

1
00:00:06,139 --> 00:00:13,689
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:22,089 --> 00:00:28,399
hello and welcome to the skeptics are an

4
00:00:24,890 --> 00:00:31,250
episode number 273 for the 13th of

5
00:00:28,399 --> 00:00:33,589
january 2014 Richard Saunders here with

6
00:00:31,250 --> 00:00:36,890
you from Sydney Australia yes I'm back

7
00:00:33,590 --> 00:00:38,510
from a wonderful trip to California

8
00:00:36,890 --> 00:00:41,450
always have a great time in California

9
00:00:38,509 --> 00:00:43,339
but it's nice to be home yeah ok it's a

10
00:00:41,450 --> 00:00:45,590
bit hot and sticky in Sydney bit sweaty

11
00:00:43,340 --> 00:00:47,750
but there you go coming up on this

12
00:00:45,590 --> 00:00:49,930
week's episode of the skeptic zone I

13
00:00:47,750 --> 00:00:53,988
catch up to a good old friend of mine

14
00:00:49,929 --> 00:00:56,359
dr. Simon Singh what a clever man my

15
00:00:53,988 --> 00:00:58,549
friends what a clever man he has written

16
00:00:56,359 --> 00:01:01,308
a new book he's written a new book oh

17
00:00:58,549 --> 00:01:04,099
hello it's Fred the cat hello Fred yep

18
00:01:01,308 --> 00:01:06,560
he has written a new book called The

19
00:01:04,099 --> 00:01:08,599
Simpsons and their mathematical secrets

20
00:01:06,560 --> 00:01:10,100
in fact Simon Singh gave a talk here in

21
00:01:08,599 --> 00:01:12,399
Sydney just the other night about his

22
00:01:10,099 --> 00:01:15,619
new book fascinating all the maths

23
00:01:12,400 --> 00:01:17,390
hidden sort of hidden in the Simpsons

24
00:01:15,620 --> 00:01:19,159
advanced mathematical problems and

25
00:01:17,390 --> 00:01:21,228
equations and all sorts of things really

26
00:01:19,159 --> 00:01:24,829
interesting stuff so I catch up with

27
00:01:21,228 --> 00:01:27,560
Simon and he also discusses the recent

28
00:01:24,828 --> 00:01:29,750
changes to the libel laws in England

29

00:01:27,560 --> 00:01:32,118
following that it's a weakened science

30
00:01:29,750 --> 00:01:35,629
back again from the Royal Institution of

31
00:01:32,118 --> 00:01:37,039
Australia with their predictions there

32
00:01:35,629 --> 00:01:39,438
are scientific predictions or their

33
00:01:37,039 --> 00:01:43,460
predictions in the world of science for

34
00:01:39,438 --> 00:01:46,699
2014 and following that Maynard's spooky

35
00:01:43,459 --> 00:01:49,129
action with his predictions or should I

36
00:01:46,700 --> 00:01:51,228
say the people who go to skeptics in the

37
00:01:49,129 --> 00:01:54,920
pub their predictions for the coming

38
00:01:51,228 --> 00:01:58,849
year 2014 what the skeptics think will

39
00:01:54,920 --> 00:02:01,189
happen this year now just a couple of

40
00:01:58,849 --> 00:02:02,739
quick notes here it's been brought to my

41
00:02:01,188 --> 00:02:06,919
attention there's a book out called

42
00:02:02,739 --> 00:02:10,479
America's imaginary hostage crisis by

43
00:02:06,920 --> 00:02:12,949

Andrew Enders be this is available on

44

00:02:10,479 --> 00:02:16,039

amazon and i will put a link in the show

45

00:02:12,949 --> 00:02:20,060

notes to this episode at www.skeptics.org

46

00:02:16,039 --> 00:02:22,069

TV now in 1979 a group of iranian

47

00:02:20,060 --> 00:02:25,670

students invaded and occupied the US

48

00:02:22,069 --> 00:02:28,840

Embassy in Tehran 6,000 miles away a

49

00:02:25,669 --> 00:02:31,579

newly trained the team of military mmm

50

00:02:28,840 --> 00:02:34,360

psychics was given the task of remotely

51

00:02:31,580 --> 00:02:37,219

viewing the embassy ground

52

00:02:34,360 --> 00:02:40,160

but how accurate were they for the first

53

00:02:37,219 --> 00:02:43,098

time ever these declassified reports are

54

00:02:40,159 --> 00:02:44,900

looked at in detail and compared to the

55

00:02:43,098 --> 00:02:47,869

real events all that does sound

56

00:02:44,900 --> 00:02:50,510

interesting America's imaginary hostage

57

00:02:47,870 --> 00:02:56,379

crisis worth a look also I'm delighted

58
00:02:50,509 --> 00:03:00,799
to say that radio citywide LPFM org

59
00:02:56,379 --> 00:03:04,489
neighbor radio 99.1 FM in Madison

60
00:03:00,800 --> 00:03:07,340
Wisconsin will now be replaying

61
00:03:04,489 --> 00:03:10,030
interviews from the skeptic zone great

62
00:03:07,340 --> 00:03:14,810
to know if you're in that area tune in

63
00:03:10,030 --> 00:03:17,360
99.1 FM well I know you're keen to hear

64
00:03:14,810 --> 00:03:19,098
Simon Singh but for now I'm going to run

65
00:03:17,360 --> 00:03:21,709
to the fridge run downstairs run to the

66
00:03:19,098 --> 00:03:24,469
fridge get myself a nice tall glass of

67
00:03:21,709 --> 00:03:27,098
ice-cold water while you enjoy the

68
00:03:24,469 --> 00:03:27,098
skeptic zone

69
00:03:44,219 --> 00:03:49,030
I'm sitting here in a sort of a

70
00:03:47,020 --> 00:03:51,040
backstreet of darling harbour in Sydney

71
00:03:49,030 --> 00:03:52,509
that other fellow some rainbow lorikeets

72
00:03:51,039 --> 00:03:55,840
in the tree above us there are some

73
00:03:52,509 --> 00:03:57,429
people walking by I'm with dr. Simon

74
00:03:55,840 --> 00:03:58,960
Singh who's visiting Australia hello

75
00:03:57,430 --> 00:04:00,659
Simon yeah we should says a very

76
00:03:58,960 --> 00:04:03,550
picturesque car park right behind this

77
00:04:00,659 --> 00:04:05,079
is a volume asst car park with hardly

78
00:04:03,550 --> 00:04:07,930
any cars but I think people can hear the

79
00:04:05,080 --> 00:04:10,750
street noises you you've found yourself

80
00:04:07,930 --> 00:04:12,400
in a rather nice part of Sydney I must

81
00:04:10,750 --> 00:04:14,319
say down here in darling harbour yeah

82
00:04:12,400 --> 00:04:16,600
well it i'm here with my wife and my

83
00:04:14,319 --> 00:04:18,339
child and we're here partly for a family

84
00:04:16,600 --> 00:04:20,439
wedding in melbourne so began heading to

85
00:04:18,339 --> 00:04:22,119
melbourne in a couple of days in a

86

00:04:20,439 --> 00:04:26,019
camper van so we had a bit of a holiday

87
00:04:22,120 --> 00:04:28,240
as well really and also chance to talk

88
00:04:26,019 --> 00:04:29,620
to some skeptics while i'm here and i've

89
00:04:28,240 --> 00:04:30,790
written a new book so i'm giving some

90
00:04:29,620 --> 00:04:33,490
talked about the book as well so it's a

91
00:04:30,790 --> 00:04:34,720
bit of work a bit of fun at a bit of

92
00:04:33,490 --> 00:04:36,040
kind of visiting relatives as well

93
00:04:34,720 --> 00:04:37,780
that's excellent well let's talk about

94
00:04:36,040 --> 00:04:40,360
the book because you were very

95
00:04:37,779 --> 00:04:42,069
graciously gave a talk here in sydney

96
00:04:40,360 --> 00:04:44,710
just a couple of nights ago the day you

97
00:04:42,069 --> 00:04:46,870
flew in I might add for our local Sydney

98
00:04:44,709 --> 00:04:48,939
skeptics in the pub all about your new

99
00:04:46,870 --> 00:04:50,889
book and the feedback we've been getting

100
00:04:48,939 --> 00:04:52,779

from the talk and the books are flying

101

00:04:50,889 --> 00:04:54,819

off the shelves so to speak at your talk

102

00:04:52,779 --> 00:04:56,769

which was very gratifying it's been very

103

00:04:54,819 --> 00:04:59,110

positive people loved your talk what's

104

00:04:56,769 --> 00:05:01,689

the book all about and and how can

105

00:04:59,110 --> 00:05:04,150

people get oh yeah but yeah yeah I guess

106

00:05:01,689 --> 00:05:05,350

he says I'd flown in that day and so

107

00:05:04,149 --> 00:05:07,120

it's normally the audience it falls

108

00:05:05,350 --> 00:05:09,220

asleep in my talks but that day was it

109

00:05:07,120 --> 00:05:11,800

was almost made it fell asleep but um

110

00:05:09,220 --> 00:05:13,210

yeah so the story of this book so the

111

00:05:11,800 --> 00:05:14,650

last book I've written was all about

112

00:05:13,209 --> 00:05:19,899

alternative medicine and that was very

113

00:05:14,649 --> 00:05:22,899

much about criticizing bad science or

114

00:05:19,899 --> 00:05:25,239

bad medicine this is a book very much

115
00:05:22,899 --> 00:05:27,189
impressive or in celebration of

116
00:05:25,240 --> 00:05:29,379
something good something positive which

117
00:05:27,189 --> 00:05:32,189
is the fact that a lot of the writers of

118
00:05:29,379 --> 00:05:34,870
The Simpsons and a lot of the writers of

119
00:05:32,189 --> 00:05:37,959
futurama because a very very similar

120
00:05:34,870 --> 00:05:40,480
team of writers those writers have very

121
00:05:37,959 --> 00:05:42,459
strong mathematical backgrounds and I

122
00:05:40,480 --> 00:05:44,710
mean people okay with degrees in maths

123
00:05:42,459 --> 00:05:46,959
which is impressive enough some have got

124
00:05:44,709 --> 00:05:47,439
PhDs in maths some of written

125
00:05:46,959 --> 00:05:50,219
mathematically

126
00:05:47,439 --> 00:05:53,230
research papers one chap Jeff Westbrook

127
00:05:50,220 --> 00:05:56,770
was a Yale professor before he became a

128
00:05:53,230 --> 00:05:58,689
comedy writer and all of these writers

129
00:05:56,769 --> 00:06:00,939
when the mathematical background have

130
00:05:58,689 --> 00:06:03,879
been smuggling mathematical equations

131
00:06:00,939 --> 00:06:07,029
and special mathematical numbers into

132
00:06:03,879 --> 00:06:09,430
the simpsons and futurama over over the

133
00:06:07,029 --> 00:06:11,529
last few decades or 25 years in the case

134
00:06:09,430 --> 00:06:13,540
of the simpsons and and people have

135
00:06:11,529 --> 00:06:16,239
never noticed them before very very few

136
00:06:13,540 --> 00:06:18,340
people noticing because they smuggled

137
00:06:16,240 --> 00:06:21,400
into the name of a book on a bookshelf

138
00:06:18,339 --> 00:06:23,859
or or the name of a shop is homer and

139
00:06:21,399 --> 00:06:25,779
