



Episode **649**

THE SKEPTIC ZONE PODCAST

www.skepticzone.tv

21 March 2021

Adrienne Hill and
Predictions

Maynard interviews
Dr Brad McKay #2

TROVE
Carl Sagan



Adrienne Hill



Dr Brad McKay



Maynard



Trove

1
00:00:08,390 --> 00:00:06,550
[Music]

2
00:00:11,190 --> 00:00:08,400
welcome to the skeptic zone

3
00:00:16,840 --> 00:00:11,200
the podcast from australia for science

4
00:00:23,509 --> 00:00:16,850
and reason

5
00:00:25,349 --> 00:00:23,519
[Music]

6
00:00:27,670 --> 00:00:25,359
yes it's the skeptic's own podcast

7
00:00:31,830 --> 00:00:27,680
episode number 649

8
00:00:33,590 --> 00:00:31,840
for the 21st of march 2021

9
00:00:34,870 --> 00:00:33,600
richard saunders coming to you from

10
00:00:36,549 --> 00:00:34,880
underwater

11
00:00:38,310 --> 00:00:36,559
well that's what it's like here in

12
00:00:41,510 --> 00:00:38,320
sydney australia we've been having

13
00:00:42,630 --> 00:00:41,520

rain followed by storms and flooding and

14

00:00:49,830 --> 00:00:42,640

rain

15

00:00:52,150 --> 00:00:49,840

record

16

00:00:54,389 --> 00:00:52,160

the introduction to this week's episode

17

00:00:56,310 --> 00:00:54,399

yes sydney australia and a lot of the

18

00:00:59,430 --> 00:00:56,320

coast of new south wales

19

00:01:02,549 --> 00:00:59,440

is really copying the uh the wet weather

20

00:01:04,950 --> 00:01:02,559

flooding up and down and evacuations and

21

00:01:06,950 --> 00:01:04,960

all sorts of things going on and before

22

00:01:09,270 --> 00:01:06,960

we get into what's coming up on this

23

00:01:13,870 --> 00:01:09,280

week's show i'm going to

24

00:01:16,550 --> 00:01:13,880

tell you of a story on the abc

25

00:01:18,310 --> 00:01:16,560

abc.net.au webpage which i shall link to

26

00:01:20,950 --> 00:01:18,320

in this week's show notes

27

00:01:23,030 --> 00:01:20,960

and it features our very own raw skeptic

28

00:01:26,070 --> 00:01:23,040

heidi robinson

29

00:01:28,390 --> 00:01:26,080

the article is called the v word

30

00:01:29,590 --> 00:01:28,400

it's by bridget judd and i will read a

31

00:01:33,030 --> 00:01:29,600

little bit to you

32

00:01:35,749 --> 00:01:33,040

right now the v word mullan bimby

33

00:01:36,069 --> 00:01:35,759

has long been defined by its live and

34

00:01:39,429 --> 00:01:36,079

let

35

00:01:42,389 --> 00:01:39,439

live ethos but for those left to grapple

36

00:01:43,350 --> 00:01:42,399

with the reality of lagging vaccination

37

00:01:46,310 --> 00:01:43,360

rates

38

00:01:47,350 --> 00:01:46,320

this isn't a game of semantics it's life

39

00:01:49,670 --> 00:01:47,360

and death

40

00:01:51,910 --> 00:01:49,680

take a trip up the brunswick valley

41

00:01:54,310 --> 00:01:51,920

where the tiny town of mullenbibi sits

42

00:01:56,950 --> 00:01:54,320

under the shadows of mount chin kogon

43

00:01:59,030 --> 00:01:56,960

and there's one topic that's met with a

44

00:02:02,230 --> 00:01:59,040

pause

45

00:02:03,749 --> 00:02:02,240

quote around here vaccines are like

46

00:02:06,950 --> 00:02:03,759

politics or religion

47

00:02:09,990 --> 00:02:06,960

and quote says local heidi robinson

48

00:02:12,790 --> 00:02:10,000

quote you just don't bring it up

49

00:02:14,790 --> 00:02:12,800

in conversation end quote with childhood

50

00:02:18,150 --> 00:02:14,800

immunization rates in northern new south

51
00:02:21,589 --> 00:02:18,160
wales among the lowest in the country

52
00:02:22,150 --> 00:02:21,599
this reticence is unsurprising a hotbed

53
00:02:24,630 --> 00:02:22,160
for

54
00:02:27,110 --> 00:02:24,640
alternative medicine the laid-back

55
00:02:30,309 --> 00:02:27,120
community has long been defined by its

56
00:02:33,670 --> 00:02:30,319
live and let live ethos and with it

57
00:02:36,790 --> 00:02:33,680
comes a familiar phrase quote

58
00:02:39,670 --> 00:02:36,800
we're not anti-vaxx we're just

59
00:02:40,470 --> 00:02:39,680
pro-choice end quote and i will leave

60
00:02:42,309 --> 00:02:40,480
you to

61
00:02:43,830 --> 00:02:42,319
visit that page and read the rest of the

62
00:02:45,910 --> 00:02:43,840
article for yourself well done heidi

63
00:02:48,630 --> 00:02:45,920

congratulations for being part of this

64

00:02:49,990 --> 00:02:48,640

important report i encourage you to have

65

00:02:51,830 --> 00:02:50,000

a look at that again the link

66

00:02:54,309 --> 00:02:51,840

in this week's show notes but what's

67

00:02:57,830 --> 00:02:54,319

coming up on the rest of today's show

68

00:02:59,750 --> 00:02:57,840

we're going to start with a report by

69

00:03:01,670 --> 00:02:59,760

our new correspondent adrian hill in

70

00:03:03,270 --> 00:03:01,680

canada about the great australian

71

00:03:04,949 --> 00:03:03,280

prediction project

72

00:03:07,589 --> 00:03:04,959

the great australian psychic prediction

73

00:03:08,790 --> 00:03:07,599

project which has been going on for

74

00:03:11,350 --> 00:03:08,800

years now

75

00:03:12,869 --> 00:03:11,360

slowly drawing to its conclusion it's a

76

00:03:14,630 --> 00:03:12,879

massive undertaking

77

00:03:15,990 --> 00:03:14,640

and you can find out more about that at

78

00:03:19,350 --> 00:03:16,000

the top of the show with

79

00:03:21,350 --> 00:03:19,360

adrian hill you can count on adrian

80

00:03:24,229 --> 00:03:21,360

following that it's part two of

81

00:03:26,390 --> 00:03:24,239

maynard's interview with dr brad mackay

82

00:03:27,750 --> 00:03:26,400

and this week brad looks at conspiracy

83

00:03:30,470 --> 00:03:27,760

theories

84

00:03:31,509 --> 00:03:30,480

covert virus is it a fake pete evans

85

00:03:34,789 --> 00:03:31,519

again

86

00:03:36,949 --> 00:03:34,799

and social media action and don't forget

87

00:03:38,309 --> 00:03:36,959

you can check out dr brad's new book

88

00:03:40,630 --> 00:03:38,319

fake medicine

89

00:03:42,630 --> 00:03:40,640

link in this week's show notes and to

90

00:03:44,710 --> 00:03:42,640

round off the show once again we head to

91

00:03:46,789 --> 00:03:44,720

trove the trove archive

92

00:03:47,830 --> 00:03:46,799

this week looking for references to the

93

00:03:50,309 --> 00:03:47,840

late dr

94

00:03:51,509 --> 00:03:50,319

carl sagan and the ones i'm

95

00:03:53,190 --> 00:03:51,519

concentrating on

96

00:03:54,789 --> 00:03:53,200

there are many references as you can

97

00:03:56,149 --> 00:03:54,799

imagine but the ones i'm more or less

98

00:03:58,949 --> 00:03:56,159

concentrating on this week

99

00:04:01,110 --> 00:03:58,959

are to do with the viking mars lander

100

00:04:03,350 --> 00:04:01,120

way back in 1976.

101
00:04:04,949 --> 00:04:03,360
well generally for those people in other

102
00:04:07,509 --> 00:04:04,959
countries the situation here in

103
00:04:09,910 --> 00:04:07,519
australia is improving we have

104
00:04:10,630 --> 00:04:09,920
uh the odd breakout of curved 19 here

105
00:04:13,750 --> 00:04:10,640
and there

106
00:04:17,030 --> 00:04:13,760
but uh i think it's safe to say

107
00:04:18,469 --> 00:04:17,040
it's uh pretty much under control

108
00:04:20,870 --> 00:04:18,479
of course that doesn't mean we let our

109
00:04:22,390 --> 00:04:20,880
guard down but won't it be nice to get

110
00:04:24,950 --> 00:04:22,400
back to uh

111
00:04:27,670 --> 00:04:24,960
our normal lives hopefully this year

112
00:04:30,150 --> 00:04:27,680
later on this year i miss things like

113
00:04:30,870 --> 00:04:30,160

exploring going to new areas walking

114

00:04:33,990 --> 00:04:30,880

along

115

00:04:36,469 --> 00:04:34,000

uh interesting bush or forest

116

00:04:37,270 --> 00:04:36,479

tracks down to waterfalls which is

117

00:04:40,870 --> 00:04:37,280

always nice

118

00:04:43,030 --> 00:04:40,880

discovering new lighthouses by the coast

119

00:04:44,390 --> 00:04:43,040

that sort of thing good times with good

120

00:04:46,550 --> 00:04:44,400

people

121

00:04:48,230 --> 00:04:46,560

but with that in mind now it's time for

122

00:04:50,070 --> 00:04:48,240

me to run downstairs

123

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

and have a leftover from dinner last

124

00:04:55,430 --> 00:04:52,080

night which was a jalapeno

125

00:04:56,870 --> 00:04:55,440

and cheese sausage yum yum while i do

126
00:05:12,960 --> 00:04:56,880
that i hope you enjoy

127
00:05:20,390 --> 00:05:16,870
[Music]

128
00:05:26,070 --> 00:05:20,400
you can count on adrian with

129
00:05:29,350 --> 00:05:28,790
hi everyone recently i wrote my first

130
00:05:31,510 --> 00:05:29,360
report

131
00:05:33,510 --> 00:05:31,520
for the skeptic the journal from

132
00:05:36,230 --> 00:05:33,520
australian skeptics

133
00:05:37,590 --> 00:05:36,240
it's about the great australian psychic

134
00:05:39,749 --> 00:05:37,600
prediction project

135
00:05:41,670 --> 00:05:39,759
something i've been involved with since

136
00:05:44,629 --> 00:05:41,680
mid 2020

137
00:05:45,909 --> 00:05:44,639
anyway editor tim mendem decided to make

138
00:05:47,990 --> 00:05:45,919

this report the feature

139

00:05:49,189 --> 00:05:48,000

article in the latest issue of the

140

00:05:51,270 --> 00:05:49,199

magazine

141

00:05:52,870 --> 00:05:51,280

you can read this report for yourself as

142

00:05:58,790 --> 00:05:52,880

it's available for download

143

00:06:01,830 --> 00:05:58,800

at www.skeptics.com.a you

144

00:06:06,870 --> 00:06:01,840

or you can listen to it right now as i

145

00:06:09,029 --> 00:06:06,880

and richard saunders read it to you

146

00:06:11,430 --> 00:06:09,039

[Music]

