



1
00:00:04,630 --> 00:00:02,470
station this is houston are you ready

2
00:00:09,750 --> 00:00:04,640
for the event

3
00:00:13,430 --> 00:00:11,669
smithson valley high school this is

4
00:00:15,589 --> 00:00:13,440
mission control houston please call

5
00:00:17,109 --> 00:00:15,599
station for a voice check

6
00:00:18,790 --> 00:00:17,119
thank you for being with us very very

7
00:00:21,349 --> 00:00:18,800
much we appreciate your taking the time

8
00:00:29,830 --> 00:00:21,359
this is a special occasion for 600 high

9
00:00:33,270 --> 00:00:31,429
i'm brandon wood a senior here at

10
00:00:35,910 --> 00:00:33,280
smithson valley and my question goes to

11
00:00:38,150 --> 00:00:35,920
both of you guys and it is um

12
00:00:40,709 --> 00:00:38,160
did you ever dream or aspire to become

13
00:00:42,150 --> 00:00:40,719

astronauts and also what was the feeling

14

00:00:46,310 --> 00:00:42,160

when you figured out that you were going

15

00:00:50,470 --> 00:00:47,510

well i'll start off and i'll let

16

00:00:51,510 --> 00:00:50,480

samantha answer the the second part uh

17

00:00:52,950 --> 00:00:51,520

the first

18

00:00:54,709 --> 00:00:52,960

dream that i had when i was a little kid

19

00:00:57,029 --> 00:00:54,719

was to be an astronaut the first book i

20

00:00:59,270 --> 00:00:57,039

ever read was about the apollo program

21

00:01:00,950 --> 00:00:59,280

and flying and especially space was

22

00:01:03,590 --> 00:01:00,960

something i was interested in

23

00:01:05,590 --> 00:01:03,600

since i was a just a kindergartner so i

24

00:01:06,789 --> 00:01:05,600

was i was pretty lucky to be able to

25

00:01:07,990 --> 00:01:06,799

pursue that

26

00:01:09,510 --> 00:01:08,000

and

27

00:01:11,030 --> 00:01:09,520

the time you find out you're going to

28

00:01:12,630 --> 00:01:11,040

get selected to be an astronaut is

29

00:01:13,750 --> 00:01:12,640

different than when you get assigned to

30

00:01:15,429 --> 00:01:13,760

a flight and those are different

31

00:01:20,469 --> 00:01:15,439

feelings and i'll let samantha talk

32

00:01:24,710 --> 00:01:22,469

yes hello and thanks for the question

33

00:01:26,950 --> 00:01:24,720

yes i have also dreamt of becoming an

34

00:01:29,749 --> 00:01:26,960

astronaut since i was a little girl and

35

00:01:32,789 --> 00:01:29,759

so when i finally was selected to become

36

00:01:34,390 --> 00:01:32,799

an astronaut you know for me it was a

37

00:01:36,069 --> 00:01:34,400

dream come true

38

00:01:38,710 --> 00:01:36,079

and of course i realized and i i was

39

00:01:40,630 --> 00:01:38,720

aware of the fact that you know it was a

40

00:01:42,389 --> 00:01:40,640

goal that i had achieved but it was also

41

00:01:44,789 --> 00:01:42,399

the start of a new journey and so i

42

00:01:46,149 --> 00:01:44,799

started training i did basic training

43

00:01:48,069 --> 00:01:46,159

and then i didn't know how long it would

44

00:01:49,910 --> 00:01:48,079

take until i actually got to go to space

45

00:01:51,830 --> 00:01:49,920

sometimes it takes many years and it

46

00:01:54,149 --> 00:01:51,840

took a few years in my case as well but

47

00:01:56,709 --> 00:01:54,159

not too many so i'm happy about that and

48

00:01:58,469 --> 00:01:56,719

when you finally get assigned you know

49

00:02:00,069 --> 00:01:58,479

it's like finally you're you're almost

50

00:02:01,429 --> 00:02:00,079