bart walk by and and so the book is

140
00:06:23,860 --> 00:06:27,840
about really pulling out all those bits

141
00:06:25,779 --> 00:06:30,069
of maths explaining what the math is

142
00:06:27,839 --> 00:06:31,659
explaining a bit about it in the context

143

00:06:30,069 --> 00:06:34,149
of the show and what the shows all about

144
00:06:31,660 --> 00:06:35,980
and talking about the writers who are

145
00:06:34,149 --> 00:06:38,799
these people who started off as

146
00:06:35,980 --> 00:06:41,080
mathematicians and who are now not just

147
00:06:38,800 --> 00:06:43,810
comedy writers but comedy writers on the

148
00:06:41,079 --> 00:06:45,519
most successful TV show in history yes

149
00:06:43,810 --> 00:06:48,730
yes that's right and it was personating

150
00:06:45,519 --> 00:06:52,269
when you had example stills from the

151
00:06:48,730 --> 00:06:55,240
show and you do min on a corner of the

152
00:06:52,269 --> 00:06:57,310
whole frame and there's a number yeah

153
00:06:55,240 --> 00:06:59,110
which had a very special meaning or a

154
00:06:57,310 --> 00:07:01,750
series of numbers yeah I mean so for

155
00:06:59,110 --> 00:07:04,750
example this episode called Marge and

156
00:07:01,750 --> 00:07:07,180
Homer turn a couple play where a

157
00:07:04,750 --> 00:07:08,529

character called Tabitha vicks whose

158

00:07:07,180 --> 00:07:10,930

marriage with baseball player but

159

00:07:08,529 --> 00:07:13,659

Mitchell Tabitha and Parker having

160

00:07:10,930 --> 00:07:15,610

marital problems and the whole episode

161

00:07:13,660 --> 00:07:18,640

is about how their marriage is repaired

162

00:07:15,610 --> 00:07:20,530

by Marge and Homer so that's what the

163

00:07:18,639 --> 00:07:24,750

stories are bagged and at the end of the

164

00:07:20,529 --> 00:07:27,849

story there's a jumbo vision TV screen

165

00:07:24,750 --> 00:07:30,418

at the baseball stadium and there's a

166

00:07:27,850 --> 00:07:35,290

question on it which says what is the

167

00:07:30,418 --> 00:07:37,449

crowd in today's baseball game and there

168

00:07:35,290 --> 00:07:40,030

are three numbers up there and each of

169

00:07:37,449 --> 00:07:41,889

those numbers is mathematically very

170

00:07:40,029 --> 00:07:43,389

very significant and but they're not

171

00:07:41,889 --> 00:07:45,370

dissimilar they're all in the same room

172
00:07:43,389 --> 00:07:47,409
they're all about 8,000 which is what

173
00:07:45,370 --> 00:07:51,160
you might expect for a baseball crowd so

174
00:07:47,410 --> 00:07:53,350
I think one number is 81 to 88 12 a l

175
00:07:51,160 --> 00:07:54,970
think is a perfect number which means

176
00:07:53,350 --> 00:07:58,090
that the factors of the number the

177
00:07:54,970 --> 00:08:00,610
divisors of that number add up to the

178
00:07:58,089 --> 00:08:01,329
number itself like six one two and three

179
00:08:00,610 --> 00:08:03,060
go in to see

180
00:08:01,329 --> 00:08:08,378
and one and two and three add up to six

181
00:08:03,060 --> 00:08:10,598
another number is 8 2008 yeah 8208 and

182
00:08:08,379 --> 00:08:13,270
an 8 2008 is special because it's got

183
00:08:10,598 --> 00:08:15,878
four digits so we raise each digit to

184
00:08:13,269 --> 00:08:18,218
the 4th power so 8208 becomes 8 to the

185
00:08:15,879 --> 00:08:20,500
fourth plus 2 to the fourth plus zero to

186
00:08:18,218 --> 00:08:23,050
the fourth plus 8 to the four add all of

187
00:08:20,500 --> 00:08:25,689
that together and you get back to 8208

188
00:08:23,050 --> 00:08:27,400
you call that a NASA sick sister yet a

189
00:08:25,689 --> 00:08:30,430
narcissistic number because the digits

190
00:08:27,399 --> 00:08:32,139
number the number reforms itself from

191
00:08:30,430 --> 00:08:35,110
its own digits it's an almost in love

192
00:08:32,139 --> 00:08:36,429
with itself as a narcissistic number and

193
00:08:35,110 --> 00:08:38,229
again these numbers are rare there are

194
00:08:36,429 --> 00:08:41,259
less than a hundred I'm actually

195
00:08:38,229 --> 00:08:43,509
infinity of numbers so roof those are

196
00:08:41,259 --> 00:08:47,860
the kind of things that are going on in

197
00:08:43,509 --> 00:08:49,750
the show what did you have to do to to

198
00:08:47,860 --> 00:08:52,269
discover all these little gems well I

199
00:08:49,750 --> 00:08:54,129
mean did you literally spend hours upon

200

00:08:52,269 --> 00:08:56,649
hours watching the simpsons and we

201
00:08:54,129 --> 00:08:58,870
jarama yeah I thinking about it's a book

202
00:08:56,649 --> 00:09:02,470
I've been researching all my life or for

203
00:08:58,870 --> 00:09:06,009
half of my life anyway but so I spotted

204
00:09:02,470 --> 00:09:07,300
this about 10 years ago and and I wanted

205
00:09:06,009 --> 00:09:09,220
to write a book about it 10 years ago

206
00:09:07,299 --> 00:09:11,078
and then I got distracted by alternative

207
00:09:09,220 --> 00:09:14,350
medicine you know I got sued for libel

208
00:09:11,078 --> 00:09:16,000
they took up a few years and we've been

209
00:09:14,350 --> 00:09:17,800
campaigning for libel reform that took

210
00:09:16,000 --> 00:09:20,230
up some time but then about two years

211
00:09:17,799 --> 00:09:23,769
ago or three years ago I got back to the

212
00:09:20,230 --> 00:09:26,500
book and partly I rewatched a lot of

213
00:09:23,769 --> 00:09:28,209
episodes with the fries for it with your

214
00:09:26,500 --> 00:09:31,350

pause button yeah and just just just

215

00:09:28,208 --> 00:09:33,518

watching through them over and over I

216

00:09:31,350 --> 00:09:35,199

listened a lot of the shows i listened

217

00:09:33,519 --> 00:09:37,570

to them with the DVD commentary switched

218

00:09:35,198 --> 00:09:39,698

on because then the right is sometimes

219

00:09:37,570 --> 00:09:41,470

mentioned oh by the way this is why this

220

00:09:39,698 --> 00:09:43,539

numbers there right well if you look in

221

00:09:41,470 --> 00:09:47,079

the corner you'll see sir miles last

222

00:09:43,539 --> 00:09:48,370

theorem or something yeah partly I spoke

223

00:09:47,078 --> 00:09:51,578

to other people for example there are

224

00:09:48,370 --> 00:09:54,669

two professors in America who've written

225

00:09:51,578 --> 00:09:57,698

lecture courses for undergraduates using

226

00:09:54,669 --> 00:09:59,578

a few examples from The Simpsons so they

227

00:09:57,698 --> 00:10:02,259

were very helpful i interviewed them and

228

00:09:59,578 --> 00:10:04,059

then I went to America and I spend a

229
00:10:02,259 --> 00:10:05,769
week with the writers that must have

230
00:10:04,059 --> 00:10:08,278
been really amazing I was fantastic they

231
00:10:05,769 --> 00:10:11,948
were so generous with their time so

232
00:10:08,278 --> 00:10:13,919
willing to I mean the book is called The

233
00:10:11,948 --> 00:10:17,429
Simpsons and their mathematical seek

234
00:10:13,919 --> 00:10:22,049
right but but in truth it was never a

235
00:10:17,429 --> 00:10:24,088
secret the writers hit the maths but

236
00:10:22,049 --> 00:10:25,949
they hit it purely so that it didn't get

237
00:10:24,089 --> 00:10:27,180
in the way of the plot sort of hidden in

238
00:10:25,950 --> 00:10:30,509
plain sight hidden in plain sight

239
00:10:27,179 --> 00:10:33,719
exactly and so it was never supposed to

240
00:10:30,509 --> 00:10:36,059
be a secret and they're very happy that

241
00:10:33,720 --> 00:10:37,620
now more people know about this this

242
00:10:36,059 --> 00:10:39,328
mathematics because in a way what

243
00:10:37,620 --> 00:10:42,089
they're doing is that they're reaching

244
00:10:39,328 --> 00:10:43,649
out to their fellow geeks you know if

245
00:10:42,089 --> 00:10:46,670
you're a teenage kid and you love maths

246
00:10:43,649 --> 00:10:48,690
and you see some math in the Simpsons

247
00:10:46,669 --> 00:10:50,189
you begin to think what hang on the

248
00:10:48,690 --> 00:10:52,620
right and the simpsons love maths as

249
00:10:50,190 --> 00:10:54,660
much as i do and and maybe that makes

250
00:10:52,620 --> 00:10:58,198
people feel better about their own love

251
00:10:54,659 --> 00:11:01,528
of mathematics oh yeah no no secret but

252
00:10:58,198 --> 00:11:03,179
but but something that people have not

253
00:11:01,528 --> 00:11:05,220
really known about before and I like the

254
00:11:03,179 --> 00:11:07,888
fact that the Booker's Simpsons yellow

255
00:11:05,220 --> 00:11:10,009
in color it is yellow I never noticed

256
00:11:07,889 --> 00:11:14,610
that before you're right you're right oh

257

00:11:10,009 --> 00:11:16,828
but yeah I mean Fox obviously own the

258
00:11:14,610 --> 00:11:18,839
simpsons and labor they were very very

259
00:11:16,828 --> 00:11:20,278
supportive they gave us okay some stills

260
00:11:18,839 --> 00:11:22,290
that i was wondering how that worked

261
00:11:20,278 --> 00:11:25,198
with the fact that you're using their

262
00:11:22,289 --> 00:11:28,278
materials well there's others named the

263
00:11:25,198 --> 00:11:30,569
sims well yeah i think if you're kritis

264
00:11:28,278 --> 00:11:32,879
criticizing not quite the right word but

265
00:11:30,570 --> 00:11:34,730
if you're commenting on it on a work of

266
00:11:32,879 --> 00:11:37,259
art which i think the simpsons is ya

267
00:11:34,730 --> 00:11:39,089
then then you'll give it quite a lot of

268
00:11:37,259 --> 00:11:40,708
flexibility if you're great basically

269
00:11:39,089 --> 00:11:42,779
creating your own content and you're

270
00:11:40,708 --> 00:11:44,309
commenting on it okay and you're

271
00:11:42,778 --> 00:11:46,588

praising it at the end and it is a

272

00:11:44,309 --> 00:11:47,939

celebration of the show and it's written

273

00:11:46,589 --> 00:11:50,430

i think you know really with the

274

00:11:47,940 --> 00:11:53,250