147

00:06:14,309 --> 00:06:11,440

i am going to relate the pleasures and

148

00:06:15,189 --> 00:06:14,319

preoccupations on pondering the spurious

149

00:06:18,550 --> 00:06:15,199

predictions

150

00:06:22,870 --> 00:06:18,560

of psychics called not

151
00:06:29,350 --> 00:06:26,550
since last june 2020 when susan gerbic

152
00:06:30,469 --> 00:06:29,360
from gsow gorilla skepticism on

153
00:06:33,350 --> 00:06:30,479
wikipedia

154
00:06:33,990 --> 00:06:33,360
started a weekly trivia game online i

155
00:06:36,790 --> 00:06:34,000
have been getting

156
00:06:37,270 --> 00:06:36,800
to know richard saunders who also takes

157
00:06:39,749 --> 00:06:37,280
part

158
00:06:41,590 --> 00:06:39,759
quite well as from time to time we've

159
00:06:45,270 --> 00:06:41,600
been on the same virtual team

160
00:06:47,830 --> 00:06:45,280
in july we also watched nexus

161
00:06:48,790 --> 00:06:47,840
the northeast conference on science and

162
00:06:51,350 --> 00:06:48,800
skepticism

163
00:06:53,110 --> 00:06:51,360

together along with susan gerbic and

164

00:06:54,710 --> 00:06:53,120

others in her extensive web of

165

00:06:56,870 --> 00:06:54,720

connections

166

00:06:58,550 --> 00:06:56,880

at one of the trivia games richard

167

00:06:59,749 --> 00:06:58,560

announced he was looking for people to

168

00:07:01,990 --> 00:06:59,759

help him on his

169

00:07:03,430 --> 00:07:02,000

great australian psychic prediction

170

00:07:05,510 --> 00:07:03,440

project

171

00:07:06,629 --> 00:07:05,520

of course i was very familiar with his

172

00:07:08,309 --> 00:07:06,639

podcast voice

173

00:07:09,990 --> 00:07:08,319

and while the chance to work with

174

00:07:12,629 --> 00:07:10,000

richard was a bit daunting

175

00:07:14,150 --> 00:07:12,639

i was excited to join the project for

176

00:07:15,990 --> 00:07:14,160

two reasons

177

00:07:18,070 --> 00:07:16,000

i was in awe of working with the man

178

00:07:19,990 --> 00:07:18,080

behind the skeptic's own podcast

179

00:07:21,430 --> 00:07:20,000

and i did not know much about the

180

00:07:24,150 --> 00:07:21,440

psychic world

181

00:07:26,070 --> 00:07:24,160

my previous belief was that others did

182

00:07:28,390 --> 00:07:26,080

not truly believe in psychics

183

00:07:30,230 --> 00:07:28,400

didn't people notice the for

184

00:07:32,390 --> 00:07:30,240

entertainment purposes only

185

00:07:34,150 --> 00:07:32,400

disclaimers usually added to the

186

00:07:36,309 --> 00:07:34,160

television shows

187

00:07:38,390 --> 00:07:36,319

didn't they know that some psychics are

188

00:07:41,589 --> 00:07:38,400

just really good at reading people

189

00:07:43,430 --> 00:07:41,599

mentalists under another name i had lots

190

00:07:44,230 --> 00:07:43,440

of friends who had visited various types

191

00:07:46,790 --> 00:07:44,240

of psychics

192

00:07:48,950 --> 00:07:46,800

t readers to mediums but they did not

193

00:07:51,270 --> 00:07:48,960

seem to take it too seriously

194

00:07:52,629 --> 00:07:51,280

susan gerbic opened my eyes to the harm

195

00:07:55,029 --> 00:07:52,639

that psychics can cause

196

00:07:56,790 --> 00:07:55,039

when i attended her workshop at cycon

197

00:07:57,589 --> 00:07:56,800

hosted by the committee for skeptical

198

00:08:01,749 --> 00:07:57,599

inquiry

199

00:08:04,950 --> 00:08:01,759

in 2018 being a recent member

200

00:08:06,790 --> 00:08:04,960

of susan gerbeck's gsow team i learned

201
00:08:09,110 --> 00:08:06,800
about the various things she and her

202
00:08:10,710 --> 00:08:09,120
team had been involved in

203
00:08:12,790 --> 00:08:10,720
with this new understanding of the

204
00:08:15,189 --> 00:08:12,800
potential damage that psychics can bring

205
00:08:17,510 --> 00:08:15,199
to people emotionally and financially

206
00:08:20,550 --> 00:08:17,520
i look forward to the opportunity of

207
00:08:24,150 --> 00:08:20,560
helping with richard's project

208
00:08:26,629 --> 00:08:24,160
as search begins we meet via zoom

209
00:08:28,230 --> 00:08:26,639
video conferencing every tuesday

210
00:08:30,469 --> 00:08:28,240
canadian time

211
00:08:32,550 --> 00:08:30,479
if possible and the group size has

212
00:08:35,350 --> 00:08:32,560
ranged from three to seven people

213
00:08:35,750 --> 00:08:35,360

richard gives us a prediction and a year

214

00:08:38,310 --> 00:08:35,760

then

215

00:08:41,589 --> 00:08:38,320

we all set about searching the internet

216

00:08:43,750 --> 00:08:41,599

to find out if the prediction came true

217

00:08:45,350 --> 00:08:43,760

since the psychics are australian we

218

00:08:47,350 --> 00:08:45,360

have learned much about australian

219

00:08:49,990 --> 00:08:47,360

politics scandals celebrities

220

00:08:52,470 --> 00:08:50,000

natural disasters real estate trends

221

00:08:54,550 --> 00:08:52,480

sports and weather patterns

222

00:08:57,910 --> 00:08:54,560

world events creep in occasionally

223

00:09:00,949 --> 00:08:57,920

especially regarding u.s politics trump

224

00:09:03,670 --> 00:09:00,959

and celebrities jennifer aniston

225

00:09:05,590 --> 00:09:03,680

we commonly groan when richard brings up

226

00:09:07,910 --> 00:09:05,600

yet another celebrity prediction

227

00:09:09,110 --> 00:09:07,920

we have gotten to know nicole kidman

228

00:09:11,750 --> 00:09:09,120

keith urban

229

00:09:12,310 --> 00:09:11,760

and kylie and danny minogue just to name

230

00:09:15,350 --> 00:09:12,320

a few

231

00:09:17,030 --> 00:09:15,360

very well we cheer when we get a natural

232

00:09:18,949 --> 00:09:17,040

disaster prediction because the group

233

00:09:19,829 --> 00:09:18,959

finds weather patterns volcanoes and

234

00:09:22,389 --> 00:09:19,839

earthquakes

235

00:09:23,829 --> 00:09:22,399

or as richard types them unintentionally

236

00:09:27,030 --> 00:09:23,839

earthquakes

237

00:09:29,269 --> 00:09:27,040

much more interesting rob palmer

238

00:09:30,070 --> 00:09:29,279

who writes for skeptical enquirer under

239

00:09:33,430 --> 00:09:30,080

the pen name

240

00:09:35,190 --> 00:09:33,440

of the well-known skeptic was very upset

241

00:09:36,949 --> 00:09:35,200

when we thought we had investigated the

242

00:09:39,430 --> 00:09:36,959

last natural disaster

243

00:09:40,710 --> 00:09:39,440

but richard was kind and found more for

244

00:09:42,949 --> 00:09:40,720

us to examine

245

00:09:44,470 --> 00:09:42,959

one of his habits is to somehow find

246

00:09:46,230 --> 00:09:44,480

more predictions

247

00:09:48,790 --> 00:09:46,240

just when we think we are nearing the

248

00:09:51,190 --> 00:09:48,800

end even with natural disasters

249

00:09:53,670 --> 00:09:51,200

the psychics managed to disappoint with

250

00:09:54,870 --> 00:09:53,680

such expected predictions as

251
00:09:56,710 --> 00:09:54,880
there will be an earthquake in

252
00:09:58,230 --> 00:09:56,720
california in june

253
00:10:00,870 --> 00:09:58,240
or there will be a record low

254
00:10:04,630 --> 00:10:00,880
temperature in canada or russia

255
00:10:07,990 --> 00:10:04,640
our favorite to date a volcano

256
00:10:11,110 --> 00:10:08,000
might erupt predicted by julie ware

257
00:10:13,430 --> 00:10:11,120
for 2010 while debating

258
00:10:15,670 --> 00:10:13,440
how to categorize the prediction sea

259
00:10:17,110 --> 00:10:15,680
levels increase for queensland and parts

260
00:10:20,550 --> 00:10:17,120
of new south wales

261
00:10:24,069 --> 00:10:20,560
causing damage to coastlines written by

262
00:10:27,110 --> 00:10:24,079
carrie irwin for 2015.

263
00:10:28,949 --> 00:10:27,120

as too vague or incorrect kelly burke

264

00:10:30,870 --> 00:10:28,959

explained can't we just make a new

265

00:10:32,069 --> 00:10:30,880

category called this prediction is

266

00:10:35,829 --> 00:10:32,079

stupid

267

00:10:38,550 --> 00:10:35,839

causing gales of laughter the weird

268

00:10:40,069 --> 00:10:38,560

and wonderful we have seen the same

269

00:10:42,389 --> 00:10:40,079

types of predictions repeated

270

00:10:44,310 --> 00:10:42,399

year after year the psychics seem to be

271

00:10:45,910 --> 00:10:44,320

trying to capitalize on the advancing

272

00:10:47,750 --> 00:10:45,920

age of the queen and prince philip

273

00:10:50,470 --> 00:10:47,760

predicting a death in the royal family

274

00:10:53,190 --> 00:10:50,480

many times over the last 20 years

275

00:10:55,350 --> 00:10:53,200

i foresee that within the next 10 years

276

00:10:57,910 --> 00:10:55,360

they will finally get it right and say

277

00:10:59,590 --> 00:10:57,920

see i am amazing and it is worth paying

278

00:11:01,509 --> 00:10:59,600

me money

279

00:11:03,590 --> 00:11:01,519

there is much laughter in our sessions

280

00:11:06,470 --> 00:11:03,600

the predictions not surprisingly

281

00:11:06,870 --> 00:11:06,480

often are very vague or as richard puts

282

00:11:09,750 --> 00:11:06,880

it

283

00:11:10,470 --> 00:11:09,760

they are nothing but waffle they are so

284

00:11:13,269 --> 00:11:10,480

wuffly

285

00:11:14,389 --> 00:11:13,279

that sometimes they have canadian maple

286

00:11:16,389 --> 00:11:14,399

syrup on them

287

00:11:17,910 --> 00:11:16,399

that's my canadian spin on the

288

00:11:19,750 --> 00:11:17,920

expression

289

00:11:21,910 --> 00:11:19,760

a fully formed prediction cannot be

290

00:11:24,790 --> 00:11:21,920

found causing us to shake our heads and

291

00:11:27,910 --> 00:11:24,800

move quickly to the next one

292

00:11:28,710 --> 00:11:27,920

newlyweds penelope cruz and javier

293

00:11:30,949 --> 00:11:28,720

bartom

294

00:11:32,870 --> 00:11:30,959

have a great chart together she's a

295

00:11:35,509 --> 00:11:32,880

taurus and he's a pisces

296

00:11:36,710 --> 00:11:35,519

which is a good match for a start but

297

00:11:40,310 --> 00:11:36,720

more importantly

298

00:11:43,509 --> 00:11:40,320

his son his self is on her jupiter

299

00:11:44,949 --> 00:11:43,519

her feel good planet so they can always

300

00:11:47,590 --> 00:11:44,959

cheer each other up

301
00:11:48,389 --> 00:11:47,600
plus her loving venus opposes his

302
00:11:51,990 --> 00:11:48,399
passionate

303
00:11:53,829 --> 00:11:52,000
pluto so the romantic sparks fly

304
00:11:56,310 --> 00:11:53,839
they have a better chance of going the

305
00:12:01,590 --> 00:11:56,320
distance than many star couples

306
00:12:04,069 --> 00:12:01,600
predicted by yasmine boland for 2010

307
00:12:06,150 --> 00:12:04,079
and overall there's going to be some

308
00:12:07,590 --> 00:12:06,160
wonderful features from mother earth

309
00:12:10,230 --> 00:12:07,600
across the stock market

310
00:12:11,030 --> 00:12:10,240
as well as some beautiful tv shows

311
00:12:15,269 --> 00:12:11,040
prediction

312
00:12:17,110 --> 00:12:15,279
by maria alita for 2007

313
00:12:19,030 --> 00:12:17,120

those of us from north america have

314

00:12:22,230 --> 00:12:19,040

increased our vocabulary with such

315

00:12:23,110 --> 00:12:22,240

gems as taking the piss or yanking your

316

00:12:26,389 --> 00:12:23,120

chain

317

00:12:29,670 --> 00:12:26,399

cyclone or hurricane and top end

318

00:12:30,389 --> 00:12:29,680

the north of australia as in miss

319

00:12:32,790 --> 00:12:30,399

godfrey

320

00:12:33,829 --> 00:12:32,800

also predicted a big year of top-end

321

00:12:38,230 --> 00:12:33,839

cyclones

322

00:12:40,949 --> 00:12:38,240

predicted by tracy godfrey for 2003.

