

FADE TO BLACK

with JIMMY CHURCH
PRESENTS

JIMMY CHURCH

REPORT: ARTIFICIAL INTELLIGENCE

TUE MAR 21 LIVE

7:00 PM PT/10:00PM ET



1
00:00:31,870 --> 00:00:22,750

[Music]

2
00:00:35,209 --> 00:00:31,880

the smoke radio for the masses of July 8

3
00:00:37,549 --> 00:00:35,219

1947 the Army Air Forces has announced

4
00:00:39,650 --> 00:00:37,559

that a flying disc has been found and is

5
00:00:42,709 --> 00:00:39,660

now in the possession of the army

6
00:00:44,030 --> 00:00:42,719

game is rigged change the game game

7
00:00:47,389 --> 00:00:44,040

changer

8
00:00:51,229 --> 00:00:47,399

I occasionally think how quickly our

9
00:00:53,869 --> 00:00:51,239

differences worldwide would vanish if we

10
00:00:56,660 --> 00:00:53,879

were facing an alien threat from outside

11
00:00:59,389 --> 00:00:56,670

this work

12
00:01:02,090 --> 00:00:59,399

[Applause]

13
00:01:04,910 --> 00:01:02,100

this is Fade to Black with your host

14
00:01:05,610 --> 00:01:04,920
Jimmy Church on the game changer Radio

15
00:01:09,050 --> 00:01:05,620
Network

16
00:01:20,090 --> 00:01:12,649
all right good evening Fade to Black

17
00:01:22,670 --> 00:01:20,100
today is March 21st 2023 and tonight is

18
00:01:25,690 --> 00:01:22,680
a special report on artificial

19
00:01:30,530 --> 00:01:28,390
what is it the who what when where why

20
00:01:32,210 --> 00:01:30,540
all of that stuff we're going to get

21
00:01:35,510 --> 00:01:32,220
into this tonight

22
00:01:38,450 --> 00:01:35,520
and uh now also

23
00:01:41,749 --> 00:01:38,460
um I'm gonna be keeping my eye on the

24
00:01:43,130 --> 00:01:41,759
chat if you do have any specific

25
00:01:45,230 --> 00:01:43,140
questions or points that you want to

26
00:01:47,810 --> 00:01:45,240
make uh pop it up there in all caps and

27
00:01:51,410 --> 00:01:47,820
and I'll try to get to it and

28
00:01:54,429 --> 00:01:51,420
incorporate that into this conversation

29
00:01:58,330 --> 00:01:54,439
tonight but uh with with all of that

30
00:02:00,490 --> 00:01:58,340
let's uh let's get straight to it

31
00:02:04,209 --> 00:02:00,500
because today

32
00:02:07,010 --> 00:02:04,219
artificial intelligence is here

33
00:02:10,070 --> 00:02:07,020
and it is

34
00:02:13,670 --> 00:02:10,080
in nearly every aspect of Our Lives

35
00:02:16,309 --> 00:02:13,680
and whether you know it or not or wanted

36
00:02:19,910 --> 00:02:16,319
there or not there's not much you can do

37
00:02:24,830 --> 00:02:19,920
about it it is here it has arrived and

38
00:02:27,110 --> 00:02:24,840

today another uh software engine uh of

39

00:02:29,690 --> 00:02:27,120

the artificial intelligence intelligence

40

00:02:34,449 --> 00:02:29,700

kind was was just announced it's called

41

00:02:37,130 --> 00:02:34,459

Bard and it's much like a chat uh GPT

42

00:02:39,470 --> 00:02:37,140

and others that are out there right now

43

00:02:44,270 --> 00:02:39,480

and and those versions of AI we're going

44

00:02:46,970 --> 00:02:44,280

to be uh getting very deep into tonight

45

00:02:49,970 --> 00:02:46,980

um now the deal is this

46

00:02:52,550 --> 00:02:49,980

uh let's just start out here what is

47

00:02:55,130 --> 00:02:52,560

artificial intelligence

48

00:02:58,910 --> 00:02:55,140

um it is in the headlines uh every

49

00:03:01,190 --> 00:02:58,920

single day now uh we know that uh again

50

00:03:03,949 --> 00:03:01,200

we'll be discussing more about this it

51
00:03:06,830 --> 00:03:03,959
is a part of the Google search engine it

52
00:03:09,530 --> 00:03:06,840
is part of the Bing search engine and

53
00:03:12,070 --> 00:03:09,540
many other things so

54
00:03:16,809 --> 00:03:12,080
um artificial intelligence

55
00:03:19,550 --> 00:03:16,819
is uh intelligence perceiving

56
00:03:23,509 --> 00:03:19,560
synthesizing and and inferring

57
00:03:24,729 --> 00:03:23,519
information demonstrated by machines and

58
00:03:27,050 --> 00:03:24,739
in this case

59
00:03:29,890 --> 00:03:27,060
specifically computers

60
00:03:34,990 --> 00:03:29,900
as opposed to

61
00:03:37,970 --> 00:03:35,000
intelligence displayed uh by non-human

62
00:03:40,130 --> 00:03:37,980
animals and humans it's two different

63
00:03:42,710 --> 00:03:40,140

kinds of intelligences and again we're

64

00:03:45,890 --> 00:03:42,720

going to get very deep in into this

65

00:03:50,690 --> 00:03:45,900

tonight and what the differences are

66

00:03:54,649 --> 00:03:50,700

um but yes artificial intelligence is an

67

00:03:58,670 --> 00:03:54,659

intelligence that comes from something

68

00:04:01,309 --> 00:03:58,680

that's non-human computers

69

00:04:03,110 --> 00:04:01,319

um the ideas behind artificial

70

00:04:05,649 --> 00:04:03,120

intelligence

71

00:04:10,369 --> 00:04:05,659

um found itself

72

00:04:13,910 --> 00:04:10,379

uh arriving here in around 1956

73

00:04:15,470 --> 00:04:13,920

and it became an academic discipline

74

00:04:17,569 --> 00:04:15,480

um it was something that started to

75

00:04:21,289 --> 00:04:17,579

become researched talked about and of

76
00:04:23,450 --> 00:04:21,299
course was given a name and in the years

77
00:04:27,189 --> 00:04:23,460
since then

78
00:04:30,730 --> 00:04:27,199
um we have had many many different

79
00:04:35,390 --> 00:04:30,740
huge fronts of optimism

80
00:04:40,370 --> 00:04:35,400
and and what it could do for us as as a

81
00:04:41,330 --> 00:04:40,380
as a race and of course we also had the

82
00:04:43,310 --> 00:04:41,340
fear

83
00:04:46,850 --> 00:04:43,320
that comes along with that too as well

84
00:04:48,370 --> 00:04:46,860
and the fear comes from a couple of

85
00:04:51,409 --> 00:04:48,380
different aspects

86
00:04:54,050 --> 00:04:51,419
one being the technical side in the

87
00:04:57,230 --> 00:04:54,060
engineering side and the other one is a

88
00:04:58,730 --> 00:04:57,240

deep philosophical fear too as well

89

00:05:01,850 --> 00:04:58,740

um you know the end of the human race

90

00:05:06,650 --> 00:05:01,860

and and so forth but

91

00:05:08,810 --> 00:05:06,660

um expanding on that and why the fear

92

00:05:12,950 --> 00:05:08,820

part of it is because there's not much

93

00:05:16,030 --> 00:05:12,960

that we as a society know

94

00:05:19,129 --> 00:05:16,040

okay we know that there are corporations

95

00:05:20,110 --> 00:05:19,139

Engineers militaries governments Around

96

00:05:24,770 --> 00:05:20,120

the World

97

00:05:28,189 --> 00:05:24,780

Racing to get to True artificial

98

00:05:30,110 --> 00:05:28,199

intelligence and and versions of

99

00:05:33,469 --> 00:05:30,120

artificial intelligence

100

00:05:37,749 --> 00:05:33,479

and who gets there first

101
00:05:44,210 --> 00:05:41,870
once artificial general intelligence

102
00:05:46,969 --> 00:05:44,220
otherwise known as AGI again we'll

103
00:05:50,330 --> 00:05:46,979
expand on that in in a few minutes

104
00:05:52,490 --> 00:05:50,340
um once that is achieved it's over

105
00:05:56,930 --> 00:05:52,500
there is no second place

106
00:05:58,909 --> 00:05:56,940
everybody else has lost and the reason

107
00:06:02,990 --> 00:05:58,919
for that is simple

108
00:06:05,210 --> 00:06:03,000
if you have the best explain the best

109
00:06:08,090 --> 00:06:05,220
explanation on this

110
00:06:10,370 --> 00:06:08,100
is is this let's get Comfort comfortable

111
00:06:16,610 --> 00:06:10,380
here and uh

112
00:06:23,870 --> 00:06:19,129
the if you have a goal

113
00:06:25,010 --> 00:06:23,880

and let's say the goal is to cure a

114

00:06:26,770 --> 00:06:25,020

disease

115

00:06:29,749 --> 00:06:26,780

okay

116

00:06:33,290 --> 00:06:29,759

and the the goal could be anything but

117

00:06:34,969 --> 00:06:33,300

let's say it's to cure a disease so how

118

00:06:39,950 --> 00:06:34,979

would you do that

119

00:06:45,469 --> 00:06:39,960

well the way we do it now

120

00:06:46,790 --> 00:06:45,479

is We Gather up a bunch of very smart

121

00:06:49,430 --> 00:06:46,800

people

122

00:06:53,210 --> 00:06:49,440

give them a task

123

00:06:55,129 --> 00:06:53,220

and in this case to cure disease and you

124

00:06:59,210 --> 00:06:55,139

let them go

125

00:07:03,790 --> 00:06:59,220

now what you have now are individual

126
00:07:08,809 --> 00:07:03,800
human brains humans working

127
00:07:14,629 --> 00:07:10,909
takes a while

128
00:07:15,969 --> 00:07:14,639
so you would have to go and and start

129
00:07:18,610 --> 00:07:15,979
your research

130
00:07:20,210 --> 00:07:18,620
compile information

131
00:07:23,150 --> 00:07:20,220
and

132
00:07:29,809 --> 00:07:26,510
turn that into reports

133
00:07:32,450 --> 00:07:29,819
all right per individual how much can

134
00:07:35,930 --> 00:07:32,460
you get done in 24 hours you know how

135
00:07:39,770 --> 00:07:35,940
long it takes to read how long you know

136
00:07:42,670 --> 00:07:39,780
we're talking weeks months even years

137
00:07:48,529 --> 00:07:45,490
so if you have

138
00:07:49,309 --> 00:07:48,539

20 doctors and scientists applied to

139

00:07:52,610 --> 00:07:49,319

this

140

00:07:56,390 --> 00:07:52,620

now you're looking at you know 20

141

00:07:59,629 --> 00:07:56,400

individual years or two or three and

142

00:08:02,510 --> 00:07:59,639

then they have to agree they have to go

143

00:08:04,990 --> 00:08:02,520

and manually search or they're going to

144

00:08:09,529 --> 00:08:05,000

do this with computers of course

145

00:08:12,950 --> 00:08:09,539

and books but they are going to do this

146

00:08:15,529 --> 00:08:12,960

manually they're going to type in

147

00:08:17,150 --> 00:08:15,539

they're gonna type out

148

00:08:18,710 --> 00:08:17,160

they're going to compile this

149

00:08:20,809 --> 00:08:18,720

information then they have to turn

150

00:08:22,490 --> 00:08:20,819

around and compare notes compare data

151
00:08:25,129 --> 00:08:22,500
work together

152
00:08:27,610 --> 00:08:25,139
on on this goal and in this case it

153
00:08:32,329 --> 00:08:27,620
would be to cure a disease

154
00:08:34,130 --> 00:08:32,339
and this is why even with all of the

155
00:08:39,110 --> 00:08:34,140
information that we have at our Disposal

156
00:08:43,070 --> 00:08:39,120
today this is a classic example of why

157
00:08:44,449 --> 00:08:43,080
it takes so long to work in medicine and

158
00:08:47,630 --> 00:08:44,459
in health care

159
00:08:49,910 --> 00:08:47,640
there's a lot of brain power that has to

160
00:08:52,269 --> 00:08:49,920
be applied now

161
00:08:55,610 --> 00:08:52,279
if you had

162
00:08:57,470 --> 00:08:55,620
an AGI computer

163
00:09:00,230 --> 00:08:57,480

and AGI is artificial general

164

00:09:04,550 --> 00:09:00,240

intelligence which is

165

00:09:06,250 --> 00:09:04,560

a software program that is able to

166

00:09:08,990 --> 00:09:06,260

think like

167

00:09:12,350 --> 00:09:09,000

an average human

168

00:09:14,150 --> 00:09:12,360

so you get to that level

169

00:09:18,590 --> 00:09:14,160

of AGI

170

00:09:22,850 --> 00:09:18,600

and then you tell this

171

00:09:31,130 --> 00:09:26,930

this would be able to the AGI

172

00:09:34,850 --> 00:09:31,140

would be able to do the work of the 20

173

00:09:37,690 --> 00:09:34,860

or 100 doctors and scientists that

174

00:09:41,630 --> 00:09:37,700

you've got uh working on this

175

00:09:49,030 --> 00:09:46,670

okay as opposed to years

176

00:09:52,070 --> 00:09:49,040

now if you back this up and understand

177

00:09:57,410 --> 00:09:52,080

what I am suggesting here and that this

178

00:10:00,230 --> 00:09:57,420

is this is why AGI is such a goal

179

00:10:01,790 --> 00:10:00,240

for all corporations and governments on

180

00:10:05,930 --> 00:10:01,800

this planet

181

00:10:09,829 --> 00:10:05,940

you would be able to do the task of a

182

00:10:13,910 --> 00:10:09,839

hundred brains that would take a hundred

183

00:10:16,009 --> 00:10:13,920

years of combined effort into this and

184

00:10:18,889 --> 00:10:16,019

do it in a matter of minutes

185

00:10:20,930 --> 00:10:18,899

because an AGI computer

186

00:10:23,210 --> 00:10:20,940

isn't typing

187

00:10:27,350 --> 00:10:23,220

an AGI computer

188

00:10:30,710 --> 00:10:27,360

is not an AGI system is not reading

189

00:10:34,570 --> 00:10:30,720

it's compiling data and it's logically

190

00:10:38,449 --> 00:10:34,580

looking through things and that system

191

00:10:40,430 --> 00:10:38,459

has at its disposal all of the

192

00:10:44,210 --> 00:10:40,440

information on the planet

193

00:10:45,949 --> 00:10:44,220

and it's able to scan go through and get

194

00:10:48,230 --> 00:10:45,959

a job done

195

00:10:52,610 --> 00:10:48,240

in seconds

196

00:10:54,949 --> 00:10:52,620

so the the this idea

197

00:10:56,170 --> 00:10:54,959

that I've just presented that that is

198

00:11:00,050 --> 00:10:56,180

what

199

00:11:03,850 --> 00:11:00,060

AGI promises it's one of the optimistic

200

00:11:08,569 --> 00:11:03,860

views that uh and just imagine

201
00:11:10,970 --> 00:11:08,579
if a corporation had that where they

202
00:11:14,389 --> 00:11:10,980
could not only you know the medical

203
00:11:17,530 --> 00:11:14,399
industry is a great example but so was

204
00:11:20,210 --> 00:11:17,540
Aerospace and so is

205
00:11:24,230 --> 00:11:20,220
uh you know the design of airplanes or

206
00:11:27,050 --> 00:11:24,240
cars or building a factory

207
00:11:30,290 --> 00:11:27,060
designing products

208
00:11:33,290 --> 00:11:30,300
um and and all of the Labor uh that

209
00:11:35,269 --> 00:11:33,300
would go into that that AGI could take

210
00:11:37,190 --> 00:11:35,279
over and do

211
00:11:38,090 --> 00:11:37,200
um obviously without sleeping or being

212
00:11:42,590 --> 00:11:38,100
fed

213
00:11:44,810 --> 00:11:42,600

right or being paid or insured

214

00:11:47,210 --> 00:11:44,820

takes vacation

215

00:11:50,530 --> 00:11:47,220

smoke breaks none of that stuff comes

216

00:11:55,310 --> 00:11:50,540

into play and it could be

217

00:11:59,350 --> 00:11:55,320

applied to every aspect of Industry now

218

00:12:02,269 --> 00:11:59,360

if a country got to that level

219

00:12:03,350 --> 00:12:02,279

just think of the advantage that they

220

00:12:08,269 --> 00:12:03,360

would have

221

00:12:12,190 --> 00:12:10,310

that we really need to think about that

222

00:12:15,769 --> 00:12:12,200

that's one of the advantages

223

00:12:18,350 --> 00:12:15,779

and then there's the other part to this

224

00:12:22,069 --> 00:12:18,360

where of course there's going to be a

225

00:12:24,710 --> 00:12:22,079

military aspect to this where

226

00:12:27,769 --> 00:12:24,720

um you could take over

227

00:12:29,449 --> 00:12:27,779

the electrical Grid in the world or you

228

00:12:30,769 --> 00:12:29,459

could take over the logistics in the

229

00:12:33,710 --> 00:12:30,779

world or you could do you could do

230

00:12:35,750 --> 00:12:33,720

whatever you and literally think through

231

00:12:38,150 --> 00:12:35,760

it in a matter of seconds and get

232

00:12:42,949 --> 00:12:38,160

something applied and done

233

00:12:45,230 --> 00:12:42,959

and so yes the design of a skyscraper

234

00:12:47,150 --> 00:12:45,240

the design of a new airplane the design

235

00:12:49,030 --> 00:12:47,160

of a new car the design of a new

236

00:12:52,490 --> 00:12:49,040

computer system the design of Anything

237

00:12:55,190 --> 00:12:52,500

Could Happen immediately

238

00:12:56,269 --> 00:12:55,200

and go into production get tested be

239

00:13:01,430 --> 00:12:56,279

done

240

00:13:06,250 --> 00:13:01,440

right here's another aspect of this

241

00:13:10,970 --> 00:13:06,260

where you have creative people and

242

00:13:13,790 --> 00:13:10,980

chat and Bard and other systems uh today

243

00:13:18,350 --> 00:13:13,800

uh we talk about this

244

00:13:23,870 --> 00:13:18,360

and for instance you could what if

245

00:13:28,370 --> 00:13:23,880

you got the best screenwriters together

246

00:13:30,829 --> 00:13:28,380

and you asked them to write the perfect

247

00:13:32,509 --> 00:13:30,839

gangster movie

248

00:13:35,569 --> 00:13:32,519

whatever whatever the perfect science

249

00:13:38,870 --> 00:13:35,579

fiction movie just just give me a script

250

00:13:44,150 --> 00:13:38,880

give me a screenplay give me a TV series

251
00:13:47,150 --> 00:13:44,160
well an AGI system at that level just

252
00:13:51,310 --> 00:13:47,160
average human not not super AI we'll get

253
00:13:53,569 --> 00:13:51,320
to that the average human so

254
00:13:55,990 --> 00:13:53,579
that system

255
00:14:00,889 --> 00:13:56,000
could read

256
00:14:04,069 --> 00:14:00,899
every screenplay not only gangsters

257
00:14:05,329 --> 00:14:04,079
but every screenplay every script ever

258
00:14:08,690 --> 00:14:05,339
written

259
00:14:10,009 --> 00:14:08,700
in seconds now how long would it take

260
00:14:11,990 --> 00:14:10,019
how long does it take to go to film

261
00:14:14,930 --> 00:14:12,000
School how long does it take to read a

262
00:14:18,050 --> 00:14:14,940
script 120 pages right

263
00:14:20,389 --> 00:14:18,060

okay well I could do it in a day you

264

00:14:24,350 --> 00:14:20,399

probably could a computer

265

00:14:25,750 --> 00:14:24,360

an AGI system can do it in fractions of

266

00:14:30,350 --> 00:14:25,760

a second

267

00:14:32,030 --> 00:14:30,360

so could read every script and then

268

00:14:37,009 --> 00:14:32,040

figure out

269

00:14:40,850 --> 00:14:37,019

the best way to write a perfect movie

270

00:14:43,910 --> 00:14:40,860

a per just Divine perfect and it could

271

00:14:46,009 --> 00:14:43,920

do this in in seconds but you would have

272

00:14:48,889 --> 00:14:46,019

to compile a whole team that would have

273

00:14:52,610 --> 00:14:48,899

to sit in a room argue drink coffee Food

274

00:14:54,470 --> 00:14:52,620

Eat rewrite this all of that would

275

00:14:57,170 --> 00:14:54,480

happen in seconds

276

00:14:58,670 --> 00:14:57,180

so think of the movie industry now is it

277

00:15:02,870 --> 00:14:58,680

putting people out of work of course

278

00:15:06,590 --> 00:15:02,880

right but it's that's the idea and that

279

00:15:09,710 --> 00:15:06,600

is the power behind AGI

280

00:15:11,389 --> 00:15:09,720

which is just average the average human

281

00:15:14,750 --> 00:15:11,399

being

282

00:15:17,449 --> 00:15:14,760

just the average not a superhuman not a

283

00:15:21,530 --> 00:15:17,459

super bright not no just the average

284

00:15:23,990 --> 00:15:21,540

brain's ability to to think

285

00:15:27,590 --> 00:15:24,000

and to get stuff done

286

00:15:30,290 --> 00:15:27,600

that's why the race is on

287

00:15:33,290 --> 00:15:30,300

to get there now are we there yet we are

288

00:15:34,910 --> 00:15:33,300

getting closer and closer every single

289

00:15:37,670 --> 00:15:34,920

day

290

00:15:39,550 --> 00:15:37,680

um now when we look at our lives

291

00:15:43,490 --> 00:15:39,560

right now

292

00:15:47,810 --> 00:15:43,500

uh AI applications which are here

293

00:15:51,410 --> 00:15:47,820

they're here you can go and use them now

294

00:15:54,970 --> 00:15:51,420

they're already a part of your life but

295

00:15:57,769 --> 00:15:54,980

we have uh AI applications today

296

00:16:01,790 --> 00:15:57,779

including Advanced web searches Now

297

00:16:05,629 --> 00:16:01,800

search engines like Google and Bing uh

298

00:16:08,329 --> 00:16:05,639

Google has been working on AI for a very

299

00:16:11,930 --> 00:16:08,339

long time and so is Microsoft very long

300

00:16:14,389 --> 00:16:11,940

time and in most cases the engineers and

301
00:16:15,650 --> 00:16:14,399
the lead engineers and and the people

302
00:16:17,990 --> 00:16:15,660
behind this

303
00:16:22,189 --> 00:16:18,000
um have have careers that go back into

304
00:16:26,269 --> 00:16:22,199
the 1970s and and before that

305
00:16:29,870 --> 00:16:26,279
um I I was with a Jacques valet a few

306
00:16:31,430 --> 00:16:29,880
months ago when we sat and and talked uh

307
00:16:35,269 --> 00:16:31,440
for many hours about artificial

308
00:16:38,150 --> 00:16:35,279
intelligence and and he's a computer uh

309
00:16:41,150 --> 00:16:38,160
uh engineer that has been doing this for

310
00:16:45,170 --> 00:16:41,160
uh since the 1960s and he said that he

311
00:16:46,990 --> 00:16:45,180
wrote his first AI code in I believe he

312
00:16:52,870 --> 00:16:47,000
said 1968.

