so it's

3448

02:38:06,490 --> 02:38:04,550

okay if the idea comes that way but then

3449

02:38:08,559 --> 02:38:06,500

you have to you know actually show the

3450

02:38:09,790 --> 02:38:08,569

specification for the product in the

3451
02:38:12,190 --> 02:38:09,800
business model so you have to do both

3452
02:38:14,050 --> 02:38:12,200
right you have to translate that into

3453
02:38:16,570 --> 02:38:14,060
the language of business I think to be

3454
02:38:18,070 --> 02:38:16,580
successful you can't be talking so much

3455
02:38:20,349 --> 02:38:18,080
about dreams and venture capital

3456
02:38:22,840 --> 02:38:20,359
meetings but you can say you know I had

3457
02:38:25,389 --> 02:38:22,850
this idea my gut was telling me this and

3458
02:38:27,370 --> 02:38:25,399
then I tried it and and I found in 50%

3459
02:38:29,230 --> 02:38:27,380
of the cases or 80% of the cases that

3460
02:38:31,210 --> 02:38:29,240
this was true right so this you

3461
02:38:33,240 --> 02:38:31,220
translated into something that's a

3462
02:38:37,599 --> 02:38:33,250
little more interpretable in that world

3463
02:38:40,599 --> 02:38:37,609

thank you so much and obviously we went

3464

02:38:43,480 --> 02:38:40,609

over tonight and I didn't mean for that

3465

02:38:45,910 --> 02:38:43,490

Riz it wasn't intentional we were just

3466

02:38:49,000 --> 02:38:45,920

in the middle of all of this so thank

3467

02:38:50,830 --> 02:38:49,010

you so much the new book is startup

3468

02:38:53,170 --> 02:38:50,840

myths and models and you can just go to

3469

02:38:55,389 --> 02:38:53,180

rize's websites the links are over at

3470

02:38:57,639 --> 02:38:55,399

Jimmy Church radio.com and you can

3471

02:39:00,160 --> 02:38:57,649

certainly follow r is at risk Stanford

3472

02:39:01,870 --> 02:39:00,170

right here on Twitter he's hanging out

3473

02:39:03,030 --> 02:39:01,880

in Twitter so all of those tweets you

3474

02:39:05,520 --> 02:39:03,040

guys are doing right now

3475

02:39:08,730 --> 02:39:05,530

do you think Riza's Riza's reading them

3476

02:39:11,040 --> 02:39:08,740

all rizz thank you so much my friend be

3477

02:39:13,470 --> 02:39:11,050

safe and be well and I hope the family

3478

02:39:17,310 --> 02:39:13,480

is good and and you guys are getting

3479

02:39:19,830 --> 02:39:17,320

through these challenging times of of

3480

02:39:21,600 --> 02:39:19,840

our country right now and the world but

3481

02:39:24,210 --> 02:39:21,610

we'll get through all of this together

3482

02:39:26,360 --> 02:39:24,220

thank you so much thanks Jaime for

3483

02:39:29,580 --> 02:39:26,370

having me on and happy to fill in

3484

02:39:31,950 --> 02:39:29,590

absolutely mad Greg right house just got

3485

02:39:38,270 --> 02:39:31,960

challenged thank you thank you so much

3486

02:39:41,990 --> 02:39:38,280

for is okay Riz burke and follow r is a

3487

02:39:45,570 --> 02:39:42,000

tristam fir'd right there on twitter and

3488

02:39:47,820 --> 02:39:45,580

again zen entrepreneur.com is the

3489

02:39:50,280 --> 02:39:47,830

website and all of the books treasure

3490

02:39:52,200 --> 02:39:50,290

hunt the simulation hypothesis and

3491

02:39:54,180 --> 02:39:52,210

startup myths and models are right there

3492

02:39:55,800 --> 02:39:54,190

I'm gonna take a quick break I'll be

3493

02:39:57,810 --> 02:39:55,810

right back I'll even open up the phone

3494

02:40:00,030 --> 02:39:57,820

lines and I'll take a couple of quick

3495

02:40:03,870 --> 02:40:00,040

calls I'll be right back stay with us

3496

02:40:12,510 --> 02:40:12,270

[Music]

3497

02:40:16,670 --> 02:40:12,520

[Applause]