collaboration of the writers and and as

275

00:11:50,429 --> 00:11:54,989

if Fox gave us four images to use from

276

00:11:53,250 --> 00:11:56,909

the show in the book which is great

277

00:11:54,990 --> 00:11:59,459

because they're very very careful about

278

00:11:56,909 --> 00:12:02,429

how their images are used and the

279

00:11:59,458 --> 00:12:03,778

writers have just you know even after

280

00:12:02,429 --> 00:12:06,179

the book was published they've been

281

00:12:03,778 --> 00:12:07,860

giving interviews I gave a lecture at

282

00:12:06,179 --> 00:12:10,169

the Museum of mathematics in New York

283

00:12:07,860 --> 00:12:14,129

with my crease all about his involvement

284

00:12:10,169 --> 00:12:15,689

in the show and and so on so yeah it's

285

00:12:14,129 --> 00:12:20,220

been really good working with the

286
00:12:15,690 --> 00:12:21,420
writers and and yeah it's a cell and say

287
00:12:20,220 --> 00:12:23,610
not just the symptoms but also a

288
00:12:21,419 --> 00:12:25,139
futurama right when i when i got to the

289
00:12:23,610 --> 00:12:27,690
states they were actually editing the

290
00:12:25,139 --> 00:12:29,610
next series and the final series a few

291
00:12:27,690 --> 00:12:33,420
drama so I got to see some of the shows

292
00:12:29,610 --> 00:12:35,190
before they were all cast and those 2d

293
00:12:33,419 --> 00:12:37,379
blacktop is an episode that people may

294
00:12:35,190 --> 00:12:41,160
have seen but in this episode that

295
00:12:37,379 --> 00:12:43,769
there's a drag racing scene on a mobius

296
00:12:41,159 --> 00:12:46,679
strip drag strip when a mobius strip is

297
00:12:43,769 --> 00:12:48,329
an old mathematical geometrical loop

298
00:12:46,679 --> 00:12:49,739
with a twist in it boosted it which

299
00:12:48,330 --> 00:12:53,210
means it is a shape that only has one

300
00:12:49,740 --> 00:12:55,440
side yeah and because of that in the end

301
00:12:53,210 --> 00:12:58,259
Leela professor farnsworth have a

302
00:12:55,440 --> 00:13:00,390
head-on collision and they get squashed

303
00:12:58,259 --> 00:13:02,100
into two dimensions I've seen that

304
00:13:00,389 --> 00:13:04,710
episode little earlier so that the whole

305
00:13:02,100 --> 00:13:08,040
animation changes and that is an homage

306
00:13:04,710 --> 00:13:10,440
to a novella written by Edwin a Abbott

307
00:13:08,039 --> 00:13:11,849
called flatland which is all about

308
00:13:10,440 --> 00:13:15,480
creatures living in a two-dimensional

309
00:13:11,850 --> 00:13:18,659
world so you have a TV show now paying

310
00:13:15,480 --> 00:13:20,550
or Marge to a mathematical novella and

311
00:13:18,659 --> 00:13:24,120
then eventually when they figure out how

312
00:13:20,549 --> 00:13:25,799
to get back to three dimensions you know

313
00:13:24,120 --> 00:13:28,470
for good good to go from two dimensions

314

00:13:25,799 --> 00:13:30,899
to three dimensions you don't just snap

315
00:13:28,470 --> 00:13:35,370
between two and three you could pass

316
00:13:30,899 --> 00:13:36,389
between the fractional dimensions now

317
00:13:35,370 --> 00:13:37,440
you might think we're hang or how can

318
00:13:36,389 --> 00:13:40,710
have some how can something have a

319
00:13:37,440 --> 00:13:43,320
fractional dimension well fractals turn

320
00:13:40,710 --> 00:13:46,320
out to have a fractional dimension and

321
00:13:43,320 --> 00:13:47,670
and so as they pass as the characters

322
00:13:46,320 --> 00:13:50,370
move from two dimensions to three

323
00:13:47,669 --> 00:13:52,979
dimensions they pass through fractal

324
00:13:50,370 --> 00:13:56,190
landscapes so again all of this is is

325
00:13:52,980 --> 00:13:58,259
kind of just background yeah yeah but if

326
00:13:56,190 --> 00:14:01,200
you know about these things it just

327
00:13:58,259 --> 00:14:03,210
makes a show even even richer and

328
00:14:01,200 --> 00:14:04,530

something fell over there I don't know

329

00:14:03,210 --> 00:14:07,139

what it was but if you don't know about

330

00:14:04,529 --> 00:14:08,909

that stuff it's still a funny show yes

331

00:14:07,139 --> 00:14:10,740

yes actually enjoy the adventure that's

332

00:14:08,909 --> 00:14:12,600

that that's the skill of these writings

333

00:14:10,740 --> 00:14:16,320

that it's working on so many different

334

00:14:12,600 --> 00:14:19,040

levels that yeah yeah

335

00:14:16,320 --> 00:14:21,870

yeah I remember when I came back from

336

00:14:19,039 --> 00:14:23,610

when the Simpson started I was working

337

00:14:21,870 --> 00:14:26,879

in CERN at the time I missed I think the

338

00:14:23,610 --> 00:14:28,379

first two seasons I came back in my 9

339

00:14:26,879 --> 00:14:30,720

year old nephew was watching this old

340

00:14:28,379 --> 00:14:33,509

show with yellow characters and so on

341

00:14:30,720 --> 00:14:36,360

and it I didn't really get and I assumed

342

00:14:33,509 --> 00:14:38,129

it was a show for 9 year olds and it's

343
00:14:36,360 --> 00:14:39,720
got lots of slapstick lots of fun and

344
00:14:38,129 --> 00:14:41,730
games and then you begin to watch it as

345
00:14:39,720 --> 00:14:43,379
an adult and pretty soon you realize

346
00:14:41,730 --> 00:14:46,259
that this is a show that works for

347
00:14:43,379 --> 00:14:47,700
everybody yes oh absolutely well he's

348
00:14:46,259 --> 00:14:49,980
been many shows like that over the years

349
00:14:47,700 --> 00:14:52,290
of gas as with you know how can people

350
00:14:49,980 --> 00:14:54,090
get their hands on their own copy okay i

351
00:14:52,289 --> 00:14:56,789
guess i guess i get it's available in

352
00:14:54,090 --> 00:14:58,440
all good bookshops i think they're going

353
00:14:56,789 --> 00:15:01,230
the motorbikes running just dashed off

354
00:14:58,440 --> 00:15:04,410
to get a copy right now but yeah I guess

355
00:15:01,230 --> 00:15:06,659
it's available online I guess so yeah

356
00:15:04,409 --> 00:15:08,309
I've just I've just arrived here and so

357
00:15:06,659 --> 00:15:10,110
I'm going to be doing some more

358
00:15:08,309 --> 00:15:16,769
interviews with various radio stations

359
00:15:10,110 --> 00:15:19,350
and a bit of TV so so yeah but I google

360
00:15:16,769 --> 00:15:21,389
yeah being google it I mean the response

361
00:15:19,350 --> 00:15:23,070
has been fantastic in Germany it's a

362
00:15:21,389 --> 00:15:25,409
it's a runaway bestseller you know I

363
00:15:23,070 --> 00:15:28,170
gave a talk in Berlin and I was thrilled

364
00:15:25,409 --> 00:15:30,600
to bits because in the audience was the

365
00:15:28,169 --> 00:15:32,849
German actor a german actress actor he

366
00:15:30,600 --> 00:15:35,070
plays Lisa no does the voiceover for

367
00:15:32,850 --> 00:15:37,230
Lisa and I was chatting to her

368
00:15:35,070 --> 00:15:41,100
afterwards and she had no idea of all

369
00:15:37,230 --> 00:15:42,480
the mathematica show really so so that's

370
00:15:41,100 --> 00:15:44,190
been great to take you off in Germany

371

00:15:42,480 --> 00:15:47,460
the response in Britain's been great and

372
00:15:44,190 --> 00:15:49,740
not in America I was touring and so it's

373
00:15:47,460 --> 00:15:51,780
it's just you know you've spent years

374
00:15:49,740 --> 00:15:53,370
working on a book and what you want this

375
00:15:51,779 --> 00:15:55,230
for people to go out there and enjoy it

376
00:15:53,370 --> 00:15:56,580
so well so far it's been great I think

377
00:15:55,230 --> 00:15:58,909
the reaction from the crowd the other

378
00:15:56,580 --> 00:16:01,410
night in the pub was interesting i was

379
00:15:58,909 --> 00:16:03,689
up the front and those well i was moving

380
00:16:01,409 --> 00:16:05,549
around a bit but what I really loved was

381
00:16:03,690 --> 00:16:08,370
you would show something and there would

382
00:16:05,549 --> 00:16:11,699
be gasps yeah people would really truly

383
00:16:08,370 --> 00:16:13,259
go oh like they've seen the most amazing

384
00:16:11,700 --> 00:16:13,950
because they probably know the episode

385
00:16:13,259 --> 00:16:16,590

of their never real

386

00:16:13,950 --> 00:16:18,000

the thing yet I think I think people

387

00:16:16,590 --> 00:16:20,160

sometimes think well if this is a book

388

00:16:18,000 --> 00:16:22,799

about the simpsons the maths in it must

389

00:16:20,159 --> 00:16:25,139

be fairly trivial and the maths is

390

00:16:22,799 --> 00:16:27,719

nothing but it nothing it's a deal

391

00:16:25,139 --> 00:16:29,370

nothing open it there are discussions of

392

00:16:27,720 --> 00:16:31,259

infinity but not only discussions the

393

00:16:29,370 --> 00:16:33,899

infinity and future armor the cinema is

394

00:16:31,259 --> 00:16:36,779

called the LF null and a left null is

395

00:16:33,899 --> 00:16:38,819

the smallest type of infinity so the

396

00:16:36,779 --> 00:16:40,169

implication and it's a very important

397

00:16:38,820 --> 00:16:42,900

mathematical implication is it there are

398

00:16:40,169 --> 00:16:44,750

different scales of infinity so we talk

399

00:16:42,899 --> 00:16:47,459

about everything from calculus and

400
00:16:44,750 --> 00:16:50,039
infinite decimals all the way up to

401
00:16:47,460 --> 00:16:51,750
infinity and everything in between and

402
00:16:50,039 --> 00:16:53,129
then I think the lovely thing is it

403
00:16:51,750 --> 00:16:55,799
although some of the ideas are quite

404
00:16:53,129 --> 00:16:57,870
complicated you've got Marge and Homer

405
00:16:55,799 --> 00:17:00,299
kind of holding your hand and taking you

406
00:16:57,870 --> 00:17:01,950
through the but hopefully hopefully kind

407
00:17:00,299 --> 00:17:03,149
of making it more accessible found out

408
00:17:01,950 --> 00:17:05,039
where I can certainly recommend that

409
00:17:03,149 --> 00:17:07,920
book and if you have a chance to see dr.