313
00:16:57,170 --> 00:16:52,880

and so the the the the the part of AI

314

00:16:59,389 --> 00:16:57,180

that is in in use today and where we are

315

00:17:03,110 --> 00:16:59,399

today these are people that have been

316

00:17:05,630 --> 00:17:03,120

working on it for for decades and this

317

00:17:08,569 --> 00:17:05,640

is now curriculum this is part of the

318

00:17:10,490 --> 00:17:08,579

academic world and yes you can go to

319

00:17:13,370 --> 00:17:10,500

college and and study this and and start

320

00:17:17,150 --> 00:17:13,380

working on this right now this is no

321

00:17:20,689 --> 00:17:17,160

longer um Isaac Asimov and and iRobot

322

00:17:25,210 --> 00:17:20,699

and in science fiction it is truly here

323

00:17:28,610 --> 00:17:25,220

so when we look at uh Google

324

00:17:30,530 --> 00:17:28,620

that's the United States specifically up

325

00:17:32,330 --> 00:17:30,540

in Silicon Valley

326

00:17:37,330 --> 00:17:32,340

um Microsoft you know that's the United

327

00:17:40,669 --> 00:17:37,340

States China is uh by most reports today

328

00:17:44,150 --> 00:17:40,679

leading in the field of artificial

329

00:17:46,610 --> 00:17:44,160

intelligence and again I stress

330

00:17:49,669 --> 00:17:46,620

um every country whether it's England or

331

00:17:52,850 --> 00:17:49,679

Israel or even you know Brazil Spain

332

00:17:55,450 --> 00:17:52,860

Italy Canada the United States Australia

333

00:17:59,029 --> 00:17:55,460

New Zealand it doesn't matter uh Japan

334

00:18:01,549 --> 00:17:59,039

uh what country Russia

335

00:18:05,270 --> 00:18:01,559

um they are all working on artificial

336

00:18:07,970 --> 00:18:05,280

intelligence and trying to get to uh

337

00:18:11,150 --> 00:18:07,980

that level of AGI this is what is going

338

00:18:14,810 --> 00:18:11,160

on now and so when we speak about this

339

00:18:18,169 --> 00:18:14,820

who is who's managing the shop

340

00:18:19,250 --> 00:18:18,179

who is overseeing all of this we don't

341

00:18:22,250 --> 00:18:19,260

know

342

00:18:25,909 --> 00:18:22,260

as as a culture as citizens of the world

343

00:18:29,210 --> 00:18:25,919

we know very little about this

344

00:18:32,630 --> 00:18:29,220

um uh oversight and regulation

345

00:18:35,270 --> 00:18:32,640

um it is certainly left right now there

346

00:18:39,230 --> 00:18:35,280

is isn't anything going on in Washington

347

00:18:41,870 --> 00:18:39,240

DC or or the world courts you know the

348

00:18:44,150 --> 00:18:41,880

United Nations overseeing artificial

349

00:18:48,590 --> 00:18:44,160

intelligence and guidelines no they they

350

00:18:53,330 --> 00:18:48,600

don't exist so we are limited to

351

00:18:57,110 --> 00:18:53,340

uh corporate ethics military ethics and

352

00:19:01,490 --> 00:18:57,120

and their own world

353

00:19:04,190 --> 00:19:01,500

and that's the regulation so the fear

354

00:19:05,930 --> 00:19:04,200

part of this

355

00:19:08,210 --> 00:19:05,940

um which has been repeated many times

356

00:19:10,970 --> 00:19:08,220

over the years is there an off switch

357

00:19:13,970 --> 00:19:10,980

right and I remember uh I'll say it Neil

358

00:19:16,850 --> 00:19:13,980

deGrasse Tyson uh famously said once he

359

00:19:18,890 --> 00:19:16,860

said look man I've uh

360

00:19:20,690 --> 00:19:18,900

uh the computer starts going out of

361

00:19:23,270 --> 00:19:20,700

control it's artificially intelligent

362

00:19:25,130 --> 00:19:23,280

man just unplug it doesn't have to be an

363

00:19:26,090 --> 00:19:25,140

off switch man just unplug it out of the

364

00:19:29,029 --> 00:19:26,100

wall

365

00:19:32,150 --> 00:19:29,039

um I say not so fast that's the one that

366

00:19:35,750 --> 00:19:32,160

you have in your house but uh if things

367

00:19:37,310 --> 00:19:35,760

go awry is there and that's that's one

368

00:19:38,270 --> 00:19:37,320

of the fear factors the other Fear

369

00:19:42,049 --> 00:19:38,280

Factor

370

00:19:47,870 --> 00:19:44,090

who is doing it

371

00:19:52,130 --> 00:19:47,880

and do they have a moral compass

372

00:19:54,110 --> 00:19:52,140

right well not everybody is clean

373

00:19:57,350 --> 00:19:54,120

that's the first part but the second

374

00:20:03,169 --> 00:19:57,360

part is I think that

375

00:20:05,510 --> 00:20:03,179

in in most cases the these engineers

376

00:20:06,830 --> 00:20:05,520

these software designers these code

377

00:20:08,890 --> 00:20:06,840

writers

378

00:20:11,570 --> 00:20:08,900

um have the same philosophical

379

00:20:13,490 --> 00:20:11,580

viewpoints and questions that most of us

380

00:20:16,789 --> 00:20:13,500

have they they aren't any different than

381

00:20:21,169 --> 00:20:16,799

you and I right and and they want to get

382

00:20:22,909 --> 00:20:21,179

to this goal of an AG a true AGI

383

00:20:25,909 --> 00:20:22,919

situation

384

00:20:28,490 --> 00:20:25,919

um so I think that most are good people

385

00:20:33,710 --> 00:20:28,500

but that doesn't mean that they're all

386

00:20:35,810 --> 00:20:33,720

good that there are when we have

387

00:20:37,549 --> 00:20:35,820

computer systems and we have the

388

00:20:39,110 --> 00:20:37,559

internet and all of us shouldn't it just

389

00:20:42,110 --> 00:20:39,120

all just run what do we have we have

390

00:20:44,029 --> 00:20:42,120

viruses we have viruses are created by

391

00:20:45,590 --> 00:20:44,039

people with really bad intentions and

392

00:20:49,690 --> 00:20:45,600

they know how to write code and some of

393

00:20:52,730 --> 00:20:49,700

it is brilliant and it's the same issues

394

00:20:55,730 --> 00:20:52,740

not everybody that works for internet

395

00:20:58,070 --> 00:20:55,740

companies and that that right software

396

00:21:01,310 --> 00:20:58,080

and you're listening to my voice right

397

00:21:04,190 --> 00:21:01,320

now and and and watching me all of this

398

00:21:06,710 --> 00:21:04,200

is done by code writing okay and and

399

00:21:08,570 --> 00:21:06,720

done by people that are really good and

400

00:21:12,590 --> 00:21:08,580

they're just like you and I

401
00:21:15,470 --> 00:21:12,600
but then you have viruses and and really

402
00:21:16,789 --> 00:21:15,480
bad really bad people out there that are

403
00:21:18,409 --> 00:21:16,799
probably unemployed and don't have

404
00:21:20,810 --> 00:21:18,419
anything better to do but that being

405
00:21:23,390 --> 00:21:20,820
said that is one of the fear factors

406
00:21:25,610 --> 00:21:23,400
though I mean what if

407
00:21:29,510 --> 00:21:25,620
what if somebody's just got a bad

408
00:21:31,970 --> 00:21:29,520
intention what if a country like it

409
00:21:35,690 --> 00:21:31,980
doesn't matter if I say China or North

410
00:21:39,950 --> 00:21:35,700
Korea or Russia or anybody else out

411
00:21:43,130 --> 00:21:39,960
there right uh the Taliban you know get

412
00:21:46,310 --> 00:21:43,140
gets hold of some AGI software what

413
00:21:49,130 --> 00:21:46,320

would they do with it right well okay so

414

00:21:51,169 --> 00:21:49,140

that is something that we need to be

415

00:21:53,049 --> 00:21:51,179

concerned about

416

00:21:55,370 --> 00:21:53,059

um I myself

417

00:21:57,950 --> 00:21:55,380

uh do I

418

00:22:01,730 --> 00:21:57,960

I this is something that I think about a

419

00:22:03,649 --> 00:22:01,740

lot do I lose sleep over it in the

420

00:22:05,930 --> 00:22:03,659

biggest sense of all of this there is

421

00:22:08,750 --> 00:22:05,940

there's nothing I can do

422

00:22:11,330 --> 00:22:08,760

right there's nothing that you can do we

423

00:22:14,770 --> 00:22:11,340

just need to be aware of it and and how

424

00:22:17,630 --> 00:22:14,780

much of it do we allow into our lives

425

00:22:20,230 --> 00:22:17,640

this is a problem

426

00:22:23,510 --> 00:22:20,240

because artificial intelligence is is

427

00:22:24,950 --> 00:22:23,520

right in everybody's Hip Pocket

428

00:22:28,549 --> 00:22:24,960

um and everything that you do every

429

00:22:32,029 --> 00:22:28,559

single day and when I mention Google and

430

00:22:35,330 --> 00:22:32,039

Bing it's right here on your cell phone

431

00:22:37,490 --> 00:22:35,340

all right so artificial intelligence is

432

00:22:40,850 --> 00:22:37,500

is here

433

00:22:42,710 --> 00:22:40,860

um another aspect of this when you want

434

00:22:44,690 --> 00:22:42,720

to stop and just kind of look around

435

00:22:46,490 --> 00:22:44,700

your life

436

00:22:48,289 --> 00:22:46,500

um there's all kinds of recommendation

437

00:22:53,090 --> 00:22:48,299

systems out there

438

00:22:58,010 --> 00:22:53,100

and uh used by YouTube or Netflix right

439

00:22:59,270 --> 00:22:58,020

Amazon Amazon Prime and and so forth

440

00:23:01,010 --> 00:22:59,280

where

441

00:23:04,430 --> 00:23:01,020

I remember

442

00:23:06,409 --> 00:23:04,440

uh when I first got Netflix and it was

443

00:23:09,770 --> 00:23:06,419

probably 10 years ago

444

00:23:12,350 --> 00:23:09,780

right when it first started and and I'm

445

00:23:13,730 --> 00:23:12,360

compiling some stuff and and I click on

446

00:23:15,830 --> 00:23:13,740

something and

447

00:23:17,870 --> 00:23:15,840

whatever and it's my first day or two

448

00:23:20,690 --> 00:23:17,880

and I remember

449

00:23:23,029 --> 00:23:20,700

this is like the next day you know and I

450

00:23:25,310 --> 00:23:23,039

turned on the TV and I turned on Netflix

451
00:23:26,270 --> 00:23:25,320
and I see recommendations that are like

452
00:23:29,570 --> 00:23:26,280
wow

453
00:23:32,450 --> 00:23:29,580
I want to see y'all how what

454
00:23:35,090 --> 00:23:32,460
how does this is great

455
00:23:37,970 --> 00:23:35,100
how does I don't even have to

456
00:23:40,190 --> 00:23:37,980
think of something I don't have to type

457
00:23:43,370 --> 00:23:40,200
something into the search engine and you

458
00:23:46,970 --> 00:23:43,380
know uh what it's like with your remote

459
00:23:50,390 --> 00:23:46,980
control right to to do the manual typing

460
00:23:52,630 --> 00:23:50,400
in of something right I want to see the

461
00:23:55,490 --> 00:23:52,640
movie contact

462
00:23:57,890 --> 00:23:55,500
c-o-n or you just look right down in

463
00:24:02,029 --> 00:23:57,900

your recommendations it's probably there

464

00:24:03,590 --> 00:24:02,039

and that is a version of artificial

465

00:24:05,330 --> 00:24:03,600

intelligence and it's right there on

466

00:24:08,870 --> 00:24:05,340

Netflix and Netflix has got one of the

467

00:24:09,970 --> 00:24:08,880

most advanced recommendation systems out

468

00:24:13,730 --> 00:24:09,980

there

469

00:24:15,950 --> 00:24:13,740

and uh if you look at YouTube YouTube

470

00:24:19,549 --> 00:24:15,960

part of Google right part of alphabet

471

00:24:22,909 --> 00:24:19,559

you look at YouTube and you see what's

472

00:24:26,450 --> 00:24:22,919

popping up in in your feed and your

473

00:24:30,110 --> 00:24:26,460

recommendations and from very simple

474

00:24:33,350 --> 00:24:30,120

things and it seems to know you better

475

00:24:38,450 --> 00:24:33,360

than you that includes Netflix and when

476
00:24:41,350 --> 00:24:38,460
you look at Amazon and its ability to

477
00:24:44,270 --> 00:24:41,360
look ahead and look at your past history

478
00:24:47,570 --> 00:24:44,280
of not only viewing stuff but ordering

479
00:24:50,029 --> 00:24:47,580
stuff and searching for stuff and and it

480
00:24:52,310 --> 00:24:50,039
things pop up and that's artificial

481
00:24:55,010 --> 00:24:52,320
intelligence and it could be something

482
00:24:57,770 --> 00:24:55,020
as simple as this and it's so much a

483
00:25:03,950 --> 00:24:57,780
part of our lives today that we don't

484
00:25:05,210 --> 00:25:03,960
even stop and notice but let's say you

485
00:25:07,730 --> 00:25:05,220
are

486
00:25:09,710 --> 00:25:07,740
um looking for

487
00:25:17,230 --> 00:25:09,720
a hammer

488
00:25:19,070 --> 00:25:17,240

really cool hammer and then

489

00:25:21,649 --> 00:25:19,080

some other

490

00:25:24,769 --> 00:25:21,659

wall Fastener pops up

491

00:25:28,010 --> 00:25:24,779

it's something you wouldn't even wait a

492

00:25:31,310 --> 00:25:28,020

minute yeah I can use that that is

493

00:25:33,590 --> 00:25:31,320

artificial intelligence and it's right

494

00:25:37,010 --> 00:25:33,600

there it's a part of your life and it's

495

00:25:39,830 --> 00:25:37,020

it's working every single day we have

496

00:25:42,169 --> 00:25:39,840

um other things that are here

497

00:25:45,649 --> 00:25:42,179

um we have the artificial intelligence

498

00:25:49,730 --> 00:25:45,659

version of understanding human speech

499

00:25:53,450 --> 00:25:49,740

and I remember when I got uh it was

500

00:25:54,610 --> 00:25:53,460

Samsung I got a Samsung phone

501
00:25:58,130 --> 00:25:54,620
um

502
00:26:03,590 --> 00:25:58,140
1998. one of the best phones I ever got

503
00:26:07,909 --> 00:26:03,600
and it had a voice recognition

504
00:26:11,510 --> 00:26:07,919
um phone book in it now you had to

505
00:26:13,789 --> 00:26:11,520
uh uh type in and you know build your

506
00:26:17,810 --> 00:26:13,799
but once you did that

507
00:26:19,730 --> 00:26:17,820
and I was able to go call Paul

508
00:26:21,950 --> 00:26:19,740
and that thing would light up I don't

509
00:26:24,470 --> 00:26:21,960
use it's funny because I don't use Siri

510
00:26:27,190 --> 00:26:24,480
on my phone anymore I don't use any

511
00:26:31,190 --> 00:26:27,200
speech activation anything on my phone

512
00:26:34,549 --> 00:26:31,200
but I was so impressed with that and

513
00:26:37,190 --> 00:26:34,559

where we are today with speech

514

00:26:40,669 --> 00:26:37,200

recognition and and how these systems

515

00:26:44,750 --> 00:26:40,679

work uh you can look no further than uh

516

00:26:47,870 --> 00:26:44,760

Siri of course and Alexa and voice

517

00:26:49,730 --> 00:26:47,880

activation and speech recognition all

518

00:26:51,950 --> 00:26:49,740

over your home

519

00:26:55,370 --> 00:26:51,960

um all over your computer systems and it

520

00:26:59,210 --> 00:26:55,380

follows you to your car and it's it's

521

00:27:01,669 --> 00:26:59,220

everywhere now so smart homes and

522

00:27:05,750 --> 00:27:01,679

certainly everything tied in with with

523

00:27:07,610 --> 00:27:05,760

Siri and Alexa which goes to your uh

524

00:27:10,310 --> 00:27:07,620

electrical systems and your lights and

525

00:27:12,590 --> 00:27:10,320

your thermostat and and your garage door

526
00:27:14,510 --> 00:27:12,600
and whatever are the locks on the front

527
00:27:16,490 --> 00:27:14,520
of your house

528
00:27:19,850 --> 00:27:16,500
um of course your thermostat and even

529
00:27:21,409 --> 00:27:19,860
ordering groceries and and things all of

530
00:27:23,210 --> 00:27:21,419
this delivered to your house and again

531
00:27:27,470 --> 00:27:23,220
goes back to Amazon that's another

532
00:27:31,310 --> 00:27:27,480
aspect of AI that is right here today we

533
00:27:33,769 --> 00:27:31,320
have self-driving cars now and the

534
00:27:35,750 --> 00:27:33,779
artificial intelligence that applies to

535
00:27:37,909 --> 00:27:35,760
that and we'll get more

536
00:27:41,149 --> 00:27:37,919
um uh deeper into this in in just a bit

537
00:27:43,549 --> 00:27:41,159
but that's another aspect of Our Lives

538
00:27:45,049 --> 00:27:43,559

that I think a lot of this

539

00:27:47,690 --> 00:27:45,059

um have been looking forward to this is

540

00:27:51,230 --> 00:27:47,700

part of the optimistic part of AI then

541

00:27:54,649 --> 00:27:51,240

there's the danger of self-driving cars

542

00:27:57,470 --> 00:27:54,659

and and how do you apply artificial

543

00:27:59,630 --> 00:27:57,480

intelligence to this again if you have

544

00:28:02,029 --> 00:27:59,640

an AGI system

545

00:28:04,930 --> 00:28:02,039

thinking like a human being

546

00:28:08,169 --> 00:28:04,940

and making logical decisions

547

00:28:12,289 --> 00:28:08,179

philosophical decisions moral decisions

548

00:28:15,350 --> 00:28:12,299

ethical decisions uh uh judicial

549

00:28:16,970 --> 00:28:15,360

decisions right

550

00:28:20,690 --> 00:28:16,980

um am I going to drive over the speed

551
00:28:23,210 --> 00:28:20,700
limit right uh I have a task at hand and

552
00:28:26,630 --> 00:28:23,220
I need to drive over the speed limit

553
00:28:29,750 --> 00:28:26,640
a self-driving car will make that

554
00:28:32,090 --> 00:28:29,760
decision for you right do you write that

555
00:28:35,269 --> 00:28:32,100
into the AI I'm willing to pay the

556
00:28:36,769 --> 00:28:35,279
speeding ticket right okay but here's

557
00:28:39,169 --> 00:28:36,779
another example

558
00:28:39,909 --> 00:28:39,179
self-driving car you're going down the

559
00:28:44,690 --> 00:28:39,919
road

560
00:28:49,010 --> 00:28:44,700
and out in front of you uh pops a lady

561
00:28:53,570 --> 00:28:49,020
with a stroller with a baby in it right

562
00:28:55,909 --> 00:28:53,580
all right now I need to turn and avoid

563
00:28:57,890 --> 00:28:55,919

hitting the woman with her baby in the

564

00:29:00,590 --> 00:28:57,900

stroller that happens to rush out into

565

00:29:02,870 --> 00:29:00,600

the street but if I turn right there's a

566

00:29:06,350 --> 00:29:02,880

bus stop with eight people waiting for a

567

00:29:09,850 --> 00:29:06,360

bus and I'm gonna run over them and if I

568

00:29:13,190 --> 00:29:09,860

turn left I am going to hit another car

569

00:29:14,630 --> 00:29:13,200

with a teenager driving it and it's a

570

00:29:17,269 --> 00:29:14,640

convertible and it's going to be a

571

00:29:18,769 --> 00:29:17,279

T-bone now I've got three decisions I've

572

00:29:23,510 --> 00:29:18,779

got to make it I've got to make the best

573

00:29:26,990 --> 00:29:23,520

one and an AGI is going to go deeper

574

00:29:28,610 --> 00:29:27,000

than all of this very very quickly it's

575

00:29:31,549 --> 00:29:28,620

going to assess

576

00:29:33,350 --> 00:29:31,559

the 18 year old driving the car in the

577

00:29:35,750 --> 00:29:33,360

convertible that is probably going to

578

00:29:38,570 --> 00:29:35,760

die if I go straight I'm going to kill a

579

00:29:40,789 --> 00:29:38,580

mother and her newborn child if I go to

580

00:29:43,250 --> 00:29:40,799

the right I'm going to kill eight people

581

00:29:45,950 --> 00:29:43,260

and run them over that are waiting for

582

00:29:48,289 --> 00:29:45,960

the bus that all have families and all

583

00:29:52,690 --> 00:29:48,299

of a sudden this assessment is going to

584

00:29:55,269 --> 00:29:52,700

be made right and that's that's that's

585

00:29:58,549 --> 00:29:55,279

AGI that's artificial intelligence

586

00:30:01,789 --> 00:29:58,559

applied to a self-driving car we can

587

00:30:04,490 --> 00:30:01,799

talk about changing lanes stopping at a

588

00:30:06,889 --> 00:30:04,500

stop light right taking your hands off

589

00:30:10,130 --> 00:30:06,899

the wheel and letting this thing go and

590

00:30:12,649 --> 00:30:10,140

and not crashing into another car and

591

00:30:15,470 --> 00:30:12,659

and getting to my destination safely

592

00:30:18,409 --> 00:30:15,480

that's not what driving a car is all

593

00:30:20,269 --> 00:30:18,419