3498

02:40:25,320 --> 02:40:19,889

and you are listening to my boy Jimmy

3499

02:40:28,530 --> 02:40:25,330

Church Oh Jimmy Church radio.com this my

3500

02:40:36,480 --> 02:40:28,540

popular opinion reading a book will not

3501
02:40:39,060 --> 02:40:36,490
make you smarter this is Jimmy Church of

3502
02:40:42,210 --> 02:40:39,070
fade to black and I take life change tea

3503
02:40:45,240 --> 02:40:42,220
supplements every single day it's what I

3504
02:40:50,820 --> 02:40:45,250
do click on their banner ad Jimmy Church

3505
02:40:53,100 --> 02:40:50,830
radio.com when you take the beams from

3506
02:40:55,650 --> 02:40:53,110
Central America with dashes of

3507
02:40:58,050 --> 02:40:55,660
indonesian and african mixed in and then

3508
02:40:58,350 --> 02:40:58,060
roasted to the dark side of fade to

3509
02:41:01,969 --> 02:40:58,360
black

3510
02:41:04,950 --> 02:41:01,979
you create the ultimate brew of fringe

3511
02:41:08,130 --> 02:41:04,960
introducing the fade to black blend from

3512
02:41:11,280 --> 02:41:08,140
river moon coffee yes river moon's

3513
02:41:13,410 --> 02:41:11,290

darkest customized roast was created for

3514

02:41:16,410 --> 02:41:13,420

the love of fade to black

3515

02:41:19,110 --> 02:41:16,420

the alchemy of masterful roasting and

3516

02:41:22,679 --> 02:41:19,120

smoking the beans is in every sip of

3517

02:41:25,679 --> 02:41:22,689

this full-bodied dark java i need my

3518

02:41:27,540 --> 02:41:25,689

coffee dog deep with distinct

3519

02:41:30,719 --> 02:41:27,550

bittersweet chocolate highlights just

3520

02:41:33,150 --> 02:41:30,729

like the bunker leaning further into the

3521

02:41:36,420 --> 02:41:33,160

darkness of the roast is fade to black

3522

02:41:38,070 --> 02:41:36,430

blend from river moon coffee just click

3523

02:41:42,120 --> 02:41:38,080

on the banner at jimmy church radio.com

3524

02:41:45,850 --> 02:41:42,130

and use the promo code f2b blend for 15%

3525

02:41:48,100 --> 02:41:45,860

off of your order today gobekli tepe

3526

02:41:49,990 --> 02:41:48,110

[Music]