410
00:17:05,039 --> 00:17:09,930
Simon Singh present don't miss that

411
00:17:07,920 --> 00:17:14,640
chance now let's talk briefly about the

412
00:17:09,930 --> 00:17:17,250
latest developments in the UK when it

413
00:17:14,640 --> 00:17:19,860
comes to the libel situation and also

414
00:17:17,250 --> 00:17:22,049
the chiropractic all mixed up yes so

415
00:17:19,859 --> 00:17:24,838
okay so I was sued for libel Bonnie hire

416
00:17:22,049 --> 00:17:29,190
practice in Britain and eventually won

417
00:17:24,838 --> 00:17:32,220
my case but two things came out of that

418
00:17:29,190 --> 00:17:34,440
two good things came out of it one is

419
00:17:32,220 --> 00:17:36,930
that there was more awareness of the

420
00:17:34,440 --> 00:17:38,820
rotten claims made by some chiropractors

421
00:17:36,930 --> 00:17:41,279
in terms of lack of evidence to support

422
00:17:38,819 --> 00:17:42,869
these claims and so I think people in

423
00:17:41,279 --> 00:17:45,389
general are more aware that

424
00:17:42,869 --> 00:17:50,699
chiropractors can't treat asthma really

425
00:17:45,390 --> 00:17:53,850
young and also there were there were

426
00:17:50,700 --> 00:17:55,500
skeptics two or three in particular who

427
00:17:53,849 --> 00:17:57,839
began to submit complaints to the

428

00:17:55,500 --> 00:17:59,640
regulatory body of chiropractors so I

429
00:17:57,839 --> 00:18:01,369
think the regulator's of chiropractic

430
00:17:59,640 --> 00:18:04,160
have come down on some of these claims

431
00:18:01,369 --> 00:18:06,359
and so so in Britain I think

432
00:18:04,160 --> 00:18:08,370
chiropractic is better understood in

433
00:18:06,359 --> 00:18:11,279
terms of limitations and is better

434
00:18:08,369 --> 00:18:12,750
policed by its regulators and the other

435
00:18:11,279 --> 00:18:14,970
good thing that came out of it was that

436
00:18:12,750 --> 00:18:18,000
lots of people said that they were being

437
00:18:14,970 --> 00:18:20,940
sued for libel and that and people began

438
00:18:18,000 --> 00:18:23,069
to realize how one-sided our libel laws

439
00:18:20,940 --> 00:18:24,269
in England were in fact the last not

440
00:18:23,069 --> 00:18:25,829
then maybe not the last time I was here

441
00:18:24,269 --> 00:18:26,980
but the time before that I gave an

442
00:18:25,829 --> 00:18:29,710

interview to the Melbourne

443

00:18:26,980 --> 00:18:31,990

yeah and my interview could not be

444

00:18:29,710 --> 00:18:34,419

published because the journalist was

445

00:18:31,990 --> 00:18:36,849

scared that he might end up getting sued

446

00:18:34,419 --> 00:18:38,500

back in London yes that's bizarre yeah

447

00:18:36,849 --> 00:18:40,539

it's a thing called libel Torres I have

448

00:18:38,500 --> 00:18:42,460

heard of that yeah the libel laws in

449

00:18:40,539 --> 00:18:43,869

England being so one-sided that people

450

00:18:42,460 --> 00:18:46,090

from all over the world was suing in

451

00:18:43,869 --> 00:18:49,239

London yeah so a campaign started to

452

00:18:46,089 --> 00:18:52,000

reform English libel law it took years

453

00:18:49,240 --> 00:18:53,710

and years which is actually three years

454

00:18:52,000 --> 00:18:55,839

but but that's pretty quick in terms of

455

00:18:53,710 --> 00:19:00,039

transforming a whole area of law from

456

00:18:55,839 --> 00:19:03,009

scratch but the 2013 defamation act

457
00:19:00,039 --> 00:19:06,159
which was passed last year came into

458
00:19:03,009 --> 00:19:09,308
force earlier this month and so we now

459
00:19:06,160 --> 00:19:10,870
have a new defamation law you know we

460
00:19:09,308 --> 00:19:12,759
need a defamation law you know we don't

461
00:19:10,869 --> 00:19:14,349
want to get rid of libel you know we've

462
00:19:12,759 --> 00:19:16,839
all got reputations and we wouldn't want

463
00:19:14,349 --> 00:19:18,519
them unfairly besmirched yeah but at the

464
00:19:16,839 --> 00:19:19,899
same time we want to encourage free

465
00:19:18,519 --> 00:19:23,950
speech and it's about getting that

466
00:19:19,900 --> 00:19:26,200
balance right and the new libel law is a

467
00:19:23,950 --> 00:19:28,450
big step towards having a fairer balance

468
00:19:26,200 --> 00:19:30,100
so there are many many changes so for

469
00:19:28,450 --> 00:19:32,890
example it's now harder to bring libel

470
00:19:30,099 --> 00:19:35,740
tourism cases to London from a

471
00:19:32,890 --> 00:19:38,500
scientific point of view if you publish

472
00:19:35,740 --> 00:19:40,298
research in an academic journal and it's

473
00:19:38,500 --> 00:19:43,210
been peer-reviewed it's going to be

474
00:19:40,298 --> 00:19:44,829
really hard to get sued for libel so in

475
00:19:43,210 --> 00:19:47,558
a way that's the place where open

476
00:19:44,829 --> 00:19:49,779
discussion needs to be as sacred as

477
00:19:47,558 --> 00:19:51,548
possible and the new libel will reflect

478
00:19:49,779 --> 00:19:53,379
that and there are many other changes in

479
00:19:51,548 --> 00:19:55,750
the libel or which are generally very

480
00:19:53,380 --> 00:19:58,960
positive and more to come do you think

481
00:19:55,750 --> 00:20:00,730
oh well there are two things that I

482
00:19:58,960 --> 00:20:03,340
think we'll have to keep an eye on one

483
00:20:00,730 --> 00:20:05,769
is that how are the judge is going to

484
00:20:03,339 --> 00:20:07,990
interpret this law and I think there are

485

00:20:05,769 --> 00:20:10,950
signs already that judges are

486
00:20:07,990 --> 00:20:13,298
interpreting the old law in a more

487
00:20:10,950 --> 00:20:15,548
generous fashion so I think they'll

488
00:20:13,298 --> 00:20:16,900
understand what the new law is supposed

489
00:20:15,548 --> 00:20:19,960
to do and will interpret it in the

490
00:20:16,900 --> 00:20:23,788
appropriate manner the problem that

491
00:20:19,960 --> 00:20:26,340
still has to be fixed is that

492
00:20:23,788 --> 00:20:29,158
Northern Ireland hasn't adopted this new

493
00:20:26,339 --> 00:20:31,158
libel law really and in a way that's

494
00:20:29,159 --> 00:20:34,289
that's fine because they have their own

495
00:20:31,159 --> 00:20:36,479
political process and they need to make

496
00:20:34,288 --> 00:20:38,429
sure that they're happy with it my

497
00:20:36,479 --> 00:20:40,409
problem and many other people share this

498
00:20:38,429 --> 00:20:44,940
concern is that they don't seem to show

499
00:20:40,409 --> 00:20:47,309

great enthusiasm for changing or keen to

500

00:20:44,940 --> 00:20:49,048

do it with any any speed at all and and

501

00:20:47,308 --> 00:20:51,569

if Northern Ireland doesn't change its

502

00:20:49,048 --> 00:20:54,749

libel law then Belfast will become the

503

00:20:51,569 --> 00:20:58,829

new liable capital and academic journals

504

00:20:54,749 --> 00:21:01,259

will end up being sued in Belfast so you

505

00:20:58,829 --> 00:21:03,778

know I I hope it doesn't take an

506

00:21:01,259 --> 00:21:07,108

outrageous and embarrassing case to

507

00:21:03,778 --> 00:21:08,700

encourage Belfast to change and I hope

508

00:21:07,108 --> 00:21:11,638

that they change sooner rather than

509

00:21:08,700 --> 00:21:13,440

later well it's been certainly taken up

510

00:21:11,638 --> 00:21:16,048

a lot of your time over last yeah and

511

00:21:13,440 --> 00:21:17,190

just you know I said it the other night

512

00:21:16,048 --> 00:21:19,019

when i was here in sydney and it's

513

00:21:17,190 --> 00:21:21,960

absolutely true that the support we

514
00:21:19,019 --> 00:21:24,058
received in the UK from skeptics around

515
00:21:21,960 --> 00:21:26,220
the world and skeptics here in australia

516
00:21:24,058 --> 00:21:28,878
and cosmos magazine i remember ran a a

517
00:21:26,220 --> 00:21:31,589
great article supporting the campaign

518
00:21:28,878 --> 00:21:34,259
that was really much appreciated for a

519
00:21:31,589 --> 00:21:36,988
personal point of view when when my back

520
00:21:34,259 --> 00:21:39,298
was against the ropes and it looked like

521
00:21:36,989 --> 00:21:40,379
i was going to lose my case knowing that

522
00:21:39,298 --> 00:21:44,009
there were people around the world

523
00:21:40,378 --> 00:21:46,738
tweeting blogging podcast inka was a

524
00:21:44,009 --> 00:21:49,440
great morale booster for me i think i

525
00:21:46,739 --> 00:21:51,629
even gave you a quick call the day after

526
00:21:49,440 --> 00:21:52,799
the Queen announced in Parliament that

527
00:21:51,628 --> 00:21:55,529
these laws were on

528
00:21:52,799 --> 00:21:57,450
you remember that I look even they were

529
00:21:55,529 --> 00:21:58,440
not mean open Parliament yes yes yes

530
00:21:57,450 --> 00:22:00,360
you're absolutely right you're

531
00:21:58,440 --> 00:22:03,900
absolutely right there with the key

532
00:22:00,359 --> 00:22:05,609
moments in this in the case that yeah

533
00:22:03,900 --> 00:22:08,509
we'll stay in my mind and there was that

534
00:22:05,609 --> 00:22:11,549
occasion I remember when I got sooo

535
00:22:08,509 --> 00:22:13,140
James Randi and Phil Plait emailed me

536
00:22:11,549 --> 00:22:14,879
and said look no we've got your back and

537
00:22:13,140 --> 00:22:16,560
I chrome over it there's something that

538
00:22:14,880 --> 00:22:17,910
an email from the Norwegian skeptic so

539
00:22:16,559 --> 00:22:20,849
they let me know we're following you and

540
00:22:17,910 --> 00:22:22,140
we're behind you and and you know when I

541
00:22:20,849 --> 00:22:24,480
want my case I think the Toronto

542

00:22:22,140 --> 00:22:26,490
skeptics had a big party big cake I

543
00:22:24,480 --> 00:22:28,950
really means a lot that you're part of

544
00:22:26,490 --> 00:22:30,809
this community of people and okay we

545
00:22:28,950 --> 00:22:32,180
disagree amongst ourselves sometimes but

546
00:22:30,809 --> 00:22:34,980
we all care about the fact that

547
00:22:32,180 --> 00:22:37,380
rationality is important and there is a

548
00:22:34,980 --> 00:22:39,450
skeptical method and it's standing up

549
00:22:37,380 --> 00:22:42,120
for skepticism and free speech is

550
00:22:39,450 --> 00:22:43,350
important it is and just just it's just

551
00:22:42,119 --> 00:22:45,929
reminded me there's a copy of the

552
00:22:43,349 --> 00:22:47,219
skeptic magazine of giving you which is

553
00:22:45,930 --> 00:22:49,320
covered with ants at the moment that's

554
00:22:47,220 --> 00:22:51,990
fair because we're out here on the

555
00:22:49,319 --> 00:22:54,119