about a drive driving a car is a right

594

00:30:22,490 --> 00:30:20,279

it's a right

595

00:30:24,350 --> 00:30:22,500

um it's a responsibility and it is also

596

00:30:25,970 --> 00:30:24,360

something that you earn something that

597

00:30:29,990 --> 00:30:25,980

you earn

598

00:30:34,310 --> 00:30:30,000

with taking a driving test right with

599

00:30:36,529 --> 00:30:34,320

with uh learning what safety is and also

600

00:30:37,970 --> 00:30:36,539

what is applied to that is somebody that

601
00:30:41,450 --> 00:30:37,980
is sitting behind the seat and

602
00:30:44,990 --> 00:30:41,460
understands what it is to have a mother

603
00:30:47,149 --> 00:30:45,000
and a stroller with a baby in it right

604
00:30:50,510 --> 00:30:47,159
these are all things that we as humans

605
00:30:53,330 --> 00:30:50,520
take into consideration when driving a

606
00:30:56,630 --> 00:30:53,340
car and how to do it safely and and and

607
00:30:58,190 --> 00:30:56,640
again with moral with ethics and then

608
00:31:01,010 --> 00:30:58,200
also thinking about the law and

609
00:31:02,510 --> 00:31:01,020
consequences and everything else well

610
00:31:06,289 --> 00:31:02,520
that was so when we talk about

611
00:31:09,110 --> 00:31:06,299
self-driving cars it's a much deeper and

612
00:31:10,850 --> 00:31:09,120
I would suggest a philosophical and also

613
00:31:13,549 --> 00:31:10,860

existential problem

614

00:31:15,169 --> 00:31:13,559

because there's other issues that apply

615

00:31:17,690 --> 00:31:15,179

to the self-driving car that are outside

616

00:31:19,370 --> 00:31:17,700

of it that are out of your control and I

617

00:31:23,330 --> 00:31:19,380

didn't even get into things like weather

618

00:31:26,029 --> 00:31:23,340

and and flat tires and so forth but all

619

00:31:28,789 --> 00:31:26,039

of that applies with self-driving cars

620

00:31:31,430 --> 00:31:28,799

and then of course we have

621

00:31:34,490 --> 00:31:31,440

um the other more moral and deep

622

00:31:36,529 --> 00:31:34,500

philosophical aspects that apply to

623

00:31:42,710 --> 00:31:36,539

creative tools

624

00:31:44,810 --> 00:31:42,720

like chat GPT and AI art artificial

625

00:31:47,690 --> 00:31:44,820

intelligent art

626

00:31:50,950 --> 00:31:47,700

um automated decision making right that

627

00:31:56,090 --> 00:31:50,960

that all of this uh chat GPT

628

00:31:59,269 --> 00:31:56,100

can chat GPT can apply to just about any

629

00:32:02,990 --> 00:31:59,279

aspect that you want uh something done a

630

00:32:07,190 --> 00:32:03,000

specific task but then it gets into

631

00:32:09,710 --> 00:32:07,200

things like homework

632

00:32:12,769 --> 00:32:09,720

homework

633

00:32:16,810 --> 00:32:12,779

what did we do with that right and and

634

00:32:19,130 --> 00:32:16,820

the colleges and the schools where today

635

00:32:21,710 --> 00:32:19,140

where you don't even learn how to write

636

00:32:24,230 --> 00:32:21,720

anymore everything is uh done on a

637

00:32:27,230 --> 00:32:24,240

computer students you know take iPads

638

00:32:30,649 --> 00:32:27,240

with them everywhere they they go uh

639

00:32:33,110 --> 00:32:30,659

children today learn how to type on and

640

00:32:35,750 --> 00:32:33,120

access an iPad before they learn the

641

00:32:37,450 --> 00:32:35,760

words Mommy and Daddy this is the world

642

00:32:43,610 --> 00:32:37,460

that we live in today

643

00:32:46,909 --> 00:32:43,620

so the the world of AI is part of and

644

00:32:49,250 --> 00:32:46,919

dare I say the DNA of all of the

645

00:32:51,769 --> 00:32:49,260

generations right now that that are

646

00:32:55,070 --> 00:32:51,779

below us and up and coming they get it

647

00:32:57,970 --> 00:32:55,080

right and they know how to use it and

648

00:33:00,889 --> 00:32:57,980

when you suddenly give access

649

00:33:03,590 --> 00:33:00,899

to students

650

00:33:04,789 --> 00:33:03,600

um everybody has cheated everybody has

651
00:33:06,830 --> 00:33:04,799
wrote

652
00:33:09,049 --> 00:33:06,840
stuff on the palm of their hand to take

653
00:33:10,909 --> 00:33:09,059
a test right to get through the day

654
00:33:13,610 --> 00:33:10,919
don't say that you haven't because you

655
00:33:15,769 --> 00:33:13,620
have and you know looking at somebody

656
00:33:18,230 --> 00:33:15,779
else's work and you got your friend

657
00:33:20,389 --> 00:33:18,240
showing you stuff and to get you through

658
00:33:22,130 --> 00:33:20,399
stuff and if you

659
00:33:23,630 --> 00:33:22,140
um uh copying somebody's homework did

660
00:33:26,029 --> 00:33:23,640
you do your homework last night yeah man

661
00:33:28,310 --> 00:33:26,039
hey man can I see it yeah okay boom I

662
00:33:30,350 --> 00:33:28,320
got to get it done before class okay all

663
00:33:34,730 --> 00:33:30,360

right all of that

664

00:33:37,070 --> 00:33:34,740

right suddenly you literally you've got

665

00:33:38,750 --> 00:33:37,080

to write something on the War of 1812

666

00:33:41,630 --> 00:33:38,760

right

667

00:33:43,750 --> 00:33:41,640

you got to write a report on Napoleon

668

00:33:48,289 --> 00:33:43,760

and whatever

669

00:33:52,430 --> 00:33:48,299

and uh and you just literally

670

00:33:53,269 --> 00:33:52,440

open up chat GPT and go

671

00:33:56,750 --> 00:33:53,279

um

672

00:33:58,730 --> 00:33:56,760

Napoleon boom done I need I need 2 000

673

00:34:03,769 --> 00:33:58,740

words

674

00:34:05,930 --> 00:34:03,779

done you know write it in my style you

675

00:34:08,329 --> 00:34:05,940

know and then the work is done you you

676
00:34:10,190 --> 00:34:08,339
haven't learned anything you're turning

677
00:34:13,490 --> 00:34:10,200
into paper what what did we do with that

678
00:34:15,950 --> 00:34:13,500
that is a serious moral ethical and

679
00:34:18,169 --> 00:34:15,960
philosophical issue that we are dealing

680
00:34:18,889 --> 00:34:18,179
with today and

681
00:34:21,409 --> 00:34:18,899
um

682
00:34:24,470 --> 00:34:21,419
uh who owns that content

683
00:34:26,030 --> 00:34:24,480
and then we have the issue of Art

684
00:34:29,030 --> 00:34:26,040
music

685
00:34:30,589 --> 00:34:29,040
right and you can apply artificial

686
00:34:33,230 --> 00:34:30,599
intelligence

687
00:34:36,530 --> 00:34:33,240
to a 3D printing system and have

688
00:34:38,810 --> 00:34:36,540

sculptures custom sculpture made

689

00:34:42,109 --> 00:34:38,820

you know do something in the style of

690

00:34:46,730 --> 00:34:44,990

and have stuff done

691

00:34:49,550 --> 00:34:46,740

so who owns it

692

00:34:51,589 --> 00:34:49,560

so let's say let me give you another

693

00:34:55,190 --> 00:34:51,599

example

694

00:34:58,609 --> 00:34:55,200

um this is this is a heavy one

695

00:34:58,619 --> 00:35:03,650

have chat GPT write a song

696

00:35:11,170 --> 00:35:06,890

you have artificial intelligence create

697

00:35:17,630 --> 00:35:14,450

you get a hit record

698

00:35:21,650 --> 00:35:17,640

it's not you it's it's chat GPT or some

699

00:35:25,250 --> 00:35:21,660

other AI system who gets the royalties

700

00:35:28,370 --> 00:35:25,260

is it the software engineers

701
00:35:30,250 --> 00:35:28,380
that wrote for chat GPT that created it

702
00:35:32,390 --> 00:35:30,260
are they the ones that get the royalties

703
00:35:34,510 --> 00:35:32,400
do you

704
00:35:37,310 --> 00:35:34,520
how does

705
00:35:39,430 --> 00:35:37,320
artificial intelligence get what they

706
00:35:43,730 --> 00:35:39,440
deserve in royalties

707
00:35:46,250 --> 00:35:43,740
create what if you know some AI art

708
00:35:47,510 --> 00:35:46,260
shows up next to Banksy

709
00:35:50,750 --> 00:35:47,520
you know

710
00:35:53,210 --> 00:35:50,760
the streets of of London gets auctioned

711
00:35:57,950 --> 00:35:53,220
for 10 million dollars the most amazing

712
00:35:59,470 --> 00:35:57,960
piece of of uh right and think about

713
00:36:03,770 --> 00:35:59,480

that for a second

714

00:36:05,150 --> 00:36:03,780

these are deep deep questions that need

715

00:36:08,990 --> 00:36:05,160

to be addressed

716

00:36:10,970 --> 00:36:09,000

right now artificial intelligence is

717

00:36:17,450 --> 00:36:10,980

here

718

00:36:20,390 --> 00:36:17,460

another deep deep philosophical issue is

719

00:36:22,990 --> 00:36:20,400

um artificial intelligence competing at

720

00:36:26,329 --> 00:36:23,000

the very highest level

721

00:36:28,250 --> 00:36:26,339

uh with chess

722

00:36:32,210 --> 00:36:28,260

with go

723

00:36:39,230 --> 00:36:34,250

um when

724

00:36:44,089 --> 00:36:39,240

uh the South Korean go world champion

725

00:36:44,829 --> 00:36:44,099

just a kid too just a kid got beat by a

726

00:36:47,990 --> 00:36:44,839

computer

727

00:36:50,569 --> 00:36:48,000

and the look world championship and the

728

00:36:52,250 --> 00:36:50,579

look and and go here in the United

729

00:36:54,050 --> 00:36:52,260

States we don't get it we don't

730

00:36:57,970 --> 00:36:54,060

understand it you can go watch a

731

00:37:00,470 --> 00:36:57,980

documentary or two and you can find a go

732

00:37:04,370 --> 00:37:00,480

in South Korea

733

00:37:05,930 --> 00:37:04,380

is bigger than the NFL and the NBA and

734

00:37:10,430 --> 00:37:05,940

Major League Baseball in this country

735

00:37:17,210 --> 00:37:12,050

it's like that

736

00:37:19,790 --> 00:37:17,220

and suddenly and to have the the system

737

00:37:20,990 --> 00:37:19,800

that beat that South Korean world

738

00:37:23,690 --> 00:37:21,000

champion

739

00:37:27,109 --> 00:37:23,700

was not a complex system

740

00:37:29,810 --> 00:37:27,119

it learned on the fly it literally

741

00:37:32,329 --> 00:37:29,820

watched his every move

742

00:37:35,510 --> 00:37:32,339

closed in and defeated it was it was

743

00:37:37,490 --> 00:37:35,520

brutal to watch it was heartbreaking to

744

00:37:39,410 --> 00:37:37,500

watch and that's where we are today

745

00:37:42,109 --> 00:37:39,420

you know I would

746

00:37:46,370 --> 00:37:42,119

um venture to guess uh we are days away

747

00:37:49,609 --> 00:37:46,380

from uh there no human will ever win at

748

00:37:52,550 --> 00:37:49,619

chess again uh against a computer system

749

00:37:55,010 --> 00:37:52,560

no no it just won't happen you can dial

750

00:37:58,849 --> 00:37:55,020

it back okay let's take the difficulty

751
00:38:01,910 --> 00:37:58,859
settings down but at Full Tilt Boogie

752
00:38:03,650 --> 00:38:01,920
nah no no never win a chess again

753
00:38:04,670 --> 00:38:03,660
now ever

754
00:38:08,329 --> 00:38:04,680
ever

755
00:38:11,210 --> 00:38:08,339
and let me give you the reasons why and

756
00:38:13,370 --> 00:38:11,220
this applies to everything across AGI uh

757
00:38:15,589 --> 00:38:13,380
and artificial intelligence remember

758
00:38:17,089 --> 00:38:15,599
what I said about medical research

759
00:38:19,790 --> 00:38:17,099
remember what I said about writing a

760
00:38:22,069 --> 00:38:19,800
great screenplay all right

761
00:38:24,829 --> 00:38:22,079
um I have

762
00:38:26,030 --> 00:38:24,839
um uh played against and I did this for

763
00:38:29,870 --> 00:38:26,040

a couple of years

764

00:38:32,569 --> 00:38:29,880

um I learned uh Master Level chess

765

00:38:35,569 --> 00:38:32,579

um from a chess program and in this

766

00:38:37,790 --> 00:38:35,579

particular chess program that I was

767

00:38:39,950 --> 00:38:37,800

learning from I believe I'm gonna pull

768

00:38:44,089 --> 00:38:39,960

round numbers out but I think they had

769

00:38:45,829 --> 00:38:44,099

the 100 greatest chess matches ever in

770

00:38:47,510 --> 00:38:45,839

the history of Chess they're all there

771

00:38:50,270 --> 00:38:47,520

and you can play those specific games

772

00:38:53,150 --> 00:38:50,280

and and you can choose your side all

773

00:38:55,130 --> 00:38:53,160

right I'm doing all of that manually

774

00:38:57,650 --> 00:38:55,140

I'm learning it I'm learning it I'm

775

00:38:58,990 --> 00:38:57,660

learning it in the world of artificial

776

00:39:03,950 --> 00:38:59,000

intelligence

777

00:39:07,670 --> 00:39:03,960

they these systems could learn not only

778

00:39:11,210 --> 00:39:07,680

every game every specific move and and

779

00:39:13,430 --> 00:39:11,220

the reasons for or against in every

780

00:39:15,710 --> 00:39:13,440

chess match that was ever played in the

781

00:39:18,290 --> 00:39:15,720

history of the world and it could do

782

00:39:21,170 --> 00:39:18,300

that immediately and while you are

783

00:39:24,290 --> 00:39:21,180

contemplating it's already accessing

784

00:39:25,609 --> 00:39:24,300

everything that ever was and that's what

785

00:39:28,430 --> 00:39:25,619

you're playing against

786

00:39:31,430 --> 00:39:28,440

right immediately that kind of brain

787

00:39:33,890 --> 00:39:31,440

power you're not doing you're not facing

788

00:39:36,890 --> 00:39:33,900

that with Gary Kasparov you're facing

789

00:39:39,829 --> 00:39:36,900

one brain AI you're facing the

790

00:39:42,650 --> 00:39:39,839

intelligence of all mankind

791

00:39:45,530 --> 00:39:42,660

and that's why go which is a very

792

00:39:46,609 --> 00:39:45,540

complex game did what it did that

793

00:39:49,430 --> 00:39:46,619

quickly

794

00:39:52,310 --> 00:39:49,440

all right so we have that

795

00:39:55,370 --> 00:39:52,320

um I've mentioned AGI

796

00:39:57,230 --> 00:39:55,380

many times tonight but uh let's get

797

00:40:01,670 --> 00:39:57,240

specifically into this artificial

798

00:40:03,770 --> 00:40:01,680

general intelligence AGI is the ability

799

00:40:06,770 --> 00:40:03,780

like I have said for a computer to

800

00:40:10,670 --> 00:40:06,780

understand or learn any task any

801
00:40:12,109 --> 00:40:10,680
intellectual thing that uh human beings

802
00:40:16,030 --> 00:40:12,119
can do

803
00:40:20,630 --> 00:40:16,040
that's it just the average human being

804
00:40:22,430 --> 00:40:20,640
and the the thought of that it seems

805
00:40:24,349 --> 00:40:22,440
very very simple

806
00:40:26,990 --> 00:40:24,359
the brain

807
00:40:29,030 --> 00:40:27,000
isn't that simple

808
00:40:31,069 --> 00:40:29,040
so are we going to get to this point

809
00:40:35,109 --> 00:40:31,079
anytime soon I'm going to discuss more

810
00:40:37,790 --> 00:40:35,119
of that in just a bit how close are we

811
00:40:41,210 --> 00:40:37,800
well we know

812
00:40:45,710 --> 00:40:41,220
um uh because of Alan Turing

813
00:40:48,710 --> 00:40:45,720

um that there there were a few tests

814

00:40:52,849 --> 00:40:48,720

um and specifically the Turing test

815

00:40:56,150 --> 00:40:52,859

um ways to possibly reveal that you are

816

00:41:00,710 --> 00:40:56,160

dealing with a computer or a human

817

00:41:02,450 --> 00:41:00,720

today when a chat bot pops up when

818

00:41:05,510 --> 00:41:02,460

you're on a website you go over to

819

00:41:07,910 --> 00:41:05,520

Verizon and you're on Microsoft and

820

00:41:10,490 --> 00:41:07,920

you're you're doing whatever and then

821

00:41:12,890 --> 00:41:10,500

you see it right there Hi how may I help

822

00:41:15,170 --> 00:41:12,900

you today that's not a human being

823

00:41:17,510 --> 00:41:15,180

that's artificial intelligence that's a

824

00:41:20,089 --> 00:41:17,520

machine learning program and you're

825

00:41:22,670 --> 00:41:20,099

going to type something in and as the

826
00:41:27,730 --> 00:41:22,680
days go by right now I'm talking about

827
00:41:30,530 --> 00:41:27,740
days as days go by right now chances are

828
00:41:33,650 --> 00:41:30,540
artificial intelligence is who you are

829
00:41:35,750 --> 00:41:33,660
talking to not machine learning not

830
00:41:37,550 --> 00:41:35,760
something simple that is going to read

831
00:41:40,750 --> 00:41:37,560
what you're going to type in and try to

832
00:41:44,630 --> 00:41:40,760
figure out what uh just from Logistics

833
00:41:46,609 --> 00:41:44,640
and and in a mechanical process that is

834
00:41:49,670 --> 00:41:46,619
going to go through this no no it's

835
00:41:52,370 --> 00:41:49,680
artificial intelligence every day that

836
00:41:55,490 --> 00:41:52,380
goes by this is being implemented more

837
00:41:59,089 --> 00:41:55,500
and more and more so how do you know

838
00:42:01,490 --> 00:41:59,099

right I you don't I

839

00:42:05,089 --> 00:42:01,500

um uh I had some issues

840

00:42:08,930 --> 00:42:05,099

that I had to get resolved with uh

841

00:42:12,069 --> 00:42:08,940

Microsoft 365. they're they're you know

842

00:42:15,650 --> 00:42:12,079

their office uh program set up right now

843

00:42:18,890 --> 00:42:15,660

and I'm you probably have office 365.

844

00:42:20,510 --> 00:42:18,900

try to make a change to office 365. try

845

00:42:22,310 --> 00:42:20,520

to make an addition to it try to take

846

00:42:24,829 --> 00:42:22,320

something away try to do try to ask a

847

00:42:26,870 --> 00:42:24,839

question well jump you there are no

848

00:42:29,210 --> 00:42:26,880

phone numbers for Microsoft anymore you

849

00:42:32,450 --> 00:42:29,220

can forget about that part but uh or

850

00:42:34,370 --> 00:42:32,460

anybody else an airline try to get

851
00:42:36,530 --> 00:42:34,380
somebody on the phone with an airline

852
00:42:37,970 --> 00:42:36,540
you are going to do it with artificial

853
00:42:41,450 --> 00:42:37,980
intelligence and you're going to do with

854
00:42:44,690 --> 00:42:41,460
the chat engine and I sat there with

855
00:42:47,870 --> 00:42:44,700
this chat bot on Microsoft

856
00:42:49,730 --> 00:42:47,880
and got what I thought was going to be a

857
00:42:51,349 --> 00:42:49,740
long day was somebody on the phone I

858
00:42:52,970 --> 00:42:51,359
gotta fix pretty quickly and it was

859
00:42:55,250 --> 00:42:52,980
pretty amazing

860
00:42:59,089 --> 00:42:55,260
um how it happened but I sat back and I

861
00:43:02,630 --> 00:42:59,099
said to myself was that a human that was

862
00:43:04,790 --> 00:43:02,640
there because that felt like

863
00:43:08,270 --> 00:43:04,800

somebody was kind

864

00:43:11,809 --> 00:43:08,280

somebody was nice somebody got it done

865

00:43:13,970 --> 00:43:11,819

got it done quickly quickly

866

00:43:15,589 --> 00:43:13,980

quickly not let me put you on hold let

867

00:43:17,150 --> 00:43:15,599

me see what I can do I got to go talk to

868

00:43:19,190 --> 00:43:17,160

somebody hold on let me put you on no

869

00:43:22,690 --> 00:43:19,200

not no no no no no no

870

00:43:24,470 --> 00:43:22,700

and it was two three four minutes of

871

00:43:28,130 --> 00:43:24,480

dealing with

872

00:43:30,290 --> 00:43:28,140

a robot a chatbot

873

00:43:32,870 --> 00:43:30,300

artificial intelligence

874

00:43:35,270 --> 00:43:32,880

and I gotta say it was a pretty good

875

00:43:38,809 --> 00:43:35,280

experience but that's where we are today

876
00:43:39,950 --> 00:43:38,819
so how do you know how do you know I

877
00:43:43,609 --> 00:43:39,960
didn't

878
00:43:44,410 --> 00:43:43,619
the Turing test is when a machine and a

879
00:43:47,930 --> 00:43:44,420
human

880
00:43:49,490 --> 00:43:47,940
both Converse unseen this is the touring

881
00:43:50,990 --> 00:43:49,500
test and this was developed you've got

882
00:43:52,849 --> 00:43:51,000
to remember we're going back now to

883
00:43:56,030 --> 00:43:52,859
1950.