323

00:12:42,870 --> 00:12:40,959

the us and canada crew were completely

324

00:12:45,670 --> 00:12:42,880

confused when we read

325

00:12:47,030 --> 00:12:45,680

with clucky venus growing even brighter

326

00:12:49,350 --> 00:12:47,040

over the next few years

327

00:12:50,870 --> 00:12:49,360

there's no doubt family expansion is the

328

00:12:53,910 --> 00:12:50,880

name of the game

329

00:12:57,590 --> 00:12:53,920

predicted by jenny bloom for 2011

330

00:12:59,030 --> 00:12:57,600

regarding penelope cruz our responses

331

00:13:02,230 --> 00:12:59,040

range from

332

00:13:02,949 --> 00:13:02,240

how can venus clock to did venus grow

333

00:13:05,350 --> 00:13:02,959

wings

334

00:13:07,509 --> 00:13:05,360

but we soon learned that in australia it

335

00:13:09,990 --> 00:13:07,519

means venus wants to have a child

336

00:13:11,110 --> 00:13:10,000

the clucky jokes have not ended and some

337

00:13:12,949 --> 00:13:11,120

have declared

338

00:13:15,030 --> 00:13:12,959

that they want to try to use the word at

339

00:13:16,710 --> 00:13:15,040

least once every day

340

00:13:18,069 --> 00:13:16,720

some of the predictions contradict

341

00:13:20,790 --> 00:13:18,079

themselves to ensure

342

00:13:21,990 --> 00:13:20,800

they will come true a star will get

343

00:13:23,990 --> 00:13:22,000

pregnant or not

344

00:13:26,150 --> 00:13:24,000

get a divorce or not will be happy or

345

00:13:28,550 --> 00:13:26,160

not and sometimes they are both

346

00:13:31,750 --> 00:13:28,560

contradictory and nonsensical

347

00:13:34,629 --> 00:13:31,760

in my mind last night i was seeing fire

348

00:13:35,590 --> 00:13:34,639

like an explosion but it isn't really an

349

00:13:38,069 --> 00:13:35,600

explosion

350

00:13:39,110 --> 00:13:38,079

it's got to be something to do with some

351
00:13:42,710 --> 00:13:39,120
sort of atomic

352
00:13:43,430 --> 00:13:42,720
kind of explosion prediction by simon

353
00:13:48,310 --> 00:13:43,440
turnbull

354
00:13:51,269 --> 00:13:48,320
for 2010 the biggest laughs came from

355
00:13:52,069 --> 00:13:51,279
75 percent of babies born in 2010 will

356
00:13:55,670 --> 00:13:52,079
be female

357
00:13:58,150 --> 00:13:55,680
predicted by michael armstrong for 2010

358
00:13:58,790 --> 00:13:58,160
and donald trump will make a good

359
00:14:01,350 --> 00:13:58,800
president

360
00:14:02,870 --> 00:14:01,360
and his cabinet will be the best the u.s

361
00:14:07,670 --> 00:14:02,880
has seen for years

362
00:14:11,189 --> 00:14:07,680
predicted by milton black for 2017

363
00:14:13,509 --> 00:14:11,199

fun and not so fun our group

364

00:14:15,030 --> 00:14:13,519

can easily and happily get distracted

365

00:14:17,189 --> 00:14:15,040

usually by richard's cats

366

00:14:18,150 --> 00:14:17,199

that like to walk on the keyboard knock

367

00:14:19,910 --> 00:14:18,160

his camera

368

00:14:21,829 --> 00:14:19,920

get our attention by being cute in the

369

00:14:23,670 --> 00:14:21,839

laundry basket or demand richard play

370

00:14:25,030 --> 00:14:23,680

with them by throwing a toy repeatedly

371

00:14:27,590 --> 00:14:25,040

down the stairs

372

00:14:29,829 --> 00:14:27,600

or by wendy hughes's dog and my dog

373

00:14:32,069 --> 00:14:29,839

barking at each other over zoom

374

00:14:33,910 --> 00:14:32,079

international pet communication that

375

00:14:35,910 --> 00:14:33,920

hurts richard's ears

376

00:14:37,509 --> 00:14:35,920

the past few weeks the distractions have

377

00:14:38,949 --> 00:14:37,519

been mostly about the happenings at the

378

00:14:40,550 --> 00:14:38,959

u.s capitol

379

00:14:41,990 --> 00:14:40,560

the psychic prediction project has a

380

00:14:44,710 --> 00:14:42,000

facebook messenger group

381

00:14:45,670 --> 00:14:44,720

and on january 6 at around 10 a.m

382

00:14:49,110 --> 00:14:45,680

mountain time

383

00:14:51,750 --> 00:14:49,120

and 4 a.m sydney time susan gerbic

384

00:14:52,870 --> 00:14:51,760

accidentally posteriorly dialed the

385

00:14:56,310 --> 00:14:52,880

group

386

00:14:59,269 --> 00:14:56,320

leonard tremmel wendy hughes rob palmer

387

00:15:00,069 --> 00:14:59,279

kelly burke michelle bickersma richard

388

00:15:03,350 --> 00:15:00,079

sanders

389

00:15:03,750 --> 00:15:03,360

and i all answered the call rob at the

390

00:15:05,750 --> 00:15:03,760

time

391

00:15:07,829 --> 00:15:05,760

was watching the ceremonial counting of

392

00:15:10,069 --> 00:15:07,839

the electoral votes at the capitol

393

00:15:12,470 --> 00:15:10,079

so he pointed his camera at the tv

394

00:15:14,389 --> 00:15:12,480

screen and we watched

395

00:15:16,710 --> 00:15:14,399

i found this very interesting since in

396

00:15:18,550 --> 00:15:16,720

canada our electoral process is quite

397

00:15:19,750 --> 00:15:18,560

different and having some handy u.s

398

00:15:22,550 --> 00:15:19,760

citizens explain

399

00:15:24,710 --> 00:15:22,560

things to me was highly educational we

400

00:15:25,509 --> 00:15:24,720

did not expect to see the turmoil that

401
00:15:28,949 --> 00:15:25,519
happened

402
00:15:30,870 --> 00:15:28,959
that day live together

403
00:15:32,949 --> 00:15:30,880
we witnessed the confusion when all

404
00:15:35,990 --> 00:15:32,959
talking stopped and we heard the words

405
00:15:36,470 --> 00:15:36,000
we are in lockdown our group watched in

406
00:15:38,150 --> 00:15:36,480
horror

407
00:15:39,670 --> 00:15:38,160
chilling moments such as guards with

408
00:15:42,310 --> 00:15:39,680
guns drawn and

409
00:15:44,470 --> 00:15:42,320
pointing at the faces in the door people

410
00:15:47,269 --> 00:15:44,480
climbing up the facade of the building

411
00:15:49,269 --> 00:15:47,279
and the destruction of media equipment

412
00:15:51,990 --> 00:15:49,279
isn't it amazing that this event

413
00:15:53,990 --> 00:15:52,000

is nowhere to be found in the ponderings

414

00:15:56,550 --> 00:15:54,000

of those who claim to be able to predict

415

00:15:57,110 --> 00:15:56,560

the future the psychic prediction

416

00:15:58,949 --> 00:15:57,120

project

417

00:16:00,230 --> 00:15:58,959

has turned from a team helping richard

418

00:16:02,230 --> 00:16:00,240

saunders research

419

00:16:03,670 --> 00:16:02,240

into a group of friends who talk to each

420

00:16:06,310 --> 00:16:03,680

other on a regular basis

421

00:16:07,269 --> 00:16:06,320

outside of the project i have learned so

422

00:16:08,870 --> 00:16:07,279

much from this crew

423

00:16:11,030 --> 00:16:08,880

and i am grateful that they have

424

00:16:13,509 --> 00:16:11,040

welcomed me into their world

425

00:16:15,350 --> 00:16:13,519

i am almost hopeful that richard keeps

426

00:16:19,110 --> 00:16:15,360

finding more predictions

427

00:16:21,110 --> 00:16:19,120

as long as they are natural disasters

428

00:16:23,670 --> 00:16:21,120

the great australian psychic prediction

429

00:16:26,629 --> 00:16:23,680

project team i have worked with to date

430

00:16:28,230 --> 00:16:26,639

are michelle bickersma rob palmer

431

00:16:31,749 --> 00:16:28,240

leonard tremel

432

00:16:35,350 --> 00:16:31,759

paula lauterbach louis hillman

433

00:16:38,230 --> 00:16:35,360

wendy hughes dr angie mattke kelly burke

434

00:16:43,030 --> 00:16:38,240

and of course susan gerbic and richard

435

00:16:47,749 --> 00:16:46,550

richard's addendum i still didn't see it

436

00:16:50,310 --> 00:16:47,759

coming

437

00:16:52,629 --> 00:16:50,320

at a short talk during the 2018

438

00:16:54,710 --> 00:16:52,639

australian skeptics convention

439

00:16:56,790 --> 00:16:54,720

i updated the audience as to the

440

00:16:58,389 --> 00:16:56,800

progress of the great australian psychic

441

00:17:00,710 --> 00:16:58,399

prediction project

442

00:17:02,550 --> 00:17:00,720

long time readers may detect a theme

443

00:17:06,069 --> 00:17:02,560

here with the use of the word

444

00:17:07,750 --> 00:17:06,079

great as in the great water divining dvd

445

00:17:11,510 --> 00:17:07,760

and the great skeptic

446

00:17:13,350 --> 00:17:11,520

cd of years past the aim was to assess

447

00:17:14,230 --> 00:17:13,360

every psychic prediction published in

448

00:17:17,590 --> 00:17:14,240

australia since

449

00:17:18,630 --> 00:17:17,600

2000 the sort of stuff you see in

450

00:17:21,909 --> 00:17:18,640

columns of

451

00:17:24,309 --> 00:17:21,919

psychic predictions for 2001.