street and you probably being the sort

556
00:22:51,990 --> 00:22:59,549

of chavier you probably know this but

557

00:22:54,119 --> 00:23:01,859

the the Australian skeptics at our

558

00:22:59,549 --> 00:23:03,869

convention last year awarded our annual

559

00:23:01,859 --> 00:23:07,079

bent spoon prize to the chiropractors

560

00:23:03,869 --> 00:23:09,119

and there's probably there's someone you

561

00:23:07,079 --> 00:23:11,460

might not yeah I'm just looking for the

562

00:23:09,119 --> 00:23:13,409

magazine that moment oh wait it may be

563

00:23:11,460 --> 00:23:16,009

may well be in there but yeah we awarded

564

00:23:13,410 --> 00:23:18,630

the chiropractor's of Australia for not

565

00:23:16,009 --> 00:23:20,970

enforcing their own regulations and all

566

00:23:18,630 --> 00:23:22,530

this other stuff yeah the chiropractic

567

00:23:20,970 --> 00:23:24,240

community around the world seems to be

568

00:23:22,529 --> 00:23:26,279

in a spin because there are some

569

00:23:24,240 --> 00:23:28,200

chiropractors who know their limits in

570

00:23:26,279 --> 00:23:30,059

fact chiropractors would come to me and

571
00:23:28,200 --> 00:23:31,850
say look we support you you know we

572
00:23:30,059 --> 00:23:34,440
might disagree with what you have to say

573
00:23:31,849 --> 00:23:36,509
and actually some extent we agree with

574
00:23:34,440 --> 00:23:37,890
what you say in some cases and we can

575
00:23:36,509 --> 00:23:42,240
see that there's something rotten within

576
00:23:37,890 --> 00:23:43,680
our community but but but there some of

577
00:23:42,240 --> 00:23:46,650
them are scared to stand up and speak

578
00:23:43,680 --> 00:23:48,120
out and these regulatory bodies are in a

579
00:23:46,650 --> 00:23:50,160
bind because they know what they should

580
00:23:48,119 --> 00:23:51,269
do yeah but they know that a lot of

581
00:23:50,160 --> 00:23:53,100
their members aren't going to listen to

582
00:23:51,269 --> 00:23:56,129
a lot of their members are true

583
00:23:53,099 --> 00:23:57,869
believers yeah absolutely and I think in

584
00:23:56,130 --> 00:24:00,120
many cases is it is about it and

585
00:23:57,869 --> 00:24:02,399
honestly held belief yes now these

586
00:24:00,119 --> 00:24:04,049
people have studied chiropractic they

587
00:24:02,400 --> 00:24:04,860
devoted themselves to carp rages the

588
00:24:04,049 --> 00:24:06,599
feedback

589
00:24:04,859 --> 00:24:10,259
their patients which convinces there I

590
00:24:06,599 --> 00:24:12,149
am you may have caught my talk somewhere

591
00:24:10,259 --> 00:24:14,609
on the walk I talked about this feedback

592
00:24:12,150 --> 00:24:16,259
effect yeah where specifically of

593
00:24:14,609 --> 00:24:20,029
psychics but also with alternative

594
00:24:16,259 --> 00:24:22,558
medicine healers where their clients

595
00:24:20,029 --> 00:24:24,210
believe they have benefit the clients

596
00:24:22,558 --> 00:24:25,649
give this feedback back to the

597
00:24:24,210 --> 00:24:27,569
practitioner the practitioner is getting

598
00:24:25,650 --> 00:24:30,179
this consonant good feedback of course

599

00:24:27,569 --> 00:24:33,509
they believe it yeah the classic example

600
00:24:30,179 --> 00:24:35,009
opposes taluk that their parents at

601
00:24:33,509 --> 00:24:37,919
their wit's end with babies that are

602
00:24:35,009 --> 00:24:39,450
just crying relentlessly they put up

603
00:24:37,919 --> 00:24:41,130
with it for a few weeks have gone to

604
00:24:39,450 --> 00:24:42,750
their GP they put up with it a few more

605
00:24:41,130 --> 00:24:45,900
weeks they eventually going to see a

606
00:24:42,750 --> 00:24:47,519
chiropractor and within a few weeks it's

607
00:24:45,900 --> 00:24:48,630
come to an end because eventually call

608
00:24:47,519 --> 00:24:50,759
it does come to that but the

609
00:24:48,630 --> 00:24:52,710
chiropractor gets the credit the

610
00:24:50,759 --> 00:24:55,109
chiropractor rightly feel doesn't

611
00:24:52,710 --> 00:24:56,340
rightly feel but they understandably

612
00:24:55,109 --> 00:24:59,159
feel that they've done something good

613
00:24:56,339 --> 00:25:01,769

the parents become a walking advert but

614

00:24:59,160 --> 00:25:03,179

when you do the clinical trial you know

615

00:25:01,769 --> 00:25:04,859

you take 100 babies you get into a

616

00:25:03,179 --> 00:25:06,900

chiropractor taking another hundred

617

00:25:04,859 --> 00:25:09,479

babies just give them to a nurse and the

618

00:25:06,900 --> 00:25:10,950

nurse just holds the baby return the

619

00:25:09,480 --> 00:25:12,509

babies to their parents the parents have

620

00:25:10,950 --> 00:25:15,419

no idea whether their child is seeing a

621

00:25:12,509 --> 00:25:17,879

chiropractor or a nurse the results are

622

00:25:15,419 --> 00:25:19,230

exactly the same babies eventually get

623

00:25:17,880 --> 00:25:21,299

better from colleagues what he learned

624

00:25:19,230 --> 00:25:23,849

from that that's right well Simon it

625

00:25:21,298 --> 00:25:25,109

thank you so much for giving me some of

626

00:25:23,849 --> 00:25:27,209

your time I know you're sore still

627

00:25:25,109 --> 00:25:29,009

getting over the trip and jet lag and

628
00:25:27,210 --> 00:25:30,690
all the fun of being in Sydney and

629
00:25:29,009 --> 00:25:32,669
there's a fire truck just up the street

630
00:25:30,690 --> 00:25:35,308
I don't know what it's doing luckily the

631
00:25:32,669 --> 00:25:37,290
sirens aren't on it's a nice day I think

632
00:25:35,308 --> 00:25:39,240
I hope you enjoy the rest of your daddy

633
00:25:37,289 --> 00:25:41,609
Ric always love coming to Australia and

634
00:25:39,240 --> 00:25:43,109
so so really looking forward to having a

635
00:25:41,609 --> 00:25:44,159
bit of a holiday in a bit of work and

636
00:25:43,109 --> 00:25:46,199
bit of family it's gonna be a really

637
00:25:44,160 --> 00:25:49,548
lovely tripping but reporter Simon Singh

638
00:25:46,200 --> 00:25:49,548
thank you very much my pleasure Cheers

639
00:26:02,660 --> 00:26:07,980
now on Belfast FM we turn to the person

640
00:26:05,279 --> 00:26:10,079
lads easygoing and confident skeptic

641
00:26:07,980 --> 00:26:12,539
seeks other critical thinkers for fun

642
00:26:10,079 --> 00:26:14,519
laughter and good times must be willing

643
00:26:12,539 --> 00:26:16,409
to apply logic liberally and a good

644
00:26:14,519 --> 00:26:18,480
listener expect something new and

645
00:26:16,410 --> 00:26:20,490
interesting every month come and meet me

646
00:26:18,480 --> 00:26:22,349
in Belfast in Northern Ireland if this

647
00:26:20,490 --> 00:26:25,920
sounds like you check out my profile on

648
00:26:22,349 --> 00:26:34,379
bail for skeptics calm music by Kevin

649
00:26:25,920 --> 00:26:36,690
MacLeod welcome to a week in science

650
00:26:34,380 --> 00:26:39,390
from RI oz bringing you the science news

651
00:26:36,690 --> 00:26:42,420
you need to know this week we're looking

652
00:26:39,390 --> 00:26:44,310
forward to 2014 and making our

653
00:26:42,420 --> 00:26:46,320
predictions that what will be big in

654
00:26:44,309 --> 00:26:50,019
science

655
00:26:46,319 --> 00:26:53,019
we're expecting that 2014 will be a big

656

00:26:50,019 --> 00:26:55,298
year in space exploration last year

657
00:26:53,019 --> 00:26:57,579
china and india launch probes to the

658
00:26:55,298 --> 00:26:59,288
moon and mars while NASA Rovers

659
00:26:57,579 --> 00:27:01,928
continued their work on the red planet

660
00:26:59,288 --> 00:27:05,470
with these programs generating results

661
00:27:01,929 --> 00:27:07,720
in 2014 and a new wave of private

662
00:27:05,470 --> 00:27:09,640
enterprise we may soon have a very

663
00:27:07,720 --> 00:27:15,400
different view of our place in the

664
00:27:09,640 --> 00:27:18,340
universe 2013 saw several steps towards

665
00:27:15,400 --> 00:27:21,159
the creation of a universal flu vaccine

666
00:27:18,339 --> 00:27:22,928
with research continuing into influenza

667
00:27:21,159 --> 00:27:24,789
don't be surprised to see some big

668
00:27:22,929 --> 00:27:27,159
announcements regarding our battle

669
00:27:24,788 --> 00:27:29,408
against this virus this could include

670
00:27:27,159 --> 00:27:31,778

the creation of a universal vaccine a

671

00:27:29,409 --> 00:27:37,750

single shock which protects against all

672

00:27:31,778 --> 00:27:40,000

types of flu in april 2013 barack obama

673

00:27:37,750 --> 00:27:42,490

announced the launch of a project to map

674

00:27:40,000 --> 00:27:44,470

the human brain while it may be too

675

00:27:42,490 --> 00:27:47,620

early to see any results of this project

676

00:27:44,470 --> 00:27:50,019

in 2014 keep an eye out for this in the

677

00:27:47,619 --> 00:27:52,629

future as scientists investigate how the

678

00:27:50,019 --> 00:27:54,700

billions of brain cells interact this

679

00:27:52,630 --> 00:27:58,870

project may one day shed light into

680

00:27:54,700 --> 00:28:01,509

Alzheimer's and epilepsy we also

681

00:27:58,869 --> 00:28:03,879

predicted in 2014 there will be a

682

00:28:01,509 --> 00:28:06,069

breakthrough in quantum computing the

683

00:28:03,880 --> 00:28:10,659

problem is we probably won't be able to

684

00:28:06,069 --> 00:28:13,269

explain it and finally you've heard of

685
00:28:10,659 --> 00:28:16,720
3d printing well get ready for the next

686
00:28:13,269 --> 00:28:18,908
big thing 4d printing 4d printing

687
00:28:16,720 --> 00:28:21,130
involves printing shapes or structures

688
00:28:18,909 --> 00:28:23,049
like 3d printing however these

689
00:28:21,130 --> 00:28:26,260
structures can then be activated to

690
00:28:23,048 --> 00:28:29,319
self-assemble into other shapes this

691
00:28:26,259 --> 00:28:32,440
really is super cool that's our

692
00:28:29,319 --> 00:28:34,000
predictions for 2014 so keep watching a

693
00:28:32,440 --> 00:28:36,370
week in science through the year to find

694
00:28:34,000 --> 00:28:37,929
out which ones we got right you can also

695
00:28:36,369 --> 00:28:41,109
follow us on Twitter using the hashtag

696
00:28:37,929 --> 00:28:43,090
week in sy and like us on Facebook I'm

697
00:28:41,109 --> 00:28:45,509
poor Willis and I'll see you back here

698
00:28:43,089 --> 00:28:45,509
next week

699
00:29:05,220 --> 00:29:10,390
hi I'm audit oh yeah crystal or evil

700
00:29:08,769 --> 00:29:12,069
tips advice on logic lifted off the

701
00:29:10,390 --> 00:29:14,080