3527

02:41:51,490 --> 02:41:50,000

hello my name is Billy Carson and I'm a

3528

02:41:54,011 --> 02:41:51,500

best-selling author and the founder of

3529

02:41:55,810 --> 02:41:54,021

forbidden knowledge TV together with my

3530

02:41:58,090 --> 02:41:55,820

team we have built a all new conscious

3531

02:41:59,950 --> 02:41:58,100

pre-made TV platform designed with every

3532

02:42:01,570 --> 02:41:59,960

family member in mind if you have ever

3533

02:42:02,950 --> 02:42:01,580

wanted to travel the world and attend

3534

02:42:04,810 --> 02:42:02,960

lectures and workshops from your

3535

02:42:05,590 --> 02:42:04,820

favorite speakers we were able to look

3536

02:42:08,320 --> 02:42:05,600

no further

3537

02:42:10,210 --> 02:42:08,330

forbidden knowledge dot TV but there are

3538

02:42:12,070 --> 02:42:10,220

dozens of workshops and lectures from

3539

02:42:14,140 --> 02:42:12,080

speakers we know and love we have also

3540

02:42:16,030 --> 02:42:14,150

included amazing categories to ensure

3541

02:42:18,460 --> 02:42:16,040

that your consciousness is entertained

3542

02:42:20,680 --> 02:42:18,470

and elevating on a daily basis amazing

3543

02:42:23,200 --> 02:42:20,690

interviews ancient history essential

3544

02:42:25,630 --> 02:42:23,210

knowledge wisdom teachings documentaries

3545

02:42:28,000 --> 02:42:25,640

conspiracies mysteries health and

3546

02:42:30,400 --> 02:42:28,010

fitness conscious cooking meditations

3547

02:42:32,560 --> 02:42:30,410

finance yoga and so much more to start

3548

02:42:34,840 --> 02:42:32,570

your free trial on any mobile device or

3549

02:42:37,570 --> 02:42:34,850

computer surf their forbidden knowledge

3550

02:42:39,370 --> 02:42:37,580

TV that's forbidden knowledge with the

3551
02:42:42,940 --> 02:42:39,380
number 4 forbidden knowledge

3552
02:42:46,750 --> 02:42:42,950
TV again visit forbidden knowledge TV

3553
02:42:49,390 --> 02:42:46,760
today are you intrigued by paranormal

3554
02:42:53,051 --> 02:42:49,400
talk radio you love the new paranormal

3555
02:42:54,790 --> 02:42:53,061
radio app from torque stream live you'll

3556
02:42:57,940 --> 02:42:54,800
find a great selection of talk shows

3557
02:43:00,640 --> 02:42:57,950
covering UFOs ghosts strange phenomena

3558
02:43:02,920 --> 02:43:00,650
and much more download the paranormal

3559
02:43:04,570 --> 02:43:02,930
radio app now and start listening to the

3560
02:43:06,551 --> 02:43:04,580
very best in paranormal talk

3561
02:43:08,350 --> 02:43:06,561
entertainment including the network

3562
02:43:11,261 --> 02:43:08,360
you're listening to right now the

3563
02:43:20,791 --> 02:43:11,271

paranormal radio app free in Google Play

3564

02:43:33,170 --> 02:43:24,491

it's not a lifestyle we chose we were

3565

02:43:44,540 --> 02:43:37,710

this is KJ CR Jimmy's Hertz radio jockey

3566

02:43:44,550 --> 02:43:51,819

[Music]