452

00:17:25,350 --> 00:17:24,319

i predicted with confidence that the

453

00:17:28,390 --> 00:17:25,360

whole affair

454

00:17:31,750 --> 00:17:28,400

would be finished by the end of 2019

455

00:17:33,190 --> 00:17:31,760

and the results published alas like most

456

00:17:36,310 --> 00:17:33,200

of the predictions

457

00:17:36,710 --> 00:17:36,320

that was wrong however at long last the

458

00:17:39,350 --> 00:17:36,720

end

459

00:17:40,789 --> 00:17:39,360

is in sight as i have had enormous help

460

00:17:44,150 --> 00:17:40,799

from a small but

461

00:17:47,830 --> 00:17:44,160

dedicated team over much of 2020 and

462

00:17:51,110 --> 00:17:47,840

that 2020 is indeed the cut-off year

463

00:17:53,750 --> 00:17:51,120

that means no predictions made for 2021

464

00:17:56,510 --> 00:17:53,760

and beyond will be considered as of

465

00:17:59,470 --> 00:17:56,520

writing the project contains

466

00:18:03,110 --> 00:17:59,480

3224 predictions with around

467

00:18:04,870 --> 00:18:03,120

650 yet to analyze

468

00:18:06,310 --> 00:18:04,880

and as an aside i can update that

469

00:18:07,110 --> 00:18:06,320

slightly because of the progress we're

470

00:18:10,630 --> 00:18:07,120

making

471

00:18:13,830 --> 00:18:10,640

i think we're around the 400

472

00:18:15,510 --> 00:18:13,840

mark 400 predictions yet to analyze

473

00:18:18,710 --> 00:18:15,520

let's read on

474

00:18:20,710 --> 00:18:18,720

being an australian project i think we

475

00:18:22,710 --> 00:18:20,720

might glance at some of the predictions

476
00:18:23,990 --> 00:18:22,720
concerning a matter of vital importance

477
00:18:26,070 --> 00:18:24,000
to australians

478
00:18:27,510 --> 00:18:26,080
and what can be more important than the

479
00:18:29,270 --> 00:18:27,520
melbourne cup

480
00:18:31,270 --> 00:18:29,280
for non-australians that's australia's

481
00:18:34,549 --> 00:18:31,280
highest profile horse race

482
00:18:36,710 --> 00:18:34,559
now this is not so tongue-in-cheek as

483
00:18:40,549 --> 00:18:36,720
you may think for a number of reasons

484
00:18:43,270 --> 00:18:40,559
first this topic like any in the project

485
00:18:43,750 --> 00:18:43,280
has the opportunity to show us that

486
00:18:46,950 --> 00:18:43,760
there

487
00:18:48,549 --> 00:18:46,960
are indeed some people who can peer into

488
00:18:50,870 --> 00:18:48,559

the future

489

00:18:51,909 --> 00:18:50,880

second we are forced to consider what

490

00:18:54,870 --> 00:18:51,919

this would mean

491

00:18:56,070 --> 00:18:54,880

in the case of horse racing like any

492

00:18:59,270 --> 00:18:56,080

sporting event

493

00:19:02,310 --> 00:18:59,280

the heart of racing is in the training

494

00:19:04,789 --> 00:19:02,320

the skill in this case the jockey the

495

00:19:07,830 --> 00:19:04,799

financial backing and so on

496

00:19:10,870 --> 00:19:07,840

it is also the great unknown of how

497

00:19:12,630 --> 00:19:10,880

any particular race will play out the

498

00:19:15,909 --> 00:19:12,640

excitement of jumping up and down

499

00:19:19,510 --> 00:19:15,919

hoping and willing your horse to win now

500

00:19:21,270 --> 00:19:19,520

imagine if the result was simply known

501
00:19:24,710 --> 00:19:21,280
before the starter's gun was

502
00:19:27,590 --> 00:19:24,720
fired even if the result was known

503
00:19:29,029 --> 00:19:27,600
five times out of ten there would be no

504
00:19:32,390 --> 00:19:29,039
horse racing

505
00:19:34,669 --> 00:19:32,400
maybe a good thing as at its core

506
00:19:36,230 --> 00:19:34,679
it needs each race to have

507
00:19:38,950 --> 00:19:36,240
unpredictability

508
00:19:39,669 --> 00:19:38,960
with everyone backing the same horse to

509
00:19:41,750 --> 00:19:39,679
win

510
00:19:42,789 --> 00:19:41,760
the industry behind racing would

511
00:19:45,909 --> 00:19:42,799
collapse

512
00:19:48,230 --> 00:19:45,919
still let's give our sears a chance

513
00:19:49,110 --> 00:19:48,240

and examine the results of 20 years of

514

00:19:52,390 --> 00:19:49,120

predictions

515

00:19:53,430 --> 00:19:52,400

for the melbourne cup to date we have 55

516

00:19:56,549 --> 00:19:53,440

predictions

517

00:20:00,390 --> 00:19:56,559

made from 2000 to 2020 with

518

00:20:02,390 --> 00:20:00,400

10 being marked correct although it's

519

00:20:03,830 --> 00:20:02,400

true that some have predicted the

520

00:20:07,029 --> 00:20:03,840

winning horse

521

00:20:08,070 --> 00:20:07,039

five times some of the other predictions

522

00:20:11,190 --> 00:20:08,080

marked correct

523

00:20:12,310 --> 00:20:11,200

are for example melbourne cup with the

524

00:20:14,549 --> 00:20:12,320

moon in gemini

525

00:20:16,710 --> 00:20:14,559

on the day the horse that wins this

526

00:20:18,710 --> 00:20:16,720

year's cup is predicted to be a

527

00:20:19,510 --> 00:20:18,720

medium-high gelding with overseas

528

00:20:21,510 --> 00:20:19,520

breeding

529

00:20:24,070 --> 00:20:21,520

or it could be trained some distance

530

00:20:27,909 --> 00:20:24,080

from melbourne and has traveled far

531

00:20:31,750 --> 00:20:27,919

to the race milton black 2006

532

00:20:32,470 --> 00:20:31,760

or i feel like it's not gay waterhouse's

533

00:20:35,590 --> 00:20:32,480

year

534

00:20:36,630 --> 00:20:35,600

it is a male trainer melbourne cup jen

535

00:20:40,149 --> 00:20:36,640

makai

536

00:20:43,430 --> 00:20:40,159

2008 are we being

537

00:20:43,830 --> 00:20:43,440

too generous to mark these as correct as

538

00:20:47,270 --> 00:20:43,840

we

539

00:20:50,149 --> 00:20:47,280

would if they had named the actual horse

540

00:20:51,270 --> 00:20:50,159

regardless the overall results are not

541

00:20:54,310 --> 00:20:51,280

great for those who

542

00:20:56,789 --> 00:20:54,320

claim to see into the future and from

543

00:20:59,750 --> 00:20:56,799

what we have gathered so far

544

00:21:01,110 --> 00:20:59,760

i wouldn't be placing any bets based on

545

00:21:06,470 --> 00:21:01,120

their mystical

546

00:21:09,750 --> 00:21:08,870

remember you can download this report

547

00:21:14,789 --> 00:21:09,760

and much more

548

00:21:16,660 --> 00:21:14,799

from www.skeptics.com.a you

549

00:21:29,830 --> 00:21:16,670

bye for now

550

00:21:33,270 --> 00:21:32,470

hey adrian hi susan out for some

551
00:21:35,430 --> 00:21:33,280
shopping eh

552
00:21:37,110 --> 00:21:35,440
yep i'm stocking up on this imitation

553
00:21:40,149 --> 00:21:37,120
maple syrup from australia

554
00:21:42,789 --> 00:21:40,159
imitation imitation

555
00:21:43,190 --> 00:21:42,799
no no no no you need to buy the real

556
00:21:46,230 --> 00:21:43,200
thing

557
00:21:48,230 --> 00:21:46,240
from canada but i saw the tv commercial

558
00:21:49,909 --> 00:21:48,240
and it said that noted pancake eating

559
00:21:51,750 --> 00:21:49,919
expert richard saunders says it's the

560
00:21:53,430 --> 00:21:51,760
best maple syrup money can buy

561
00:21:54,870 --> 00:21:53,440
and sixty percent of people preferred in

562
00:21:57,750 --> 00:21:54,880
a blind taste test

563
00:21:58,710 --> 00:21:57,760

everyone knows it's the best oh come on

564

00:22:00,950 --> 00:21:58,720

susan

565

00:22:02,549 --> 00:22:00,960

you know better than that that's the

566

00:22:05,750 --> 00:22:02,559

argument from authority

567

00:22:09,350 --> 00:22:05,760

it is or is it the argument from

568

00:22:11,350 --> 00:22:09,360

popularity hmm it might be another

569

00:22:13,110 --> 00:22:11,360

logical fallacy i'm not sure

570

00:22:20,149 --> 00:22:13,120

really if only we had a way of finding

571

00:22:25,909 --> 00:22:23,669

hello everyone oh my it's the skeptical

572

00:22:26,390 --> 00:22:25,919

fairy godmother angel from the internet

573

00:22:28,870 --> 00:22:26,400

yes

574

00:22:29,510 --> 00:22:28,880

that's right but how did you know who i

575

00:22:32,789 --> 00:22:29,520

am

576

00:22:35,190 --> 00:22:32,799

i listened to the skeptic zone podcast

577

00:22:35,830 --> 00:22:35,200

also didn't you used to be the tooth

578

00:22:40,710 --> 00:22:35,840

fairy

579

00:22:43,750 --> 00:22:40,720

oh yes i remember you

580

00:22:45,510 --> 00:22:43,760

i'll never forget your left upper

581

00:22:49,750 --> 00:22:45,520

lateral incisor

582

00:22:51,750 --> 00:22:49,760

would you like it back no it's okay

583

00:22:53,350 --> 00:22:51,760

you keep it hey skeptical fairy

584

00:22:54,710 --> 00:22:53,360

godmother angel what are you doing here

585

00:22:57,029 --> 00:22:54,720

in the supermarket

586

00:22:57,750 --> 00:22:57,039

i've come to tell you that you can find

587

00:22:59,909 --> 00:22:57,760

out about

588

00:23:00,870 --> 00:22:59,919

40 different logical fallacies on

589

00:23:04,950 --> 00:23:00,880

youtube

590

00:23:05,590 --> 00:23:04,960

in one handy location listen to each one

591

00:23:08,149 --> 00:23:05,600

to hear an

592

00:23:11,510 --> 00:23:08,159

explanation and examples of how they

593

00:23:18,390 --> 00:23:15,390

just go to tinyurl.com

594

00:23:20,470 --> 00:23:18,400

logicalzone and you'll find all the

595

00:23:21,590 --> 00:23:20,480

logical fallacies with michelle

596

00:23:23,990 --> 00:23:21,600

bickersmart

597

00:23:25,430 --> 00:23:24,000

with handy time codes to get to the

598

00:23:28,470 --> 00:23:25,440

exact one you want

599

00:23:30,990 --> 00:23:28,480

who is michelle biggesmar oh just a

600

00:23:34,390 --> 00:23:31,000

friend of mine

601
00:23:36,310 --> 00:23:34,400
tinyurl.com logicalzone

602
00:23:39,029 --> 00:23:36,320
thank you skeptical fairy godmother

603
00:23:41,350 --> 00:23:39,039
angel i guess you'll disappear in a puff

604
00:23:44,870 --> 00:23:41,360
of smoke and thunder now eh

605
00:23:46,310 --> 00:23:44,880
um not quite yet i have a bit of

606
00:23:50,070 --> 00:23:46,320
shopping to do

607
00:23:53,269 --> 00:23:50,080
susan yes where do i find the

608
00:23:56,070 --> 00:23:53,279
australian maple syrup

609
00:23:57,590 --> 00:23:56,080
what no no no come with me so-called

610
00:24:09,990 --> 00:23:57,600
skeptical fairy

611
00:24:18,950 --> 00:24:14,070
here's maynard's spooky action

612
00:24:20,230 --> 00:24:18,960
at a distance and we're back with dr

613
00:24:22,870 --> 00:24:20,240

ramon kai talking about

614

00:24:25,510 --> 00:24:22,880

his book fake medicine and it's even got

615

00:24:27,830 --> 00:24:25,520

its own tinfoil hat on the front cover

616

00:24:29,669 --> 00:24:27,840

yeah so i've got a special tin foil

617

00:24:30,549 --> 00:24:29,679

cover to uh to go over the book just for

618

00:24:32,070 --> 00:24:30,559

you maynard

619

00:24:33,110 --> 00:24:32,080

yeah look actually i'm looking here like

620

00:24:35,029 --> 00:24:33,120

most of the books i've got on the

621

00:24:37,269 --> 00:24:35,039

conspiracy theory about the jfk

622

00:24:38,549 --> 00:24:37,279

assassination run for about 800 pages

623

00:24:39,669 --> 00:24:38,559

but considering you've got the entire

624

00:24:41,269 --> 00:24:39,679

history of fake medicine you've been

625

00:24:43,269 --> 00:24:41,279

able to knock it over in under 300. how

626

00:24:44,470 --> 00:24:43,279

do you do that

627

00:24:47,190 --> 00:24:44,480

well the last part of the book is

628

00:24:49,110 --> 00:24:47,200

looking at a lot of conspiracy theories

629

00:24:51,269 --> 00:24:49,120

and looking at how to sort of fix the

630

00:24:52,789 --> 00:24:51,279

future of what skeptics can do

631

00:24:54,710 --> 00:24:52,799

as we're looking forward and trying to

632

00:24:57,190 --> 00:24:54,720

combat misinformation have you got a

633

00:24:58,390 --> 00:24:57,200

favorite a favorite conspiracy theory

634

00:24:59,669 --> 00:24:58,400

there's a couple i've been introduced

635

00:25:00,470 --> 00:24:59,679

lately because i've been listening to

636

00:25:01,830 --> 00:25:00,480

and look i

637

00:25:02,950 --> 00:25:01,840

skeptics will throw their pencils on the

638

00:25:05,190 --> 00:25:02,960

floor if they go there but it's called

639

00:25:08,070 --> 00:25:05,200

the endless plane it's the flat earth

640

00:25:09,830 --> 00:25:08,080

radio network so there's another flat

641

00:25:11,510 --> 00:25:09,840

earth radio network may know it's a

642

00:25:13,590 --> 00:25:11,520

group of people who believe

643

00:25:15,190 --> 00:25:13,600

in the flat earth that we live on a flat

644

00:25:15,909 --> 00:25:15,200

plain and there's a number of them over

645

00:25:18,070 --> 00:25:15,919

the days that

646

00:25:19,029 --> 00:25:18,080

do the show and this guy i was listening

647

00:25:21,750 --> 00:25:19,039

to he was

648

00:25:23,190 --> 00:25:21,760

explaining the great uh the great toucan

649

00:25:24,870 --> 00:25:23,200

hoax he does not believe there's such a

650

00:25:25,830 --> 00:25:24,880

thing as a toucan he also does not

651

00:25:28,230 --> 00:25:25,840

believe that there's not

652

00:25:29,990 --> 00:25:28,240

as much warfare has occurred in history

653

00:25:32,470 --> 00:25:30,000

as we're told in the history books

654

00:25:33,909 --> 00:25:32,480

and he also thinks that the moon looks

655

00:25:36,710 --> 00:25:33,919

more like a

656

00:25:38,549 --> 00:25:36,720

mud puddle and that those can't possibly

657

00:25:40,230 --> 00:25:38,559

be impact craters this is the kind of

658

00:25:42,070 --> 00:25:40,240

thing i'm falling asleep to at night and

659

00:25:43,510 --> 00:25:42,080

going it's like taking my brain on an

660

00:25:45,430 --> 00:25:43,520

excursion it's like dreaming

661

00:25:46,710 --> 00:25:45,440

before i actually dream well there are

662

00:25:47,909 --> 00:25:46,720

some people who don't believe that

663

00:25:50,950 --> 00:25:47,919

australia exists

664

00:25:52,390 --> 00:25:50,960

yeah so yeah so toucan is is nothing in

665

00:25:53,750 --> 00:25:52,400

comparison so where they think all those

666

00:25:55,350 --> 00:25:53,760

dancers in las vegas from the thunder

667

00:25:55,990 --> 00:25:55,360

from down under came from hey there

668

00:25:57,590 --> 00:25:56,000

there's proof

669

00:25:58,950 --> 00:25:57,600

straight away but they must be american

670

00:26:00,149 --> 00:25:58,960

everybody's american aren't they that's

671

00:26:02,230 --> 00:26:00,159

true they are doing that

672

00:26:03,350 --> 00:26:02,240

oh yeah oh yeah so what's what's the one

673

00:26:04,870 --> 00:26:03,360

conspiracy

674

00:26:06,390 --> 00:26:04,880

either intrigues you you find a little

675

00:26:07,909 --> 00:26:06,400

bit kind of funny and interesting

676

00:26:10,070 --> 00:26:07,919

i mean the two the great toucan

677

00:26:12,950 --> 00:26:10,080

conspiracy is interesting to me because

678

00:26:13,590 --> 00:26:12,960

why would you fake being a toucan um why

679

00:26:15,430 --> 00:26:13,600

not

680

00:26:16,789 --> 00:26:15,440

why why is the toucan the bird that's

681

00:26:19,269 --> 00:26:16,799

fake it's a very

682

00:26:20,070 --> 00:26:19,279

random choice i'm sure a platypus is

683

00:26:22,870 --> 00:26:20,080

fake as well

684

00:26:24,390 --> 00:26:22,880

so there are many other things i suppose

685

00:26:25,110 --> 00:26:24,400