skeptics ohm ohm skipped a comedian or

702
00:29:12,069 --> 00:29:15,549
again if it's not a blog get upper bleph

703
00:29:14,079 --> 00:29:16,899
or podcast often and against capsis

704
00:29:15,549 --> 00:29:19,509
driven me like if I'm a flock to this

705
00:29:16,900 --> 00:29:21,670
match centre of escape system and low or

706
00:29:19,509 --> 00:29:23,500
high / versus the deep plane or jected

707
00:29:21,670 --> 00:29:25,180
and calendar / escape disc after death

708
00:29:23,500 --> 00:29:27,039
online cuted on will escape this killer

709
00:29:25,180 --> 00:29:28,840
sausage escapes his blog in okla 30

710
00:29:27,039 --> 00:29:31,450
Emily Oh discrete areas hefty passes for

711
00:29:28,839 --> 00:29:34,959
domestic inna de estado yourself skips a

712
00:29:31,450 --> 00:29:36,789
stop mo hello I'm moderate and I'm

713

00:29:34,960 --> 00:29:38,710
Kristin and we want to let you know that

714
00:29:36,789 --> 00:29:40,659
there are lots of Norwegian skeptics for

715
00:29:38,710 --> 00:29:42,069
you to get to know there are blogs and

716
00:29:40,660 --> 00:29:43,750
pub meets and a podcast and the

717
00:29:42,069 --> 00:29:45,879
Norwegian skeptics also do paranormal

718
00:29:43,750 --> 00:29:48,220
tests and consumer activism to find out

719
00:29:45,880 --> 00:29:51,600
more Google Norwegian skeptics or visit

720
00:29:48,220 --> 00:29:51,600
skepta stock n 0

721
00:29:57,318 --> 00:30:04,548
here's my not spooky action at a

722
00:30:01,919 --> 00:30:04,549
distance

723
00:30:05,319 --> 00:30:10,220
well welcome to Maynard spooky action at

724
00:30:08,359 --> 00:30:11,629
a distance and we haven't gone with

725
00:30:10,220 --> 00:30:13,610
elegant as far as the crown hotel

726
00:30:11,630 --> 00:30:16,040
tonight where the first meeting of

727
00:30:13,609 --> 00:30:17,959

skeptics in the pub for 2014 is roaring

728

00:30:16,039 --> 00:30:20,450

away we have Jessica hi Jessica how are

729

00:30:17,960 --> 00:30:22,759

you hey I'm very well how are you I'm

730

00:30:20,450 --> 00:30:24,410

just fine and fit and fantastic because

731

00:30:22,759 --> 00:30:26,059

I haven't been back to work yet me

732

00:30:24,410 --> 00:30:28,910

neither I know it's a wonderful feeling

733

00:30:26,059 --> 00:30:30,529

isn't it is a great feeling and because

734

00:30:28,910 --> 00:30:33,230

we're offering so good with feeling in

735

00:30:30,529 --> 00:30:35,720

connection with the psychic ed that

736

00:30:33,230 --> 00:30:38,029

we're all a part of we can just dip into

737

00:30:35,720 --> 00:30:39,289

and have a prediction for 2014 now

738

00:30:38,029 --> 00:30:41,660

remember these will be played back like

739

00:30:39,289 --> 00:30:43,279

last year you predicted larva lot of

740

00:30:41,660 --> 00:30:44,540

lava now I'm sure there was lava around

741

00:30:43,279 --> 00:30:45,829

the world but I don't know what you were

742
00:30:44,539 --> 00:30:50,269
thinking of what were you thinking of

743
00:30:45,829 --> 00:30:52,309
last year ah good question i'm tuning in

744
00:30:50,269 --> 00:30:54,109
now tuning into the vibe churning

745
00:30:52,309 --> 00:30:57,230
churning Jenny yeah I can't remember

746
00:30:54,109 --> 00:30:59,389
it's too long ago and do it too much

747
00:30:57,230 --> 00:31:00,829
alcohol let's wipe that one let's go

748
00:30:59,390 --> 00:31:05,480
with 2014 what are your predictions

749
00:31:00,829 --> 00:31:08,750
Jessica 14 2014 okay the alcohol will

750
00:31:05,480 --> 00:31:10,610
flow skeptics in the pub a good time

751
00:31:08,750 --> 00:31:13,160
will be had by all there will be lots

752
00:31:10,609 --> 00:31:16,009
and lots of interesting speakers and fun

753
00:31:13,160 --> 00:31:19,790
and good discussions and excellent talks

754
00:31:16,009 --> 00:31:21,140
and generally good times had by all did

755
00:31:19,789 --> 00:31:23,659
you feel that any one of the ABC is

756
00:31:21,140 --> 00:31:26,150
getting sacked to this year oh that's

757
00:31:23,660 --> 00:31:29,630
what you asked me last year I will I

758
00:31:26,150 --> 00:31:32,450
will say no okay no no one no one at the

759
00:31:29,630 --> 00:31:37,130
ABC will be sacked but they will have a

760
00:31:32,450 --> 00:31:40,610
good time dragging they're dragging

761
00:31:37,130 --> 00:31:43,070
their employer through the mud by their

762
00:31:40,609 --> 00:31:44,389
heels backwards Wow goodness me like

763
00:31:43,069 --> 00:31:46,789
that could be there come on be the head

764
00:31:44,390 --> 00:31:49,310
of the 730 report that does that it

765
00:31:46,789 --> 00:31:51,200
could be anybody in the ABC well I love

766
00:31:49,309 --> 00:31:53,240
how you specific to such a large amount

767
00:31:51,200 --> 00:31:55,910
of people it's a male yeah it's it's a

768
00:31:53,240 --> 00:31:58,370
neck isn't it psychic predictions and

769
00:31:55,910 --> 00:32:00,170
and that's the secret just keep it

770

00:31:58,369 --> 00:32:02,359
general now what starsign you reckons

771
00:32:00,170 --> 00:32:05,630
gonna have a big year this year ah look

772
00:32:02,359 --> 00:32:07,609
me Scorpio has to be a Scorpio year

773
00:32:05,630 --> 00:32:09,500
definitely known as wild roses to

774
00:32:07,609 --> 00:32:12,889
Scorpio they're also the most murdered

775
00:32:09,500 --> 00:32:15,079
star sign oh well i will learn

776
00:32:12,890 --> 00:32:18,620
I won't say anything on the grounds that

777
00:32:15,079 --> 00:32:20,509
I mayen criminate myself ok now we'll

778
00:32:18,619 --> 00:32:22,369
look at what are you looking into your

779
00:32:20,509 --> 00:32:25,640
crystal ball of blast there and what do

780
00:32:22,369 --> 00:32:28,039
you say well I'm absolutely positive

781
00:32:25,640 --> 00:32:31,180
that there'll be a very big natural

782
00:32:28,039 --> 00:32:35,180
disaster in an underdeveloped country

783
00:32:31,180 --> 00:32:36,740
during 2014 I'm positive I can see it I

784
00:32:35,180 --> 00:32:38,060

can feel it it's definitely going to

785

00:32:36,740 --> 00:32:39,589

happen you're going to be a bit more

786

00:32:38,059 --> 00:32:41,149

specific I want to go with the Pacific

787

00:32:39,589 --> 00:32:42,649

Ring of Fire just to make it a bit more

788

00:32:41,150 --> 00:32:44,600

interesting well you know the Ring of

789

00:32:42,650 --> 00:32:46,190

Fire is always good candidate because

790

00:32:44,599 --> 00:32:48,199

then you've got your earthquakes you've

791

00:32:46,190 --> 00:32:50,000

got your tsunamis coming from that and

792

00:32:48,200 --> 00:32:53,330

it's also very volatile in terms of

793

00:32:50,000 --> 00:32:55,490

cyclones and typhoons and those kinds of

794

00:32:53,329 --> 00:32:58,129

things so definitely something that will

795

00:32:55,490 --> 00:33:00,500

be exacerbated by climate change you

796

00:32:58,130 --> 00:33:03,860

want to call a scientific prediction at

797

00:33:00,500 --> 00:33:06,589

all for 2014 in to in 2014 we're on the

798

00:33:03,859 --> 00:33:08,359

crux of some very significant scientific

799
00:33:06,589 --> 00:33:10,189
breakthroughs I don't want to give it

800
00:33:08,359 --> 00:33:11,839
away I want everyone to be surprised but

801
00:33:10,190 --> 00:33:15,920
something big is going to be happening

802
00:33:11,839 --> 00:33:17,769
life-changing life-saving in 2014 do you

803
00:33:15,920 --> 00:33:21,440
think they'll finally cure embarrassment

804
00:33:17,769 --> 00:33:23,420
definitely not and here we are we're at

805
00:33:21,440 --> 00:33:26,120
the end of a very busy talking table

806
00:33:23,420 --> 00:33:27,920
here what's your name sir chris ok Chris

807
00:33:26,119 --> 00:33:31,449
what do you got for predictions of 2014

808
00:33:27,920 --> 00:33:34,340
for us man well my main prediction is

809
00:33:31,450 --> 00:33:40,240
halfway through the year Alan Jones will

810
00:33:34,339 --> 00:33:44,119
announce I'm 2gb that he's now a climate

811
00:33:40,240 --> 00:33:45,259
change believer no why would you predict

812
00:33:44,119 --> 00:33:47,179
that you just got a feeling in your

813
00:33:45,259 --> 00:33:48,769
bones is there something about illogical

814
00:33:47,180 --> 00:33:51,470
probability well I didn't have why this

815
00:33:48,769 --> 00:33:53,710
one cognitive dissonance because I think

816
00:33:51,470 --> 00:33:57,200
the government

817
00:33:53,710 --> 00:34:00,220
moving ahead with global warming carbon

818
00:33:57,200 --> 00:34:05,180
tax and laws and so on to restrict

819
00:34:00,220 --> 00:34:07,339
carbon mr. Jones can't stay at climate

820
00:34:05,180 --> 00:34:09,168
denier so what do you think would be the

821
00:34:07,339 --> 00:34:10,789
tipping point what do you do the point

822
00:34:09,168 --> 00:34:12,168
we'd have to go I've got to go with it

823
00:34:10,789 --> 00:34:14,898
now what I think the thing will happen

824
00:34:12,168 --> 00:34:18,138
that will have to be that thing oh he'll

825
00:34:14,898 --> 00:34:22,759
he'll read up on on some science and

826
00:34:18,139 --> 00:34:24,440
look at the facts and accept that okay

827

00:34:22,760 --> 00:34:27,020
well we'll have we'll see if that

828
00:34:24,440 --> 00:34:30,079
happens in 2014 a bold decision that

829
00:34:27,019 --> 00:34:31,878
bowl thank you i'll come down the arm

830
00:34:30,079 --> 00:34:34,699
down at the disreputable end of the

831
00:34:31,878 --> 00:34:38,089
meeting now and we're going now you've

832
00:34:34,699 --> 00:34:40,579
got some half important predictions for

833
00:34:38,090 --> 00:34:44,149
us here the worst one of all sydney

834
00:34:40,579 --> 00:34:46,039
property prices crash I think the bubble

835
00:34:44,148 --> 00:34:47,509
will finally burst and the my rent in

836
00:34:46,039 --> 00:34:49,309
glebe will be a bit reasonable for a

837
00:34:47,510 --> 00:34:52,220
change I read also kick off our bucket

838
00:34:49,309 --> 00:34:53,719
out no no I know a bit you can walk into

839
00:34:52,219 --> 00:34:55,730
a place for about half of what it would

840
00:34:53,719 --> 00:34:57,679
be now do you think that'll be across

841
00:34:55,730 --> 00:34:59,269

the whole area or will still get the

842

00:34:57,679 --> 00:35:01,519

areas like you're not sure and that

843

00:34:59,269 --> 00:35:04,280

they'll still maintain a bubble stuff on

844

00:35:01,519 --> 00:35:05,480

stuff up yeah he cares about them so you

845

00:35:04,280 --> 00:35:07,700

want to pick a month the bubble will

846

00:35:05,480 --> 00:35:11,059

burst on Sydney property that's a bold