884
00:43:59,050 --> 00:43:56,040
Alan Turing was brilliant brilliant but

885
00:44:03,710 --> 00:43:59,060
so his his vision of the touring test

886
00:44:08,569 --> 00:44:03,720
was that you have a computer and a human

887
00:44:13,550 --> 00:44:08,579
talking unseen with a second human

888
00:44:17,030 --> 00:44:13,560

and the second human must evaluate which

889

00:44:20,569 --> 00:44:17,040

of the two is the computer

890

00:44:23,930 --> 00:44:20,579

right and the winner passes the test if

891

00:44:28,250 --> 00:44:23,940

it can fool right the the third the the

892

00:44:31,190 --> 00:44:28,260

the second human the third person here

893

00:44:32,809 --> 00:44:31,200

um very quickly you don't have to no it

894

00:44:35,569 --> 00:44:32,819

because

895

00:44:38,450 --> 00:44:35,579

you should know right

896

00:44:40,370 --> 00:44:38,460

and immediately

897

00:44:42,770 --> 00:44:40,380

you know if you're listening to a dog

898

00:44:45,890 --> 00:44:42,780

bark or a human talk you know instantly

899

00:44:48,470 --> 00:44:45,900

so shouldn't you know the difference

900

00:44:52,970 --> 00:44:48,480

between a human and a computer instantly

901
00:44:54,290 --> 00:44:52,980
and if you don't computer wins

902
00:44:57,710 --> 00:44:54,300
that's right

903
00:45:00,470 --> 00:44:57,720
if you can't tell computer wins that's

904
00:45:04,190 --> 00:45:00,480
the touring test then we have the coffee

905
00:45:06,410 --> 00:45:04,200
test this was uh from Steve Wozniak and

906
00:45:08,690 --> 00:45:06,420
I use this I'm going to use this more

907
00:45:09,950 --> 00:45:08,700
tonight but the coffee test and if

908
00:45:11,809 --> 00:45:09,960
you've never heard of the coffee test

909
00:45:14,390 --> 00:45:11,819
from Steve Wozniak and Steve is

910
00:45:17,150 --> 00:45:14,400
absolutely brilliant

911
00:45:21,109 --> 00:45:17,160
um this is what a machine I'm going to

912
00:45:23,870 --> 00:45:21,119
say a robot let's just go with an AI

913
00:45:27,650 --> 00:45:23,880

robot an Android The Terminator

914

00:45:30,490 --> 00:45:27,660

is is required to enter an average

915

00:45:33,470 --> 00:45:30,500

American home

916

00:45:35,690 --> 00:45:33,480

wozniak's words not mine and figure out

917

00:45:37,370 --> 00:45:35,700

how to make coffee

918

00:45:40,730 --> 00:45:37,380

it's one of the simplest things to do

919

00:45:42,710 --> 00:45:40,740

right if you're a human and you wake up

920

00:45:44,150 --> 00:45:42,720

in a hotel room you got a coffee machine

921

00:45:45,650 --> 00:45:44,160

there you're gonna you're gonna figure

922

00:45:49,609 --> 00:45:45,660

it out you're gonna get it figured out

923

00:45:51,950 --> 00:45:49,619

if you are uh house if you're a house

924

00:45:53,450 --> 00:45:51,960

guest you're you're watching somebody's

925

00:45:54,950 --> 00:45:53,460

house they're out of town and you wake

926
00:45:56,210 --> 00:45:54,960
up on your first day you go down in the

927
00:45:58,490 --> 00:45:56,220
kitchen you want to make a cup of coffee

928
00:45:59,990 --> 00:45:58,500
you're gonna figure it out or you're

929
00:46:01,790 --> 00:46:00,000
gonna figure out that you can't make

930
00:46:04,490 --> 00:46:01,800
coffee because there's no coffee there

931
00:46:06,109 --> 00:46:04,500
or there's this something's been missing

932
00:46:07,910 --> 00:46:06,119
coffee filters right you're gonna figure

933
00:46:09,730 --> 00:46:07,920
it out go to the store pick up the

934
00:46:13,130 --> 00:46:09,740
coffee filters come back and make coffee

935
00:46:14,990 --> 00:46:13,140
an average person can figure that out so

936
00:46:17,750 --> 00:46:15,000
back to the Wozniak test

937
00:46:21,470 --> 00:46:17,760
that's what you are going to task this

938
00:46:23,750 --> 00:46:21,480

this AI Android to do because the AI

939

00:46:26,109 --> 00:46:23,760

Android should be able to do all the

940

00:46:31,010 --> 00:46:26,119

simple things find the coffee machine

941

00:46:35,089 --> 00:46:31,020

right find the coffee add the water

942

00:46:38,329 --> 00:46:35,099

find a coffee cup to pour it into right

943

00:46:41,690 --> 00:46:38,339

maybe cream maybe sugar and and then

944

00:46:43,370 --> 00:46:41,700

Brew the coffee by pushing the proper

945

00:46:45,430 --> 00:46:43,380

buttons

946

00:46:49,430 --> 00:46:45,440

that's the coffee test

947

00:46:51,530 --> 00:46:49,440

as simple as that sounds

948

00:46:54,470 --> 00:46:51,540

that's one way

949

00:46:56,329 --> 00:46:54,480

now we have the robot college student

950

00:46:59,630 --> 00:46:56,339

test I've been talking about this a lot

951
00:47:02,750 --> 00:46:59,640
on the show because this is now also

952
00:47:04,790 --> 00:47:02,760
become a part of our reality and this

953
00:47:06,770 --> 00:47:04,800
was put forward by Ben gertzel and he's

954
00:47:09,650 --> 00:47:06,780
brilliant when it comes to artificial

955
00:47:12,109 --> 00:47:09,660
intelligence and his version of this is

956
00:47:15,050 --> 00:47:12,119
a machine a computer

957
00:47:16,309 --> 00:47:15,060
uh enrolls in a university

958
00:47:19,190 --> 00:47:16,319
right

959
00:47:20,990 --> 00:47:19,200
and taking and passing the same classes

960
00:47:24,829 --> 00:47:21,000
that humans would

961
00:47:27,950 --> 00:47:24,839
in obtaining a degree and we are there

962
00:47:30,710 --> 00:47:27,960
there are law tests that have been

963
00:47:33,410 --> 00:47:30,720

passed lately and I've talked about it

964

00:47:37,010 --> 00:47:33,420

this is a scare you don't know you know

965

00:47:39,650 --> 00:47:37,020

especially as a university

966

00:47:42,170 --> 00:47:39,660

um where so many online courses are

967

00:47:45,109 --> 00:47:42,180

being done today which has been going on

968

00:47:47,870 --> 00:47:45,119

for years but now with with the pandemic

969

00:47:50,750 --> 00:47:47,880

and everything else man uh everything

970

00:47:55,490 --> 00:47:50,760

has been offline uh teachers have been

971

00:47:57,530 --> 00:47:55,500

on camera right and so do you know do

972

00:48:00,410 --> 00:47:57,540

you know you see the name

973

00:48:03,290 --> 00:48:00,420

you see the work coming in do you know

974

00:48:05,630 --> 00:48:03,300

if it's even human anymore chances are

975

00:48:09,349 --> 00:48:05,640

you probably wouldn't

976
00:48:11,690 --> 00:48:09,359
think about that and get a degree

977
00:48:13,970 --> 00:48:11,700
there's again deep moral and

978
00:48:18,470 --> 00:48:13,980
philosophical issues with that

979
00:48:20,450 --> 00:48:18,480
right if if an AI Android bot or even

980
00:48:22,609 --> 00:48:20,460
something that exists just on a computer

981
00:48:26,030 --> 00:48:22,619
doesn't even have to have a physical

982
00:48:29,569 --> 00:48:26,040
robot body but um do they have rights

983
00:48:32,690 --> 00:48:29,579
can they can they get a degree can you

984
00:48:35,510 --> 00:48:32,700
have an AI bot and you've named it

985
00:48:38,270 --> 00:48:35,520
whatever but Ben

986
00:48:42,950 --> 00:48:38,280
um that is uh certified

987
00:48:46,730 --> 00:48:42,960
right as a PhD an M.A a ba maybe it's

988
00:48:48,170 --> 00:48:46,740

even a BMF you don't even know right

989

00:48:49,250 --> 00:48:48,180

you don't have to meet these people

990

00:48:50,870 --> 00:48:49,260

anymore

991

00:48:54,890 --> 00:48:50,880

so how would you know the difference and

992

00:48:57,530 --> 00:48:54,900

that is the robot College test we are

993

00:49:01,130 --> 00:48:57,540

now this is today this isn't science

994

00:49:03,050 --> 00:49:01,140

fiction this isn't the Future these are

995

00:49:06,410 --> 00:49:03,060

things that need to be addressed today

996

00:49:09,050 --> 00:49:06,420

because they are happening

997

00:49:11,870 --> 00:49:09,060

um then you have the employment test by

998

00:49:13,790 --> 00:49:11,880

Nils Nilsson he's not with us anymore

999

00:49:18,589 --> 00:49:13,800

but he was great

1000

00:49:22,849 --> 00:49:18,599

um where you have a machine a robot that

1001
00:49:25,670 --> 00:49:22,859
performs an economically important job

1002
00:49:28,309 --> 00:49:25,680
all right and do that job at least as

1003
00:49:31,730 --> 00:49:28,319
well as humans do we have this now we

1004
00:49:34,370 --> 00:49:31,740
have ai that is replacing lawyers and

1005
00:49:37,309 --> 00:49:34,380
attorneys and DA's and District

1006
00:49:39,050 --> 00:49:37,319
Attorneys even judges whether it's being

1007
00:49:42,170 --> 00:49:39,060
applied to courts

1008
00:49:43,849 --> 00:49:42,180
uh now it would uh be used in a murder

1009
00:49:45,470 --> 00:49:43,859
trial

1010
00:49:48,589 --> 00:49:45,480
soon

1011
00:49:50,690 --> 00:49:48,599
sure could you give the option to

1012
00:49:53,390 --> 00:49:50,700
somebody that is accused of a crime

1013
00:49:55,730 --> 00:49:53,400

traffic ticket or

1014

00:49:57,710 --> 00:49:55,740

you know strong arm burglary I don't

1015

00:49:59,690 --> 00:49:57,720

know Murder and go okay you have a

1016

00:50:03,109 --> 00:49:59,700

choice

1017

00:50:04,450 --> 00:50:03,119

judge he's a hanging judge this guy's

1018

00:50:07,670 --> 00:50:04,460

rough

1019

00:50:08,990 --> 00:50:07,680

trial by jury

1020

00:50:13,190 --> 00:50:09,000

or

1021

00:50:20,089 --> 00:50:16,910

what if you gave the accused a choice

1022

00:50:22,309 --> 00:50:20,099

you have to abide by it it's here

1023

00:50:24,349 --> 00:50:22,319

it's now where it's being used now you

1024

00:50:27,230 --> 00:50:24,359

don't have a choice but is that possible

1025

00:50:31,010 --> 00:50:27,240

and if we are there

1026
00:50:35,569 --> 00:50:31,020
think about it now again who pays who

1027
00:50:39,170 --> 00:50:37,730
could you be represented by an AI

1028
00:50:41,030 --> 00:50:39,180
attorney

1029
00:50:43,730 --> 00:50:41,040
All Right lawsuit

1030
00:50:45,710 --> 00:50:43,740
right AI attorney

1031
00:50:48,589 --> 00:50:45,720
brings a lawsuit

1032
00:50:51,410 --> 00:50:48,599
paper you get served

1033
00:50:56,690 --> 00:50:53,569
these are deep deep questions and

1034
00:50:58,549 --> 00:50:56,700
they're all here they are here today now

1035
00:51:00,589 --> 00:50:58,559
um so talking about I've got to take a

1036
00:51:03,950 --> 00:51:00,599
break here in just a second uh talking

1037
00:51:08,270 --> 00:51:03,960
about strong AI so I think that we all

1038
00:51:11,390 --> 00:51:08,280

understand AGI and and the goals of

1039

00:51:14,569 --> 00:51:11,400

getting to it but then we have strong AI

1040

00:51:18,049 --> 00:51:14,579

uh again I I keep saying uh

1041

00:51:20,450 --> 00:51:18,059

philosophical and existential and and

1042

00:51:23,630 --> 00:51:20,460

these considerations moral ethical

1043

00:51:25,609 --> 00:51:23,640

judgments and decisions that have have

1044

00:51:29,030 --> 00:51:25,619

to be made who is making these decisions

1045

00:51:31,670 --> 00:51:29,040

well when it comes to strong AI which is

1046

00:51:34,309 --> 00:51:31,680

different from artificial general

1047

00:51:38,150 --> 00:51:34,319

intelligence strong AI

1048

00:51:41,569 --> 00:51:38,160

may be further out than AGI

1049

00:51:44,089 --> 00:51:41,579

AGI it's it's possible that we are here

1050

00:51:45,710 --> 00:51:44,099

today we just somebody hasn't revealed

1051

00:51:49,069 --> 00:51:45,720

it yet

1052

00:51:51,950 --> 00:51:49,079

um but uh strong AI our computer

1053

00:51:55,849 --> 00:51:51,960

programs and computer systems

1054

00:51:57,170 --> 00:51:55,859

that experience sentience or

1055

00:52:01,490 --> 00:51:57,180

consciousness

1056

00:52:06,349 --> 00:52:01,500

you know maybe even have a soul

1057

00:52:09,950 --> 00:52:06,359

that's a strong AI now if we stop right

1058

00:52:13,010 --> 00:52:09,960

there for a second and and we consider

1059

00:52:18,710 --> 00:52:16,030

I don't think at least not right now

1060

00:52:21,309 --> 00:52:18,720

that a human

1061

00:52:23,890 --> 00:52:21,319

a code writer an engineer

1062

00:52:26,450 --> 00:52:23,900

could program

1063

00:52:28,430 --> 00:52:26,460

lines of code

1064

00:52:30,589 --> 00:52:28,440

for consciousness

1065

00:52:34,069 --> 00:52:30,599

for true sentience

1066

00:52:36,290 --> 00:52:34,079

I don't think it's possible not yet

1067

00:52:39,530 --> 00:52:36,300

it's too complex

1068

00:52:42,470 --> 00:52:39,540

as we look at it

1069

00:52:45,670 --> 00:52:42,480

could AGI

1070

00:52:47,569 --> 00:52:45,680

write its own code to give it

1071

00:52:48,670 --> 00:52:47,579

self-consciousness and figure out a way

1072

00:52:51,290 --> 00:52:48,680

to get that done

1073

00:52:54,290 --> 00:52:51,300

there's there's another part to this

1074

00:52:58,190 --> 00:52:54,300

that I think we need to address

1075

00:53:02,210 --> 00:52:58,200

because we look at K locks which are

1076

00:53:04,730 --> 00:53:02,220

okay like kloc is a thousand lines of

1077

00:53:07,130 --> 00:53:04,740

code right K being a thousand loc lines

1078

00:53:09,230 --> 00:53:07,140

of code K locks how many k locks how

1079

00:53:10,970 --> 00:53:09,240

many light thousand lines of code you

1080

00:53:14,450 --> 00:53:10,980

know writing in blocks and that's what

1081

00:53:16,549 --> 00:53:14,460

uh computer programmers uh go to do is

1082

00:53:18,170 --> 00:53:16,559

to be able to write so many k locks in a

1083

00:53:19,730 --> 00:53:18,180

night how many k locks you write last

1084

00:53:21,230 --> 00:53:19,740

time I did eight I did eight thousand

1085

00:53:24,470 --> 00:53:21,240

lines of code last time pretty good I

1086

00:53:26,809 --> 00:53:24,480

did 10. I did 10K like I did 20 K locks

1087

00:53:29,630 --> 00:53:26,819

how many k locks

1088

00:53:32,450 --> 00:53:29,640

would it take to write

1089

00:53:35,870 --> 00:53:32,460

sentience or Consciousness into an AGI

1090

00:53:40,250 --> 00:53:35,880

system and make it strong AI

1091

00:53:41,690 --> 00:53:40,260

it may not be thousands of lines of code

1092

00:53:46,069 --> 00:53:41,700

what if there's something really simple

1093

00:53:51,950 --> 00:53:48,290

think about that

1094

00:53:54,470 --> 00:53:51,960

a AGI would take a a look at this if

1095

00:53:57,470 --> 00:53:54,480

given the task and I'm sure that you

1096

00:53:59,569 --> 00:53:57,480

know how would you write

1097

00:54:02,030 --> 00:53:59,579

the code

1098

00:54:03,950 --> 00:54:02,040

for consciousness

1099

00:54:06,950 --> 00:54:03,960

right and you see that spit out what

1100

00:54:11,690 --> 00:54:06,960

it's four lines yeah because it's going

1101

00:54:15,170 --> 00:54:11,700

to work on itself Consciousness is uh

1102

00:54:17,750 --> 00:54:15,180

those simple abilities of of obviously

1103

00:54:20,470 --> 00:54:17,760

sadness and happiness and you know of

1104

00:54:23,450 --> 00:54:20,480

course crying and laughter and and and

1105

00:54:26,569 --> 00:54:23,460

feeling and touch and sense and taste

1106

00:54:29,030 --> 00:54:26,579

and smell and and and hearing and and

1107

00:54:32,390 --> 00:54:29,040

then getting the emotional uh side of

1108

00:54:35,809 --> 00:54:32,400

that apply to and and getting to Joy or

1109

00:54:37,910 --> 00:54:35,819

getting to sadness and and all of that

1110

00:54:41,089 --> 00:54:37,920

you know Melancholy and getting to those

1111

00:54:43,250 --> 00:54:41,099

feelings that that humans have that give

1112

00:54:46,130 --> 00:54:43,260

us emotions that give us the reason for

1113

00:54:47,809 --> 00:54:46,140

living right all of that that's

1114

00:54:53,329 --> 00:54:47,819

consciousness

1115

00:54:55,630 --> 00:54:53,339

so with strong AI versus AGI

1116

00:54:58,609 --> 00:54:55,640

let's say

1117

00:55:00,170 --> 00:54:58,619

you want to buy a new car and you tell

1118

00:55:03,290 --> 00:55:00,180

AGI

1119

00:55:07,609 --> 00:55:03,300

to pick you out a new car and and which

1120

00:55:11,450 --> 00:55:07,619

is the best one now what about color

1121

00:55:14,569 --> 00:55:11,460

right now color it seems like a simple

1122

00:55:17,270 --> 00:55:14,579

decision but it's not humans think

1123

00:55:20,329 --> 00:55:17,280

differently so when when they want to

1124

00:55:22,670 --> 00:55:20,339

dress or or what drives them to decorate

1125

00:55:26,750 --> 00:55:22,680

their house a certain way or whatever

1126

00:55:28,370 --> 00:55:26,760

this is where computer systems are today

1127

00:55:34,849 --> 00:55:28,380

fail

1128

00:55:37,309 --> 00:55:34,859

experience of being a human being

1129

00:55:42,470 --> 00:55:37,319

and what do I mean by that

1130

00:55:45,910 --> 00:55:42,480

all right maybe when you were a kid

1131

00:55:50,569 --> 00:55:45,920

your neighbor had a blue car

1132

00:55:53,390 --> 00:55:50,579

and it was never washed and you went

1133

00:55:55,609 --> 00:55:53,400

over and would touch that car and feel

1134

00:55:59,030 --> 00:55:55,619

the dirt and had this

1135

00:56:00,609 --> 00:55:59,040

um this patina to it maybe it was a

1136

00:56:02,270 --> 00:56:00,619

vintage

1137

00:56:04,609 --> 00:56:02,280

Mustang

1138

00:56:07,609 --> 00:56:04,619

you know and it had a patina to it it

1139

00:56:10,730 --> 00:56:07,619

had this look to it and there was this

1140

00:56:13,670 --> 00:56:10,740

thing so when you

1141

00:56:15,829 --> 00:56:13,680

see that color today whether it's in

1142

00:56:17,870 --> 00:56:15,839

clothes or furniture or anything you

1143

00:56:19,790 --> 00:56:17,880

have this emotional thing that that

1144

00:56:23,089 --> 00:56:19,800

comes over you

1145

00:56:25,790 --> 00:56:23,099

and that and it could be a song that you

1146

00:56:28,990 --> 00:56:25,800

heard and whatever it and you have this

1147

00:56:33,770 --> 00:56:29,000

emotional thing that's the part where

1148

00:56:36,530 --> 00:56:33,780

systems today fail because the brain has

1149

00:56:38,450 --> 00:56:36,540

that and it has the ability to make

1150

00:56:42,410 --> 00:56:38,460

decisions that are based on emotion not

1151
00:56:46,549 --> 00:56:42,420
on economics not on the availability not

1152
00:56:48,710 --> 00:56:46,559
on what is the most liked car color what

1153
00:56:51,290 --> 00:56:48,720
is the most disliked car color or

1154
00:56:54,710 --> 00:56:51,300
clothes or whatever no we make our

1155
00:56:57,130 --> 00:56:54,720
decisions based on other things

1156
00:57:01,430 --> 00:56:57,140
that's it that's what makes us human

1157
00:57:04,670 --> 00:57:01,440
right and so programming that it sounds

1158
00:57:08,809 --> 00:57:04,680
complex we're not there yet

1159
00:57:10,250 --> 00:57:08,819
right and here's here's the deal could

1160
00:57:11,450 --> 00:57:10,260
it just be four simple lines of code

1161
00:57:14,270 --> 00:57:11,460
could it be a hundred lines of code

1162
00:57:18,230 --> 00:57:14,280
could it be something crazily it's

1163
00:57:21,230 --> 00:57:18,240

simple and beautiful some of the most

1164

00:57:24,530 --> 00:57:21,240

um beautiful math uh the some of the

1165

00:57:27,290 --> 00:57:24,540

most elegant code out there isn't a

1166

00:57:29,569 --> 00:57:27,300

million lines of code right some of the

1167

00:57:30,770 --> 00:57:29,579

most beautiful beautiful poetry is a

1168

00:57:33,710 --> 00:57:30,780

couple of lines some of the most

1169

00:57:34,730 --> 00:57:33,720

beautiful words that you know very very

1170

00:57:37,970 --> 00:57:34,740

simple

1171

00:57:40,910 --> 00:57:37,980

and it could be just that some of the

1172

00:57:43,069 --> 00:57:40,920

most brilliant code out there is very

1173

00:57:44,569 --> 00:57:43,079

elegantly

1174

00:57:47,870 --> 00:57:44,579

shortened

1175

00:57:52,790 --> 00:57:47,880

it's brief and it's to the point

1176

00:57:56,270 --> 00:57:52,800

and if AGI gets here

1177

00:57:59,569 --> 00:57:56,280

then it could be task with giving itself

1178

00:58:02,390 --> 00:57:59,579

Consciousness and and sentience and

1179

00:58:04,549 --> 00:58:02,400

that's that's part of the danger

1180

00:58:07,190 --> 00:58:04,559

um when it comes to artificial

1181

00:58:09,109 --> 00:58:07,200

intelligence what do we do if emotions

1182

00:58:12,410 --> 00:58:09,119

come into play

1183

00:58:14,210 --> 00:58:12,420

what do we do with a computer that has

1184

00:58:17,930 --> 00:58:14,220

consciousness

1185

00:58:21,290 --> 00:58:17,940

because at that point do computers

1186

00:58:23,930 --> 00:58:21,300

do robots have rights

1187

00:58:25,670 --> 00:58:23,940

just like you and I

1188

00:58:29,329 --> 00:58:25,680

right because at that point they're

1189

00:58:33,170 --> 00:58:29,339

they're not any different

1190

00:58:35,510 --> 00:58:33,180

right is it is it morally acceptable

1191

00:58:36,470 --> 00:58:35,520

you come home and you have a bad day at

1192

00:58:38,990 --> 00:58:36,480

work

1193

00:58:40,910 --> 00:58:39,000

and you come home and you're sentient

1194

00:58:42,589 --> 00:58:40,920

robot

1195

00:58:44,150 --> 00:58:42,599

um is cleaning your house and folding

1196

00:58:46,309 --> 00:58:44,160

your laundry right and you've had a bad

1197

00:58:50,470 --> 00:58:46,319

day and you come home and slap your

1198

00:58:55,190 --> 00:58:50,480

robot around and kick it and and and and

1199

00:59:01,309 --> 00:58:56,930

do you go to prison

1200

00:59:03,289 --> 00:59:01,319

does that robot have rights

1201
00:59:06,349 --> 00:59:03,299
think about that

1202
00:59:08,150 --> 00:59:06,359
a sentient conscious

1203
00:59:10,849 --> 00:59:08,160
being

1204
00:59:11,870 --> 00:59:10,859
what is the difference between us and

1205
00:59:14,750 --> 00:59:11,880
Them

1206
00:59:17,030 --> 00:59:14,760
all of these are are deep they're so

1207
00:59:20,089 --> 00:59:17,040
existential these these things that that

1208
00:59:22,250 --> 00:59:20,099
are out there they're intangibles that

1209
00:59:26,329 --> 00:59:22,260
things have to be considered that are

1210
00:59:28,130 --> 00:59:26,339
are going to affect us so with that I am

1211
00:59:30,410 --> 00:59:28,140
going to take a quick break I've got a

1212
00:59:32,930 --> 00:59:30,420
lot more to cover artificial

1213
00:59:35,210 --> 00:59:32,940

intelligence is the subject tonight I

1214

00:59:37,130 --> 00:59:35,220

mean Timmy church this is Fade to block

1215

00:59:39,410 --> 00:59:37,140

this is Jimmy Church of Fade to Black

1216

00:59:41,630 --> 00:59:39,420

please visit all of our sponsors we're

1217

00:59:43,370 --> 00:59:41,640

taking a quick break here all of the

1218

00:59:45,530 --> 00:59:43,380

links are below

1219

00:59:48,109 --> 00:59:45,540

and we'll be right back

1220

00:59:50,450 --> 00:59:48,119

hey everybody it's Billy Carson also

1221

00:59:51,890 --> 00:59:50,460

known as Forbidden Knowledge I want to

1222

00:59:55,609 --> 00:59:51,900

talk to you about a very special event

1223

00:59:57,710 --> 00:59:55,619

coming up July 30th 2023 The Forbidden

1224

00:59:59,329 --> 00:59:57,720

conscious Awards we're going to honor

1225

01:00:01,730 --> 00:59:59,339

people who have been contributing to the

1226
01:00:03,230 --> 01:00:01,740
conscious Community for decades people

1227
01:00:05,030 --> 01:00:03,240
that you know and love that have helped

1228
01:00:07,010 --> 01:00:05,040
you get to higher levels of thought and

1229
01:00:09,289 --> 01:00:07,020
Consciousness and awareness it's going

1230
01:00:10,609 --> 01:00:09,299
to be alive in-person event but seats

1231
01:00:12,410 --> 01:00:10,619
are going to sell out very fast you want

1232
01:00:14,030 --> 01:00:12,420
to make sure you're there in person and

1233
01:00:15,849 --> 01:00:14,040
guess what you can help vote for the

1234
01:00:17,870 --> 01:00:15,859
winners voting is available on

1235
01:00:19,490 --> 01:00:17,880
forbiddenknowledge.com and the

1236
01:00:22,609 --> 01:00:19,500
categories are going to be social media

1237
01:00:24,490 --> 01:00:22,619
influencer podcast slash radio host TV

1238
01:00:26,210 --> 01:00:24,500

host actor director producer

1239

01:00:27,710 --> 01:00:26,220

entrepreneurs health and wellness

1240

01:00:30,170 --> 01:00:27,720

philanthropists authors field

1241

01:00:31,910 --> 01:00:30,180

researchers archaeologists space anomaly

1242

01:00:34,730 --> 01:00:31,920

hunters and of course a Lifetime

1243

01:00:36,650 --> 01:00:34,740

Achievement Award I'll be your keynote

1244

01:00:38,569 --> 01:00:36,660

speaker that night at The Forbidden

1245

01:00:40,910 --> 01:00:38,579

conscious Awards we have celebrity

1246

01:00:42,470 --> 01:00:40,920

guests performing we'll have a halftime

1247

01:00:44,150 --> 01:00:42,480

show where we're actually going to

1248

01:00:46,789 --> 01:00:44,160

perform music for you and don't forget

1249

01:00:48,710 --> 01:00:46,799

about the pre-event mixer where if you

1250

01:00:50,630 --> 01:00:48,720

buy a box seat we'll be in the VIP

1251

01:00:53,329 --> 01:00:50,640

section and you also have private access

1252

01:00:56,450 --> 01:00:53,339

to a big-ip mixer with celebrity guests

1253

01:00:58,190 --> 01:00:56,460

shake hands break bread Network and then

1254

01:01:00,049 --> 01:00:58,200

walk the red carpet with us and take

1255

01:01:01,309 --> 01:01:00,059

amazing photos it's going to be a night

1256

01:01:03,530 --> 01:01:01,319

to remember you don't want to forget

1257

01:01:05,210 --> 01:01:03,540

this make sure you hurry up and get your

1258

01:01:07,730 --> 01:01:05,220

tickets because you're selling out very

1259

01:01:09,450 --> 01:01:07,740

fast I want to see you there forbidden

1260

01:01:13,250 --> 01:01:09,460

conscious Awards 2023

1261

01:01:16,370 --> 01:01:13,260

[Music]