touching this dream in your hands you

51
00:02:03,429 --> 00:02:01,439
know that there is still a lot of work

52
00:02:05,429 --> 00:02:03,439
ahead but you are on a path and if

53
00:02:07,830 --> 00:02:05,439
everything goes well then you will

54
00:02:10,229 --> 00:02:07,840
actually fulfill that big dream and and

55
00:02:11,990 --> 00:02:10,239
get to space and actually arriving in

56
00:02:14,150 --> 00:02:12,000
space of course has been everything that

57
00:02:17,110 --> 00:02:14,160
i dreamed of and probably the happiest

58
00:02:17,120 --> 00:02:19,750
thank you

59
00:02:24,070 --> 00:02:22,470
hello my name is colvazon i have a few

60
00:02:25,510 --> 00:02:24,080
questions for both y'all

61
00:02:27,510 --> 00:02:25,520
my first question is how long does this

62
00:02:29,350 --> 00:02:27,520
whole process take the second one is

63
00:02:30,949 --> 00:02:29,360

what are the dangers of this job and the

64

00:02:35,350 --> 00:02:30,959

third one is what made you want to do

65

00:02:38,390 --> 00:02:36,710

well the process of becoming an

66

00:02:40,550 --> 00:02:38,400

astronaut is a long one it starts when

67

00:02:42,390 --> 00:02:40,560

you're a little kid in in school

68

00:02:44,630 --> 00:02:42,400

uh going through middle school high

69

00:02:46,309 --> 00:02:44,640

school uh college and then even after

70

00:02:47,750 --> 00:02:46,319

that there's there's always some type of

71

00:02:49,350 --> 00:02:47,760

training or learning or studying that it

72

00:02:51,270 --> 00:02:49,360

seems like you go through

73

00:02:53,030 --> 00:02:51,280

but when it came time to apply to be an

74

00:02:55,110 --> 00:02:53,040

astronaut the application process was

75

00:02:56,150 --> 00:02:55,120

about a year and a half it took a long

76

00:02:57,670 --> 00:02:56,160

time

77

00:02:59,509 --> 00:02:57,680

there was a pretty involved interview

78

00:03:01,110 --> 00:02:59,519

process that we went down to houston i

79

00:03:02,070 --> 00:03:01,120

went to houston and samantha did that in

80

00:03:03,830 --> 00:03:02,080

europe

81

00:03:05,270 --> 00:03:03,840

and they interview you to find out what

82

00:03:07,110 --> 00:03:05,280

kind of person you are and they do a lot

83

00:03:09,350 --> 00:03:07,120

of medical tests so just getting picked

84

00:03:11,110 --> 00:03:09,360

to be an astronaut is a long process

85

00:03:12,710 --> 00:03:11,120

uh and then that basic astronaut

86

00:03:13,750 --> 00:03:12,720

training takes about a year and a half

87

00:03:15,430 --> 00:03:13,760

two years

88

00:03:17,670 --> 00:03:15,440

to learn all the basic skills that you

89

00:03:19,110 --> 00:03:17,680

need to do space walks and to learn

90

00:03:21,110 --> 00:03:19,120

russian language and learn about the

91

00:03:22,630 --> 00:03:21,120

space station systems in my case i

92

00:03:23,910 --> 00:03:22,640

became an astronaut a long time ago and

93

00:03:25,270 --> 00:03:23,920

i learned how to fly the space shuttle

94

00:03:26,630 --> 00:03:25,280

as a pilot

95

00:03:28,470 --> 00:03:26,640

in the future there'll be other vehicles

96

00:03:29,670 --> 00:03:28,480

that we learn how to fly

97

00:03:32,309 --> 00:03:29,680

and then after that you go through a

98

00:03:33,830 --> 00:03:32,319

waiting process to get assigned uh which

99

00:03:34,949 --> 00:03:33,840

which really just depends on how many

100

00:03:36,229 --> 00:03:34,959