one of the one of the things that i find

686

00:26:27,510 --> 00:26:25,120

fascinating

687

00:26:28,549 --> 00:26:27,520

is that um i still have conversations

688

00:26:31,830 --> 00:26:28,559

with my own mother

689

00:26:35,110 --> 00:26:31,840

about the coronavirus being a

690

00:26:36,149 --> 00:26:35,120

creation from a chinese lab um around

691

00:26:38,390 --> 00:26:36,159

wuhan and so

692

00:26:39,990 --> 00:26:38,400

this is something that like we're having

693

00:26:42,149 --> 00:26:40,000

investigators going in

694

00:26:43,990 --> 00:26:42,159

um they haven't found any evidence of it

695

00:26:47,110 --> 00:26:44,000

but my mother is still convinced

696

00:26:49,750 --> 00:26:47,120

that it's definitely um a

697

00:26:51,669 --> 00:26:49,760

chinese conspiracy she's certainly been

698

00:26:54,950 --> 00:26:51,679

exposed to the world

699

00:26:58,310 --> 00:26:54,960

um and many different cultures but it is

700

00:27:00,230 --> 00:26:58,320

it is weird and i think um i think

701
00:27:02,390 --> 00:27:00,240
staying in your house and looking at

702
00:27:04,310 --> 00:27:02,400
things online and being influenced by

703
00:27:06,070 --> 00:27:04,320
other people around you and and

704
00:27:07,590 --> 00:27:06,080
the circle of influence that that you

705
00:27:10,070 --> 00:27:07,600
have um can be

706
00:27:10,789 --> 00:27:10,080
feeding that in uh a lot of my my family

707
00:27:13,269 --> 00:27:10,799
are from

708
00:27:14,789 --> 00:27:13,279
sort of a christian background and so

709
00:27:16,230 --> 00:27:14,799
i've sort of like seen

710
00:27:18,230 --> 00:27:16,240
a lot of their information has been

711
00:27:19,590 --> 00:27:18,240
coming from like friends

712
00:27:21,830 --> 00:27:19,600
that are from their like christian

713
00:27:23,590 --> 00:27:21,840

workplaces or from their church

714

00:27:25,590 --> 00:27:23,600

um it seems to be propagating a lot of

715

00:27:27,430 --> 00:27:25,600

these myths about

716

00:27:28,870 --> 00:27:27,440

about vaccinations and also about how

717

00:27:31,590 --> 00:27:28,880

how bad or how good

718

00:27:32,950 --> 00:27:31,600

coronavirus could be for you well one of

719

00:27:34,070 --> 00:27:32,960

the things that we're finding is a

720

00:27:36,149 --> 00:27:34,080

skeptical community

721

00:27:37,350 --> 00:27:36,159

and this is from like interviewing a few

722

00:27:40,470 --> 00:27:37,360

people around the place as well

723

00:27:43,990 --> 00:27:40,480

is that there seems to be a strange

724

00:27:46,870 --> 00:27:44,000

process from um from being vegetarian

725

00:27:47,750 --> 00:27:46,880

to then being into whole foods um to

726

00:27:50,389 --> 00:27:47,760

then becoming an

727

00:27:51,830 --> 00:27:50,399

anti-vaxxer to then believing in more

728

00:27:54,789 --> 00:27:51,840

conspiracy theories

729

00:27:56,389 --> 00:27:54,799

and then becoming a neo-nazi so there's

730

00:27:58,389 --> 00:27:56,399

this really weird

731

00:27:59,669 --> 00:27:58,399

progression that's a pretty amazing

732

00:28:01,830 --> 00:27:59,679

looking flow chart

733

00:28:03,669 --> 00:28:01,840

starts with a lot of people and then a

734

00:28:06,870 --> 00:28:03,679

few very dangerous ones

735

00:28:08,389 --> 00:28:06,880

so some of the the yeah i'm saying it a

736

00:28:10,870 --> 00:28:08,399

bit a little bit in jest

737

00:28:12,310 --> 00:28:10,880

but some of the some people do do get

738

00:28:14,149 --> 00:28:12,320

online and they're looking at youtube

739

00:28:14,710 --> 00:28:14,159

videos they're sort of like starting to

740

00:28:17,029 --> 00:28:14,720

look at

741

00:28:17,830 --> 00:28:17,039

um yeah like where the vaccines are real

742

00:28:20,149 --> 00:28:17,840

and then

743

00:28:22,070 --> 00:28:20,159

the algorithms are sort of designed to

744

00:28:24,549 --> 00:28:22,080

become a little bit more extreme

745

00:28:25,830 --> 00:28:24,559

as time goes on so you can start sort of

746

00:28:27,669 --> 00:28:25,840

very innocently

747

00:28:29,590 --> 00:28:27,679

looking at youtube videos about

748

00:28:30,630 --> 00:28:29,600

coronavirus vaccinations and then if

749

00:28:32,549 --> 00:28:30,640

you're thinking

750

00:28:34,389 --> 00:28:32,559

that a conspiracy theory could have

751
00:28:35,269 --> 00:28:34,399
value and then start to click on more of

752
00:28:38,230 --> 00:28:35,279
those links

753
00:28:39,990 --> 00:28:38,240
then you do go down these rabbit holes

754
00:28:42,470 --> 00:28:40,000
that the conspiracy theorists

755
00:28:43,029 --> 00:28:42,480
talk about and so often it will become

756
00:28:46,070 --> 00:28:43,039
more

757
00:28:48,630 --> 00:28:46,080
right wing in views a lot of um

758
00:28:49,350 --> 00:28:48,640
trump supporters for example um were

759
00:28:51,909 --> 00:28:49,360
sort of more

760
00:28:54,230 --> 00:28:51,919
against wearing masks and and thinking

761
00:28:56,630 --> 00:28:54,240
that it's more of a conspiracy theory

762
00:28:58,710 --> 00:28:56,640
and so yeah one of the examples recently

763
00:29:01,350 --> 00:28:58,720

was was pete evans as well so

764

00:29:03,510 --> 00:29:01,360

he he was definitely a trump supporter

765

00:29:04,389 --> 00:29:03,520

um it was wearing his make america great

766

00:29:06,470 --> 00:29:04,399

again cap

767

00:29:07,669 --> 00:29:06,480

very well known for that um and then

768

00:29:10,149 --> 00:29:07,679

over time he

769

00:29:11,510 --> 00:29:10,159

then put up a cartoon which was like

770

00:29:14,549 --> 00:29:11,520

using neo-nazi

771

00:29:17,590 --> 00:29:14,559

symbolism and so so that like i i

772

00:29:17,909 --> 00:29:17,600

i'm pretty sure he's not a nazi but um

773

00:29:21,110 --> 00:29:17,919

so

774

00:29:23,350 --> 00:29:21,120

is certainly in

775

00:29:25,430 --> 00:29:23,360

in the background and i i am worried

776

00:29:26,950 --> 00:29:25,440

about um how people can be following

777

00:29:28,549 --> 00:29:26,960

these algorithms thinking that they're

778

00:29:31,510 --> 00:29:28,559

doing their own research

779

00:29:33,269 --> 00:29:31,520

but that they the algorithm the the ai

780

00:29:34,549 --> 00:29:33,279

the artificial intelligence is leading

781

00:29:36,070 --> 00:29:34,559

them in a certain direction that they

782

00:29:39,510 --> 00:29:36,080

may not be aware of

783

00:29:40,070 --> 00:29:39,520

oh well quite clearly um the covert 19

784

00:29:41,350 --> 00:29:40,080

variant

785

00:29:43,350 --> 00:29:41,360

i believe came from northgate in

786

00:29:45,029 --> 00:29:43,360

melbourne i think some hipster was doing

787

00:29:46,549 --> 00:29:45,039

coffee bean experimentation

788

00:29:47,830 --> 00:29:46,559

with a bat because you know the cat can

789

00:29:48,950 --> 00:29:47,840

eat the coffee bean and poo it out and

790

00:29:50,389 --> 00:29:48,960

you put that in the coffee

791

00:29:52,310 --> 00:29:50,399

someone was doing that with a bat the

792

00:29:53,029 --> 00:29:52,320

whole thing went wrong a hipster from

793

00:29:54,789 --> 00:29:53,039

northgate

794

00:29:57,029 --> 00:29:54,799

i'm blaming it all on that guy well you

795

00:29:59,590 --> 00:29:57,039

need to set up your own youtube channel

796

00:30:00,789 --> 00:29:59,600

and and get into that algorithm because

797

00:30:03,430 --> 00:30:00,799

you'll get lots of hits

798

00:30:04,470 --> 00:30:03,440

um a lot of them from um from right-wing

799

00:30:05,590 --> 00:30:04,480

trump supporters

800

00:30:07,990 --> 00:30:05,600

do you think they're actually doing

801
00:30:10,470 --> 00:30:08,000
enough on instagram and twitter

802
00:30:11,510 --> 00:30:10,480
facebook and youtube to try and damp

803
00:30:12,950 --> 00:30:11,520
this down because

804
00:30:15,190 --> 00:30:12,960
there's always that oh i should be able

805
00:30:16,950 --> 00:30:15,200
to have my expression versus the public

806
00:30:18,470 --> 00:30:16,960
good of disinformation how do you think

807
00:30:21,029 --> 00:30:18,480
they should balance that

808
00:30:24,310 --> 00:30:21,039
i think we've been calling out for a lot

809
00:30:27,750 --> 00:30:24,320
more scientists to be on instagram

810
00:30:29,510 --> 00:30:27,760
and um and like on tiktok

811
00:30:31,190 --> 00:30:29,520
putting out their videos and i think a

812
00:30:32,549 --> 00:30:31,200
lot of people have been really worried

813
00:30:34,549 --> 00:30:32,559

that scientists

814

00:30:36,950 --> 00:30:34,559

have been really boring and that if

815

00:30:38,230 --> 00:30:36,960

they're getting on tick-tock

816

00:30:40,470 --> 00:30:38,240

we need more hot ones is that what the

817

00:30:41,430 --> 00:30:40,480

thing is no i've been seeing a lot of

818

00:30:43,909 --> 00:30:41,440

like really

819

00:30:44,789 --> 00:30:43,919

funny people like it like putting across

820

00:30:47,110 --> 00:30:44,799

their points

821

00:30:49,510 --> 00:30:47,120

very very well on tiktok and instagram

822

00:30:50,230 --> 00:30:49,520

um and putting it in a very easy to

823

00:30:51,990 --> 00:30:50,240

understand

824

00:30:54,070 --> 00:30:52,000

way this is what we're talking earlier

825

00:30:54,870 --> 00:30:54,080

on about like comedians getting up there

826
00:30:57,350 --> 00:30:54,880
and and just

827
00:30:57,990 --> 00:30:57,360
um yeah being very funny and being very

828
00:30:59,669 --> 00:30:58,000
pointed

829
00:31:01,350 --> 00:30:59,679
um being very critical of people who

830
00:31:03,509 --> 00:31:01,360
aren't thinking about science

831
00:31:04,950 --> 00:31:03,519
i think you can do it very well but

832
00:31:07,590 --> 00:31:04,960
you've got to have

833
00:31:09,110 --> 00:31:07,600
an extra bit of of thought process so

834
00:31:09,830 --> 00:31:09,120
you just can't get up there and talk

835
00:31:11,350 --> 00:31:09,840
science

836
00:31:13,669 --> 00:31:11,360
you're not going to be appealing to the

837
00:31:14,870 --> 00:31:13,679
crowd you've got to be a little bit sort

838
00:31:17,269 --> 00:31:14,880

of tongue-in-cheek

839

00:31:18,470 --> 00:31:17,279

use very easy to understand language and

840

00:31:20,310 --> 00:31:18,480

um and yeah

841

00:31:22,070 --> 00:31:20,320

even follow crazes that are going on

842

00:31:22,630 --> 00:31:22,080

online as well that you're familiar with

843

00:31:24,149 --> 00:31:22,640

i'm sure

844

00:31:25,750 --> 00:31:24,159

oh yeah i'm on the wall than there do

845

00:31:27,430 --> 00:31:25,760

remember the big two can conspiracy

846

00:31:28,630 --> 00:31:27,440

people come on have you actually ever

847

00:31:31,190 --> 00:31:28,640

have one your house

848

00:31:31,830 --> 00:31:31,200

i'd love to but haven't hm yeah look

849

00:31:33,350 --> 00:31:31,840

doctor brad

850

00:31:34,470 --> 00:31:33,360

i think i might like come back next week

851
00:31:35,430 --> 00:31:34,480
as well because i've been here twice and

852
00:31:36,630 --> 00:31:35,440
i still haven't quite

853
00:31:37,990 --> 00:31:36,640
quite got the patterns of everyone

854
00:31:39,190 --> 00:31:38,000
coming and going so i can rob the house

855
00:31:40,310 --> 00:31:39,200
when you're not here so can i come back

856
00:31:42,870 --> 00:31:40,320
next week and have a chat

857
00:31:44,870 --> 00:31:42,880
tea and tim tams or uh coffee and

858
00:31:47,029 --> 00:31:44,880
cabernet look and if you just happen to

859
00:31:49,269 --> 00:31:47,039
accidentally leave the prescription pad

860
00:31:50,710 --> 00:31:49,279
on the kitchen counter and walk away

861
00:31:52,070 --> 00:31:50,720
look that's just fine

862
00:31:54,070 --> 00:31:52,080
i think i'll have you in handcuffs for

863
00:32:12,310 --> 00:31:54,080

the whole time you're in my house again

864

00:32:17,750 --> 00:32:15,029

hi this is heidi robertson from the

865

00:32:20,230 --> 00:32:17,760

northern rivers vaccination supporters

866

00:32:22,470 --> 00:32:20,240

we are a group of concerned citizens

867

00:32:24,389 --> 00:32:22,480

dedicated to promoting good science and

868

00:32:27,350 --> 00:32:24,399

common sense in our region

869

00:32:28,149 --> 00:32:27,360

the far north coast of new south wales

870

00:32:29,990 --> 00:32:28,159

this area

871

00:32:31,750 --> 00:32:30,000

famous for its natural beauty and

872

00:32:34,389 --> 00:32:31,760

relaxed lifestyle

873

00:32:36,149 --> 00:32:34,399

also has the lowest rates of vaccination

874

00:32:38,549 --> 00:32:36,159

in australia

875

00:32:40,630 --> 00:32:38,559

we are out to change that by challenging

876

00:32:42,950 --> 00:32:40,640

the myths and misinformation

877

00:32:45,509 --> 00:32:42,960

and by providing good evidence-based

878

00:32:47,509 --> 00:32:45,519

information to the community

879

00:32:48,630 --> 00:32:47,519

we'd love for you no matter where you

880

00:32:51,590 --> 00:32:48,640

are in the world

881

00:32:52,789 --> 00:32:51,600

to join our fight please visit our

882

00:32:56,430 --> 00:32:52,799

webpage

883

00:32:58,389 --> 00:32:56,440

at www.nrv

884

00:32:59,990 --> 00:32:58,399

[Music]

885

00:33:01,590 --> 00:33:00,000

we also have a link there to our

886

00:33:05,110 --> 00:33:01,600

facebook page

887

00:33:08,389 --> 00:33:05,120

tweet us at [nrvax](#) supporters

888

00:33:10,789 --> 00:33:08,399

that's vax and check us out on wikipedia

889

00:33:26,670 --> 00:33:10,799

by searching for northern rivers

890

00:33:26,680 --> 00:33:30,470

[Music]

891

00:33:33,590 --> 00:33:32,470

and now it's time once again to dive

892

00:33:37,750 --> 00:33:33,600

into the pages

893

00:33:39,830 --> 00:33:37,760

at trovetrove.nla.gov dot a

894

00:33:41,269 --> 00:33:39,840

the national library of australia

895

00:33:43,909 --> 00:33:41,279

digitizing

896

00:33:44,470 --> 00:33:43,919

thousands upon thousands of newspapers

897

00:33:47,509 --> 00:33:44,480

articles

898

00:33:48,230 --> 00:33:47,519

magazines journals diaries all sorts of

899

00:33:52,070 --> 00:33:48,240

things

900

00:33:54,460 --> 00:33:52,080

for us to enjoy to trawl through to dive

901
00:33:55,750 --> 00:33:54,470
into that treasure trove

902
00:33:57,430 --> 00:33:55,760
[Music]

903
00:33:58,789 --> 00:33:57,440
and this week i thought we'd look for

904
00:34:06,870 --> 00:33:58,799
references

905
00:34:09,270 --> 00:34:06,880
to carl sagan

906
00:34:11,990 --> 00:34:09,280
now certainly a big influence on my

907
00:34:13,909 --> 00:34:12,000
skeptical career and no doubt

908
00:34:15,430 --> 00:34:13,919
many of you listening out there can say

909
00:34:18,389 --> 00:34:15,440
the same thing

910
00:34:20,790 --> 00:34:18,399
or at least an influence in some respect

911
00:34:23,829 --> 00:34:20,800
now as you might suspect there are many

912
00:34:25,829 --> 00:34:23,839
uh returns in the search criteria for dr

913
00:34:28,710 --> 00:34:25,839

carl sagan or carl sagan

914

00:34:30,470 --> 00:34:28,720

and here are a selected few and the

915

00:34:31,510 --> 00:34:30,480

first one comes to us from the canberra

916

00:34:35,560 --> 00:34:31,520

times

917

00:34:40,230 --> 00:34:35,570

from the 22nd of july 1976.

918

00:34:43,270 --> 00:34:40,240

[Music]