847

00:35:07,699 --> 00:35:12,559

one year come on up look to America when

848

00:35:11,059 --> 00:35:15,739

that crash is when they can't print any

849

00:35:12,559 --> 00:35:17,690

more money okay well okay well that's

850

00:35:15,739 --> 00:35:20,089

that's bold anyone else want a good

851

00:35:17,690 --> 00:35:21,619

prediction here at all I don't know I'm

852

00:35:20,090 --> 00:35:24,050

not so certain that there would be a

853

00:35:21,619 --> 00:35:25,299

crash i mean i think that there's a lot

854

00:35:24,050 --> 00:35:29,650

of

855

00:35:25,300 --> 00:35:32,980

buyers maybe maybe eastern suburbs issue

856
00:35:29,650 --> 00:35:35,019
and say some of the new Asian areas

857
00:35:32,980 --> 00:35:37,329
they're not but they're not people it's

858
00:35:35,019 --> 00:35:38,829
not a bubble because they're not buying

859
00:35:37,329 --> 00:35:41,440
them in the hopes of selling them off

860
00:35:38,829 --> 00:35:42,489
later so if you're buying the house not

861
00:35:41,440 --> 00:35:44,320
something off you're going to raise a

862
00:35:42,489 --> 00:35:46,269
family there that's not a bubble because

863
00:35:44,320 --> 00:35:47,650
you're not planning to sell it and then

864
00:35:46,269 --> 00:35:49,809
finding out that you can't get as much

865
00:35:47,650 --> 00:35:53,619
as what you bought for a true although

866
00:35:49,809 --> 00:35:56,279
you are paying too much yes yeah but

867
00:35:53,619 --> 00:35:59,409
that's not really what a bubbles about

868
00:35:56,280 --> 00:36:00,730
okay all right so you probably so the

869
00:35:59,409 --> 00:36:02,199
people will still be ripped off to the

870
00:36:00,730 --> 00:36:04,269
being ripped off now just the investors

871
00:36:02,199 --> 00:36:06,939
will leave and won't be able to sell

872
00:36:04,269 --> 00:36:08,230
again for a while pretty much yeah okay

873
00:36:06,940 --> 00:36:11,650
that's good why didn't you say something

874
00:36:08,230 --> 00:36:14,349
as eloquent as him 3 b's and more yeah

875
00:36:11,650 --> 00:36:15,579
fair enough that's okay I'm not look as

876
00:36:14,349 --> 00:36:17,289
I must dress it out there are fairly

877
00:36:15,579 --> 00:36:18,940
rough predictions here so you want to

878
00:36:17,289 --> 00:36:21,699
take a go at any predictions for 2014

879
00:36:18,940 --> 00:36:23,470
okay i think by the end of 2014

880
00:36:21,699 --> 00:36:28,599
everybody will have forgotten about

881
00:36:23,469 --> 00:36:30,699
Edward Snowden yes he's gonna drip feed

882
00:36:28,599 --> 00:36:32,349
the stuff out bit by bit army and of

883
00:36:30,699 --> 00:36:34,869
course will and he will have stuff going

884

00:36:32,349 --> 00:36:37,029
on by December still but people will

885
00:36:34,869 --> 00:36:39,039
have forgotten about him anyway and

886
00:36:37,030 --> 00:36:40,750
that's the way though shut up Snowden

887
00:36:39,039 --> 00:36:43,539
they'll ever press conference of people

888
00:36:40,750 --> 00:36:44,800
go shut up yes basically okay then do

889
00:36:43,539 --> 00:36:46,719
you what do you reckon he might be a

890
00:36:44,800 --> 00:36:48,580
plant by another security organization

891
00:36:46,719 --> 00:36:50,079
like he might be with like the CIA or

892
00:36:48,579 --> 00:36:51,460
something and he's there to discredit

893
00:36:50,079 --> 00:36:54,880
the NSA dude what do you think of that

894
00:36:51,460 --> 00:36:56,920
theory it's it's too complicated i think

895
00:36:54,880 --> 00:37:01,180
it's just what he appears on the surface

896
00:36:56,920 --> 00:37:02,950
you know Occam's razor I know okay now

897
00:37:01,179 --> 00:37:05,440
what's your predictions for 2014 serve

898
00:37:02,949 --> 00:37:07,569

24 going on om have to what's your name

899

00:37:05,440 --> 00:37:10,690

to so when we played back week we can we

900

00:37:07,570 --> 00:37:13,330

can still name & shamian Richard okay

901

00:37:10,690 --> 00:37:14,559

okay it's the it's the great Richard

902

00:37:13,329 --> 00:37:18,259

what do you got coming at us which it

903

00:37:14,559 --> 00:37:21,929

wouldn't be I don't think I'm so great

904

00:37:18,260 --> 00:37:25,890

I predict the media is going to mistake

905

00:37:21,929 --> 00:37:28,049

the Navy's new new arm lhd for an

906

00:37:25,889 --> 00:37:29,699

aircraft carrier are they going to call

907

00:37:28,050 --> 00:37:31,980

it that why because it's because it's

908

00:37:29,699 --> 00:37:35,099

closest thing we've got to it I believe

909

00:37:31,980 --> 00:37:37,619

so yes it looks like one but it's it's a

910

00:37:35,099 --> 00:37:39,690

little bit more about so they'll come up

911

00:37:37,619 --> 00:37:41,519

with some cute word like our mini

912

00:37:39,690 --> 00:37:46,920

aircraft carrier or else I don't know

913
00:37:41,519 --> 00:37:48,599
that probably probably okay media get

914
00:37:46,920 --> 00:37:50,099
something wrong with the Navy yet again

915
00:37:48,599 --> 00:37:52,139
that's a good prediction what's your

916
00:37:50,099 --> 00:37:55,920
name so much your prediction welcome no

917
00:37:52,139 --> 00:37:57,539
hello Malcolm that's not like a deal the

918
00:37:55,920 --> 00:37:59,909
amazing Malcolm be looked into crystal

919
00:37:57,539 --> 00:38:02,570
ball what do you see you might find the

920
00:37:59,909 --> 00:38:05,399
climate changes of a fallacy improved

921
00:38:02,570 --> 00:38:07,820
role and that's not teaching it in

922
00:38:05,400 --> 00:38:10,980
schools and give them other options of

923
00:38:07,820 --> 00:38:13,370
considerations and how men kind

924
00:38:10,980 --> 00:38:16,320
affecting the earth and so forth that

925
00:38:13,369 --> 00:38:18,839
next add laterally prediction not too

926
00:38:16,320 --> 00:38:20,789
sure okay but the world should she'll be

927
00:38:18,840 --> 00:38:23,880
here by the end of next year anyhow I

928
00:38:20,789 --> 00:38:25,110
like that one that's a good one I'm

929
00:38:23,880 --> 00:38:26,730
gonna step in boldly I'm going to

930
00:38:25,110 --> 00:38:28,800
predict the return and polo neck

931
00:38:26,730 --> 00:38:30,869
skivvies in black the Steve Jobs look is

932
00:38:28,800 --> 00:38:32,670
going to be big this year and I think

933
00:38:30,869 --> 00:38:35,009
girls will start wearing Hawaiian shirts

934
00:38:32,670 --> 00:38:36,450
more that's my prediction and what is

935
00:38:35,010 --> 00:38:37,800
your name so we can name in shame you

936
00:38:36,449 --> 00:38:40,469
when we play this back okay it's

937
00:38:37,800 --> 00:38:43,470
Margaret and Tate and I predict gay

938
00:38:40,469 --> 00:38:45,869
marriage legalized and you want but a

939
00:38:43,469 --> 00:38:47,699
state or a month or what do I put it'll

940
00:38:45,869 --> 00:38:49,349
work but put a qualifier I come on make

941

00:38:47,699 --> 00:38:51,689
it fun for us no don't get the whole

942
00:38:49,349 --> 00:38:55,339
year that's no no no no you sometime

943
00:38:51,690 --> 00:38:59,490
this year but you know oh ok let's say

944
00:38:55,340 --> 00:39:01,539
November yeah okay why not okay that's

945
00:38:59,489 --> 00:39:06,639
not bad anything else

946
00:39:01,539 --> 00:39:08,650
a hot decriminalized oh that's a big

947
00:39:06,639 --> 00:39:11,109
cool well for one you know be good and

948
00:39:08,650 --> 00:39:15,760
wicked you're going you're going

949
00:39:11,110 --> 00:39:18,039
federally here or as stating oh well

950
00:39:15,760 --> 00:39:21,790
it'll have to be a state thing I think

951
00:39:18,039 --> 00:39:23,500
yeah yep and what you're gonna call

952
00:39:21,789 --> 00:39:26,650
Tasmania gym I think it's terrace Manny

953
00:39:23,500 --> 00:39:28,719
because they need the business ok can I

954
00:39:26,650 --> 00:39:30,099
think is there a sense if this year's

955
00:39:28,719 --> 00:39:32,019

it's not is it there's not another

956

00:39:30,099 --> 00:39:35,309

census for sure we're not gonna find out

957

00:39:32,019 --> 00:39:38,650

but I would say like atheism will

958

00:39:35,309 --> 00:39:42,279

increase from the twenty percent it is

959

00:39:38,650 --> 00:39:44,410

now to thirty percent 80 that'd be great

960

00:39:42,280 --> 00:39:46,480

like Sweden I'd love that that's a bulb

961

00:39:44,409 --> 00:39:47,920

on Tim ok Tim now you pulled a few fast

962

00:39:46,480 --> 00:39:50,920

ones with your predictions last year

963

00:39:47,920 --> 00:39:52,539

when usual via pallava you gonna see the

964

00:39:50,920 --> 00:39:54,430

amazing team is written on the side of

965

00:39:52,539 --> 00:39:55,599

your tent at the new town festival in

966

00:39:54,429 --> 00:39:58,569

India there what are you going to

967

00:39:55,599 --> 00:40:00,639

predict for 2014 well I mean I'd like to

968

00:39:58,570 --> 00:40:02,860

keep him general okay not too specific

969

00:40:00,639 --> 00:40:04,329

right because they always come true but

970
00:40:02,860 --> 00:40:05,829
I will predict that someone will make a

971
00:40:04,329 --> 00:40:07,690
prediction this year about the end of

972
00:40:05,829 --> 00:40:10,389
the world that's my prediction that

973
00:40:07,690 --> 00:40:11,740
there will be a prediction right I have

974
00:40:10,389 --> 00:40:13,989
to say I stole that one but I have to be

975
00:40:11,739 --> 00:40:15,879
honest right but I like it anyway right

976
00:40:13,989 --> 00:40:18,489
I will predict that someone will predict

977
00:40:15,880 --> 00:40:20,530
that marijuana will be legalized and

978
00:40:18,489 --> 00:40:21,639
that some poor sod is going to believe

979
00:40:20,530 --> 00:40:24,340
that gay marriage is going to be

980
00:40:21,639 --> 00:40:26,769
legalized to deliver live we can all

981
00:40:24,340 --> 00:40:29,320
hope in vain car we all hope of that my

982
00:40:26,769 --> 00:40:33,369
prediction that that really will happen

983
00:40:29,320 --> 00:40:36,150
is that you're going to grab the limb

984

00:40:33,369 --> 00:40:38,380
that the avian under whatever the

985

00:40:36,150 --> 00:40:41,950
anti-vaccination network under whatever

986

00:40:38,380 --> 00:40:44,260
name it becomes will be defunct by the

987

00:40:41,949 --> 00:40:45,939
end of the year and when you define the

988

00:40:44,260 --> 00:40:47,470
funk like they'll be disbanded or the

989

00:40:45,940 --> 00:40:51,159
membership will get their money back or

990

00:40:47,469 --> 00:40:52,449
how does that work was defunct does that

991

00:40:51,159 --> 00:40:53,679