flight assignments there are and how

101
00:03:37,750 --> 00:03:36,239
many astronauts there are and you get in

102
00:03:39,589 --> 00:03:37,760
line and you wait your turn

103
00:03:40,869 --> 00:03:39,599
and once you get assigned samantha and i

104
00:03:43,030 --> 00:03:40,879
were assigned together for about two and

105
00:03:45,110 --> 00:03:43,040
a half years before we flew

106
00:03:46,630 --> 00:03:45,120
so there's a lot to learn it's a very

107
00:03:47,990 --> 00:03:46,640
complicated space station it's about a

108
00:03:49,110 --> 00:03:48,000
million pounds and so there's a lot of

109
00:03:50,470 --> 00:03:49,120
stuff to learn

110
00:03:52,630 --> 00:03:50,480
and but like i said it's really a

111
00:03:54,949 --> 00:03:52,640
lifelong process more than it is

112
00:03:56,949 --> 00:03:54,959
um just one you know checking the box

113
00:04:03,270 --> 00:03:56,959

and getting getting a degree here or

114

00:04:09,030 --> 00:04:06,470

and as far as the dangers of this job

115

00:04:10,710 --> 00:04:09,040

are concerned um you know on a on a

116

00:04:13,350 --> 00:04:10,720

day-to-day basis where you are on the

117

00:04:15,589 --> 00:04:13,360

ground i do not think that it's a very

118

00:04:17,990 --> 00:04:15,599

dangerous job terry and i were both in

119

00:04:19,749 --> 00:04:18,000

the military before this uh flying jets

120

00:04:22,469 --> 00:04:19,759

and i i do think that on a day-to-day

121

00:04:24,469 --> 00:04:22,479

basis that is uh more dangerous um

122

00:04:27,189 --> 00:04:24,479

however you know the the day comes where

123

00:04:28,870 --> 00:04:27,199

you you know you you climb up a rocket

124

00:04:31,350 --> 00:04:28,880

and you're you know you sit on the top

125

00:04:33,430 --> 00:04:31,360

of this rocket and there is hundreds of

126
00:04:35,990 --> 00:04:33,440
tons of

127
00:04:39,670 --> 00:04:36,000
propellant that is about to ignite and

128
00:04:41,510 --> 00:04:39,680
uh chemically propellants and explosives

129
00:04:44,310 --> 00:04:41,520
are very very similar

130
00:04:46,950 --> 00:04:44,320
and in a way a rocket that starts and

131
00:04:49,670 --> 00:04:46,960
launches into space is nothing else than

132
00:04:51,030 --> 00:04:49,680
a very controlled explosion or

133
00:04:52,390 --> 00:04:51,040
let's not call it explosion it's a

134
00:04:54,710 --> 00:04:52,400
deflagration but it's really a

135
00:04:56,070 --> 00:04:54,720
controlled combustion and and so you

136
00:04:57,749 --> 00:04:56,080
know when you sit on the top of that

137
00:04:59,990 --> 00:04:57,759
rocket that kind of goes through your

138
00:05:01,909 --> 00:05:00,000

mind a little bit and uh that's probably

139

00:05:04,230 --> 00:05:01,919

the most dangerous part of of the job

140

00:05:06,230 --> 00:05:04,240

the launch uh together with the reentry

141

00:05:08,870 --> 00:05:06,240

you know coming back to earth all of

142

00:05:11,029 --> 00:05:08,880

that energy that you have acquired

143

00:05:13,430 --> 00:05:11,039

through the rocket that have gotten you

144

00:05:15,430 --> 00:05:13,440

into space and have made you acquire all

145

00:05:17,189 --> 00:05:15,440

the speed that we have we travel at

146

00:05:18,710 --> 00:05:17,199

about twenty seven thousand kilometers

147

00:05:19,830 --> 00:05:18,720

per hour

148

00:05:22,230 --> 00:05:19,840

and entire is going to tell you the

149

00:05:24,150 --> 00:05:22,240

miles per hour