919

00:34:48,230 --> 00:34:43,280

man search for life on mars by christine

920

00:34:50,790 --> 00:34:48,240

russell in washington

921

00:34:52,550 --> 00:34:50,800

carl sagan an astronomer with a strong

922

00:34:54,389 --> 00:34:52,560

background in biology

923

00:34:56,389 --> 00:34:54,399

is one of the most enthusiastic

924

00:34:57,990 --> 00:34:56,399

proponents of the search for life on

925

00:35:01,109 --> 00:34:58,000

other planets

926
00:35:03,270 --> 00:35:01,119
the author of the cosmic connection dr

927
00:35:04,230 --> 00:35:03,280
sagan heads the cornell university's

928
00:35:07,670 --> 00:35:04,240
laboratory

929
00:35:09,829 --> 00:35:07,680
for planetary studies and is currently

930
00:35:13,030 --> 00:35:09,839
part of the team of scientists

931
00:35:14,390 --> 00:35:13,040
directing the viking mission to mars he

932
00:35:16,390 --> 00:35:14,400
is one of the few scientists

933
00:35:17,510 --> 00:35:16,400
associated with the viking mission who

934
00:35:20,310 --> 00:35:17,520
believes that there

935
00:35:21,109 --> 00:35:20,320
might be microbes organisms large enough

936
00:35:24,550 --> 00:35:21,119
to be seen

937
00:35:26,069 --> 00:35:24,560
with the naked eye on mars in a recent

938
00:35:29,270 --> 00:35:26,079

interview he said there was

939

00:35:32,470 --> 00:35:29,280

no reason to exclude the possibility

940

00:35:33,430 --> 00:35:32,480

it's kind of a failure of imagination he

941

00:35:35,349 --> 00:35:33,440

said

942

00:35:37,190 --> 00:35:35,359

people are barely able to bring

943

00:35:39,990 --> 00:35:37,200

themselves to hypothesize

944

00:35:41,750 --> 00:35:40,000

microbes on mars and so the idea of

945

00:35:44,870 --> 00:35:41,760

large organisms big enough

946

00:35:47,430 --> 00:35:44,880

to see sort of boggles the mind he said

947

00:35:50,470 --> 00:35:47,440

that because all life on earth used

948

00:35:50,790 --> 00:35:50,480

in a very central way liquid water it

949

00:35:52,870 --> 00:35:50,800

was

950

00:35:53,829 --> 00:35:52,880

difficult to think of an alternative to

951
00:35:56,710 --> 00:35:53,839
support life

952
00:35:57,990 --> 00:35:56,720
practically on a place like mars so

953
00:36:01,349 --> 00:35:58,000
martian organisms

954
00:36:02,230 --> 00:36:01,359
if they exist probably have a source of

955
00:36:05,030 --> 00:36:02,240
water

956
00:36:06,390 --> 00:36:05,040
he says but the martian environment is

957
00:36:09,589 --> 00:36:06,400
such that there is no

958
00:36:12,310 --> 00:36:09,599
liquid water just sitting out of doors

959
00:36:14,230 --> 00:36:12,320
because the total pressure is so low

960
00:36:17,190 --> 00:36:14,240
that the water immediately

961
00:36:18,310 --> 00:36:17,200
evaporates and blows away the major

962
00:36:21,829 --> 00:36:18,320
places where

963
00:36:24,630 --> 00:36:21,839

water existed on mars were as ice and

964

00:36:26,230 --> 00:36:24,640

chemically bound rocks and so that's the

965

00:36:29,349 --> 00:36:26,240

reason we suggested

966

00:36:32,230 --> 00:36:29,359

that if there are martian organisms

967

00:36:33,829 --> 00:36:32,240

that they can tap ice or tap the

968

00:36:36,470 --> 00:36:33,839

chemical bound water

969

00:36:38,150 --> 00:36:36,480

he said us what would be the next step

970

00:36:41,190 --> 00:36:38,160

in space exploration

971

00:36:43,910 --> 00:36:41,200

if life was detected on mars he said

972

00:36:45,670 --> 00:36:43,920

i would say right back to mars and try

973

00:36:48,950 --> 00:36:45,680

to understand that life

974

00:36:51,829 --> 00:36:48,960

to a considerable extent because while

975

00:36:53,430 --> 00:36:51,839

viking has the capability of

976
00:36:55,270 --> 00:36:53,440
investigating that life

977
00:36:57,670 --> 00:36:55,280
we certainly would want to know a great

978
00:36:59,990 --> 00:36:57,680
deal about the details of it

979
00:37:00,790 --> 00:37:00,000
so that you could understand how similar

980
00:37:03,270 --> 00:37:00,800
and how different

981
00:37:04,310 --> 00:37:03,280
martian life was compared to terrestrial

982
00:37:06,550 --> 00:37:04,320
life

983
00:37:07,750 --> 00:37:06,560
i am concerned that we should not be too

984
00:37:10,150 --> 00:37:07,760
hasty in our

985
00:37:12,069 --> 00:37:10,160
ignorance about terrestrial life to

986
00:37:14,710 --> 00:37:12,079
return samples to the earth

987
00:37:15,589 --> 00:37:14,720
and i think it makes a great deal more

988
00:37:17,589 --> 00:37:15,599

sense

989

00:37:19,990 --> 00:37:17,599

to do more sophisticated and more

990

00:37:22,550 --> 00:37:20,000

detailed investigations remotely

991

00:37:23,190 --> 00:37:22,560

by automatic spacecraft on the martian

992

00:37:26,710 --> 00:37:23,200

surface

993

00:37:27,750 --> 00:37:26,720

asked about the expense of the viking

994

00:37:31,510 --> 00:37:27,760

missions

995

00:37:35,190 --> 00:37:31,520

it has cost more than 1 000 million

996

00:37:35,990 --> 00:37:35,200

american dollars about uh 800 million in

997

00:37:39,430 --> 00:37:36,000

australian dollars

998

00:37:41,829 --> 00:37:39,440

at the time he said one thing we can do

999

00:37:43,190 --> 00:37:41,839

is compare it with other things that we

1000

00:37:45,190 --> 00:37:43,200

spend money on

1001
00:37:47,270 --> 00:37:45,200
the total cost of viking is something

1002
00:37:50,230 --> 00:37:47,280
like half the cost of one

1003
00:37:51,990 --> 00:37:50,240
trident nuclear submarine i would think

1004
00:37:53,670 --> 00:37:52,000
that those financial arguments are

1005
00:37:57,510 --> 00:37:53,680
arguments for viking

1006
00:38:00,790 --> 00:37:57,520
all they say is that the cost is trivial

1007
00:38:03,270 --> 00:38:00,800
for a society as wealthy as ours another

1008
00:38:05,990 --> 00:38:03,280
justification for the mission was

1009
00:38:07,750 --> 00:38:06,000
that it is important for any high

1010
00:38:10,950 --> 00:38:07,760
civilization to do

1011
00:38:11,670 --> 00:38:10,960
acts of greatness he said viking will be

1012
00:38:13,910 --> 00:38:11,680
remembered

1013
00:38:15,430 --> 00:38:13,920

if it works for the rest of human

1014

00:38:18,710 --> 00:38:15,440

history the first

1015

00:38:21,270 --> 00:38:18,720

time us human beings have looked

1016

00:38:22,310 --> 00:38:21,280

up close at mars and search for life on

1017

00:38:24,710 --> 00:38:22,320

another planet

1018

00:38:26,790 --> 00:38:24,720

in addition there were very practical

1019

00:38:28,870 --> 00:38:26,800

reasons why missions like viking

1020

00:38:30,550 --> 00:38:28,880

should be encouraged they provide a

1021

00:38:32,230 --> 00:38:30,560

sense of perspective on earthbound

1022

00:38:35,270 --> 00:38:32,240

sciences like meteorology

1023

00:38:37,430 --> 00:38:35,280

and geology and biology he said

1024

00:38:38,790 --> 00:38:37,440

i think it very likely that the

1025

00:38:41,109 --> 00:38:38,800

adventures

1026
00:38:42,950 --> 00:38:41,119
in fundamental science which come about

1027
00:38:45,270 --> 00:38:42,960
of missions like viking

1028
00:38:47,349 --> 00:38:45,280
will improve many times over the

1029
00:38:49,270 --> 00:38:47,359
impractical terrestrial method

1030
00:38:51,589 --> 00:38:49,280
but finally there's the other sort of

1031
00:38:53,589 --> 00:38:51,599
perspective that's the perspective

1032
00:38:54,950 --> 00:38:53,599
of looking at other planets for a better

1033
00:38:57,270 --> 00:38:54,960
appreciation

1034
00:38:58,630 --> 00:38:57,280
of our own and that's credited to the

1035
00:39:01,030 --> 00:38:58,640
washington star

1036
00:39:03,190 --> 00:39:01,040
through the australian associated press

1037
00:39:06,870 --> 00:39:03,200
and following on from that the next

1038
00:39:09,270 --> 00:39:06,880

item we come across is also from 1976

1039

00:39:10,310 --> 00:39:09,280

and it's from the papua new guinea post

1040

00:39:12,870 --> 00:39:10,320

courier

1041

00:39:14,069 --> 00:39:12,880

port moresby and this was published on

1042

00:39:17,430 --> 00:39:14,079

the 8th of october

1043

00:39:20,950 --> 00:39:17,440

1976 we had landed

1044

00:39:22,550 --> 00:39:20,960

we were on mars by dr carl sagan

1045

00:39:24,069 --> 00:39:22,560

for the first time in the history of our

1046

00:39:26,390 --> 00:39:24,079

species mankind

1047

00:39:28,150 --> 00:39:26,400

has a working scientific station on the

1048

00:39:31,270 --> 00:39:28,160

surface of another planet

1049

00:39:32,150 --> 00:39:31,280

this station is not occupied by human

1050

00:39:34,310 --> 00:39:32,160

beings

1051
00:39:36,150 --> 00:39:34,320
that would have been far more difficult

1052
00:39:38,870 --> 00:39:36,160
dangerous and expensive

1053
00:39:39,990 --> 00:39:38,880
and perhaps even scientifically less

1054
00:39:43,030 --> 00:39:40,000
productive

1055
00:39:45,109 --> 00:39:43,040
instead there is a kind of intelligent

1056
00:39:48,630 --> 00:39:45,119
machine brilliantly conceived and

1057
00:39:51,030 --> 00:39:48,640
executed obedient capable of self-repair

1058
00:39:52,310 --> 00:39:51,040
and controlled by a 350 million

1059
00:39:54,470 --> 00:39:52,320
kilometer radio

1060
00:39:55,349 --> 00:39:54,480
tether connecting it to the distant

1061
00:39:58,470 --> 00:39:55,359
planet earth

1062
00:40:01,349 --> 00:39:58,480
it is able to see hear touch

1063
00:40:02,150 --> 00:40:01,359

feel taste smell and manipulate its

1064

00:40:05,270 --> 00:40:02,160

environment

1065

00:40:08,870 --> 00:40:05,280

it has two computer brains each with a

1066

00:40:09,190 --> 00:40:08,880

18 000 word memory and of course i pause

1067

00:40:12,510 --> 00:40:09,200

here

1068

00:40:15,270 --> 00:40:12,520

to just remind everybody this is

1069

00:40:17,430 --> 00:40:15,280

1976 technology or perhaps more

1070

00:40:19,910 --> 00:40:17,440

accurately 1975.