3567

02:43:54,879 --> 02:43:53,949

welcome back painted black I am your

3568

02:44:01,629 --> 02:43:54,889

host Jimmy Church

3569

02:44:04,719 --> 02:44:01,639

big thanks to Risberg I just just his

3570

02:44:07,300 --> 02:44:04,729

his mind and the way it works it's just

3571

02:44:09,669 --> 02:44:07,310

incredible incredible and if you ever

3572

02:44:11,069 --> 02:44:09,679

get a chance to meet rizz just go up

3573

02:44:14,079 --> 02:44:11,079

shake his hand

3574

02:44:16,119 --> 02:44:14,089

and and and start a conversation he's

3575

02:44:18,219 --> 02:44:16,129

absolutely incredible he hangs out at

3576

02:44:21,189 --> 02:44:18,229

most of the conference's I mean he's

3577

02:44:24,039 --> 02:44:21,199

come to communities like rizz you're

3578

02:44:26,289 --> 02:44:24,049

here so yeah absolutely

3579

02:44:29,169 --> 02:44:26,299

an amazing conversation thank you so

3580

02:44:32,889 --> 02:44:29,179

much for is and go and visit his website

3581

02:44:35,949 --> 02:44:32,899

and all of his books are great and now

3582

02:44:37,389 --> 02:44:35,959

my question was and I've got a couple of

3583

02:44:43,209 --> 02:44:37,399

calls on hold I'm gonna grab them right

3584

02:44:48,760 --> 02:44:43,219

now my question was would you upload

3585

02:44:52,749 --> 02:44:48,770

yourself into the world of Tron there

3586

02:44:55,689 --> 02:44:52,759

are complications with it for me but if

3587

02:44:58,389 --> 02:44:55,699

certain things could be overcome right

3588

02:45:01,419 --> 02:44:58,399

like it is actually you and you get to

3589

02:45:06,189 --> 02:45:01,429

experience that world I mean I don't

3590

02:45:08,919 --> 02:45:06,199

know if it will be done 101 brain cell

3591

02:45:11,349 --> 02:45:08,929

at a time you know Illi don't know how

3592

02:45:12,819 --> 02:45:11,359

the consciousness would transfer because

3593

02:45:16,329 --> 02:45:12,829

you would want it to be you but let's

3594

02:45:20,260 --> 02:45:16,339

say that that is successful this this

3595

02:45:24,819 --> 02:45:20,270

meatsuit goes away right your brain your

3596

02:45:28,029 --> 02:45:24,829

memories removed and then moved not and

3597

02:45:31,209 --> 02:45:28,039

it doesn't stay here right it would have

3598

02:45:34,239 --> 02:45:31,219

to go so it goes and eventually you

3599

02:45:36,519 --> 02:45:34,249

would phase out your this goes away your

3600

02:45:38,050 --> 02:45:36,529

vision every you know and that's it

3601

02:45:42,429 --> 02:45:38,060

you're you're done

3602

02:45:46,839 --> 02:45:42,439

this this goes and now you exist in a

3603

02:45:49,239 --> 02:45:46,849

virtual reality would you do it seven

3604

02:45:51,459 --> 02:45:49,249

four seven two two eight two zero five

3605

02:45:53,849 --> 02:45:51,469

one let's go to the phones hi you're

3606

02:45:58,080 --> 02:45:53,859

live on fade to black who's calling

3607

02:46:01,559 --> 02:45:58,090

Oh am I on you are live right now oh

3608

02:46:04,229 --> 02:46:01,569

okay this is Eric from extreme upstate

3609

02:46:08,399 --> 02:46:04,239

New York that was such a great thing I

3610

02:46:11,130 --> 02:46:08,409

was uh oh yeah that was great I was

3611

02:46:16,019 --> 02:46:11,140

looking for Greg but that was awesome

3612

02:46:19,260 --> 02:46:16,029

yeah Greg this is and I brought this up

3613

02:46:23,519 --> 02:46:19,270

and I want to get back to my question to

3614

02:46:26,489 --> 02:46:23,529

you but Greg coming on the show it's a

3615

02:46:32,130 --> 02:46:26,499

whole different outlook and opinion

3616

02:46:35,219 --> 02:46:32,140

about what AI is and the concerns of the

3617

02:46:37,949 --> 02:46:35,229

good and bad it doesn't matter would be

3618

02:46:40,889 --> 02:46:37,959

a totally different outlook and we will

3619

02:46:43,260 --> 02:46:40,899

have Greg on the show and we will

3620

02:46:46,199 --> 02:46:43,270

continue this ai conversation like I

3621

02:46:49,199 --> 02:46:46,209