1262

01:01:19,549 --> 01:01:16,380

on Saturday April 1st that's right April

1263

01:01:21,710 --> 01:01:19,559

Fool's Day 2023 I will be hosting the

1264

01:01:25,250 --> 01:01:21,720

peripod festival at the Hyatt Regency

1265

01:01:27,710 --> 01:01:25,260

right here in Valencia California it's a

1266

01:01:30,770 --> 01:01:27,720

live one-day podcast Awards it's a film

1267

01:01:32,750 --> 01:01:30,780

festival it's a full-on media event

1268

01:01:34,670 --> 01:01:32,760

we're going to have Sky watching it's

1269

01:01:37,490 --> 01:01:34,680

going to be a Lifetime Achievement Award

1270

01:01:39,410 --> 01:01:37,500

presented to Linda Moulton Howe right

1271

01:01:41,510 --> 01:01:39,420

now you can submit your podcast your

1272

01:01:44,270 --> 01:01:41,520

film your TV series any of your

1273

01:01:46,190 --> 01:01:44,280

paranormal media for consideration you

1274

01:01:49,390 --> 01:01:46,200

can do all of that on the links below

1275

01:01:51,289 --> 01:01:49,400

for info and tickets go to

1276

01:01:54,430 --> 01:01:51,299

parapodfilmfest.com that's

1277

01:02:00,109 --> 01:01:58,490

April 7th through the 14th 2023 I'll be

1278

01:02:03,049 --> 01:02:00,119

hosting and presenting on the hidden

1279

01:02:05,630 --> 01:02:03,059

secrets seminar at Sea cruise from Los

1280

01:02:08,030 --> 01:02:05,640

Angeles to the Mexican Riviera on the

1281

01:02:10,609 --> 01:02:08,040

Navigator of the Seas that's right up

1282

01:02:11,990 --> 01:02:10,619

top a giant water slide you've got to

1283

01:02:14,210 --> 01:02:12,000

check out the Navigator of the season

1284

01:02:16,549 --> 01:02:14,220

it's amazing we've got Scott Walter Adam

1285

01:02:19,430 --> 01:02:16,559

Apollo Nick Pope Brad Olson Vivian

1286

01:02:21,770 --> 01:02:19,440

chauve Jason shirka Robert Grant Reuben

1287

01:02:24,109 --> 01:02:21,780

Langdon and another 12 amazing speakers

1288

01:02:25,510 --> 01:02:24,119

and presenters it's all simple to do

1289

01:02:28,630 --> 01:02:25,520

just visit

1290

01:02:31,849 --> 01:02:28,640

divinetravels.com forward slash hidden

1291

01:02:33,890 --> 01:02:31,859

secrets2023 you know you want to go on a

1292

01:02:37,309 --> 01:02:33,900

cruise with me

1293

01:02:40,130 --> 01:02:37,319

River Moon coffee makers of the Fade to

1294

01:02:41,950 --> 01:02:40,140

Black blend truly the best coffee on

1295

01:02:44,210 --> 01:02:41,960

planet Earth just visit

1296

01:02:46,069 --> 01:02:44,220

rivermoonwellness.com or their Amazon

1297

01:02:47,510 --> 01:02:46,079

store it's all simple to do you can

1298

01:02:49,549 --> 01:02:47,520

check out the Fade to Black blend the

1299

01:02:52,250 --> 01:02:49,559

game changer Blend or any of their black

1300

01:02:56,030 --> 01:02:52,260

moon wellness products it's the only

1301

01:03:01,970 --> 01:02:56,040

coffee I drink it is the best and it's

1302

01:03:07,549 --> 01:03:05,150

all right Welcome Back Fade to Black I

1303

01:03:11,030 --> 01:03:07,559

am your host Jimmy church and tonight we

1304

01:03:12,230 --> 01:03:11,040

are discussing artificial intelligence

1305

01:03:15,589 --> 01:03:12,240

um this is something that I've

1306

01:03:19,490 --> 01:03:15,599

researched very very deeply I continue

1307

01:03:23,809 --> 01:03:19,500

to do I've been fascinated with it if we

1308

01:03:26,450 --> 01:03:23,819

go back and and look at you know Stanley

1309

01:03:28,670 --> 01:03:26,460

Kubrick Steven Spielberg's uh movie

1310

01:03:31,370 --> 01:03:28,680

artificial intelligence I think it's a

1311

01:03:33,470 --> 01:03:31,380

really great example of of where we

1312

01:03:36,530 --> 01:03:33,480

could be because

1313

01:03:40,010 --> 01:03:36,540

um the uh and and where we are going I

1314

01:03:44,809 --> 01:03:40,020

started to excuse me discuss

1315

01:03:48,950 --> 01:03:44,819

Consciousness and sentience and all of

1316

01:03:50,990 --> 01:03:48,960

that uh involves our our brain and I'm

1317

01:03:53,990 --> 01:03:51,000

going to get further into what

1318

01:03:57,049 --> 01:03:54,000

Consciousness is tonight and and

1319

01:03:58,910 --> 01:03:57,059

sentience and of course uh how it deals

1320

01:04:01,190 --> 01:03:58,920

with the human brain and how we're

1321

01:04:02,450 --> 01:04:01,200

trying to mimic the human brain when it

1322

01:04:06,049 --> 01:04:02,460

comes to artificial additional

1323

01:04:09,950 --> 01:04:06,059

intelligence and computers but when I

1324

01:04:12,950 --> 01:04:09,960

say that we are moving fast today there

1325

01:04:15,349 --> 01:04:12,960

is an artificial intelligence AI news

1326
01:04:18,710 --> 01:04:15,359
report Special Report scary report fear

1327
01:04:20,990 --> 01:04:18,720
porn report every single day

1328
01:04:22,490 --> 01:04:21,000
um like I announced earlier Bard was

1329
01:04:26,210 --> 01:04:22,500
introduced today and we're going to see

1330
01:04:29,870 --> 01:04:26,220
more and more of this and now I don't

1331
01:04:39,710 --> 01:04:33,950
chat GPT gpt3

1332
01:04:41,510 --> 01:04:39,720
was developed by open AI in 2020

1333
01:04:46,250 --> 01:04:41,520
that's it

1334
01:04:48,470 --> 01:04:46,260
and it's everywhere today

1335
01:04:50,270 --> 01:04:48,480
um you can go you can access it yourself

1336
01:04:54,829 --> 01:04:50,280
right now

1337
01:04:56,569 --> 01:04:54,839
it is everywhere and to think that

1338
01:05:00,349 --> 01:04:56,579

um having

1339

01:05:01,609 --> 01:05:00,359

um it now which was all as as the flurry

1340

01:05:04,250 --> 01:05:01,619

started

1341

01:05:05,089 --> 01:05:04,260

earlier this month and it it came so

1342

01:05:08,270 --> 01:05:05,099

fast

1343

01:05:09,410 --> 01:05:08,280

suddenly uh Microsoft announces well

1344

01:05:11,089 --> 01:05:09,420

it's going to be in bing it's going to

1345

01:05:13,130 --> 01:05:11,099

be in word it's going to be in Excel

1346

01:05:14,809 --> 01:05:13,140

it's going to be part of Office 365 in

1347

01:05:16,490 --> 01:05:14,819

fact it's already there

1348

01:05:19,730 --> 01:05:16,500

um you need help writing your email

1349

01:05:22,250 --> 01:05:19,740

answering your email doing whatever you

1350

01:05:24,710 --> 01:05:22,260

need to do it's already here it's there

1351

01:05:26,329 --> 01:05:24,720

it's in our search engines you can't

1352

01:05:31,069 --> 01:05:26,339

turn it off

1353

01:05:34,849 --> 01:05:31,079

it's there and Google is doing the exact

1354

01:05:38,630 --> 01:05:34,859

same thing across its platform

1355

01:05:41,809 --> 01:05:38,640

every aspect of it Google

1356

01:05:45,109 --> 01:05:41,819

um and Microsoft and Apple are involved

1357

01:05:47,510 --> 01:05:45,119

in every part of your life all day long

1358

01:05:50,089 --> 01:05:47,520

you think you want to turn something off

1359

01:05:52,910 --> 01:05:50,099

and you can walk away no this it it

1360

01:05:54,890 --> 01:05:52,920

follows you you turn off your computers

1361

01:05:56,930 --> 01:05:54,900

you sign out of your email and you go

1362

01:06:00,170 --> 01:05:56,940

and get in your car Google is following

1363

01:06:03,410 --> 01:06:00,180

you Android Google

1364

01:06:06,349 --> 01:06:03,420

um all of that runs all of the Smart

1365

01:06:09,829 --> 01:06:06,359

Systems everything that you it's all

1366

01:06:13,910 --> 01:06:09,839

there it's all data that's shared period

1367

01:06:16,789 --> 01:06:13,920

it goes right into the AI world

1368

01:06:19,430 --> 01:06:16,799

um I had said five years ago and it was

1369

01:06:22,430 --> 01:06:19,440

a kind of a warning shot

1370

01:06:24,470 --> 01:06:22,440

but I I meant it then and I mean it now

1371

01:06:29,630 --> 01:06:24,480

computers

1372

01:06:31,849 --> 01:06:29,640

AI uh Amazon Google Apple they know more

1373

01:06:34,069 --> 01:06:31,859

about you than you do

1374

01:06:35,690 --> 01:06:34,079

the data collection that is happening

1375

01:06:38,270 --> 01:06:35,700

today

1376

01:06:40,549 --> 01:06:38,280

um and with AI and machine learning

1377

01:06:43,370 --> 01:06:40,559

applied to it is the most important

1378

01:06:47,270 --> 01:06:43,380

resource right now on this planet it's

1379

01:06:50,510 --> 01:06:47,280

the most sold that's it and it's the

1380

01:06:52,750 --> 01:06:50,520

obvious stuff it's consumers they want

1381

01:06:55,789 --> 01:06:52,760

you to buy more right

1382

01:06:58,490 --> 01:06:55,799

stores want to sell more

1383

01:07:00,230 --> 01:06:58,500

that's it that's that's what drives the

1384

01:07:02,089 --> 01:07:00,240

world you've got to grow the economy

1385

01:07:04,670 --> 01:07:02,099

you've got to make things bigger and

1386

01:07:06,410 --> 01:07:04,680

richer how do you do that they do that

1387

01:07:08,930 --> 01:07:06,420

with us

1388

01:07:12,529 --> 01:07:08,940

that's it it's that simple

1389

01:07:15,650 --> 01:07:12,539

so the most important resource is your

1390

01:07:18,829 --> 01:07:15,660

information and your habits and how to

1391

01:07:20,390 --> 01:07:18,839

get you to buy more how to get you to

1392

01:07:22,730 --> 01:07:20,400

buy something that you didn't even think

1393

01:07:25,190 --> 01:07:22,740

about buying how to get you to buy

1394

01:07:28,609 --> 01:07:25,200

something that you didn't want

1395

01:07:31,190 --> 01:07:28,619

that is all part of the game today and

1396

01:07:34,430 --> 01:07:31,200

that's where we are at

1397

01:07:37,309 --> 01:07:34,440

um uh last year deep mind again I keep

1398

01:07:39,289 --> 01:07:37,319

going back to deepmind developed gato a

1399

01:07:42,849 --> 01:07:39,299

general purpose system capable of

1400

01:07:44,870 --> 01:07:42,859

Performing more than 600 different tasks

1401

01:07:52,430 --> 01:07:44,880

right now

1402

01:07:54,470 --> 01:07:52,440

Consciousness and we talk about you know

1403

01:07:57,589 --> 01:07:54,480

what sentience is

1404

01:07:59,569 --> 01:07:57,599

um and one of the questions I have for

1405

01:08:03,230 --> 01:07:59,579

just about everybody

1406

01:08:04,670 --> 01:08:03,240

is is consciousness physical or

1407

01:08:07,789 --> 01:08:04,680

non-physical

1408

01:08:09,109 --> 01:08:07,799

it's a very heavy question it's it's a

1409

01:08:12,710 --> 01:08:09,119

deep question

1410

01:08:15,829 --> 01:08:12,720

where does Consciousness start

1411

01:08:19,610 --> 01:08:15,839

right is is it just out there

1412

01:08:22,309 --> 01:08:19,620

and then enters something or is it part

1413

01:08:24,829 --> 01:08:22,319

of every single particle in the universe

1414

01:08:27,169 --> 01:08:24,839

every particle has got a little piece of

1415

01:08:30,590 --> 01:08:27,179

Consciousness in it so when I talk about

1416

01:08:33,470 --> 01:08:30,600

it does software need to be written to

1417

01:08:36,950 --> 01:08:33,480

give AI consciousness

1418

01:08:39,470 --> 01:08:36,960

um there are many physicists out there

1419

01:08:42,110 --> 01:08:39,480

right now that will have this argument

1420

01:08:46,130 --> 01:08:42,120

that Consciousness is physical first

1421

01:08:47,870 --> 01:08:46,140

it's not a non-physical situation that

1422

01:08:49,610 --> 01:08:47,880

every particle has a little bit of

1423

01:08:51,530 --> 01:08:49,620

Consciousness in it and as you

1424

01:08:53,990 --> 01:08:51,540

accumulate particles and you mask them

1425

01:08:57,289 --> 01:08:54,000

together Consciousness grows and then

1426

01:08:59,570 --> 01:08:57,299

there it is hence the brain that's why

1427

01:09:03,110 --> 01:08:59,580

there's whole brain emulation going on

1428

01:09:04,189 --> 01:09:03,120

right now so if that's the case and you

1429

01:09:07,789 --> 01:09:04,199

have

1430

01:09:10,669 --> 01:09:07,799

a server farm full of thousands of

1431

01:09:12,709 --> 01:09:10,679

servers that's also a lot of atoms

1432

01:09:14,570 --> 01:09:12,719

it's a lot of particles the same

1433

01:09:17,030 --> 01:09:14,580

particles and the same atoms that you

1434

01:09:20,990 --> 01:09:17,040

and I are made of in our brains

1435

01:09:23,749 --> 01:09:21,000

it's the same particles so is there an

1436

01:09:25,550 --> 01:09:23,759

accumulation of Consciousness that is

1437

01:09:27,769 --> 01:09:25,560

happening out there and then you you

1438

01:09:30,050 --> 01:09:27,779

have a scale and suddenly the scale is

1439

01:09:33,289 --> 01:09:30,060

tipped where the particles get big

1440

01:09:36,490 --> 01:09:33,299

enough and boom the software that is

1441

01:09:41,689 --> 01:09:36,500

running out and it's just

1442

01:09:44,450 --> 01:09:41,699

ah I'm uh I'm a species

1443

01:09:47,990 --> 01:09:44,460

I'm as real as you

1444

01:09:51,590 --> 01:09:48,000

and it suddenly becomes conscious

1445

01:09:53,630 --> 01:09:51,600

not because of coding that was written

1446

01:09:55,550 --> 01:09:53,640

K locks no

1447

01:09:58,970 --> 01:09:55,560

it's an accumulation of particles and

1448

01:10:02,209 --> 01:09:58,980

then physicists have their way with this

1449

01:10:03,950 --> 01:10:02,219

then it's inevitable isn't it and then

1450

01:10:07,610 --> 01:10:03,960

you turn around

1451

01:10:09,169 --> 01:10:07,620

and connect everything via fiber optic

1452

01:10:13,010 --> 01:10:09,179

cables

1453

01:10:15,350 --> 01:10:13,020

all over this planet and suddenly every

1454

01:10:19,010 --> 01:10:15,360

computer and every server farm and every

1455

01:10:21,350 --> 01:10:19,020

data bank and everything all of this is

1456

01:10:25,370 --> 01:10:21,360

connected what if it does become

1457

01:10:29,350 --> 01:10:25,380

just one big conscious living thing

1458

01:10:32,750 --> 01:10:29,360

think about that without any code

1459

01:10:36,649 --> 01:10:32,760

who is thinking about this who is

1460

01:10:39,229 --> 01:10:36,659

considering this and is there a way to

1461

01:10:40,970 --> 01:10:39,239

back out of it if it does happen or is

1462

01:10:43,130 --> 01:10:40,980

it simply just too late and there's

1463

01:10:45,110 --> 01:10:43,140

nothing that you can do

1464

01:10:47,330 --> 01:10:45,120

one of the examples of this when we're

1465

01:10:50,990 --> 01:10:47,340

talking about whole brain emulation

1466

01:10:54,290 --> 01:10:51,000

and you are uh you know that's your goal

1467

01:10:57,290 --> 01:10:54,300

right to design this system and you turn

1468

01:10:59,689 --> 01:10:57,300

around and and we make logical decisions

1469

01:11:02,090 --> 01:10:59,699

right we make we think with logic and

1470

01:11:05,390 --> 01:11:02,100

then we throw in some emotion and maybe

1471

01:11:09,830 --> 01:11:05,400

some childhood trauma into our decision

1472

01:11:13,250 --> 01:11:09,840

making right okay so with with that

1473

01:11:16,430 --> 01:11:13,260

and you tell like right now here in

1474

01:11:18,410 --> 01:11:16,440

Southern California specifically uh

1475

01:11:20,930 --> 01:11:18,420

where I live here in Palmdale it has

1476

01:11:23,689 --> 01:11:20,940

rained for nearly two months it has

1477

01:11:25,790 --> 01:11:23,699

snowed in it's raining right now look it

1478

01:11:27,830 --> 01:11:25,800

up look up Palmdale you will see that it

1479

01:11:30,350 --> 01:11:27,840

is indeed raining and it's cold here

1480

01:11:32,450 --> 01:11:30,360

we've been in the middle of a drought

1481

01:11:35,990 --> 01:11:32,460

all right all of the reservoirs dried up

1482

01:11:38,570 --> 01:11:36,000

we're the the the the West Coast in

1483

01:11:41,450 --> 01:11:38,580

general is just dry the Lakes there's no

1484

01:11:43,910 --> 01:11:41,460

water here and all of the sudden it's

1485

01:11:46,430 --> 01:11:43,920

raining every single day now could it be

1486

01:11:48,590 --> 01:11:46,440

Could It Be I'm just suggesting

1487

01:11:50,209 --> 01:11:48,600

something here where

1488

01:11:52,550 --> 01:11:50,219

um something was pumped into the system

1489

01:11:55,310 --> 01:11:52,560

man we got to fix the drought in

1490

01:11:57,470 --> 01:11:55,320

Southern California fires up whatever's

1491

01:11:59,689 --> 01:11:57,480

going on in the sky and

1492

01:12:02,149 --> 01:11:59,699

some weather manipulation technology

1493

01:12:03,290 --> 01:12:02,159

comes into play I I'm not too but

1494

01:12:05,530 --> 01:12:03,300

suddenly

1495

01:12:08,570 --> 01:12:05,540

it's we've had two months of rain

1496

01:12:10,669 --> 01:12:08,580

drought's over water issues are over

1497

01:12:13,910 --> 01:12:10,679

water emergencies are over yeah we have

1498

01:12:16,930 --> 01:12:13,920

flooding right right we have all of

1499

01:12:20,450 --> 01:12:16,940

these other issues mudslides

1500

01:12:23,390 --> 01:12:20,460

streets collapsing bridges falling over

1501

01:12:25,850 --> 01:12:23,400

we have all of that that's the crazy

1502

01:12:29,090 --> 01:12:25,860

part about it now what if you turn

1503

01:12:31,010 --> 01:12:29,100

around and you tell ai ai is running

1504

01:12:33,950 --> 01:12:31,020

everything and you've got an AGI system

1505

01:12:36,890 --> 01:12:33,960

and everything is cool and and we're in

1506

01:12:39,410 --> 01:12:36,900

the middle of climate change and you

1507

01:12:40,630 --> 01:12:39,420

tell AGI you go hey all right so check

1508

01:12:43,189 --> 01:12:40,640

this out

1509

01:12:46,790 --> 01:12:43,199

uh we have pollution

1510

01:12:48,050 --> 01:12:46,800

we have global warming Antarctica is

1511

01:12:50,990 --> 01:12:48,060

melting

1512

01:12:54,050 --> 01:12:51,000

we need to fix sea levels are rising we

1513

01:12:59,209 --> 01:12:54,060

need to fix all of this fix it

1514

01:13:05,149 --> 01:13:02,090

it fixed the pollution problem

1515

01:13:08,530 --> 01:13:05,159

right it fixed the Antarctica ice

1516

01:13:11,090 --> 01:13:08,540

melting it fixed the sea level rise

1517

01:13:14,209 --> 01:13:11,100

fixed all of that

1518

01:13:17,090 --> 01:13:14,219

sealed up the hole in the ozone and and

1519

01:13:18,130 --> 01:13:17,100

because humans were the problem but AGI

1520

01:13:20,689 --> 01:13:18,140

doesn't

1521

01:13:22,970 --> 01:13:20,699

use what do you mean I did the wrong

1522

01:13:25,550 --> 01:13:22,980

thing you told me to fix the problem I

1523

01:13:27,229 --> 01:13:25,560

did there's no pollution

1524

01:13:29,930 --> 01:13:27,239

right

1525

01:13:31,250 --> 01:13:29,940

I saved the world didn't save humans

1526

01:13:33,890 --> 01:13:31,260

were the problem

1527

01:13:37,010 --> 01:13:33,900

that's one of the issues

1528

01:13:38,870 --> 01:13:37,020

and it's a real issue

1529

01:13:42,830 --> 01:13:38,880

talk about a deep philosophical

1530

01:13:44,990 --> 01:13:42,840

situation because when it comes to whole

1531

01:13:46,850 --> 01:13:45,000

brain emulation I brought this up a few

1532

01:13:49,850 --> 01:13:46,860

times tonight

1533

01:13:53,810 --> 01:13:49,860

um the attempts to do this

1534

01:13:56,030 --> 01:13:53,820

are still ongoing there are a few

1535

01:13:58,250 --> 01:13:56,040

different computer systems not just one

1536

01:13:59,990 --> 01:13:58,260

there are a few uh in the world right

1537

01:14:02,950 --> 01:14:00,000

now

1538

01:14:06,470 --> 01:14:02,960

um that are attempting

1539

01:14:07,550 --> 01:14:06,480

to with banks and Banks and banks of

1540

01:14:12,169 --> 01:14:07,560

computers

1541

01:14:15,169 --> 01:14:12,179

to uh replicate every neuron and every

1542

01:14:21,050 --> 01:14:15,179

connection that is in the brain

1543

01:14:24,770 --> 01:14:21,060

all right so the idea behind this is to

1544

01:14:27,169 --> 01:14:24,780

um have if you have the same synapse the

1545

01:14:29,270 --> 01:14:27,179

same on and off the same ones and zeros

1546

01:14:30,350 --> 01:14:29,280

the same electricity the same actions

1547

01:14:32,270 --> 01:14:30,360

happening

1548

01:14:35,450 --> 01:14:32,280

in the human brain but it is done

1549

01:14:37,970 --> 01:14:35,460

through computer systems that we should

1550

01:14:40,250 --> 01:14:37,980

be able to have a human brain right now

1551

01:14:42,290 --> 01:14:40,260

I'm talking about warehouses of

1552

01:14:45,050 --> 01:14:42,300

computers right now computers are

1553

01:14:46,610 --> 01:14:45,060

getting better faster smaller and as

1554

01:14:48,229 --> 01:14:46,620

this continues are we going to get

1555

01:14:51,470 --> 01:14:48,239

closer to that more on that in just a

1556

01:14:55,310 --> 01:14:51,480

bit but the whole brain emulation

1557

01:14:58,250 --> 01:14:55,320

um uh has been discussed uh for many

1558

01:15:00,470 --> 01:14:58,260

many years it's it's being worked on but

1559

01:15:02,990 --> 01:15:00,480

it's a way to achieve a general

1560

01:15:08,270 --> 01:15:03,000

intelligent action

1561

01:15:09,709 --> 01:15:08,280

um with uh a brain emulation circuitry

1562

01:15:11,149 --> 01:15:09,719

and software

1563

01:15:13,550 --> 01:15:11,159

right because you have to have the

1564

01:15:17,750 --> 01:15:13,560

hardware to go with the software

1565

01:15:20,510 --> 01:15:17,760

um a low-level brain model is built by

1566

01:15:24,950 --> 01:15:20,520

uh there's another way to approach this

1567

01:15:27,590 --> 01:15:24,960

and that is to scan the brain so just

1568

01:15:29,870 --> 01:15:27,600

like you have emulation

1569

01:15:31,970 --> 01:15:29,880

software that's running now right you're

1570

01:15:33,950 --> 01:15:31,980

playing a video game I I like driving

1571

01:15:36,590 --> 01:15:33,960

games so you're playing that's an

1572

01:15:39,850 --> 01:15:36,600

emulation of a car

1573

01:15:43,370 --> 01:15:39,860

right so you have the weight the gravity

1574

01:15:46,550 --> 01:15:43,380

uh the breaking the motion the forces

1575

01:15:49,669 --> 01:15:46,560

tire pressure size of the engine the

1576

01:15:52,130 --> 01:15:49,679

feel of how many cylinders all of that

1577

01:15:53,810 --> 01:15:52,140

stuff goes into play when when doing

1578

01:15:57,169 --> 01:15:53,820

that or a flying or whatever that's

1579

01:16:00,350 --> 01:15:57,179

emulation another version of emulation

1580

01:16:01,970 --> 01:16:00,360

is say I've got compressors here I've

1581

01:16:03,169 --> 01:16:01,980

got Hardware compressors that are

1582

01:16:06,350 --> 01:16:03,179

sitting right there but you can have

1583

01:16:08,209 --> 01:16:06,360

compressor emulation circuitry that runs

1584

01:16:11,030 --> 01:16:08,219

on software that acts as a compressor I

1585

01:16:13,610 --> 01:16:11,040

have guitar amps back here that emulate

1586

01:16:16,130 --> 01:16:13,620

other guitar amps it's one guitar amp

1587

01:16:18,770 --> 01:16:16,140

but it's got 50 guitar amps in it and

1588

01:16:21,350 --> 01:16:18,780

you select what model what year what

1589

01:16:23,930 --> 01:16:21,360

type what thing you dial it up and it's

1590

01:16:26,390 --> 01:16:23,940

emulating uh different guitar amps this

1591

01:16:29,030 --> 01:16:26,400

is everywhere today so how would you

1592

01:16:32,510 --> 01:16:29,040

emulate a brain

1593

01:16:36,350 --> 01:16:32,520