1071

00:40:22,150 --> 00:40:19,920

we read on this degree of machine

1072

00:40:22,950 --> 00:40:22,160

intelligence is required because on many

1073

00:40:26,630 --> 00:40:22,960

matters

1074

00:40:29,670 --> 00:40:26,640

the station must decide for itself

1075

00:40:32,390 --> 00:40:29,680

it is so far from earth that a

1076
00:40:33,670 --> 00:40:32,400
simple radio inquiry and response takes

1077
00:40:35,910 --> 00:40:33,680
40 minutes to travel

1078
00:40:38,069 --> 00:40:35,920
round trip between the station and its

1079
00:40:38,470 --> 00:40:38,079
home planet the station is called viking

1080
00:40:40,950 --> 00:40:38,480
one

1081
00:40:43,030 --> 00:40:40,960
its location is the great christ basin

1082
00:40:45,589 --> 00:40:43,040
in the northern hemisphere of

1083
00:40:47,510 --> 00:40:45,599
planet mars the viking one lander was

1084
00:40:50,390 --> 00:40:47,520
launched in tandem with viking one

1085
00:40:52,190 --> 00:40:50,400
orbiter from cape canaveral florida to

1086
00:40:55,270 --> 00:40:52,200
mars on august 20th

1087
00:40:58,790 --> 00:40:55,280
1975. they made an epic

1088
00:40:59,430 --> 00:40:58,800

11 month journey the long way around the

1089

00:41:01,750 --> 00:40:59,440

sun

1090

00:41:02,630 --> 00:41:01,760

covering almost a thousand million

1091

00:41:05,190 --> 00:41:02,640

kilometers

1092

00:41:06,230 --> 00:41:05,200

before being ejected into orbit around

1093

00:41:09,670 --> 00:41:06,240

the red planet

1094

00:41:11,510 --> 00:41:09,680

on june 19th 1976 when the long and

1095

00:41:12,390 --> 00:41:11,520

difficult search for a safe landing

1096

00:41:13,670 --> 00:41:12,400

place began

1097

00:41:15,589 --> 00:41:13,680

and i'll pause here to say that's

1098

00:41:17,270 --> 00:41:15,599

interesting we're so used to missions to

1099

00:41:18,710 --> 00:41:17,280

mars now

1100

00:41:20,230 --> 00:41:18,720

knowing where they're going to land and

1101
00:41:21,910 --> 00:41:20,240
getting there with a great degree of

1102
00:41:23,829 --> 00:41:21,920
accuracy i didn't know that

1103
00:41:25,430 --> 00:41:23,839
the viking one went to mars and then

1104
00:41:27,990 --> 00:41:25,440
began to look for a place to land

1105
00:41:29,030 --> 00:41:28,000
but i guess it makes sense we read on

1106
00:41:31,109 --> 00:41:29,040
there were many

1107
00:41:32,150 --> 00:41:31,119
safety criteria which had to be

1108
00:41:34,150 --> 00:41:32,160
satisfied

1109
00:41:36,710 --> 00:41:34,160
the landing site elevation could not be

1110
00:41:38,950 --> 00:41:36,720
too high otherwise viking's parachute

1111
00:41:40,069 --> 00:41:38,960
would not slow it down adequately during

1112
00:41:43,349 --> 00:41:40,079
descent

1113
00:41:45,910 --> 00:41:43,359

the winds must not be too high and they

1114

00:41:48,630 --> 00:41:45,920

are known to exceed 100 meters a second

1115

00:41:50,069 --> 00:41:48,640

at certain times and places on mars

1116

00:41:52,550 --> 00:41:50,079

otherwise the lander

1117

00:41:53,750 --> 00:41:52,560

would be blown over the landing site

1118

00:41:55,990 --> 00:41:53,760

must not be too

1119

00:41:56,790 --> 00:41:56,000

rough otherwise the viking might fall

1120

00:41:59,829 --> 00:41:56,800

over

1121

00:42:02,790 --> 00:41:59,839

it must not be too soft otherwise viking

1122

00:42:05,510 --> 00:42:02,800

would sink in it must not be too hard

1123

00:42:07,750 --> 00:42:05,520

otherwise the mechanical arm extended to

1124

00:42:08,990 --> 00:42:07,760

acquire samples of martian soil for

1125

00:42:11,670 --> 00:42:09,000

chemical and

1126
00:42:12,390 --> 00:42:11,680
microbiological analysis would return

1127
00:42:14,790 --> 00:42:12,400
empty

1128
00:42:15,510 --> 00:42:14,800
from its attempt to scratch at the

1129
00:42:18,150 --> 00:42:15,520
ground

1130
00:42:20,630 --> 00:42:18,160
moreover the dangers of landing on mars

1131
00:42:23,750 --> 00:42:20,640
were underscored by the failures to

1132
00:42:24,870 --> 00:42:23,760
accomplish a successful landing by the

1133
00:42:27,109 --> 00:42:24,880
mars two

1134
00:42:27,990 --> 00:42:27,119
three and six missions of the soviet

1135
00:42:30,870 --> 00:42:28,000
union

1136
00:42:32,150 --> 00:42:30,880
something of the surface roughness and

1137
00:42:34,630 --> 00:42:32,160
hardness could be

1138
00:42:36,870 --> 00:42:34,640

determined through ground-based radar

1139

00:42:39,750 --> 00:42:36,880

practically through the use of the great

1140

00:42:41,750 --> 00:42:39,760

arecibo radio telescope in puerto rico

1141

00:42:43,109 --> 00:42:41,760

the largest radio radar telescope on

1142

00:42:46,550 --> 00:42:43,119

earth information

1143

00:42:47,190 --> 00:42:46,560

on elevation had been obtained by the

1144

00:42:49,589 --> 00:42:47,200

earlier

1145

00:42:51,750 --> 00:42:49,599

mariner 9 mission to mars the first

1146

00:42:54,150 --> 00:42:51,760

spacecraft to orbit another planet

1147

00:42:56,150 --> 00:42:54,160

viking lander footpad number three the

1148

00:43:00,230 --> 00:42:56,160

rivets in the footpad could be

1149

00:43:01,750 --> 00:43:00,240

seen clearly i was never so happy to see

1150

00:43:04,950 --> 00:43:01,760

a rivet in my life

1151
00:43:05,990 --> 00:43:04,960
we had landed successfully we were on

1152
00:43:07,990 --> 00:43:06,000
another planet

1153
00:43:09,750 --> 00:43:08,000
even at the present still relatively

1154
00:43:11,750 --> 00:43:09,760
early stage in the viking mission

1155
00:43:13,109 --> 00:43:11,760
the scientific returns can only be

1156
00:43:17,510 --> 00:43:13,119
described

1157
00:43:21,109 --> 00:43:17,520
as stunning and on the page we also see

1158
00:43:23,030 --> 00:43:21,119
a drawing of the the viking lander

1159
00:43:25,270 --> 00:43:23,040
artist's impression of the scene

1160
00:43:26,069 --> 00:43:25,280
when the viking lander touched down on

1161
00:43:27,910 --> 00:43:26,079
mars

1162
00:43:29,430 --> 00:43:27,920
and there it is sitting on the planet

1163
00:43:32,870 --> 00:43:29,440

and also

1164

00:43:34,630 --> 00:43:32,880

on the page we have a little diagram

1165

00:43:36,230 --> 00:43:34,640

sort of showing the descent with the

1166

00:43:39,030 --> 00:43:36,240

vikings one leaving

1167

00:43:40,309 --> 00:43:39,040

the orbiter the parachute opening and

1168

00:43:42,630 --> 00:43:40,319

finally the

1169

00:43:43,750 --> 00:43:42,640

land is sitting on mars with a little

1170

00:43:46,550 --> 00:43:43,760

outline of

1171

00:43:47,670 --> 00:43:46,560

where the antenna the camera and other

1172

00:43:51,270 --> 00:43:47,680

uh

1173

00:43:54,630 --> 00:43:51,280

apparatus are and finally we have

1174

00:43:58,790 --> 00:43:54,640

a report here from december 26

1175

00:44:02,150 --> 00:43:58,800

1981 in the canberra times again

1176
00:44:04,950 --> 00:44:02,160
by malcolm miller a review cosmos by

1177
00:44:06,829 --> 00:44:04,960
carl sagan so we have a book review

1178
00:44:07,990 --> 00:44:06,839
considerations of our place in the

1179
00:44:09,589 --> 00:44:08,000
cosmos

1180
00:44:11,670 --> 00:44:09,599
and the page actually has a couple of

1181
00:44:12,870 --> 00:44:11,680
book reviews but we pick up here where

1182
00:44:15,829 --> 00:44:12,880
they talk about uh

1183
00:44:17,349 --> 00:44:15,839
carl sagan's cosmos carl sagan has made

1184
00:44:20,230 --> 00:44:17,359
a television series

1185
00:44:21,670 --> 00:44:20,240
which we haven't seen yet called cosmos

1186
00:44:24,150 --> 00:44:21,680
which out does and

1187
00:44:25,750 --> 00:44:24,160
all the rest of the nature science life

1188
00:44:28,550 --> 00:44:25,760

popularizes

1189

00:44:29,510 --> 00:44:28,560

the book of the series is quite as

1190

00:44:31,990 --> 00:44:29,520

exciting

1191

00:44:32,630 --> 00:44:32,000

like most of sagan's work it shows his

1192

00:44:36,150 --> 00:44:32,640

great

1193

00:44:39,030 --> 00:44:36,160

breadth of interests we would expect

1194

00:44:41,430 --> 00:44:39,040

the astronomy to be exciting from

1195

00:44:43,030 --> 00:44:41,440

planetary probes to black holes and

1196

00:44:46,230 --> 00:44:43,040

colliding galaxies

1197

00:44:47,030 --> 00:44:46,240

and so it is sagan has an enthusiasm

1198

00:44:49,349 --> 00:44:47,040

which will

1199

00:44:51,430 --> 00:44:49,359

surely carry along all but the most

1200

00:44:54,150 --> 00:44:51,440

boring killjoy

1201
00:44:56,390 --> 00:44:54,160
but his thoughts on human history and

1202
00:44:58,790 --> 00:44:56,400
biology are equally entertaining

1203
00:45:00,390 --> 00:44:58,800
while this no doubt makes him unpopular

1204
00:45:02,710 --> 00:45:00,400
with many academics

1205
00:45:05,030 --> 00:45:02,720
learning shouldn't be entertaining it

1206
00:45:08,230 --> 00:45:05,040
also makes for a high level of

1207
00:45:10,550 --> 00:45:08,240
attention to what he's saying we need

1208
00:45:12,150 --> 00:45:10,560
more than ever to open our eyes and our

1209
00:45:14,230 --> 00:45:12,160
minds to a wide

1210
00:45:16,630 --> 00:45:14,240
view of the universe people who don't

1211
00:45:19,910 --> 00:45:16,640
comprehend the relationship of the atom

1212
00:45:20,790 --> 00:45:19,920
or the dna molecule to human life can

1213
00:45:23,589 --> 00:45:20,800

endanger

1214

00:45:24,390 --> 00:45:23,599

all of us if they have political power

1215

00:45:27,030 --> 00:45:24,400

so can

1216

00:45:27,589 --> 00:45:27,040

those who are so engrossed in what's

1217

00:45:30,870 --> 00:45:27,599

happening

1218

00:45:33,510 --> 00:45:30,880

now that they neither know nor

1219

00:45:34,150 --> 00:45:33,520

care what happened in the past human

1220

00:45:37,190 --> 00:45:34,160

life

1221

00:45:39,750 --> 00:45:37,200

of individuals and societies has been

1222

00:45:40,630 --> 00:45:39,760

wrecked too often by ignorant power

1223

00:45:43,109 --> 00:45:40,640

seekers

1224

00:45:44,870 --> 00:45:43,119

sagan tries to show us that the history

1225

00:45:48,550 --> 00:45:44,880

and evolution of life

1226
00:45:49,589 --> 00:45:48,560
and of science of social industries and

1227
00:45:52,309 --> 00:45:49,599
technology

1228
00:45:53,109 --> 00:45:52,319
of molecules in space and molecules in

1229
00:45:56,710 --> 00:45:53,119
cells

1230
00:45:57,430 --> 00:45:56,720
are all part of one whole modern man he

1231
00:45:59,510 --> 00:45:57,440
believes

1232
00:46:01,670 --> 00:45:59,520
must comprehend this oneness and grow in

1233
00:46:02,710 --> 00:46:01,680
harmony with the universe of atoms and

1234
00:46:05,990 --> 00:46:02,720
galaxies

1235
00:46:08,230 --> 00:46:06,000
of which is part or else destroy himself

1236
00:46:09,349 --> 00:46:08,240
full-scale nuclear war has never

1237
00:46:12,710 --> 00:46:09,359
happened but

1238
00:46:13,510 --> 00:46:12,720

we can experience it only once only if

1239

00:46:16,390 --> 00:46:13,520

we gain a

1240

00:46:17,829 --> 00:46:16,400

cosmic perspective can we save ourselves

1241

00:46:20,790 --> 00:46:17,839

and enter the future

1242

00:46:22,069 --> 00:46:20,800

sagan has not hesitated to use his time

1243

00:46:24,550 --> 00:46:22,079

and his creativity

1244

00:46:26,950 --> 00:46:24,560

to press this point of view and i

1245

00:46:28,710 --> 00:46:26,960

enjoyed his presentation of it here

1246

00:46:30,230 --> 00:46:28,720

the conquest of space and the

1247

00:46:33,430 --> 00:46:30,240

relationship of humanity

1248

00:46:34,710 --> 00:46:33,440

to the universe are themes of these two

1249

00:46:37,349 --> 00:46:34,720

books

1250

00:46:38,870 --> 00:46:37,359

of course we pause here to mention once

1251

00:46:42,150 --> 00:46:38,880

again that the page has

1252

00:46:44,710 --> 00:46:42,160

two book reviews on it i recommend them

1253

00:46:57,180 --> 00:46:44,720

to anyone who believes that our species

1254

00:46:59,910 --> 00:46:57,190

has a place in the cosmos

1255

00:47:03,190 --> 00:46:59,920

[Music]