150

00:05:26,150 --> 00:05:24,160

all of that energy you somehow have to

151
00:05:28,230 --> 00:05:26,160
dissipate it when you come back to earth

152
00:05:30,150 --> 00:05:28,240
and that of course is is quite dangerous

153
00:05:32,230 --> 00:05:30,160
as well so those are probably the most

154
00:05:34,070 --> 00:05:32,240
the two most dangerous moments at the

155
00:05:35,670 --> 00:05:34,080
beginning and the end of a mission and

156
00:05:38,150 --> 00:05:35,680
then there are some health risks of

157
00:05:40,710 --> 00:05:38,160
course um you know related to being

158
00:05:43,350 --> 00:05:40,720
exposed to a certain level of radiation

159
00:05:45,189 --> 00:05:43,360
or just the effect that microgravity has

160
00:05:47,029 --> 00:05:45,199
on your body it kind of

161
00:05:49,029 --> 00:05:47,039
gets your body all the systems of your

162
00:05:52,310 --> 00:05:49,039
body a little bit out of balance

163
00:05:54,550 --> 00:05:52,320

um but i think we have those dangers

164

00:05:56,070 --> 00:05:54,560

pretty much under control at least when

165

00:05:58,150 --> 00:05:56,080

it comes to being here in low earth

166

00:06:00,710 --> 00:05:58,160

orbit but it's going to be a whole new

167

00:06:07,830 --> 00:06:00,720

challenge when we start getting beyond

168

00:06:07,840 --> 00:06:11,430

all right thank you

169

00:06:14,629 --> 00:06:13,430

hello my name is celine rendon and i'm a

170

00:06:16,550 --> 00:06:14,639

senior

171

00:06:19,029 --> 00:06:16,560

what do the scientific experiments in

172

00:06:21,029 --> 00:06:19,039

biology biology or human physiology

173

00:06:22,629 --> 00:06:21,039

consists of and what information is

174

00:06:27,749 --> 00:06:22,639

being gathered that can be explored in

175

00:06:32,390 --> 00:06:29,510

thanks that's a great question there's a

176

00:06:34,550 --> 00:06:32,400

lot of biology and human physiology

177

00:06:36,629 --> 00:06:34,560

experiments that we do it seems like

178

00:06:38,550 --> 00:06:36,639

it's probably the we do all different

179

00:06:40,550 --> 00:06:38,560

types of science up here physics

180

00:06:42,070 --> 00:06:40,560

material science biology but biology is

181

00:06:43,830 --> 00:06:42,080

probably our our biggest and most

182

00:06:45,749 --> 00:06:43,840

important thing that we're doing

183

00:06:47,029 --> 00:06:45,759

um a lot of what we do is on our own

184

00:06:49,350 --> 00:06:47,039

bodies we do

185

00:06:50,629 --> 00:06:49,360

ultrasounds on our brain our hearts and

186

00:06:53,110 --> 00:06:50,639

our eyes

187

00:06:55,589 --> 00:06:53,120

we have a machine called an oct machine

188

00:06:57,270 --> 00:06:55,599

that scans the inner structure of your

189

00:06:59,670 --> 00:06:57,280

eye with a laser

190

00:07:01,110 --> 00:06:59,680

we have other cam specialized cameras

191

00:07:03,029 --> 00:07:01,120

infrared cameras and stuff that we use

192

00:07:05,430 --> 00:07:03,039

to look at our eyes and so we do a lot

193

00:07:07,350 --> 00:07:05,440

of uh investigation on how the body

194

00:07:09,270 --> 00:07:07,360

reacts to weightlessness and that helps

195

00:07:10,469 --> 00:07:09,280

us understand how we can live

196

00:07:12,790 --> 00:07:10,479

in space

197

00:07:14,390 --> 00:07:12,800

and stay healthy and and for even longer

198

00:07:16,070 --> 00:07:14,400

periods of time

199

00:07:17,510 --> 00:07:16,080