said if I had Sam Harris on the show if

3622

02:46:51,330 --> 02:46:49,209

I had Elon Musk on the show we're gonna

3623

02:46:55,889 --> 02:46:51,340

get a totally different outlook and doom

3624

02:46:58,710 --> 02:46:55,899

and gloom Nick Bostrom right these these

3625

02:47:02,550 --> 02:46:58,720

these guys have their own take on things

3626

02:47:05,699 --> 02:47:02,560

and they're all very smart so well Eric

3627

02:47:09,359 --> 02:47:05,709

the question is if you could upload

3628

02:47:14,699 --> 02:47:09,369

yourself and and live in a virtual world

3629

02:47:17,819 --> 02:47:14,709

immortality man is is now in play do you

3630

02:47:22,069 --> 02:47:17,829

do it oh that's the question I feared

3631

02:47:25,170 --> 02:47:22,079

the most and here you're rescuing I

3632

02:47:27,809 --> 02:47:25,180

think that's gonna happen anyway because

3633

02:47:30,630 --> 02:47:27,819

our consciousness goes on forever we

3634

02:47:32,790 --> 02:47:30,640

don't have to worry about that you know

3635

02:47:38,869 --> 02:47:32,800

what I mean but you're avoiding the

3636

02:47:41,819 --> 02:47:38,879

question like it so what do you do it I

3637

02:47:43,519 --> 02:47:41,829

don't need to do it I'm not gonna do it

3638

02:47:47,309 --> 02:47:43,529

you wouldn't do it

3639

02:47:51,809 --> 02:47:47,319

no our consciousness goes on forever and

3640

02:47:54,960 --> 02:47:51,819

you know that okay but let's let's throw

3641

02:47:59,340 --> 02:47:54,970

a couple of caveats in here remember now

3642

02:48:04,260 --> 02:47:59,350

in this virtual reality this world of

3643

02:48:06,350 --> 02:48:04,270

Tron you've got no disease we may not

3644

02:48:09,591 --> 02:48:06,360

have to sleep you may

3645

02:48:12,190 --> 02:48:09,601

wanna sleep just because you need to

3646

02:48:16,450 --> 02:48:12,200

relax your brain for a minute because

3647

02:48:19,640 --> 02:48:16,460

you now have an infinite opportunity as

3648

02:48:22,211 --> 02:48:19,650

Eric not in the karmic world of

3649

02:48:26,360 --> 02:48:22,221

consciousness living forever and

3650

02:48:29,390 --> 02:48:26,370

reincarnation and starting over no here

3651
02:48:33,470 --> 02:48:29,400
you get to learn and accumulate

3652
02:48:40,041 --> 02:48:33,480
knowledge and invent and create forever

3653
02:48:43,400 --> 02:48:40,051
I say nay because we already do that

3654
02:48:47,690 --> 02:48:43,410
Jimmy and I think you know that really

3655
02:48:51,020 --> 02:48:47,700
our consciousness goes on forever and we

3656
02:48:54,200 --> 02:48:51,030
are reincarnated forever and we learn

3657
02:48:57,320 --> 02:48:54,210
from all our past lives and I think you

3658
02:49:01,041 --> 02:48:57,330
know that so you wouldn't do it all

3659
02:49:02,930 --> 02:49:01,051
right okay all right now scenario number

3660
02:49:09,470 --> 02:49:02,940
two I'm gonna give you one more

3661
02:49:12,501 --> 02:49:09,480
opportunity to say yes no a whole lot I

3662
02:49:14,541 --> 02:49:12,511
said no the challenges can I get you to

3663
02:49:17,720 --> 02:49:14,551

say yes that's the you know that's the

3664

02:49:24,881 --> 02:49:17,730

challenge why do you want me to say is

3665

02:49:30,400 --> 02:49:24,891

this the opportunity is there for you to

3666

02:49:34,430 --> 02:49:30,410

upload yourself and command a starship

3667

02:49:38,081 --> 02:49:34,440

for ten thousand years to go to a planet

3668

02:49:41,301 --> 02:49:38,091

that we know has another intelligent

3669

02:49:45,680 --> 02:49:41,311

civilization on it and you are going to

3670

02:49:50,001 --> 02:49:45,690

pilot this starship now do you upload

3671

02:49:50,841 --> 02:49:50,011

yourself no you don't want to go to

3672

02:49:55,160 --> 02:49:50,851

another world

3673

02:49:58,461 --> 02:49:55,170

no we already do this we already do it

3674

02:50:00,410 --> 02:49:58,471

we already have this so you've been to

3675

02:50:05,150 --> 02:50:00,420

another you've been to another planet

3676

02:50:09,470 --> 02:50:05,160