mean they're going to go into musicals

992

00:40:52,449 --> 00:40:54,759
okay now I'm gonna be cynical the

993

00:40:53,679 --> 00:40:57,879
membership will not get their money back

994

00:40:54,760 --> 00:40:59,890
but i think the organization will will

995

00:40:57,880 --> 00:41:01,840
dissolve it might become something else

996

00:40:59,889 --> 00:41:05,319
right i mean they have a tendency to

997

00:41:01,840 --> 00:41:08,260
resurface but i think that that

998

00:41:05,320 --> 00:41:10,870
organization will suddenly find there's

999
00:41:08,260 --> 00:41:13,410
lack of carpet under its feet okay now

1000
00:41:10,869 --> 00:41:17,039
what now what starsign will have a big

1001
00:41:13,409 --> 00:41:19,559
you this year Ophiuchus that that 14th

1002
00:41:17,039 --> 00:41:20,759
one is that's a 1320 their 40th well I

1003
00:41:19,559 --> 00:41:22,559
don't know another way London I mean

1004
00:41:20,760 --> 00:41:24,660
there are any way ya know whether

1005
00:41:22,559 --> 00:41:26,849
there's one of them there I would say my

1006
00:41:24,659 --> 00:41:28,710
prediction is that every star sign the

1007
00:41:26,849 --> 00:41:31,860
characteristic of the believer is that

1008
00:41:28,710 --> 00:41:34,579
you are gullible except for Aquarius in

1009
00:41:31,860 --> 00:41:37,590
which you are gorgeous and gullible fair

1010
00:41:34,579 --> 00:41:40,110
and look I can't figure out what your

1011
00:41:37,590 --> 00:41:42,030
star sign is in and i know i'm not going

1012
00:41:40,110 --> 00:41:43,590

to say actually with us deeper all right

1013

00:41:42,030 --> 00:41:45,660

now we've had a guy he's been over in

1014

00:41:43,590 --> 00:41:46,800

the corner working away on his ipad he

1015

00:41:45,659 --> 00:41:48,119

had a bit of a look at what might

1016

00:41:46,800 --> 00:41:50,970

actually happen this year what is your

1017

00:41:48,119 --> 00:41:54,269

name sir what do you predict my name is

1018

00:41:50,969 --> 00:41:56,730

Joshua God me and I have three stellar

1019

00:41:54,269 --> 00:41:58,800

predictions for the next 12 months so

1020

00:41:56,730 --> 00:42:00,809

following I storm hercules which is

1021

00:41:58,800 --> 00:42:03,930

currently hitting north more than a

1022

00:42:00,809 --> 00:42:06,179

America at the moment I predict the DC

1023

00:42:03,929 --> 00:42:08,429

summer in North America will be one of

1024

00:42:06,179 --> 00:42:10,829

the hottest on record and the entire

1025

00:42:08,429 --> 00:42:12,509

place will go up in flames oh and that

1026

00:42:10,829 --> 00:42:15,929

is it what so the atmosphere will

1027
00:42:12,510 --> 00:42:18,030
actually combust that's at all or it

1028
00:42:15,929 --> 00:42:20,759
will reach critical mass in all of

1029
00:42:18,030 --> 00:42:22,800
norman north america god well let's put

1030
00:42:20,760 --> 00:42:24,450
a number on it how many and let's go

1031
00:42:22,800 --> 00:42:25,650
degrees fahrenheit that's the way they

1032
00:42:24,449 --> 00:42:27,839
work over there how many degrees

1033
00:42:25,650 --> 00:42:32,000
fahrenheit higher than average will it

1034
00:42:27,840 --> 00:42:35,010
be across the US this year 2014 sir oh

1035
00:42:32,000 --> 00:42:36,420
that's a that's a tough one so you see

1036
00:42:35,010 --> 00:42:38,160
psychics don't normally get asked the

1037
00:42:36,420 --> 00:42:39,599
number like that do that that's right

1038
00:42:38,159 --> 00:42:41,099
because you know you're the other guy

1039
00:42:39,599 --> 00:42:43,889
with the ipad with the good photos on it

1040
00:42:41,099 --> 00:42:48,239
i thought i definitely i'd say 20

1041
00:42:43,889 --> 00:42:50,730
degrees above average 20 20 above that's

1042
00:42:48,239 --> 00:42:52,979
a that's a tall call but a bold one is

1043
00:42:50,730 --> 00:42:55,559
indeed a bold one okay well we'll get

1044
00:42:52,980 --> 00:42:57,300
back to you next year I've got this is

1045
00:42:55,559 --> 00:43:00,420
probably my best prediction for next

1046
00:42:57,300 --> 00:43:03,150
year so Kim jong-un of North Korea will

1047
00:43:00,420 --> 00:43:04,869
be assassinated by Dennis Rodman whoa

1048
00:43:03,150 --> 00:43:07,450
who will then do

1049
00:43:04,869 --> 00:43:11,200
then become the most popular leader in

1050
00:43:07,449 --> 00:43:13,748
North Korean history that's that's

1051
00:43:11,199 --> 00:43:16,149
that's my that's the concrete prediction

1052
00:43:13,748 --> 00:43:18,159
for the next 12 months what are the talk

1053
00:43:16,150 --> 00:43:20,048
or do you feel that anybody with the

1054
00:43:18,159 --> 00:43:23,108
name beginning with M will lose their

1055

00:43:20,048 --> 00:43:25,469
job at the ABC this year at all I'm not

1056
00:43:23,108 --> 00:43:28,239
sure I can comment on huh not should I

1057
00:43:25,469 --> 00:43:29,679
yeah it is a little bit of Justice there

1058
00:43:28,239 --> 00:43:32,348
that you can't factor it isn't there

1059
00:43:29,679 --> 00:43:34,629
there is indeed and anything else you

1060
00:43:32,349 --> 00:43:37,119
got there I do but this one's a bit of a

1061
00:43:34,630 --> 00:43:38,829
silly one I'll ask you visit what we

1062
00:43:37,119 --> 00:43:41,829
know what starsign will have a huge year

1063
00:43:38,829 --> 00:43:44,170
this year in 2014 well it's definitely

1064
00:43:41,829 --> 00:43:46,778
Taurus because i'm planning on rocking

1065
00:43:44,170 --> 00:43:48,369
at this year okay thank you okay now

1066
00:43:46,778 --> 00:43:50,289
what's your.what because that was the

1067
00:43:48,369 --> 00:43:51,579
completely reasonable prediction what's

1068
00:43:50,289 --> 00:43:53,950
the ridiculous one you've got written

1069
00:43:51,579 --> 00:43:56,200

down there the ridiculous prediction is

1070

00:43:53,949 --> 00:43:58,960

that scientists will discover a method

1071

00:43:56,199 --> 00:44:02,889

of developing gills in Homo sapiens and

1072

00:43:58,960 --> 00:44:06,579

water world will become a reality wow

1073

00:44:02,889 --> 00:44:07,868

that's amazing that's amazing well don't

1074

00:44:06,579 --> 00:44:10,140

even maybe breath breathing underwater

1075

00:44:07,869 --> 00:44:12,430

you don't need the breath anymore

1076

00:44:10,139 --> 00:44:14,650

hanging them it now look this discussion

1077

00:44:12,429 --> 00:44:16,088

has broken out here over what a lot of

1078

00:44:14,650 --> 00:44:17,798

people universally think is the most

1079

00:44:16,088 --> 00:44:20,259

crap superhero of all time and that is

1080

00:44:17,798 --> 00:44:22,358

the man from Atlantis played by Patrick

1081

00:44:20,259 --> 00:44:24,369

Duffy of course from Dallas and we're

1082

00:44:22,358 --> 00:44:26,558

trying to speculate we can't remember he

1083

00:44:24,369 --> 00:44:28,660

did swim in a very unusual way he had

1084
00:44:26,559 --> 00:44:30,130
the pair of speedos to wear around the

1085
00:44:28,659 --> 00:44:33,338
place but did he breathe through gills

1086
00:44:30,130 --> 00:44:38,950
or not I don't think so i reckon he just

1087
00:44:33,338 --> 00:44:42,489
had really big lungs definitely the

1088
00:44:38,949 --> 00:44:43,808
worst superhero in history hmm it has

1089
00:44:42,489 --> 00:44:45,099
been pointed out many times into it's

1090
00:44:43,809 --> 00:44:46,480
worth mentioning okay how would he

1091
00:44:45,099 --> 00:44:49,660
reckoned people the man from atlantis

1092
00:44:46,480 --> 00:44:52,329
the most crap superhero ever okay yeah

1093
00:44:49,659 --> 00:44:55,719
seeing everyone's it didn't even know he

1094
00:44:52,329 --> 00:44:57,278
was things the unknown superhero well

1095
00:44:55,719 --> 00:44:59,108
there you have it just a whole bunch of

1096
00:44:57,278 --> 00:45:00,730
white wine talking or some skeptics who

1097
00:44:59,108 --> 00:45:03,190
really have their finger up the future

1098
00:45:00,730 --> 00:45:06,179
only the future can tell it's spooky

1099
00:45:03,190 --> 00:45:06,179
manor and signing off

1100
00:45:21,369 --> 00:45:25,519
hey this is Jay novella from the

1101
00:45:23,869 --> 00:45:27,440
skeptics guide to the universe podcast

1102
00:45:25,518 --> 00:45:29,298
did you know that there are thousands of

1103
00:45:27,440 --> 00:45:31,010
skeptical reports interviews and

1104
00:45:29,298 --> 00:45:33,739
investigations going back to nineteen

1105
00:45:31,010 --> 00:45:37,609
eighty one free to download just visit w

1106
00:45:33,739 --> 00:45:39,288
WC epic coa you click the publications

1107
00:45:37,608 --> 00:45:41,028
link and enjoy almost every back issue

1108
00:45:39,289 --> 00:45:42,829
of the skeptic the journal from

1109
00:45:41,028 --> 00:45:44,358
australian skeptics you can also

1110
00:45:42,829 --> 00:45:46,670
subscribe online and get the latest

1111
00:45:44,358 --> 00:45:48,679
digital or hard copy of this the world's

1112

00:45:46,670 --> 00:45:52,338
second oldest skeptical magazine that's

1113
00:45:48,679 --> 00:45:55,629
ww skeptics com a you or just google

1114
00:45:52,338 --> 00:45:55,630
australian skeptics

1115
00:46:09,050 --> 00:46:15,120
thank you for listening to the skeptic

1116
00:46:11,670 --> 00:46:17,309
zone on this hot and steamy Sydney day

1117
00:46:15,119 --> 00:46:19,289
coming up in the next few weeks even

1118
00:46:17,309 --> 00:46:20,670
more from Mad Maynard and some great

1119
00:46:19,289 --> 00:46:22,949
interviews from the Australian skeptics

1120
00:46:20,670 --> 00:46:25,530
National Convention yes folks there

1121
00:46:22,949 --> 00:46:27,000
never ending which is a good thing also

1122
00:46:25,530 --> 00:46:29,370
I'm going to catch up to a dear friend

1123
00:46:27,000 --> 00:46:33,150
of mine susan go back from the guerrilla

1124
00:46:29,369 --> 00:46:35,250
skepticism program or outreach or

1125
00:46:33,150 --> 00:46:38,099
initiative that should be very

1126
00:46:35,250 --> 00:46:39,989

interesting but for this week this is

1127

00:46:38,099 --> 00:46:45,869

Richard Saunderson Fred the cat say

1128

00:46:39,989 --> 00:46:47,339

hello Fred mmm that's about as much as

1129

00:46:45,869 --> 00:46:54,059

we're going to get out of him signing

1130

00:46:47,340 --> 00:46:57,450

off from Sydney Australia you've been

1131

00:46:54,059 --> 00:47:01,860

listening to the skeptic zone visit her

1132

00:46:57,449 --> 00:47:04,349

website at www.skeptics.com on TV for

1133

00:47:01,860 --> 00:47:07,010

comments contacts and extra video

1134

00:47:04,349 --> 00:47:07,009

reports

1135

00:47:10,090 --> 00:47:12,120

Oh