we do some other experiments a plan

200

00:07:19,510 --> 00:07:17,520

experiment samantha was doing something

201
00:07:21,670 --> 00:07:19,520
called nso this morning which is a

202
00:07:22,710 --> 00:07:21,680
japanese plant experiment to help us

203
00:07:24,390 --> 00:07:22,720
learn

204
00:07:26,710 --> 00:07:24,400
the fundamental

205
00:07:28,950 --> 00:07:26,720
biology behind how plants

206
00:07:30,309 --> 00:07:28,960
work on earth and also help us

207
00:07:32,309 --> 00:07:30,319
understand how plants could work in

208
00:07:33,670 --> 00:07:32,319
weightlessness and grow eventually in

209
00:07:34,950 --> 00:07:33,680
the long term if we're going to live in

210
00:07:36,710 --> 00:07:34,960
space for a long time we're going to

211
00:07:38,230 --> 00:07:36,720
need to be able to grow plants here we

212
00:07:40,150 --> 00:07:38,240
did a really cool experiment a few

213
00:07:41,430 --> 00:07:40,160

months ago when our last cargo ship was

214

00:07:43,350 --> 00:07:41,440

here

215

00:07:44,869 --> 00:07:43,360

in the european columbus module it had a

216

00:07:46,150 --> 00:07:44,879

big pink light so the whole station was

217

00:07:48,309 --> 00:07:46,160

glowing pink at night it was kind of

218

00:07:50,309 --> 00:07:48,319

neat to see these plants grow just like

219

00:07:52,309 --> 00:07:50,319

a greenhouse at home that has a

220

00:07:54,710 --> 00:07:52,319

light on it i did an experiment a few

221

00:07:57,110 --> 00:07:54,720

months ago that involved

222

00:07:58,790 --> 00:07:57,120

salmonella and some other

223

00:08:00,629 --> 00:07:58,800

diseases that we were infecting these

224

00:08:03,029 --> 00:08:00,639

poor little worms these c elegans worms

225

00:08:04,950 --> 00:08:03,039

that are commonly used in science and we

226

00:08:07,029 --> 00:08:04,960

were studying how their

227

00:08:08,309 --> 00:08:07,039

they reacted to this infection in space

228

00:08:10,309 --> 00:08:08,319

which their reaction is actually

229

00:08:11,749 --> 00:08:10,319

stronger in space so there's lots of

230

00:08:13,749 --> 00:08:11,759

different

231

00:08:14,950 --> 00:08:13,759

things that we're doing for biology and

232

00:08:16,309 --> 00:08:14,960

it's very interesting some of these you

233

00:08:21,350 --> 00:08:16,319

just can't do on earth because of the

234

00:08:21,360 --> 00:08:24,790

thank you

235

00:08:28,950 --> 00:08:26,710

hi my name is caroline and i'm a junior

236

00:08:31,270 --> 00:08:28,960

my question is for miss christo ferretti

237

00:08:33,269 --> 00:08:31,280

um what obstacles did you face wanting

238

00:08:34,949 --> 00:08:33,279

to be a female astronaut since the space

239

00:08:37,190 --> 00:08:34,959

program is mostly a male populated

240

00:08:44,870 --> 00:08:37,200

program also how does it feel not being

241

00:08:49,190 --> 00:08:47,750

hello thanks for the question

242

00:08:51,430 --> 00:08:49,200

you know i

243

00:08:54,550 --> 00:08:51,440

since i was a little girl growing up but

244

00:08:55,990 --> 00:08:54,560

i never really looked at life expecting

245

00:08:57,590 --> 00:08:56,000

that it would be

246

00:09:00,630 --> 00:08:57,600

more difficult for me because i was a

247

00:09:02,470 --> 00:09:00,640

girl i always grew up assuming that it

248

00:09:03,990 --> 00:09:02,480

was an even playing field and and i

249

00:09:05,590 --> 00:09:04,000

never thought that

250