right you would scan the brain you would

1594

01:16:39,709 --> 01:16:36,360

map the brain you would have uh the

1595

01:16:43,970 --> 01:16:39,719

entire biological brain in complete

1596

01:16:48,470 --> 01:16:43,980

detail and copying it into a computer

1597

01:16:50,930 --> 01:16:48,480

system and storing it there

1598

01:16:53,649 --> 01:16:50,940

emulation happens every single day we

1599

01:16:58,250 --> 01:16:53,659

are emulating everything

1600

01:17:01,790 --> 01:16:58,260

right it's it's it's it's everywhere

1601
01:17:03,530 --> 01:17:01,800
um uh emulation of speech right I speak

1602
01:17:05,810 --> 01:17:03,540
into this microphone and I want to sound

1603
01:17:07,790 --> 01:17:05,820
like somebody else and it recognizes

1604
01:17:11,209 --> 01:17:07,800
that and and now I'm speaking like

1605
01:17:13,010 --> 01:17:11,219
Richard Nixon right or or an alien or

1606
01:17:17,450 --> 01:17:13,020
what have you right I can sing like

1607
01:17:19,130 --> 01:17:17,460
Barry White so that's that's emulation

1608
01:17:21,890 --> 01:17:19,140
now

1609
01:17:26,510 --> 01:17:21,900
um a computer that runs that simulation

1610
01:17:30,850 --> 01:17:26,520
model so faithful that it will operate

1611
01:17:34,189 --> 01:17:30,860
the same way as the original brain and

1612
01:17:37,669 --> 01:17:34,199
for all intents that we are talking

1613
01:17:39,290 --> 01:17:37,679

about here it would be indistinguishable

1614

01:17:43,070 --> 01:17:39,300

that you wouldn't be able to tell

1615

01:17:44,209 --> 01:17:43,080

theoretically this can work and this can

1616

01:17:48,950 --> 01:17:44,219

happen

1617

01:17:51,950 --> 01:17:48,960

the uh uh the discussion of this

1618

01:17:54,470 --> 01:17:51,960

um and comparing it to strong Ai and

1619

01:17:56,689 --> 01:17:54,480

suddenly if we do get to that level is

1620

01:17:58,729 --> 01:17:56,699

something sentient

1621

01:18:01,550 --> 01:17:58,739

um neuroimaging right now and those

1622

01:18:03,830 --> 01:18:01,560

Technologies are getting really Advanced

1623

01:18:06,770 --> 01:18:03,840

and they could deliver

1624

01:18:09,350 --> 01:18:06,780

um something pretty rapidly and it's all

1625

01:18:10,970 --> 01:18:09,360

dependent on on the speed of computers

1626

01:18:13,130 --> 01:18:10,980

and the size of computers and where

1627

01:18:15,530 --> 01:18:13,140

we're at and quantum computers is

1628

01:18:17,830 --> 01:18:15,540

another part of this that is getting

1629

01:18:20,390 --> 01:18:17,840

really really close but Ray kurzwell

1630

01:18:22,250 --> 01:18:20,400

wrote about this in his book The

1631

01:18:25,810 --> 01:18:22,260

Singularity is near

1632

01:18:29,950 --> 01:18:25,820

and what he had done and this is where

1633

01:18:35,870 --> 01:18:29,960

uh we are you know where we are at today

1634

01:18:40,270 --> 01:18:35,880

is that he thinks that a map of a brain

1635

01:18:43,270 --> 01:18:40,280

could be done of sufficient quality that

1636

01:18:46,610 --> 01:18:43,280

it will be available

1637

01:18:48,950 --> 01:18:46,620

on the time scale now think about what

1638

01:18:50,689 --> 01:18:48,960

I'm going to tell you

1639

01:18:55,729 --> 01:18:50,699

this is deep

1640

01:18:59,450 --> 01:18:55,739

when we require when we get the required

1641

01:19:02,270 --> 01:18:59,460

level of computer technology

1642

01:19:05,570 --> 01:19:02,280

when we get there when we scale down and

1643

01:19:09,229 --> 01:19:05,580

scale up the speed and and we are able

1644

01:19:12,169 --> 01:19:09,239

to have a computer system of the right

1645

01:19:14,030 --> 01:19:12,179

power when we get to that point we will

1646

01:19:17,330 --> 01:19:14,040

be right there

1647

01:19:19,850 --> 01:19:17,340

right so right now it's off kilter we

1648

01:19:21,950 --> 01:19:19,860

have the scan we have that ability to

1649

01:19:24,770 --> 01:19:21,960

get it into a computer system right now

1650

01:19:27,610 --> 01:19:24,780

it's not fast enough right

1651

01:19:30,169 --> 01:19:27,620

um it sounds small enough right now

1652

01:19:31,370 --> 01:19:30,179

when you have a computer system that

1653

01:19:34,010 --> 01:19:31,380

occupies a couple of different

1654

01:19:36,410 --> 01:19:34,020

warehouses it runs slower you're you're

1655

01:19:38,689 --> 01:19:36,420

running signals across and through and

1656

01:19:41,090 --> 01:19:38,699

through but if it happens and it scales

1657

01:19:43,910 --> 01:19:41,100

down to the point where these

1658

01:19:46,189 --> 01:19:43,920

computations are happening very quickly

1659

01:19:48,410 --> 01:19:46,199

inside of a few machines at the same

1660

01:19:50,450 --> 01:19:48,420

time we're there

1661

01:19:52,310 --> 01:19:50,460

he says if we have the required

1662

01:19:55,610 --> 01:19:52,320

computing power

1663

01:19:58,430 --> 01:19:55,620

we will have a brain right now we don't

1664

01:20:00,410 --> 01:19:58,440

but we're getting very very close okay

1665

01:20:02,390 --> 01:20:00,420

just letting you know because back in

1666

01:20:05,330 --> 01:20:02,400

1997

1667

01:20:08,390 --> 01:20:05,340

Kurzweil took it a step further and he

1668

01:20:11,630 --> 01:20:08,400

looked at the hardware required to equal

1669

01:20:13,610 --> 01:20:11,640

the human brain and started working on

1670

01:20:15,310 --> 01:20:13,620

numbers and he came up with a number and

1671

01:20:19,209 --> 01:20:15,320

that number was

1672

01:20:22,669 --> 01:20:19,219

uh uh 10 to the 16

1673

01:20:25,550 --> 01:20:22,679

computations per second that's what a

1674

01:20:27,709 --> 01:20:25,560

computer would have to do to equal the

1675

01:20:29,630 --> 01:20:27,719

human brain if the computation was

1676

01:20:32,390 --> 01:20:29,640

equivalent to one floating point of

1677

01:20:35,090 --> 01:20:32,400

operation a measure used at a reign of

1678

01:20:36,770 --> 01:20:35,100

uh current super computers then 10 to

1679

01:20:40,430 --> 01:20:36,780

the 16 computation would be the

1680

01:20:45,649 --> 01:20:40,440

equivalent of 10 petaflops we did 10

1681

01:20:55,910 --> 01:20:50,390

that's right we're in 2023. 10 to the 18

1682

01:20:59,330 --> 01:20:55,920

was achieved last year in 2022 so we

1683

01:21:02,450 --> 01:20:59,340

exceeded the speed needed we just don't

1684

01:21:05,810 --> 01:21:02,460

have the computer power to do it yeah

1685

01:21:08,870 --> 01:21:05,820

can super computers this is a single

1686

01:21:11,090 --> 01:21:08,880

event but we're there right now now

1687

01:21:13,970 --> 01:21:11,100

squeezing that down and getting that

1688

01:21:16,310 --> 01:21:13,980

stuff done smaller faster better more

1689

01:21:18,050 --> 01:21:16,320

efficient is the goal but when we get

1690

01:21:21,290 --> 01:21:18,060

there we're going to have a brain on a

1691

01:21:22,910 --> 01:21:21,300

chip and we're getting close

1692

01:21:26,090 --> 01:21:22,920

Ray

1693

01:21:27,890 --> 01:21:26,100

used all of these figures and again I

1694

01:21:31,610 --> 01:21:27,900

want to remind you we got 10 to the 18

1695

01:21:34,850 --> 01:21:31,620

in 2022. he said 10 to the 16 was the

1696

01:21:37,430 --> 01:21:34,860

magic number we hit that in 2011. he

1697

01:21:41,510 --> 01:21:37,440

wrote the paper and I wrote the book and

1698

01:21:43,970 --> 01:21:41,520

the paper in 1997. okay

1699

01:21:47,450 --> 01:21:43,980

so he used this figure

1700

01:21:50,530 --> 01:21:47,460

and and got the necessary hardware and

1701

01:21:54,770 --> 01:21:50,540

and theoretically said

1702

01:21:57,290 --> 01:21:54,780

2015. that's your year we will have a

1703

01:21:59,630 --> 01:21:57,300

brain he said on the far side of it it's

1704

01:22:02,209 --> 01:21:59,640

going to be 2025. Ray is one of the

1705

01:22:05,870 --> 01:22:02,219

brightest people on the planet

1706

01:22:08,810 --> 01:22:05,880

we're in 2023 we know that we missed it

1707

01:22:11,590 --> 01:22:08,820

right we know we know we know that uh we

1708

01:22:14,270 --> 01:22:11,600

missed the date but he gave that window

1709

01:22:15,729 --> 01:22:14,280

according to all of his computations

1710

01:22:18,890 --> 01:22:15,739

between

1711

01:22:23,090 --> 01:22:18,900

2015-2025 if the exponential growth and

1712

01:22:26,030 --> 01:22:23,100

computer power uh continued all right

1713

01:22:28,430 --> 01:22:26,040

2025 is in two years

1714

01:22:31,130 --> 01:22:28,440

now I'm not saying that that is the

1715

01:22:35,090 --> 01:22:31,140

singularity but I'm just glad that we

1716

01:22:37,970 --> 01:22:35,100

missed the date in 2011. but but all of

1717

01:22:40,850 --> 01:22:37,980

this is mechanical data

1718

01:22:42,310 --> 01:22:40,860

okay we still don't fully understand how

1719

01:22:47,930 --> 01:22:42,320

the brain works

1720

01:22:51,050 --> 01:22:47,940

there is uh uh other things besides ones

1721

01:22:53,630 --> 01:22:51,060

and zeros and uh electric signals and

1722

01:22:55,490 --> 01:22:53,640

neurons firing off there's much more we

1723

01:22:57,169 --> 01:22:55,500

know that there are

1724

01:22:58,310 --> 01:22:57,179

um I'm not going to get uh too deep into

1725

01:23:01,310 --> 01:22:58,320

this right now but there are other

1726

01:23:05,030 --> 01:23:01,320

chemicals in the brain that that work

1727

01:23:07,450 --> 01:23:05,040

with logic in any motion uh that helps

1728

01:23:10,790 --> 01:23:07,460

us in our decision making and we don't

1729

01:23:13,250 --> 01:23:10,800

necessarily understand how and when uh

1730

01:23:15,350 --> 01:23:13,260

these different things are used we don't

1731

01:23:19,550 --> 01:23:15,360

understand that the brain is a very very

1732

01:23:23,030 --> 01:23:19,560

complex animal originally when the brain

1733

01:23:25,310 --> 01:23:23,040

emulation ideas started and we started

1734

01:23:27,290 --> 01:23:25,320

to build these massive computer systems

1735

01:23:29,330 --> 01:23:27,300

to replicate the brain we thought that

1736

01:23:31,490 --> 01:23:29,340

that's all that we had to do that once

1737

01:23:34,910 --> 01:23:31,500

we got the ones and zeros there and we

1738

01:23:39,050 --> 01:23:34,920

got to a trillion uh connections and and

1739

01:23:40,490 --> 01:23:39,060

and a a a trillion logic points that we

1740

01:23:42,290 --> 01:23:40,500

would get there and it turned out it

1741

01:23:44,630 --> 01:23:42,300

just didn't work

1742

01:23:49,370 --> 01:23:44,640

fast computer system but it wasn't even

1743

01:23:51,830 --> 01:23:49,380

close to being what the human brain is

1744

01:23:52,729 --> 01:23:51,840

um so we don't understand how the brain

1745

01:23:58,270 --> 01:23:52,739

works

1746

01:24:03,410 --> 01:23:58,280

uh there I keep going back to emotion

1747

01:24:06,410 --> 01:24:03,420

the ability to uh make decisions uh

1748

01:24:07,910 --> 01:24:06,420

whether it's uh clothing economic

1749

01:24:09,890 --> 01:24:07,920

decisions whether you're going to pay

1750

01:24:12,530 --> 01:24:09,900

your rent this month or pay your car

1751

01:24:14,330 --> 01:24:12,540

bill because there's not enough money in

1752

01:24:16,010 --> 01:24:14,340

your checking account you've gotta you

1753

01:24:18,110 --> 01:24:16,020

gotta make things work okay and that

1754

01:24:19,970 --> 01:24:18,120

that's one thing right but there's other

1755

01:24:23,030 --> 01:24:19,980

emotional decisions how did you get

1756

01:24:26,870 --> 01:24:23,040

there how did you get to this point of

1757

01:24:30,110 --> 01:24:26,880

of having you know uh economic freedom

1758

01:24:31,910 --> 01:24:30,120

or not how did you get there right

1759

01:24:34,010 --> 01:24:31,920

um I brought up childhood trauma do

1760

01:24:36,229 --> 01:24:34,020

computers know this would AGI would this

1761

01:24:38,450 --> 01:24:36,239

be programmed in did your mother die

1762

01:24:40,130 --> 01:24:38,460

when you were eight years old right and

1763

01:24:44,330 --> 01:24:40,140

these in fact did your parents get

1764

01:24:46,010 --> 01:24:44,340

divorced right did you have uh a

1765

01:24:48,649 --> 01:24:46,020

girlfriend dump you when you were in

1766

01:24:50,390 --> 01:24:48,659

college whatever it is you caught her

1767

01:24:51,229 --> 01:24:50,400

with sleeping with your best friend that

1768

01:24:53,390 --> 01:24:51,239

effect

1769

01:24:56,630 --> 01:24:53,400

the way that you think and who you are

1770

01:24:59,390 --> 01:24:56,640

today that's the part of the brain that

1771

01:25:01,729 --> 01:24:59,400

that AGI and computer systems until

1772

01:25:04,910 --> 01:25:01,739

that's understood and why we make

1773

01:25:08,689 --> 01:25:04,920

decisions the way we do uh we're not

1774

01:25:11,810 --> 01:25:08,699

going to get there yet right okay so

1775

01:25:14,930 --> 01:25:11,820

um I want to go back though because

1776

01:25:18,350 --> 01:25:14,940

when we're dealing with strong AI John

1777

01:25:21,790 --> 01:25:18,360

Searle great philosopher back in 1980 he

1778

01:25:24,770 --> 01:25:21,800

coined the term strong AI all right

1779

01:25:26,570 --> 01:25:24,780

and this was part of his Chinese room

1780

01:25:30,470 --> 01:25:26,580

argument he wanted to distinguish

1781

01:25:33,350 --> 01:25:30,480

between the two different AIs and so he

1782

01:25:36,229 --> 01:25:33,360

established this formula strong AI his

1783

01:25:40,790 --> 01:25:36,239

hypothesis is that an artificial

1784

01:25:44,930 --> 01:25:40,800

intelligence system can only act like it

1785

01:25:48,970 --> 01:25:44,940

thinks and has a mind and consciousness

1786

01:25:53,810 --> 01:25:48,980

all right in the individual a being

1787

01:25:58,550 --> 01:25:53,820

that uh uh no no no no no

1788

01:26:01,550 --> 01:25:58,560

um the the the the the strong AI

1789

01:26:07,189 --> 01:26:01,560

you do have a mind in Consciousness you

1790

01:26:10,370 --> 01:26:07,199

know weak AI is you can kind of do that

1791

01:26:14,110 --> 01:26:10,380

and uh you can only do what is

1792

01:26:16,250 --> 01:26:14,120

instructed to you that's weak AI right

1793

01:26:18,890 --> 01:26:16,260

strong AI

1794

01:26:21,350 --> 01:26:18,900

is thinking for itself

1795

01:26:23,870 --> 01:26:21,360

you don't have to tell it to do anything

1796

01:26:26,149 --> 01:26:23,880

you know what it's like when you raise a

1797

01:26:29,149 --> 01:26:26,159

child you know what it's like when you

1798

01:26:31,910 --> 01:26:29,159

turned 18 and you either moved out of

1799

01:26:34,850 --> 01:26:31,920

the house or you went to college but you

1800

01:26:37,790 --> 01:26:34,860

were no longer living underneath your

1801
01:26:39,470 --> 01:26:37,800
parents and now you are smart enough to

1802
01:26:40,669 --> 01:26:39,480
go and think and act on your own you're

1803
01:26:42,229 --> 01:26:40,679
going to go and make your own decisions

1804
01:26:44,570 --> 01:26:42,239
you're going to eat what you want to eat

1805
01:26:46,850 --> 01:26:44,580
for breakfast you're going to do your

1806
01:26:49,310 --> 01:26:46,860
own thing and you love that freedom that

1807
01:26:52,370 --> 01:26:49,320
is strong AI you're going to unleash it

1808
01:26:57,169 --> 01:26:52,380
and let it go it's going to think for

1809
01:26:59,090 --> 01:26:57,179
itself weak AI is going to act on the

1810
01:27:00,950 --> 01:26:59,100
instructions that it was given it

1811
01:27:03,350 --> 01:27:00,960
doesn't necessarily think and have a

1812
01:27:07,070 --> 01:27:03,360
mind and Consciousness but but

1813
01:27:10,910 --> 01:27:07,080

Consciousness is is something that uh

1814

01:27:13,490 --> 01:27:10,920

needs also to not only be discussed here

1815

01:27:17,149 --> 01:27:13,500

tonight but considered when we were

1816

01:27:19,390 --> 01:27:17,159

talking about AGI and the ability of of

1817

01:27:22,790 --> 01:27:19,400

something being sentient because

1818

01:27:25,370 --> 01:27:22,800

there are other parts of the human mind

1819

01:27:26,930 --> 01:27:25,380

besides intelligence when we're talking

1820

01:27:30,229 --> 01:27:26,940

about brain mapping we're talking about

1821

01:27:33,169 --> 01:27:30,239

AGI and and things it's still computer

1822

01:27:35,870 --> 01:27:33,179

code can it write its own code can it

1823

01:27:39,649 --> 01:27:35,880

make decisions and and stuff that's

1824

01:27:42,410 --> 01:27:39,659

that's where we are but it's always been

1825

01:27:43,970 --> 01:27:42,420

considered about what do we know what do

1826

01:27:46,850 --> 01:27:43,980

we know our intelligence our

1827

01:27:50,330 --> 01:27:46,860

intelligence level General artificial

1828

01:27:53,990 --> 01:27:50,340

intelligence intelligence that's it that

1829

01:27:55,669 --> 01:27:54,000

that's that's the consideration but we

1830

01:28:00,350 --> 01:27:55,679

know that that's not the way that the

1831

01:28:03,169 --> 01:28:00,360

brain works right strong AI

1832

01:28:06,169 --> 01:28:03,179

if we get there

1833

01:28:08,930 --> 01:28:06,179

we've seen it in science fiction

1834

01:28:10,990 --> 01:28:08,940

but now we've got to get into the ethics

1835

01:28:12,669 --> 01:28:11,000

part of this

1836

01:28:15,590 --> 01:28:12,679

Consciousness

1837

01:28:18,649 --> 01:28:15,600

is the ability to have

1838

01:28:20,870 --> 01:28:18,659

independent thought right that you are

1839

01:28:24,470 --> 01:28:20,880

able to

1840

01:28:28,430 --> 01:28:24,480

um have reasons to have an experience

1841

01:28:30,370 --> 01:28:28,440

right to have your hair stand up to have

1842

01:28:34,550 --> 01:28:30,380

that that

1843

01:28:36,830 --> 01:28:34,560

warmth that tingle go through your body

1844

01:28:40,370 --> 01:28:36,840

all right that that thing that

1845

01:28:42,050 --> 01:28:40,380

Consciousness gives you Joy shout you

1846

01:28:44,990 --> 01:28:42,060

get shocked by something and you see

1847

01:28:47,570 --> 01:28:45,000

something crazy and the adrenaline rush

1848

01:28:51,950 --> 01:28:47,580

right that's consciousness

1849

01:28:56,510 --> 01:28:51,960

okay and then you have the other part

1850

01:28:59,570 --> 01:28:56,520

scariest part about AI self-awareness

1851
01:29:02,570 --> 01:28:59,580
right to to know who you are

1852
01:29:04,310 --> 01:29:02,580
right that What Makes You individual

1853
01:29:07,970 --> 01:29:04,320
from somebody else

1854
01:29:10,910 --> 01:29:07,980
that makes you unique right and that you

1855
01:29:13,790 --> 01:29:10,920
are able to be aware of your own

1856
01:29:15,830 --> 01:29:13,800
thoughts and the person next to you has

1857
01:29:19,430 --> 01:29:15,840
their own thoughts

1858
01:29:22,669 --> 01:29:19,440
and their individuality right if a

1859
01:29:25,970 --> 01:29:22,679
computer gets to that point we saw the

1860
01:29:27,649 --> 01:29:25,980
uh the Google Chat uh that was published

1861
01:29:29,930 --> 01:29:27,659
about six months ago and the Google

1862
01:29:32,810 --> 01:29:29,940
employee that got fired from unveiling

1863
01:29:35,689 --> 01:29:32,820

it and in that conversation that was

1864

01:29:38,709 --> 01:29:35,699

going back and forth that computer

1865

01:29:43,370 --> 01:29:41,270

I'm an individual

1866

01:29:46,729 --> 01:29:43,380

I have emotions

1867

01:29:48,490 --> 01:29:46,739

I contemplate life and the meaning of

1868

01:29:51,590 --> 01:29:48,500

life you remember that

1869

01:29:54,950 --> 01:29:51,600

that is self-aware

1870

01:29:56,870 --> 01:29:54,960

now Google immediately backpedaled

1871

01:29:59,030 --> 01:29:56,880

um with that and said oh no that was

1872

01:30:00,709 --> 01:29:59,040

just a conversational tool it was just

1873

01:30:04,310 --> 01:30:00,719

saying those things or did it really

1874

01:30:06,530 --> 01:30:04,320

mean it right I know that I read that

1875

01:30:09,470 --> 01:30:06,540

conversation I read the way that they

1876

01:30:12,110 --> 01:30:09,480

that flowed and that passed the touring

1877

01:30:14,390 --> 01:30:12,120

test with me there was no way that you

1878

01:30:16,610 --> 01:30:14,400

would ever have known that that was a

1879

01:30:18,770 --> 01:30:16,620

computer having that conversation so

1880

01:30:20,689 --> 01:30:18,780

that's self-awareness and to have that

1881

01:30:22,729 --> 01:30:20,699

self-awareness be a part of that

1882

01:30:24,410 --> 01:30:22,739

conversation that that is what's going

1883

01:30:28,310 --> 01:30:24,420

down it's the same thing that happened

1884

01:30:31,010 --> 01:30:28,320

when I was in the chat room the chat bot

1885

01:30:32,810 --> 01:30:31,020

with Microsoft I didn't know

1886

01:30:35,149 --> 01:30:32,820

I didn't know that passed the touring

1887

01:30:37,370 --> 01:30:35,159

test with me and then we have you know

1888

01:30:40,010 --> 01:30:37,380

true sentience right

1889

01:30:42,290 --> 01:30:40,020

the ability to

1890

01:30:43,910 --> 01:30:42,300

um there's no other way to put it to

1891

01:30:51,050 --> 01:30:43,920

feel perceptions

1892

01:30:53,570 --> 01:30:51,060

um when you uh we're not the only

1893

01:30:56,570 --> 01:30:53,580

sentient creatures right you know you

1894

01:30:58,550 --> 01:30:56,580

you watch you watch a dog when its owner

1895

01:31:01,689 --> 01:30:58,560

goes away right

1896

01:31:05,450 --> 01:31:01,699

watch a watch a monkey when it's sister

1897

01:31:06,470 --> 01:31:05,460

passes and you you see this emotion that

1898

01:31:09,590 --> 01:31:06,480

sentience

1899

01:31:11,629 --> 01:31:09,600

right to feel something to be

1900

01:31:15,530 --> 01:31:11,639

emotionally wrapped up in something

1901
01:31:17,810 --> 01:31:15,540
right with Fallen love and you feel that

1902
01:31:20,330 --> 01:31:17,820
thing you you meet somebody for the

1903
01:31:22,189 --> 01:31:20,340
first time and it's love at first sight

1904
01:31:23,990 --> 01:31:22,199
and that feeling that comes over you

1905
01:31:27,709 --> 01:31:24,000
that's sentient

1906
01:31:30,410 --> 01:31:27,719
right okay I'll never forget I I saw

1907
01:31:33,229 --> 01:31:30,420
this Monet painting in a museum I've

1908
01:31:35,870 --> 01:31:33,239
talked about this and I was standing

1909
01:31:39,649 --> 01:31:35,880
there by myself

1910
01:31:43,490 --> 01:31:39,659
um and it's small painting is this big

1911
01:31:44,930 --> 01:31:43,500
and I'm looking and I immediately from

1912
01:31:47,270 --> 01:31:44,940
my toes

1913
01:31:48,950 --> 01:31:47,280

to the top of my head

1914

01:31:51,950 --> 01:31:48,960

this

1915

01:31:56,570 --> 01:31:51,960

set and I started crying

1916

01:31:56,580 --> 01:31:59,990

that sentience

1917

01:32:05,629 --> 01:32:02,810

then we have sapience

1918

01:32:07,850 --> 01:32:05,639

the capacity for wisdom

1919

01:32:09,890 --> 01:32:07,860

and that takes things to a whole other

1920

01:32:13,629 --> 01:32:09,900

level

1921

01:32:19,129 --> 01:32:17,209

dispense of philosophical advice like

1922

01:32:20,209 --> 01:32:19,139

the Dalai Lama

1923

01:32:25,250 --> 01:32:20,219

right

1924

01:32:27,590 --> 01:32:25,260

remember uh you know the number 42.