have you Eric oh I can't tell you that

3677

02:50:12,171 --> 02:50:09,480

as I said as Jon Leuer said if you've

3678

02:50:16,520 --> 02:50:12,181

seen it you've been on it okay yeah yeah

3679

02:50:19,300 --> 02:50:16,530

no you know what I totally respect your

3680

02:50:23,020 --> 02:50:19,310

tenacity you know and in the

3681

02:50:26,680 --> 02:50:23,030

these kinds of deep these are deep moral

3682

02:50:31,960 --> 02:50:26,690

and philosophical issues deep there they

3683

02:50:34,900 --> 02:50:31,970

are deep and to stay to stay on course

3684

02:50:37,140 --> 02:50:34,910

I think is totally commendable I'm

3685

02:50:41,230 --> 02:50:37,150

impressed

3686

02:50:44,200 --> 02:50:41,240

well I appreciate your opinion yeah but

3687

02:50:47,470 --> 02:50:44,210

I wanted to edify you on one topic to

3688

02:50:52,120 --> 02:50:47,480

head of my I'm saying that that the

3689

02:50:55,180 --> 02:50:52,130

internet came alive in 1995 that's not

3690

02:50:56,560 --> 02:50:55,190

true it came up in 1969 I've been using

3691

02:50:59,560 --> 02:50:56,570

it since the 70s

3692

02:51:02,140 --> 02:50:59,570

oh sure in the world wide web in 1992

3693

02:51:04,680 --> 02:51:02,150

using mosaic and then Netscape

3694

02:51:09,880 --> 02:51:04,690

so of course I wish you'd stop saying

3695

02:51:13,270 --> 02:51:09,890

1985 no the reason why I say 1995 look I

3696

02:51:16,420 --> 02:51:13,280

I searched the world for my mosaic

3697

02:51:19,600 --> 02:51:16,430

floppy disk you know I did everything I

3698

02:51:22,330 --> 02:51:19,610

could to to get into browsers and and

3699

02:51:24,430 --> 02:51:22,340

and go out there no I totally get that

3700

02:51:29,520 --> 02:51:24,440

part of it and no I understand

3701

02:51:36,910 --> 02:51:29,530

what I am saying is when when AOL

3702

02:51:45,760 --> 02:51:36,920

started it was the truly odd no no no

3703

02:51:49,330 --> 02:51:45,770

okay no no 1995 so anyway we could say

3704

02:51:53,860 --> 02:51:49,340

December of 1994 somebody posts up in

3705

02:51:58,420 --> 02:51:53,870

Twitter when AOL 1.2 right I don't think

3706

02:52:01,540 --> 02:51:58,430

AOL 1.0 was ever an actual option but

3707

02:52:04,390 --> 02:52:01,550

when that came online that was the

3708

02:52:09,610 --> 02:52:04,400

beginning of the interconnectivity of

3709

02:52:14,050 --> 02:52:09,620

people not only conversing but it was a

3710

02:52:16,060 --> 02:52:14,060

true true connectivity it wasn't even

3711

02:52:18,640 --> 02:52:16,070

the true Internet al well didn't even

3712

02:52:21,760 --> 02:52:18,650

have a browser tied to it and and

3713

02:52:24,040 --> 02:52:21,770

getting off of AOL to a website that was

3714

02:52:27,340 --> 02:52:24,050

difficult you know you had to go back

3715

02:52:31,060 --> 02:52:27,350

into the Mozilla world off of AOL and

3716

02:52:34,630 --> 02:52:31,070

and get that first

3717

02:52:39,011 --> 02:52:34,640

there was a Mozilla and what was the

3718

02:52:41,410 --> 02:52:39,021

other Netscape right yeah Netscape came

3719

02:52:44,261 --> 02:52:41,420

right after mosaic yeah

3720

02:52:47,400 --> 02:52:44,271

and so yeah I had that to escape and

3721

02:52:53,230 --> 02:52:47,410

then the Netscape turned into Mozilla uh

3722

02:52:56,020 --> 02:52:53,240

yeah okay I'm getting posed here 1995 is

3723

02:52:59,140 --> 02:52:56,030

what is coming up here in Twitter so

3724

02:53:03,340 --> 02:52:59,150

yeah I'm always I just know that

3725

02:53:06,630 --> 02:53:03,350

timeline really well I but there's no

3726

02:53:09,340 --> 02:53:06,640

question you know wait a minute here

3727

02:53:13,200 --> 02:53:09,350

Mozilla hold on a minute

3728

02:53:16,000 --> 02:53:13,210

there was no way Mozilla was out 1992

3729

02:53:19,180 --> 02:53:16,010

impossible there well that's not that's

3730

02:53:23,350 --> 02:53:19,190

not true no you just I thought you just

3731

02:53:28,480 --> 02:53:23,360