1256

00:47:05,950 --> 00:47:03,200

and once again all of those uh

1257

00:47:07,589 --> 00:47:05,960

items come from trove at

1258

00:47:10,710 --> 00:47:07,599

trove.nla.gov.au you can

1259

00:47:15,349 --> 00:47:10,720

go there type in the words carl sagan

1260

00:47:17,829 --> 00:47:15,359

and see many more entries and

1261

00:47:25,420 --> 00:47:17,839

items and reports about the late great

1262

00:47:36,950 --> 00:47:25,430

dr carl sagan

1263

00:47:41,109 --> 00:47:38,630

thank you for listening to the skeptic

1264

00:47:44,069 --> 00:47:41,119

zone now before i go

1265

00:47:45,109 --> 00:47:44,079

i'm going to relay a little story to you

1266

00:47:47,589 --> 00:47:45,119

sit back

1267

00:47:48,390 --> 00:47:47,599

have a cup of coffee put your slippers

1268

00:47:51,349 --> 00:47:48,400

on

1269

00:47:51,990 --> 00:47:51,359

a few days ago i was doing my shopping

1270

00:47:54,950 --> 00:47:52,000

standing there

1271

00:47:56,069 --> 00:47:54,960

in the supermarket when a guy looked at

1272

00:48:08,630 --> 00:47:56,079

me

1273

00:48:11,430 --> 00:48:08,640

but to my surprise he walked up and said

1274

00:48:13,270 --> 00:48:11,440

uh i i notice you're wearing a skeptoid

1275

00:48:15,829 --> 00:48:13,280

media shirt

1276

00:48:16,950 --> 00:48:15,839

now you might think that i would

1277

00:48:19,990 --> 00:48:16,960

normally wear a

1278

00:48:20,390 --> 00:48:20,000

skeptic zone t-shirt but no from time to

1279

00:48:23,030 --> 00:48:20,400

time

1280

00:48:25,549 --> 00:48:23,040

i wear skeptoid media t-shirts given to

1281

00:48:27,750 --> 00:48:25,559

me by my good friend brian dunning from

1282

00:48:30,470 --> 00:48:27,760

skeptoid.com of course

1283

00:48:31,750 --> 00:48:30,480

anyway he walked up and said uh skeptoid

1284

00:48:34,150 --> 00:48:31,760

media so

1285

00:48:35,829 --> 00:48:34,160

what what does skeptoid media's opinion

1286

00:48:37,589 --> 00:48:35,839

on the coronavirus

1287

00:48:39,589 --> 00:48:37,599

in other words he saw something with the

1288

00:48:43,349 --> 00:48:39,599

word skeptic in it

1289

00:48:47,589 --> 00:48:43,359

so i gave him my best answer which

1290

00:48:50,150 --> 00:48:47,599

was well skeptoid media would say

1291

00:48:51,030 --> 00:48:50,160

is real it's a pandemic killed thousands

1292

00:48:53,750 --> 00:48:51,040

of people

1293

00:48:55,829 --> 00:48:53,760

and there have been vaccines developed

1294

00:48:58,470 --> 00:48:55,839

he looked at me said

1295

00:48:59,829 --> 00:48:58,480

you know what the cdc website says about

1296

00:49:03,030 --> 00:48:59,839

this

1297

00:49:06,710 --> 00:49:03,040

i said okay what does it say and he said

1298

00:49:09,190 --> 00:49:06,720

it's only nine percent of people

1299

00:49:10,390 --> 00:49:09,200

who died of covet 19 the rest die

1300

00:49:11,990 --> 00:49:10,400

because they have other health

1301
00:49:13,589 --> 00:49:12,000
conditions

1302
00:49:15,190 --> 00:49:13,599
and i thought to myself that can't be

1303
00:49:17,109 --> 00:49:15,200
right that's ridiculous

1304
00:49:19,190 --> 00:49:17,119
but i was in the position of not knowing

1305
00:49:20,470 --> 00:49:19,200
i couldn't instantly

1306
00:49:22,790 --> 00:49:20,480
check what he was saying not in the

1307
00:49:24,470 --> 00:49:22,800
middle of a supermarket and so i said

1308
00:49:24,790 --> 00:49:24,480
well i'd need to check the website for

1309
00:49:27,270 --> 00:49:24,800
that

1310
00:49:28,150 --> 00:49:27,280
and he repeated it and then he repeated

1311
00:49:30,309 --> 00:49:28,160
it again

1312
00:49:31,910 --> 00:49:30,319
as if to say got you skeptic you don't

1313
00:49:33,430 --> 00:49:31,920

agree with what i agree with

1314

00:49:35,109 --> 00:49:33,440

you're obviously not a skeptic you're

1315

00:49:37,109 --> 00:49:35,119

wearing a skeptic shirt but since you

1316

00:49:38,390 --> 00:49:37,119

think covert is real and

1317

00:49:40,230 --> 00:49:38,400

hundreds of thousands of people are

1318

00:49:42,230 --> 00:49:40,240

dying you're not a real skeptic

1319

00:49:43,510 --> 00:49:42,240

i could just tell that was bubbling on

1320

00:49:46,069 --> 00:49:43,520

in his head

1321

00:49:47,109 --> 00:49:46,079

anyway i cut it short because i knew

1322

00:49:49,109 --> 00:49:47,119

there was no point

1323

00:49:50,150 --> 00:49:49,119

he was obviously a conspiracy theorist

1324

00:49:52,309 --> 00:49:50,160

so

1325

00:49:53,990 --> 00:49:52,319

no need to waste my breath but you know

1326
00:49:55,510 --> 00:49:54,000
out of interest when i got home

1327
00:49:57,430 --> 00:49:55,520
and i have the page in front of me now

1328
00:50:00,150 --> 00:49:57,440
from the cdc where it says

1329
00:50:01,510 --> 00:50:00,160
death attributed to covert 19 on death

1330
00:50:04,950 --> 00:50:01,520
certificates

1331
00:50:07,829 --> 00:50:04,960
an estimated 91

1332
00:50:10,470 --> 00:50:07,839
of these deaths covert 19 was listed as

1333
00:50:13,510 --> 00:50:10,480
the underlying cause of death

1334
00:50:15,829 --> 00:50:13,520
in the remaining nine percent covert 19

1335
00:50:17,030 --> 00:50:15,839
was listed as a contributing cause of

1336
00:50:20,069 --> 00:50:17,040
death

1337
00:50:23,270 --> 00:50:20,079
so he had it completely backwards

1338
00:50:26,470 --> 00:50:23,280

completely wrong it's a pity i couldn't

1339

00:50:28,470 --> 00:50:26,480

instantly call up this page on the spot

1340

00:50:30,309 --> 00:50:28,480

and point it out to him but that is not

1341

00:50:31,990 --> 00:50:30,319

as easy as you might think because you

1342

00:50:33,990 --> 00:50:32,000

can't suddenly just jump onto a page and

1343

00:50:35,750 --> 00:50:34,000

instantly get to the statistics you're

1344

00:50:38,790 --> 00:50:35,760

after in the middle of a supermarket

1345

00:50:41,190 --> 00:50:38,800

on a on an iphone but there you go

1346

00:50:42,390 --> 00:50:41,200

so i must wonder what he was thinking

1347

00:50:45,910 --> 00:50:42,400

that he would read

1348

00:50:48,790 --> 00:50:45,920

data like that and completely reverse it

1349

00:50:50,630 --> 00:50:48,800

in his head to support his conspiracy

1350

00:50:52,390 --> 00:50:50,640

theory

1351
00:50:54,390 --> 00:50:52,400
the interesting things that happen when

1352
00:50:57,030 --> 00:50:54,400
you're wearing a skeptical shirt

1353
00:50:58,710 --> 00:50:57,040
and it reminds me of two logical

1354
00:51:01,670 --> 00:50:58,720
fallacies as taught to us by michelle

1355
00:51:04,390 --> 00:51:01,680
bickersma the no true scotsman

1356
00:51:05,270 --> 00:51:04,400
where i can't really be a skeptic

1357
00:51:06,790 --> 00:51:05,280
because i'm not

1358
00:51:08,710 --> 00:51:06,800
skeptical of the things that he's

1359
00:51:10,470 --> 00:51:08,720
skeptical of which is sort of also like

1360
00:51:14,390 --> 00:51:10,480
the relative probation

1361
00:51:15,270 --> 00:51:14,400
logical fallacy which is along the lines

1362
00:51:16,870 --> 00:51:15,280
of

1363
00:51:18,390 --> 00:51:16,880

what i think is more important than what

1364

00:51:21,990 --> 00:51:18,400

you think therefore what you think

1365

00:51:24,470 --> 00:51:22,000

isn't a valid course of skepticism

1366

00:51:26,549 --> 00:51:24,480

you can find out about those logical

1367

00:51:30,790 --> 00:51:26,559

fallacies by going to our new

1368

00:51:33,349 --> 00:51:30,800

link which is tinyurl.com

1369

00:51:35,190 --> 00:51:33,359

logicalzone all 40 of michelle

1370

00:51:37,270 --> 00:51:35,200

bickersmart's logical fallacies

1371

00:51:40,549 --> 00:51:37,280

are right there on youtube for you to

1372

00:51:43,030 --> 00:51:40,559

enjoy and they're all time-coded

1373

00:51:44,710 --> 00:51:43,040

hello you want to be part of the skeptic

1374

00:51:46,470 --> 00:51:44,720

zone it's maude the cat hello

1375

00:51:48,950 --> 00:51:46,480

what is it are you scared of the rain it

1376

00:51:50,870 --> 00:51:48,960

stopped for the moment

1377

00:51:52,309 --> 00:51:50,880

yes moored you want to say hello to come

1378

00:51:54,470 --> 00:51:52,319

out

1379

00:51:57,109 --> 00:51:54,480

do you want to say hello to everybody

1380

00:52:00,309 --> 00:51:57,119

near the microphone and

1381

00:52:03,030 --> 00:52:00,319

not a peep lord

1382

00:52:06,230 --> 00:52:03,040

all right hop down come on you want your

1383

00:52:08,069 --> 00:52:06,240

dinner maybe she wants her breakfast

1384

00:52:09,430 --> 00:52:08,079

no she's leapt up to the window to look

1385

00:52:11,270 --> 00:52:09,440

at the rain

1386

00:52:12,670 --> 00:52:11,280

thank you to those people who continue

1387

00:52:15,910 --> 00:52:12,680

to support the skeptic zone at

1388

00:52:18,870 --> 00:52:15,920

skepticzone.tv via patreon or paypal

1389

00:52:20,710 --> 00:52:18,880

it's amazing how lots of little

1390

00:52:22,790 --> 00:52:20,720

contributions really add up

1391

00:52:25,270 --> 00:52:22,800

to help support the show and keep it

1392

00:52:26,630 --> 00:52:25,280

going and buy cat food from time to time

1393

00:52:29,510 --> 00:52:26,640

i think

1394

00:52:29,990 --> 00:52:29,520

yes all right you you sit up there and

1395

00:52:33,510 --> 00:52:30,000

watch

1396

00:52:35,510 --> 00:52:33,520

i'll finish the show okay

1397

00:52:36,870 --> 00:52:35,520

i must have the studio doors open there

1398

00:52:38,309 --> 00:52:36,880

you go

1399

00:52:40,549 --> 00:52:38,319

and thank you to those people who've

1400

00:52:42,630 --> 00:52:40,559

just come on board to help support the

1401
00:52:44,470 --> 00:52:42,640
skeptical zone another way you might be

1402
00:52:46,630 --> 00:52:44,480
able to support the skeptical zone if you

1403
00:52:47,750 --> 00:52:46,640
go to skepticalzone.tv and scroll to the

1404
00:52:50,470 --> 00:52:47,760
bottom of the page

1405
00:52:52,230 --> 00:52:50,480
there's a link to a new uh series of

1406
00:52:53,750 --> 00:52:52,240
origami photographs i've put up at the

1407
00:52:56,309 --> 00:52:53,760
site called pickfaire

1408
00:52:57,270 --> 00:52:56,319
which means you can purchase uh digital

1409
00:52:59,910 --> 00:52:57,280
prints

1410
00:53:01,349 --> 00:52:59,920
or digital copies of some of my origami

1411
00:53:01,750 --> 00:53:01,359
pictures you might want to check them

1412
00:53:04,390 --> 00:53:01,760
out

1413
00:53:05,829 --> 00:53:04,400

there are some for free i've put some up

1414

00:53:07,829 --> 00:53:05,839

on wiki

1415

00:53:09,589 --> 00:53:07,839

commons there so anyone can download

1416

00:53:10,630 --> 00:53:09,599

those and use those to your heart's

1417

00:53:13,030 --> 00:53:10,640

content

1418

00:53:14,150 --> 00:53:13,040

but i've put many more up on this site

1419

00:53:15,870 --> 00:53:14,160

called pickfaire anyway

1420

00:53:17,510 --> 00:53:15,880

check it out at the bottom of

1421

00:53:19,829 --> 00:53:17,520

skepticzone.tv

1422

00:53:20,790 --> 00:53:19,839

thank you to lara benham for reminding

1423

00:53:23,030 --> 00:53:20,800

me

1424

00:53:25,589 --> 00:53:23,040

that you can still upload your

1425

00:53:26,870 --> 00:53:25,599

coronavirus conspiracy photographs and

1426

00:53:29,030 --> 00:53:26,880

other nonsense

1427

00:53:30,710 --> 00:53:29,040

concerned with coronavirus via the link

1428

00:53:33,910 --> 00:53:30,720

at skeptics and tv

1429

00:53:36,790 --> 00:53:33,920

the link is in each week's show notes

1430

00:53:38,470 --> 00:53:36,800

uh corona conspiracy.cloud that's the

1431

00:53:40,710 --> 00:53:38,480

website have a look at that and you can

1432

00:53:42,309 --> 00:53:40,720

check out all the wacky conspiracy

1433

00:53:44,549 --> 00:53:42,319

theories and bad

1434

00:53:46,069 --> 00:53:44,559

medical advice people from around the

1435

00:53:47,190 --> 00:53:46,079

world have been uploading to that

1436

00:53:50,069 --> 00:53:47,200

website

1437

00:53:51,790 --> 00:53:50,079

a valuable resource for anyone doing

1438

00:53:54,870 --> 00:53:51,800

stories on quackery and

1439

00:53:56,390 --> 00:53:54,880

coronavirus on next week's show i hope

1440

00:53:58,870 --> 00:53:56,400

to bring you

1441

00:54:00,309 --> 00:53:58,880

a very important interview probably one

1442

00:54:02,710 --> 00:54:00,319

of the most important interviews

1443

00:54:04,150 --> 00:54:02,720

i've done on the skeptic zone i hope to

1444

00:54:07,270 --> 00:54:04,160

interview my dear friend

1445

00:54:10,309 --> 00:54:07,280

siobhan who has a story to tell

1446

00:54:12,790 --> 00:54:10,319

about her uh

1447

00:54:15,030 --> 00:54:12,800

what's the word fight i don't think is

1448

00:54:18,309 --> 00:54:15,040

quite the right word though it might be

1449

00:54:21,589 --> 00:54:18,319

her experiences her story

1450

00:54:23,510 --> 00:54:21,599

with ovarian cancer

1451
00:54:25,349 --> 00:54:23,520
siobhan i've known for some years now

1452
00:54:28,150 --> 00:54:25,359
she started the

1453
00:54:29,109 --> 00:54:28,160
knowing animals podcast all about animal

1454
00:54:30,710 --> 00:54:29,119
welfare

1455
00:54:32,790 --> 00:54:30,720
she's been a guest on the show before

1456
00:54:35,349 --> 00:54:32,800
but right now she has a very different

1457
00:54:36,309 --> 00:54:35,359
and important a very important story to

1458
00:54:39,109 --> 00:54:36,319
tell

1459
00:54:40,710 --> 00:54:39,119
so hopefully i can bring that to you on

1460
00:54:44,630 --> 00:54:40,720
the next episode

1461
00:54:47,349 --> 00:54:44,640
which will be episode 650

1462
00:54:49,589 --> 00:54:47,359
and so that's a milestone just in itself

1463
00:54:50,549 --> 00:54:49,599

also in the trove segment on the next

1464

00:54:52,470 --> 00:54:50,559

episode

1465

00:54:53,750 --> 00:54:52,480

we look at references in the australian

1466

00:54:56,470 --> 00:54:53,760

papers to

1467

00:54:57,510 --> 00:54:56,480

harry houdini the famous escape artist

1468

00:55:00,390 --> 00:54:57,520

and

1469

00:55:02,069 --> 00:55:00,400

noted skeptic but for this week with

1470

00:55:04,069 --> 00:55:02,079

maud the cat

1471

00:55:05,829 --> 00:55:04,079

still looking at me in the corner this

1472

00:55:13,030 --> 00:55:05,839

is richard saunders signing off

1473

00:55:16,309 --> 00:55:14,789

you've been listening to the skeptic

1474

00:55:18,829 --> 00:55:16,319

zone podcast

1475

00:55:20,870 --> 00:55:18,839

please visit our website at

1476

00:55:23,910 --> 00:55:20,880

www.skepticzone

1477

00:55:25,910 --> 00:55:23,920

for show notes contacts and to access

1478

00:55:29,430 --> 00:55:25,920

the back catalog of episodes

1479

00:55:31,510 --> 00:55:29,440

going back to 2008. you can follow the

1480

00:55:34,950 --> 00:55:31,520

skeptic zone podcast on twitter

1481

00:55:38,549 --> 00:55:34,960

at skepticzone visit our facebook page

1482

00:55:39,910 --> 00:55:38,559

or leave a review on itunes you can also

1483

00:55:43,109 --> 00:55:39,920

support the skeptic zone

1484

00:55:43,910 --> 00:55:43,119

via patreon or paypal the skeptic zone

1485

00:55:46,789 --> 00:55:43,920

podcast

1486

00:55:48,549 --> 00:55:46,799

is an independent production the views

1487

00:55:49,030 --> 00:55:48,559

and opinions expressed on the skeptic

1488

00:55:51,030 --> 00:55:49,040

zone

1489

00:55:52,230 --> 00:55:51,040

are not necessarily those of australian

1490

00:56:04,390 --> 00:55:52,240

skeptics or

1491

00:56:08,390 --> 00:56:07,829

oh all right stop giggling all you

1492

00:56:10,549 --> 00:56:08,400

people

1493

00:56:12,309 --> 00:56:10,559

sorry i'm sorry my my friends out there

1494

00:56:14,069 --> 00:56:12,319

this is the end of the show this is the

1495

00:56:16,309 --> 00:56:14,079

afterthoughts the dice game and i've got

1496

00:56:18,789 --> 00:56:16,319

a giggling bunch of skeptics from all

1497

00:56:20,789 --> 00:56:18,799

over the north american continent we're

1498

00:56:22,309 --> 00:56:20,799

actually doing the uh prediction project

1499

00:56:25,510 --> 00:56:22,319

we're continuing with that

1500

00:56:28,789 --> 00:56:25,520

we've just cracked the 400 to go mark

1501

00:56:30,630 --> 00:56:28,799

yes and

1502

00:56:32,309 --> 00:56:30,640

we've been looking at the career of

1503

00:56:34,230 --> 00:56:32,319

leighton hugh at the tennis player today

1504

00:56:34,630 --> 00:56:34,240

but i thought it's time to play the dice

1505

00:56:36,069 --> 00:56:34,640

game

1506

00:56:37,589 --> 00:56:36,079

so for those of you don't know i've got

1507

00:56:39,829 --> 00:56:37,599

a ten sided die i'm just holding it up

1508

00:56:42,230 --> 00:56:39,839

to the camera so all my friends can see

1509

00:56:44,230 --> 00:56:42,240

lovely sort of blue one i'm gonna roll

1510

00:56:47,030 --> 00:56:44,240

this three times maybe four times

1511

00:56:48,549 --> 00:56:47,040

and you have to use your psychic powers

1512

00:56:50,230 --> 00:56:48,559

or your dumb luck or

1513

00:56:52,230 --> 00:56:50,240

and are you are you using the dice

1514

00:56:53,589 --> 00:56:52,240

machine that is rolling i am let me hold

1515

00:56:55,430 --> 00:56:53,599

it up so you can see my dice

1516

00:56:56,870 --> 00:56:55,440

rolling machine ouch just fell on my

1517

00:56:58,710 --> 00:56:56,880

finger there it is

1518

00:57:00,230 --> 00:56:58,720

and are you going to again attempt to do

1519

00:57:00,630 --> 00:57:00,240

carl sagan's voice when you give us the

1520

00:57:04,069 --> 00:57:00,640

numbers

1521

00:57:07,430 --> 00:57:05,829

the answer will be five you're gonna

1522

00:57:10,789 --> 00:57:07,440

have five five all right

1523

00:57:13,430 --> 00:57:10,799

all right all right yes one four nine

1524

00:57:14,230 --> 00:57:13,440

i think three one four oh oh oh so

1525

00:57:17,510 --> 00:57:14,240

you're you're

1526

00:57:21,670 --> 00:57:17,520

giving all three numbers in one hit

1527

00:57:23,510 --> 00:57:21,680

wow i think it's gonna be 31 46 92.

1528

00:57:25,349 --> 00:57:23,520

how many times is he gonna roll up

1529

00:57:26,870 --> 00:57:25,359

that's right well let me let me do let

1530

00:57:27,829 --> 00:57:26,880

me okay he's gonna roll it three times

1531

00:57:30,150 --> 00:57:27,839

maybe four

1532

00:57:31,589 --> 00:57:30,160

here's the first number so what what

1533

00:57:34,150 --> 00:57:31,599

number susan five

1534

00:57:35,030 --> 00:57:34,160

five five four girls they can tell me

1535

00:57:38,829 --> 00:57:35,040

call six

1536

00:57:45,430 --> 00:57:42,309

nine oh no they again

1537

00:57:45,829 --> 00:57:45,440

right carl next number ready what number

1538

00:57:49,270 --> 00:57:45,839

do

1539

00:57:53,670 --> 00:57:49,280

one

1540

00:57:57,030 --> 00:57:53,680

nine again nine here it comes

1541

00:57:59,349 --> 00:57:57,040

two oh come on you

1542

00:58:00,950 --> 00:57:59,359

anybody say two i've got six people in

1543

00:58:06,870 --> 00:58:00,960

front of me come on next one

1544

00:58:06,880 --> 00:58:13,109

one

1545

00:58:16,789 --> 00:58:15,109

this is a bad connection just for you

1546

00:58:17,990 --> 00:58:16,799

i'll do a supplementary so one more

1547

00:58:21,109 --> 00:58:18,000

number come on come on

1548

00:58:24,710 --> 00:58:21,119

five ten four five three

1549

00:58:24,720 --> 00:58:31,670

i'm holding it up so you can all see

1550

00:58:31,680 --> 00:58:39,910

it's a five it's a susan

1551

00:58:42,950 --> 00:58:41,510

thank you everybody let's get back to

1552

00:58:47,109 --> 00:58:42,960

those predictions