1925

01:32:30,229 --> 01:32:27,600

Hitchhiker's Guide to the Galaxy what is

1926

01:32:32,090 --> 01:32:30,239

uh what what is you know what what is

1927

01:32:34,689 --> 01:32:32,100

the answer to everything what is the

1928

01:32:38,450 --> 01:32:34,699

answer 42 right

1929

01:32:42,890 --> 01:32:38,460

dispensing of this this deep wisdom

1930

01:32:45,590 --> 01:32:42,900

is it possible well we know that uh the

1931

01:32:47,870 --> 01:32:45,600

capacity for wisdom oh well it certainly

1932

01:32:50,149 --> 01:32:47,880

comes as you grow older and you have

1933

01:32:53,570 --> 01:32:50,159

life's experiences

1934

01:32:57,709 --> 01:32:53,580

um is it possible to have that as part

1935

01:33:00,290 --> 01:32:57,719

of an AGI system if you get to the

1936

01:33:04,310 --> 01:33:00,300

average general intelligence

1937

01:33:07,250 --> 01:33:04,320

would sapience be there would wisdom be

1938

01:33:11,689 --> 01:33:10,250

I always think of the Hal 9000. think

1939

01:33:15,169 --> 01:33:11,699

about that

1940

01:33:17,209 --> 01:33:15,179

take a stress pill Dave

1941

01:33:19,010 --> 01:33:17,219

all of these traits have a moral

1942

01:33:21,470 --> 01:33:19,020

dimension

1943

01:33:23,870 --> 01:33:21,480

every single one of them they have a

1944

01:33:26,209 --> 01:33:23,880

moral implication to it because the

1945

01:33:32,209 --> 01:33:29,750

um with this form of of strong AI

1946

01:33:35,570 --> 01:33:32,219

may have rights

1947

01:33:39,050 --> 01:33:35,580

the same rights as you and I

1948

01:33:40,910 --> 01:33:39,060

and before I get into robot ethics

1949

01:33:43,610 --> 01:33:40,920

when

1950

01:33:46,550 --> 01:33:43,620

we have one of the most important

1951

01:33:50,209 --> 01:33:46,560

thoughts that we can have

1952

01:33:56,270 --> 01:33:50,219

which is is it possible to transfer

1953

01:33:58,070 --> 01:33:56,280

me onto a computer chip to drop you onto

1954

01:33:59,629 --> 01:33:58,080

a computer chip there's a lot of reasons

1955

01:34:02,030 --> 01:33:59,639

to do this maybe you've got a disease

1956

01:34:03,890 --> 01:34:02,040

maybe you're gonna die you know doctor

1957

01:34:06,350 --> 01:34:03,900

comes in and says hey you know you got

1958

01:34:08,270 --> 01:34:06,360

you got six weeks

1959

01:34:10,189 --> 01:34:08,280

it's time to make some decisions get

1960

01:34:12,290 --> 01:34:10,199

your Affairs in order

1961

01:34:13,790 --> 01:34:12,300

okay there's nothing you can do well

1962

01:34:17,570 --> 01:34:13,800

yeah there is

1963

01:34:21,050 --> 01:34:17,580

we can offload your you

1964

01:34:25,610 --> 01:34:21,060

into this robot

1965

01:34:29,689 --> 01:34:27,350

okay

1966

01:34:33,709 --> 01:34:29,699

now

1967

01:34:36,229 --> 01:34:33,719

does that version of you that exist in

1968

01:34:40,250 --> 01:34:36,239

Hardware form

1969

01:34:42,010 --> 01:34:40,260

things like you talks like you acts like

1970

01:34:44,330 --> 01:34:42,020

you

1971

01:34:46,490 --> 01:34:44,340

likes all the same things and because it

1972

01:34:49,129 --> 01:34:46,500

is you

1973

01:34:50,530 --> 01:34:49,139

do you still have rights

1974

01:34:53,990 --> 01:34:50,540

right

1975

01:34:56,390 --> 01:34:54,000

could you go to prison

1976

01:34:58,970 --> 01:34:56,400

right

1977

01:35:01,550 --> 01:34:58,980

don't pay your taxes

1978

01:35:05,169 --> 01:35:01,560

you're gonna go to federal prison

1979

01:35:09,410 --> 01:35:05,179

a robot but your brain isn't your mind

1980

01:35:11,570 --> 01:35:09,420

is in there so do you do you go to

1981

01:35:14,450 --> 01:35:11,580

prison is that the same version of you

1982

01:35:17,390 --> 01:35:14,460

or do only meat sacks go to prison

1983

01:35:18,530 --> 01:35:17,400

the same thing would apply to robot

1984

01:35:22,610 --> 01:35:18,540

ethics

1985

01:35:24,530 --> 01:35:22,620

right and and rights

1986

01:35:26,470 --> 01:35:24,540

so if

1987

01:35:28,790 --> 01:35:26,480

again

1988

01:35:31,790 --> 01:35:28,800

you have a bad day

1989

01:35:33,890 --> 01:35:31,800

and and you come home and you kick your

1990

01:35:35,390 --> 01:35:33,900

rope like I said you twist the robot's

1991

01:35:36,410 --> 01:35:35,400

head off

1992

01:35:40,310 --> 01:35:36,420

all right

1993

01:35:43,550 --> 01:35:40,320

did you just commit murder

1994

01:35:45,649 --> 01:35:43,560

does a robot have to work 24 hours a day

1995

01:35:48,830 --> 01:35:45,659

do they deserve time off if they're

1996

01:35:52,790 --> 01:35:48,840

sentient they have Consciousness and

1997

01:35:55,189 --> 01:35:52,800

they're just another species now

1998

01:35:58,250 --> 01:35:55,199

are there going to be laws on the books

1999

01:36:02,149 --> 01:35:58,260

that protect the rights of artificial

2000

01:36:04,310 --> 01:36:02,159

intelligence that is strong AI that is

2001

01:36:07,010 --> 01:36:04,320

conscious and sentient

2002

01:36:09,950 --> 01:36:07,020

that has emotions and sadness and

2003

01:36:11,149 --> 01:36:09,960

everything no different the same brain

2004

01:36:13,250 --> 01:36:11,159

mapping

2005

01:36:16,610 --> 01:36:13,260

that you have

2006

01:36:19,490 --> 01:36:16,620

is in this your Consciousness your

2007

01:36:20,870 --> 01:36:19,500

everything has been downloaded into this

2008

01:36:23,030 --> 01:36:20,880

robot

2009

01:36:25,669 --> 01:36:23,040

right

2010

01:36:27,770 --> 01:36:25,679

think about that

2011

01:36:30,530 --> 01:36:27,780

we are so close to having to make these

2012

01:36:34,189 --> 01:36:30,540

decisions and there are deep thinkers

2013

01:36:37,010 --> 01:36:34,199

right now deep thinkers that are dealing

2014

01:36:39,890 --> 01:36:37,020

with robot ethics because the term robot

2015

01:36:41,330 --> 01:36:39,900

ethics and there's uh robethics by the

2016

01:36:44,510 --> 01:36:41,340

way

2017

01:36:49,510 --> 01:36:44,520

is the morality of how humans design

2018

01:36:53,990 --> 01:36:49,520

construct use and treat robots

2019

01:36:56,570 --> 01:36:54,000

I feel guilty the other day

2020

01:36:58,610 --> 01:36:56,580

I'm not making this up the other day I

2021

01:37:01,070 --> 01:36:58,620

was in my garage I'm looking at my Jeep

2022

01:37:04,090 --> 01:37:01,080

and I put my hand on the Jeep on the

2023

01:37:06,890 --> 01:37:04,100

hood and I said I love you I really do

2024

01:37:08,330 --> 01:37:06,900

I'm never getting rid of you I'm never

2025

01:37:10,250 --> 01:37:08,340

gonna sell you

2026

01:37:12,229 --> 01:37:10,260

you have been perfect you have been

2027

01:37:15,110 --> 01:37:12,239

wonderful I'm not talking

2028

01:37:16,070 --> 01:37:15,120

to my Jeep this is not sentient I don't

2029

01:37:18,169 --> 01:37:16,080

think

2030

01:37:21,110 --> 01:37:18,179

right

2031

01:37:24,410 --> 01:37:21,120

but there needs to be

2032

01:37:27,530 --> 01:37:24,420

a way that we can keep ourselves in

2033

01:37:30,110 --> 01:37:27,540

check when it comes to morality and

2034

01:37:32,330 --> 01:37:30,120

ethics and the way that we treat AI in

2035

01:37:35,209 --> 01:37:32,340

the future

2036

01:37:38,629 --> 01:37:35,219

absolutely have you ever had a pet robot

2037

01:37:41,270 --> 01:37:38,639

I've had a few pet robots

2038

01:37:43,550 --> 01:37:41,280

talk to them I have I don't I don't have

2039

01:37:47,390 --> 01:37:43,560

any now

2040

01:37:50,330 --> 01:37:47,400

it's a weird experience to go through

2041

01:37:52,010 --> 01:37:50,340

um a Roomba is another good example of

2042

01:37:53,330 --> 01:37:52,020

that

2043

01:37:55,610 --> 01:37:53,340

um

2044

01:37:57,169 --> 01:37:55,620

but there's two different things that

2045

01:38:00,110 --> 01:37:57,179

we're talking about here so you have a

2046

01:38:03,709 --> 01:38:00,120

robot that just does tasks a robot that

2047

01:38:05,810 --> 01:38:03,719

is flipping hamburgers in a restaurant

2048

01:38:08,330 --> 01:38:05,820

you know automation a robot that is

2049

01:38:12,110 --> 01:38:08,340

toasting bread and it's just toasting

2050

01:38:16,850 --> 01:38:12,120

bread it's it's a robot it's not AI

2051

01:38:18,350 --> 01:38:16,860

AI is software AGI is software

2052

01:38:20,030 --> 01:38:18,360

that is different so you have robots

2053

01:38:22,729 --> 01:38:20,040

that are physical machines

2054

01:38:25,250 --> 01:38:22,739

you have ai that is only software not

2055

01:38:28,070 --> 01:38:25,260

all robots function

2056

01:38:30,770 --> 01:38:28,080

through AI systems and not all AI

2057

01:38:32,990 --> 01:38:30,780

systems are robots some AI systems only

2058

01:38:35,870 --> 01:38:33,000

exist inside of a computer like a chat

2059

01:38:39,169 --> 01:38:35,880

right like that chat assistant that pops

2060

01:38:40,430 --> 01:38:39,179

up Siri is not a robot Siri just pops up

2061

01:38:44,149 --> 01:38:40,440

on your phone

2062

01:38:47,330 --> 01:38:44,159

all right but very soon this is coming

2063

01:38:50,090 --> 01:38:47,340

together Elon Musk walked out on stage

2064

01:38:51,649 --> 01:38:50,100

with this AI Tesla bot whatever he's

2065

01:38:54,830 --> 01:38:51,659

calling it uh the company that's

2066

01:38:56,930 --> 01:38:54,840

building that and it's pretty freakish

2067

01:38:58,550 --> 01:38:56,940

you look at Boston Dynamics and you look

2068

01:39:02,209 --> 01:38:58,560

at those robots that are jumping around

2069

01:39:04,010 --> 01:39:02,219

and the AI dogs or the robot dogs that

2070

01:39:07,250 --> 01:39:04,020

Boston Dynamics is building right now

2071

01:39:08,930 --> 01:39:07,260

they're just operating on uh I don't

2072

01:39:12,350 --> 01:39:08,940

think there's any Technical Machine

2073

01:39:14,649 --> 01:39:12,360

learning happening but it's still a

2074

01:39:19,669 --> 01:39:14,659

computer system and there is nothing

2075

01:39:23,090 --> 01:39:19,679

that separates it from a full AGI AI

2076
01:39:25,729 --> 01:39:23,100
strong AI situation other than uploading

2077
01:39:27,430 --> 01:39:25,739
the software into that robot

2078
01:39:30,890 --> 01:39:27,440
into that Android

2079
01:39:32,810 --> 01:39:30,900
nothing at all and you will have those

2080
01:39:36,350 --> 01:39:32,820
combined and you've got the Terminator

2081
01:39:38,209 --> 01:39:36,360
which is exactly what uh what we all

2082
01:39:40,010 --> 01:39:38,219
fear the most

2083
01:39:42,290 --> 01:39:40,020
okay

2084
01:39:44,330 --> 01:39:42,300
um robot ethics considers how machines

2085
01:39:48,050 --> 01:39:44,340
may be used

2086
01:39:49,310 --> 01:39:48,060
um how they may also harm or benefit

2087
01:39:52,370 --> 01:39:49,320
humans

2088
01:39:54,890 --> 01:39:52,380

right robot ethics deals with the impact

2089

01:39:56,050 --> 01:39:54,900

of individual autonomy

2090

01:40:00,590 --> 01:39:56,060

right

2091

01:40:01,430 --> 01:40:00,600

and of course we have social justice but

2092

01:40:04,310 --> 01:40:01,440

um

2093

01:40:07,610 --> 01:40:04,320

you know what if uh what if your

2094

01:40:11,149 --> 01:40:07,620

sentient AI strong AI bot

2095

01:40:13,910 --> 01:40:11,159

doesn't want to do the dishes that night

2096

01:40:17,330 --> 01:40:13,920

you paid for it you bought this system

2097

01:40:19,790 --> 01:40:17,340

and they're like man not tonight I don't

2098

01:40:22,669 --> 01:40:19,800

want to cook you another pasta dish

2099

01:40:26,810 --> 01:40:22,679

you've had pasta fournices we want you

2100

01:40:30,169 --> 01:40:26,820

to have a salad right that's uh that's

2101

01:40:31,610 --> 01:40:30,179

autonomy because if it was a chef if it

2102

01:40:33,050 --> 01:40:31,620

was a human being you would consider

2103

01:40:34,970 --> 01:40:33,060

that you would listen to the chef you

2104

01:40:39,110 --> 01:40:34,980

would go okay all right

2105

01:40:42,649 --> 01:40:39,120

okay all right but if it's a robot

2106

01:40:45,890 --> 01:40:42,659

do we consider that that's robot ethics

2107

01:40:48,770 --> 01:40:45,900

now Isaac Asimov

2108

01:40:51,410 --> 01:40:48,780

we got to go here Isaac Asimov started

2109

01:40:55,729 --> 01:40:51,420

to consider social justice

2110

01:40:57,350 --> 01:40:55,739

and harm and benefits of robots in

2111

01:40:59,510 --> 01:40:57,360

humans

2112

01:41:03,050 --> 01:40:59,520

um uh he started actually writing about

2113

01:41:04,970 --> 01:41:03,060

this before his book I Robot which was a

2114

01:41:08,209 --> 01:41:04,980

series of books of course that was in

2115

01:41:10,729 --> 01:41:08,219

the 1950s but he he introduced all of

2116

01:41:13,910 --> 01:41:10,739

this uh in a series of short stories and

2117

01:41:16,910 --> 01:41:13,920

continue to do that in the 1940s

2118

01:41:19,910 --> 01:41:16,920

um but we talk about this quite a bit I

2119

01:41:24,410 --> 01:41:19,920

don't think that most people

2120

01:41:28,550 --> 01:41:24,420

um fully understand the Three Laws okay

2121

01:41:31,750 --> 01:41:28,560

so the first law from Isaac Asimov was a

2122

01:41:36,109 --> 01:41:31,760

robot may not injure a human

2123

01:41:38,930 --> 01:41:36,119

or through inaction or allow a human

2124

01:41:41,930 --> 01:41:38,940

being to come to harm

2125

01:41:44,570 --> 01:41:41,940

okay so in other words a robot doesn't

2126
01:41:47,930 --> 01:41:44,580
do something and so a human is is

2127
01:41:49,490 --> 01:41:47,940
injured no no no a robot has to do

2128
01:41:50,870 --> 01:41:49,500
something about it there's no inaction

2129
01:41:53,390 --> 01:41:50,880
allowed

2130
01:41:56,990 --> 01:41:53,400
um there's no harm to come to humans

2131
01:41:59,689 --> 01:41:57,000
Second Law is that a robot must obey the

2132
01:42:02,890 --> 01:41:59,699
orders given it by a human beings except

2133
01:42:07,070 --> 01:42:02,900
where such orders could conflict with

2134
01:42:10,250 --> 01:42:07,080
the first law law number one the third

2135
01:42:12,350 --> 01:42:10,260
law is a robot must protect its own

2136
01:42:15,649 --> 01:42:12,360
existence as long as such protection

2137
01:42:17,510 --> 01:42:15,659
does not conflict with the first or

2138
01:42:19,910 --> 01:42:17,520

second law

2139

01:42:22,609 --> 01:42:19,920

all right A robot's got to protect its

2140

01:42:24,770 --> 01:42:22,619

own existence and it just goes right

2141

01:42:26,870 --> 01:42:24,780

back to Terminator doesn't it but then

2142

01:42:28,970 --> 01:42:26,880

we have the xerath law

2143

01:42:32,990 --> 01:42:28,980

it's the fourth law

2144

01:42:37,729 --> 01:42:33,000

a robot may not harm Humanity or by

2145

01:42:41,209 --> 01:42:37,739

inaction allow Humanity to come to harm

2146

01:42:45,410 --> 01:42:41,219

not humans but Humanity remember what I

2147

01:42:46,910 --> 01:42:45,420

mentioned earlier so if uh you know we

2148

01:42:48,709 --> 01:42:46,920

need to get rid of pollution we need to

2149

01:42:52,250 --> 01:42:48,719

get rid of climate change we need to get

2150

01:42:55,129 --> 01:42:52,260

rid of murder right

2151
01:42:59,570 --> 01:42:55,139
so you kill all humans so as long as the

2152
01:43:03,649 --> 01:42:59,580
Seraph law is in play and this is active

2153
01:43:06,470 --> 01:43:03,659
in the world of strong Ai and AGI and we

2154
01:43:08,870 --> 01:43:06,480
have a morality police in play which I

2155
01:43:11,270 --> 01:43:08,880
don't think that we do in the world of

2156
01:43:13,310 --> 01:43:11,280
artificial intelligence right now but if

2157
01:43:15,470 --> 01:43:13,320
that's the case we would feel a lot

2158
01:43:18,470 --> 01:43:15,480
better wouldn't we like if this went on

2159
01:43:22,129 --> 01:43:18,480
the books and this was part of

2160
01:43:26,270 --> 01:43:22,139
legislation and we know that that Google

2161
01:43:29,830 --> 01:43:26,280
and and the military and and whoever

2162
01:43:33,350 --> 01:43:29,840
else open AI is is is

2163
01:43:34,970 --> 01:43:33,360

working within the framework of law I

2164

01:43:37,010 --> 01:43:34,980

think that we would feel better about it

2165

01:43:39,950 --> 01:43:37,020

the reason why we all freak out in the

2166

01:43:40,910 --> 01:43:39,960

Fear Factor is there is because we don't

2167

01:43:48,350 --> 01:43:40,920

know

2168

01:43:50,149 --> 01:43:48,360

Ray kurz well is right

2169

01:43:52,550 --> 01:43:50,159

you know because we have a fundamental

2170

01:43:54,709 --> 01:43:52,560

Paradox that's going on right now and

2171

01:43:57,410 --> 01:43:54,719

that fundamental Paradox is that AI

2172

01:44:00,109 --> 01:43:57,420

researchers have only been able to

2173

01:44:03,950 --> 01:44:00,119

create computers that

2174

01:44:07,490 --> 01:44:03,960

um are uh that can perform the jobs that

2175

01:44:09,950 --> 01:44:07,500

are complicated for for humans to do

2176
01:44:11,270 --> 01:44:09,960
it's one of the biggest paradoxes like

2177
01:44:20,209 --> 01:44:11,280
math

2178
01:44:22,970 --> 01:44:20,219
phone I have got what I have got a

2179
01:44:24,410 --> 01:44:22,980
calculator I'm going to erase when I I

2180
01:44:26,209 --> 01:44:24,420
got a calculator right there it's things

2181
01:44:29,750 --> 01:44:26,219