said you you had Mozilla in 1992 no I

3732

02:53:33,040 --> 02:53:28,490

had a Netscape was 1995 for sure okay

3733

02:53:36,270 --> 02:53:33,050

mozo I had Lycos I had the mosaic mosaic

3734

02:53:41,580 --> 02:53:36,280

turned into Netscape they're all from

3735

02:53:45,220 --> 02:53:41,590

University of Illinois champaign-urbana

3736

02:53:48,910 --> 02:53:45,230

and the same one came out with Mozilla

3737

02:53:54,850 --> 02:53:48,920

the same company was Netscape first okay

3738

02:53:57,761 --> 02:53:54,860

I had them all in 92 and I I guarantee

3739

02:54:01,810 --> 02:53:57,771

you I was using the web in 1992 I had a

3740

02:54:03,900 --> 02:54:01,820

web page in 1995 as I was working for an

3741

02:54:07,870 --> 02:54:03,910

University of wisconsin-milwaukee and

3742

02:54:09,700 --> 02:54:07,880

and I had my hands of the internet cable

3743

02:54:17,380 --> 02:54:09,710

it took two hands to go around a cable

3744

02:54:20,980 --> 02:54:17,390

we fed 26 thousand sites okay just just

3745

02:54:22,630 --> 02:54:20,990

just for let's go to some facts here

3746

02:54:24,660 --> 02:54:22,640

because I want I want to make sure my

3747

02:54:27,880 --> 02:54:24,670

brain hasn't been damaged

3748

02:54:33,700 --> 02:54:27,890

Netscape in that scale the Netscape

3749

02:54:39,430 --> 02:54:33,710

itself was founded in 1994 its first

3750

02:54:41,320 --> 02:54:39,440

browser was launched in 1995 okay I'm

3751
02:54:43,450 --> 02:54:41,330
looking at it right here right yeah I

3752
02:54:44,051 --> 02:54:43,460
had mosaic first then I what what -

3753
02:54:48,270 --> 02:54:44,061
Netscape

3754
02:54:53,020 --> 02:54:48,280
well that's true okay let's see here

3755
02:54:55,240 --> 02:54:53,030
mosaic browser okay

3756
02:54:58,120 --> 02:54:55,250
all right and there was lake house and

3757
02:55:04,180 --> 02:54:58,130
there was a Lynx I believe at the time

3758
02:55:07,390 --> 02:55:04,190
these all came out in 1991-92 and I was

3759
02:55:09,761 --> 02:55:07,400
on I was on the web back in nineteen

3760
02:55:12,011 --> 02:55:09,771
that May of 1992 was the first time I

3761
02:55:18,060 --> 02:55:12,021
was on the world wide web which was

3762
02:55:22,961 --> 02:55:18,070
invented in the late 80s okay well it's

3763
02:55:26,950 --> 02:55:22,971

worked out with web site in 1991

3764

02:55:31,600 --> 02:55:26,960

okay well mosaic version 1.0 for

3765

02:55:37,900 --> 02:55:31,610

Microsoft Windows was released in 1994

3766

02:55:41,290 --> 02:55:37,910

from 1994 to 1997 it was it lost ground

3767

02:55:43,091 --> 02:55:41,300

chair to Netscape Navigator but I'm just

3768

02:55:46,841 --> 02:55:43,101

looking at the dates here these are I

3769

02:55:49,480 --> 02:55:46,851

mean I totally I totally remember my

3770

02:55:54,730 --> 02:55:49,490

first laptop when and where I got it and

3771

02:55:56,530 --> 02:55:54,740

and how I was now let's go to I just

3772

02:55:57,881 --> 02:55:56,540

want to do one more look here I said I

3773

02:56:01,440 --> 02:55:57,891

just want to make sure that my brain

3774

02:56:04,570 --> 02:56:01,450

isn't wrong because you're changing my

3775

02:56:06,790 --> 02:56:04,580

Mandela F well I still have the records

3776

02:56:10,740 --> 02:56:06,800

I've got pictures of being in the lab

3777

02:56:17,761 --> 02:56:10,750

I'm in University of wisconsin-milwaukee

3778

02:56:21,610 --> 02:56:17,771

they put my picture on their brochure in

3779

02:56:25,390 --> 02:56:21,620

1992 and we were using Apple computers

3780

02:56:32,620 --> 02:56:25,400

accessing the World Wide Web

3781

02:56:34,091 --> 02:56:32,630

in May of 1992 using mosaic well that's

3782

02:56:35,680 --> 02:56:34,101

what I was using it to have you at his

3783

02:56:37,990 --> 02:56:35,690

choice and then he had the song of the

3784

02:56:40,810 --> 02:56:38,000

day on there and said well how long is

3785

02:56:44,051 --> 02:56:40,820

this gonna how can I keep doing this and

3786

02:56:46,330 --> 02:56:44,061

every week we go back and we get slower

3787

02:56:48,730 --> 02:56:46,340

and slower and so how are they gonna

3788

02:56:50,381 --> 02:56:48,740

keep up with this that's what that was

3789

02:56:52,841 --> 02:56:50,391

my opinion vector and how they gonna

3790

02:56:55,660 --> 02:56:52,851

keep this up yeah ninety nine it was

3791

02:56:57,449 --> 02:56:55,670

loaded onto the web you know yes so 1994

3792

02:57:03,519 --> 02:56:57,459

AOL started mail

3793

02:57:06,429 --> 02:57:03,529

compact disc two homes 1995 yeah 1995 is

3794

02:57:09,909 --> 02:57:06,439

when they reached 1 million members and

3795

02:57:12,279 --> 02:57:09,919

like I said it was 1995 to me is when

3796

02:57:15,789 --> 02:57:12,289

everybody started to get connected but

3797

02:57:19,029 --> 02:57:15,799

there was only 1 million a year later it

3798

02:57:21,989 --> 02:57:19,039

was 5 million you know what's really

3799

02:57:28,769 --> 02:57:21,999

crazy when they bought Time Warner and

3800

02:57:33,539 --> 02:57:28,779

and how large they got and then it was

3801
02:57:37,809 --> 02:57:33,549
I'm gonna say five years later probably

3802
02:57:41,229 --> 02:57:37,819
no 2001 they they did the merger but

3803
02:57:44,459 --> 02:57:41,239
then it's like non-existent today I mean

3804
02:57:46,959 --> 02:57:44,469
it's there people still use AOL but yeah

3805
02:57:49,229 --> 02:57:46,969
still is there yeah I heard that there's

3806
02:57:52,359 --> 02:57:49,239
like nine million people still using AOL

3807
02:57:54,429 --> 02:57:52,369
Ill you know those just people used to

3808
02:57:57,789 --> 02:57:54,439
collect those discs that's all the time

3809
02:58:01,179 --> 02:57:57,799
was holy crap I had a stack of I had a

3810
02:58:03,550 --> 02:58:01,189
stack of them I I must have had 50 I I

3811
02:58:05,499 --> 02:58:03,560
must have had 50 and I still don't know

3812
02:58:07,479 --> 02:58:05,509
why Eric I've got to get out of here in

3813
02:58:09,880 --> 02:58:07,489

roll credits thank you for the phone

3814

02:58:13,869 --> 02:58:09,890

call my man and we know that you're not

3815

02:58:17,559 --> 02:58:13,879

going to go to another planet on an

3816

02:58:22,809 --> 02:58:17,569

upload good for you I'll talk to you

3817

02:58:24,789 --> 02:58:22,819

thank you Gobekli Tepe and with that

3818

02:58:27,489 --> 02:58:24,799

I've got to get out of here I want to

3819

02:58:31,449 --> 02:58:27,499

thank rizz Burke just an amazing show

3820

02:58:33,519 --> 02:58:31,459

and for him to come in last minute and

3821

02:58:36,340 --> 02:58:33,529

have that kind of show tonight is one of

3822

02:58:39,279 --> 02:58:36,350

the best that we've ever done Thank You

3823

02:58:40,899 --> 02:58:39,289

rizz betablox executive producers ritika

3824

02:58:42,820 --> 02:58:40,909

Murray on shows produced by Hill J

3825

02:58:44,410 --> 02:58:42,830

Palmer Nate Dennison Kevin

3826

02:58:48,100 --> 02:58:44,420

announces our Steve harder Jean Patou

3827

02:58:51,040 --> 02:58:48,110

'mark de Cobo webmaster is Drew the geek

3828

02:58:54,370 --> 02:58:51,050

music doug aldrich intro space boys

3829

02:58:56,770 --> 02:58:54,380

space boy music calm fade to black is

3830

02:58:59,950 --> 02:58:56,780

produced by kjsurya at work and

3831

02:59:02,980 --> 02:58:59,960

syndication is katie are a the planet

3832

02:59:04,420 --> 02:59:02,990

this broadcast own a copyright a 2020 by

3833

02:59:06,580 --> 02:59:04,430

paid to black in the game changer

3834

02:59:08,801 --> 02:59:06,590

network inc they cannot be rebroadcast

3835

02:59:10,390 --> 02:59:08,811

download a copy to use anywhere in the

3836

02:59:12,070 --> 02:59:10,400

known universe without written

3837

02:59:15,100 --> 02:59:12,080

permission from fade to black of the

3838

02:59:17,200 --> 02:59:15,110

game-changer network amir Jimmy church

3839

02:59:20,710 --> 02:59:17,210

tomorrow night right here Fator night

3840

02:59:24,090 --> 02:59:20,720

open lines all my long until tomorrow