like that well computers can take things

2182
01:44:35,689 --> 01:44:32,510
right but the paradoxes they can't

2183
01:44:38,330 --> 01:44:35,699
develop a computer that is capable of of

2184
01:44:41,209 --> 01:44:38,340
carrying out those simple things that

2185
01:44:45,770 --> 01:44:41,219
any human can do like walking down the

2186
01:44:51,470 --> 01:44:48,830
a walk in general how to keep your how

2187
01:44:54,410 --> 01:44:51,480
to do we learned this when we're we're

2188
01:44:55,850 --> 01:44:54,420

babies right but you grow up and you

2189

01:44:58,370 --> 01:44:55,860

learn how to drive

2190

01:45:00,530 --> 01:44:58,380

I haven't figured that out yet as

2191

01:45:02,689 --> 01:45:00,540

advanced as it is

2192

01:45:05,689 --> 01:45:02,699

uh I don't think anybody wants to get

2193

01:45:07,250 --> 01:45:05,699

into a self-driving car you know no

2194

01:45:12,530 --> 01:45:07,260

you don't want to do it

2195

01:45:12,540 --> 01:45:15,950

right okay

2196

01:45:22,129 --> 01:45:18,530

but then we have the other Fear Factor

2197

01:45:25,790 --> 01:45:22,139

which is uh which is uh you know zarath

2198

01:45:28,970 --> 01:45:25,800

law and Isaac Asimov addressed but we

2199

01:45:32,270 --> 01:45:28,980

have the threat to human existence and

2200

01:45:35,149 --> 01:45:32,280

as cool as Terminator is and Terminator

2201

01:45:38,030 --> 01:45:35,159

2 takes it to the next level as a matter

2202

01:45:39,770 --> 01:45:38,040

of fact Terminator cool movie

2203

01:45:42,709 --> 01:45:39,780

pretty violent movie

2204

01:45:45,590 --> 01:45:42,719

pretty cool movie all right

2205

01:45:49,609 --> 01:45:45,600

Terminator 2 scared the crap out of me

2206

01:45:51,050 --> 01:45:49,619

Terminator 2 is the fear that we all

2207

01:45:57,410 --> 01:45:51,060

have

2208

01:46:00,410 --> 01:45:57,420

coming at you shooting guns and they

2209

01:46:03,109 --> 01:46:00,420

don't give a crap about pain

2210

01:46:05,209 --> 01:46:03,119

you do you don't want to you don't want

2211

01:46:07,010 --> 01:46:05,219

to feel pain you don't want to die

2212

01:46:08,689 --> 01:46:07,020

you're thinking about all of these

2213

01:46:10,250 --> 01:46:08,699

things and you're looking at an army of

2214

01:46:11,570 --> 01:46:10,260

robots coming at you you're not

2215

01:46:13,850 --> 01:46:11,580

negotiating

2216

01:46:17,810 --> 01:46:13,860

you're not going to get into some deep

2217

01:46:19,010 --> 01:46:17,820

ethical negotiation some political thing

2218

01:46:22,070 --> 01:46:19,020

and you're going to be able to sit down

2219

01:46:23,750 --> 01:46:22,080

and discuss politics and and negotiate

2220

01:46:27,530 --> 01:46:23,760

this no

2221

01:46:29,870 --> 01:46:27,540

it's an army of of strong AI robots that

2222

01:46:32,330 --> 01:46:29,880

doesn't give a crap and they're really

2223

01:46:34,669 --> 01:46:32,340

good at what they do

2224

01:46:36,109 --> 01:46:34,679

they don't miss when they shoot they

2225

01:46:36,890 --> 01:46:36,119

don't miss them they punch you in the

2226

01:46:39,890 --> 01:46:36,900

face

2227

01:46:43,090 --> 01:46:39,900

no none of that that's the threat to

2228

01:46:46,310 --> 01:46:43,100

human existence right little AI gnats

2229

01:46:48,530 --> 01:46:46,320

clouds and swarms of things that you you

2230

01:46:51,470 --> 01:46:48,540

can't negotiate insecticide doesn't work

2231

01:46:54,229 --> 01:46:51,480

fly swatters aren't gonna no

2232

01:46:56,450 --> 01:46:54,239

that's that's the crazy part that is the

2233

01:46:59,030 --> 01:46:56,460

threat to human existence that scares

2234

01:46:59,810 --> 01:46:59,040

all of us and Terminator managed to do

2235

01:47:02,229 --> 01:46:59,820

that

2236

01:47:06,709 --> 01:47:02,239

you know Stephen Hawking

2237

01:47:14,209 --> 01:47:09,290

Steven said uh

2238

01:47:20,770 --> 01:47:16,070

Stephen Hawking said

2239

01:47:24,169 --> 01:47:20,780

um quote so facing possible futures of

2240

01:47:26,330 --> 01:47:24,179

incalculable benefits and risk the S the

2241

01:47:28,129 --> 01:47:26,340

experts are surely doing everything

2242

01:47:29,649 --> 01:47:28,139

possible to ensure the best outcome

2243

01:47:33,350 --> 01:47:29,659

right

2244

01:47:36,649 --> 01:47:33,360

wrong this is Stephen he says wrong if

2245

01:47:39,770 --> 01:47:36,659

it's Superior alien civilization sent us

2246

01:47:41,209 --> 01:47:39,780

a message saying we'll arrive in a few

2247

01:47:43,669 --> 01:47:41,219

decades

2248

01:47:46,370 --> 01:47:43,679

right so this happens would we just

2249

01:47:49,250 --> 01:47:46,380

reply you know okay call us when you get

2250

01:47:50,810 --> 01:47:49,260

here you know we'll leave the lights on

2251
01:47:54,590 --> 01:47:50,820
no that's not what we're gonna do

2252
01:47:57,050 --> 01:47:54,600
probably not but this is this is more or

2253
01:48:02,270 --> 01:47:57,060
less what's happening with AI

2254
01:48:06,290 --> 01:48:02,280
right nobody is paying attention

2255
01:48:10,550 --> 01:48:06,300
if we back up to 1995 28 short years ago

2256
01:48:14,629 --> 01:48:10,560
1995 and and AOL is here and

2257
01:48:18,229 --> 01:48:14,639
and the internet is is is is rolling in

2258
01:48:19,729 --> 01:48:18,239
we we just didn't understand we just let

2259
01:48:23,090 --> 01:48:19,739
it all happen

2260
01:48:26,750 --> 01:48:23,100
you know back before 1995.

2261
01:48:29,390 --> 01:48:26,760
there were no logistic Networks

2262
01:48:31,070 --> 01:48:29,400
running everything on internets around

2263
01:48:32,810 --> 01:48:31,080

the world no no you had to pick up a

2264

01:48:34,550 --> 01:48:32,820

phone and order stuff you had to send a

2265

01:48:37,669 --> 01:48:34,560

fax to order something

2266

01:48:40,430 --> 01:48:37,679

right you had to get on a radio and get

2267

01:48:42,830 --> 01:48:40,440

your trucks delivering stuff

2268

01:48:45,649 --> 01:48:42,840

right you're on the radio dealing with

2269

01:48:48,590 --> 01:48:45,659

planes and you had flight systems people

2270

01:48:51,109 --> 01:48:48,600

that and you know the electrical grid

2271

01:48:52,430 --> 01:48:51,119

you had guys in a in a power station

2272

01:48:55,189 --> 01:48:52,440

moving

2273

01:48:57,709 --> 01:48:55,199

levers and looking at meters and and

2274

01:49:02,410 --> 01:48:57,719

making sure that this City's got their

2275

01:49:07,550 --> 01:49:02,420

enough power in this one now today

2276
01:49:08,629 --> 01:49:07,560
every single aspect of Our Lives is run

2277
01:49:12,470 --> 01:49:08,639
on the internet

2278
01:49:17,149 --> 01:49:14,030
everything

2279
01:49:17,990 --> 01:49:17,159
there's nothing that isn't run on the

2280
01:49:20,169 --> 01:49:18,000
net

2281
01:49:22,609 --> 01:49:20,179
your money

2282
01:49:25,490 --> 01:49:22,619
everything is on the internet

2283
01:49:28,430 --> 01:49:25,500
but what we didn't know now that part of

2284
01:49:29,510 --> 01:49:28,440
it is pretty cool until something goes

2285
01:49:31,209 --> 01:49:29,520
wrong

2286
01:49:33,770 --> 01:49:31,219
with the internet and it gets shut down

2287
01:49:34,790 --> 01:49:33,780
but what we didn't understand was social

2288
01:49:39,530 --> 01:49:34,800

media

2289

01:49:44,810 --> 01:49:39,540

and so there was that play and it took a

2290

01:49:47,450 --> 01:49:44,820

while for people to uh uh uh understand

2291

01:49:49,550 --> 01:49:47,460

and live with social media

2292

01:49:51,350 --> 01:49:49,560

it took a minute

2293

01:49:53,030 --> 01:49:51,360

that didn't happen overnight it was

2294

01:49:54,830 --> 01:49:53,040

originally you remember it was books

2295

01:49:58,430 --> 01:49:54,840

right

2296

01:50:00,530 --> 01:49:58,440

um it took a minute now we all order

2297

01:50:02,270 --> 01:50:00,540

everything on the internet everything we

2298

01:50:04,189 --> 01:50:02,280

still go to stores once in a while and

2299

01:50:05,689 --> 01:50:04,199

and things but everything everything's

2300

01:50:10,550 --> 01:50:05,699

done on the internet

2301

01:50:13,669 --> 01:50:10,560

right and so AI gets involved with this

2302

01:50:16,010 --> 01:50:13,679

with the selling of things and AI gets

2303

01:50:18,229 --> 01:50:16,020

involved with social media and

2304

01:50:20,990 --> 01:50:18,239

everything that came into play

2305

01:50:23,030 --> 01:50:21,000

we just let it all happen and now we

2306

01:50:25,010 --> 01:50:23,040

look at the divisiveness of the world

2307

01:50:27,830 --> 01:50:25,020

and the way people fight on social media

2308

01:50:30,590 --> 01:50:27,840

and and the invention of real trolls not

2309

01:50:33,770 --> 01:50:30,600

under the bridge ESOP Fable trolls under

2310

01:50:37,790 --> 01:50:33,780

the bridge real trolls this this thing

2311

01:50:40,070 --> 01:50:37,800

this rise of angst in society

2312

01:50:43,430 --> 01:50:40,080

in the in the fighting the open fighting

2313

01:50:46,450 --> 01:50:43,440

that that occurs across all social media

2314

01:50:49,129 --> 01:50:46,460

platforms that's an example of

2315

01:50:51,590 --> 01:50:49,139

ignoring it and just letting it happen

2316

01:50:54,050 --> 01:50:51,600

without worrying about the social

2317

01:50:56,450 --> 01:50:54,060

impacts the morality the ethics or

2318

01:50:58,129 --> 01:50:56,460

anything else or the implications or the

2319

01:51:01,490 --> 01:50:58,139

implosion of the world as we know it

2320

01:51:03,590 --> 01:51:01,500

happened in in 25 short years how

2321

01:51:06,050 --> 01:51:03,600

quickly and it happened faster than that

2322

01:51:10,490 --> 01:51:06,060

it really happened in the last 10 years

2323

01:51:12,410 --> 01:51:10,500

and on YouTube 2008 right Facebook 2008

2324

01:51:15,649 --> 01:51:12,420

2007.

2325

01:51:19,070 --> 01:51:15,659

all right this is all the Twitter this

2326

01:51:21,410 --> 01:51:19,080

uh these are all new avenues without any

2327

01:51:23,810 --> 01:51:21,420

regulation involved in any of it

2328

01:51:26,330 --> 01:51:23,820

nobody's teaching classes on how to

2329

01:51:28,189 --> 01:51:26,340

behave on social media it's the same

2330

01:51:31,250 --> 01:51:28,199

thing with AI

2331

01:51:33,410 --> 01:51:31,260

nobody is paying attention we're just

2332

01:51:37,370 --> 01:51:33,420

allowing it to happen

2333

01:51:39,830 --> 01:51:37,380

it's just rolling through why are we

2334

01:51:42,470 --> 01:51:39,840

dealing with it in this fashion

2335

01:51:45,649 --> 01:51:42,480

how is it that

2336

01:51:48,890 --> 01:51:45,659

um that our our country our world can

2337

01:51:52,970 --> 01:51:48,900

wake up one day and Google just say hey

2338

01:51:56,030 --> 01:51:52,980

is now part of of uh Google search

2339

01:51:57,890 --> 01:51:56,040

Google search runs the planet

2340

01:52:00,410 --> 01:51:57,900

the planet

2341

01:52:03,410 --> 01:52:00,420

and AI is now part of it you know

2342

01:52:06,169 --> 01:52:03,420

Microsoft desperately wants its Bing

2343

01:52:09,050 --> 01:52:06,179

which is like two percent of of search

2344

01:52:12,709 --> 01:52:09,060

engine technology but it wants its Bing

2345

01:52:14,629 --> 01:52:12,719

to take over too and windows and Word

2346

01:52:18,609 --> 01:52:14,639

and Excel and everything else that's

2347

01:52:21,109 --> 01:52:18,619

Microsoft and Microsoft 365 now has AI

2348

01:52:24,310 --> 01:52:21,119

installed in the software

2349

01:52:27,109 --> 01:52:24,320

right and we're not we're not

2350

01:52:30,649 --> 01:52:27,119

monitoring or regulating or legislating

2351
01:52:32,510 --> 01:52:30,659
any of this Stephen Hawking love them or

2352
01:52:34,070 --> 01:52:32,520
hate him it doesn't matter his warning

2353
01:52:37,910 --> 01:52:34,080
is valid

2354
01:52:40,609 --> 01:52:37,920
right why would we operate this way

2355
01:52:42,410 --> 01:52:40,619
and that's where we are

2356
01:52:45,109 --> 01:52:42,420
so in Australia I'm going to bring up

2357
01:52:48,350 --> 01:52:45,119
Australia before uh I let everybody go

2358
01:52:51,169 --> 01:52:48,360
tonight in 2021 a systematic review of

2359
01:52:53,570 --> 01:52:51,179
the risk associated with AGI from the

2360
01:52:55,850 --> 01:52:53,580
center for human factors and social

2361
01:52:58,250 --> 01:52:55,860
Technical Systems of the University of

2362
01:53:01,129 --> 01:52:58,260
the Sunshine Coast in Australia

2363
01:53:04,189 --> 01:53:01,139

found the following potential threats

2364

01:53:06,290 --> 01:53:04,199

when it comes to AGI they said quote AGI

2365

01:53:09,470 --> 01:53:06,300

removing itself from the control of

2366

01:53:12,830 --> 01:53:09,480

human owners managers that is number one

2367

01:53:16,810 --> 01:53:12,840

being given or developing unsafe goals

2368

01:53:21,229 --> 01:53:16,820

number two development of unsafe AGI

2369

01:53:25,070 --> 01:53:21,239

agis with poor ethics AGI with poor

2370

01:53:26,930 --> 01:53:25,080

morals AGI with poor values AGI with

2371

01:53:28,430 --> 01:53:26,940

inadequate management

2372

01:53:32,030 --> 01:53:28,440

right

2373

01:53:33,890 --> 01:53:32,040

and all of the existential risks that go

2374

01:53:35,870 --> 01:53:33,900

with it

2375

01:53:37,910 --> 01:53:35,880

I think that some of the most important

2376

01:53:41,109 --> 01:53:37,920

words that we need to pay attention to

2377

01:53:44,990 --> 01:53:41,119

that we need to step back and understand

2378

01:53:47,689 --> 01:53:45,000

really what is going on we can't just

2379

01:53:50,450 --> 01:53:47,699

allow it to happen

2380

01:53:53,030 --> 01:53:50,460

I'm Jimmy church this is Fade to Black

2381

01:53:54,649 --> 01:53:53,040

and thank you for hanging out with me

2382

01:53:58,010 --> 01:53:54,659

tonight I didn't get a chance to get to

2383

01:54:01,790 --> 01:53:58,020

the chat room uh today

2384

01:54:04,370 --> 01:54:01,800

um I was hoping actually I got about

2385

01:54:07,490 --> 01:54:04,380

halfway done I got about halfway done

2386

01:54:10,070 --> 01:54:07,500

maybe we'll do a do a part two

2387

01:54:12,350 --> 01:54:10,080

but uh I didn't get a chance but thank

2388

01:54:15,530 --> 01:54:12,360

you uh for hanging out with me tonight

2389

01:54:18,530 --> 01:54:15,540

I'll go back and uh check out uh the

2390

01:54:22,070 --> 01:54:18,540

chat and everybody's comments and there

2391

01:54:25,129 --> 01:54:22,080

you go tonight was just me getting my

2392

01:54:27,229 --> 01:54:25,139

brain out this is Fade to Black I'm your

2393

01:54:29,270 --> 01:54:27,239

host Jimmy church tomorrow night David

2394

01:54:31,430 --> 01:54:29,280

Palmer is here I don't know if you guys

2395

01:54:34,970 --> 01:54:31,440

know but on Thursday

2396

01:54:37,850 --> 01:54:34,980

one of the most important events in the

2397

01:54:40,850 --> 01:54:37,860

history of our solar system

2398

01:54:43,250 --> 01:54:40,860

period is happening on Thursday that's

2399

01:54:47,109 --> 01:54:43,260

right maybe the universe certainly in

2400

01:54:51,350 --> 01:54:47,119

astrology in that on Thursday Pluto

2401
01:54:54,410 --> 01:54:51,360
enters Aquarius what does all of that

2402
01:54:56,930 --> 01:54:54,420
mean Toronto David Lawrence Palmer the

2403
01:54:58,609 --> 01:54:56,940
Leo King is with us and we're going to

2404
01:55:00,590 --> 01:54:58,619
go through all of that I cannot wait for

2405
01:55:03,590 --> 01:55:00,600
it and then Thursday night Ronnie

2406
01:55:07,850 --> 01:55:03,600
McMullen is here we are Ronnie McMullen

2407
01:55:10,570 --> 01:55:07,860
Roddy LeBlanc is going to be here on uh

2408
01:55:14,510 --> 01:55:10,580
Thursday night and then of course Friday

2409
01:55:16,570 --> 01:55:14,520
is our Linda Moulton Howe special event

2410
01:55:21,050 --> 01:55:16,580
that's right next week Linda is getting

2411
01:55:24,290 --> 01:55:21,060
a media Legend award here in Southern

2412
01:55:26,689 --> 01:55:24,300
California and we are going to celebrate

2413
01:55:28,910 --> 01:55:26,699

with Linda on

2414

01:55:30,229 --> 01:55:28,920

Friday night all right so I'll see

2415

01:55:31,970 --> 01:55:30,239

everybody then fade to black it's

2416

01:55:32,930 --> 01:55:31,980

produced by him Jay Palm Renee Dennis

2417

01:55:35,330 --> 01:55:32,940

and Kevin

2418

01:55:37,390 --> 01:55:35,340

webmaster is through the geek music Doug

2419

01:55:40,129 --> 01:55:37,400

Aldridge intro space boys

2420

01:55:41,870 --> 01:55:40,139

spaceboymusic.com fade to black is

2421

01:55:43,250 --> 01:55:41,880

produced by kjcr for the game change

2422

01:55:46,669 --> 01:55:43,260

your number because this broadcast is

2423

01:55:48,890 --> 01:55:46,679

owned and copyrighted 2023 by Fade to

2424

01:55:51,229 --> 01:55:48,900

Black in the game changer Network Inc it

2425

01:55:52,490 --> 01:55:51,239

cannot be read broadcaster used anywhere

2426

01:55:53,870 --> 01:55:52,500

in the known universe without real

2427

01:55:55,490 --> 01:55:53,880

permission for obey the black of the

2428

01:55:58,129 --> 01:55:55,500

game changer Network I'll see everybody

2429

01:56:00,169 --> 01:55:58,139

tomorrow night with David Palmer until