00:09:07,430 --> 00:09:05,600

somebody was out to get me because i was

251
00:09:09,430 --> 00:09:07,440
a girl or that somebody wanted to make

252
00:09:11,590 --> 00:09:09,440
things harder

253
00:09:13,190 --> 00:09:11,600
and i looking back now that you know i

254
00:09:15,269 --> 00:09:13,200
have lived a little bit of my life

255
00:09:17,030 --> 00:09:15,279
actually quite a bit i'm 38 years old

256
00:09:18,550 --> 00:09:17,040
now um

257
00:09:21,110 --> 00:09:18,560
i think that

258
00:09:22,389 --> 00:09:21,120
you know i had the right expectations

259
00:09:24,710 --> 00:09:22,399
i i

260
00:09:27,110 --> 00:09:24,720
i don't think that you know anybody was

261
00:09:29,590 --> 00:09:27,120
out there to make life harder for me um

262
00:09:31,670 --> 00:09:29,600
i have chosen difficult paths and so of

263
00:09:34,070 --> 00:09:31,680

course there have been challenges and

264

00:09:35,110 --> 00:09:34,080

you know at times it has been hard

265

00:09:37,190 --> 00:09:35,120

but

266

00:09:39,350 --> 00:09:37,200

you know you face those challenges as an

267

00:09:41,269 --> 00:09:39,360

individual you know with you know with

268

00:09:44,230 --> 00:09:41,279

what you bring to life in terms of your

269

00:09:46,710 --> 00:09:44,240

talents and your ambitions and uh your

270

00:09:48,630 --> 00:09:46,720

skills and your motivation

271

00:09:50,710 --> 00:09:48,640

and uh and really it you know you

272

00:09:52,550 --> 00:09:50,720

shouldn't expect it to be harder or full

273

00:09:54,389 --> 00:09:52,560

of hurdles just because you know you're

274

00:09:56,870 --> 00:09:54,399

you're a girl or you're gonna be a young

275

00:09:58,710 --> 00:09:56,880

woman soon so uh please do not have

276
00:10:00,790 --> 00:09:58,720
those kinds of expectations i encourage

277
00:10:03,030 --> 00:10:00,800
you to think that you know life is full

278
00:10:04,710 --> 00:10:03,040
of opportunities for you just like your

279
00:10:11,829 --> 00:10:04,720
you know your your

280
00:10:11,839 --> 00:10:14,949
thank you

281
00:10:18,790 --> 00:10:16,710
hi my name is mackenzie beckwith and my

282
00:10:23,990 --> 00:10:18,800
questions for terry how do you use the

283
00:10:24,000 --> 00:10:26,870
very carefully

284
00:10:29,910 --> 00:10:27,910
no

285
00:10:31,670 --> 00:10:29,920
one of the most important one most

286
00:10:33,750 --> 00:10:31,680
important pieces of space technology we

287
00:10:36,630 --> 00:10:33,760
have is our toilet and the most

288
00:10:39,990 --> 00:10:36,640

important component in there is a fan it

289

00:10:41,990 --> 00:10:40,000

it uses airflow or ventilation

290

00:10:43,269 --> 00:10:42,000

to compensate for the lack of gravity

291

00:10:44,710 --> 00:10:43,279

and that air flow is very important to

292

00:10:45,990 --> 00:10:44,720

make sure everything goes in the correct

293

00:10:48,710 --> 00:10:46,000

direction and doesn't come back in the

294

00:10:51,269 --> 00:10:48,720

other direction so we have a hose

295

00:10:52,470 --> 00:10:51,279

and basically a big can and in both of

296

00:10:53,590 --> 00:10:52,480

those things like i said they have the

297

00:10:55,509 --> 00:10:53,600

airflow

298

00:10:58,230 --> 00:10:55,519

and you use them just like you would on

299

00:11:00,069 --> 00:10:58,240

earth and that airflow keeps everything

300

00:11:02,230 --> 00:11:00,079

in the right place and it's very

301
00:11:03,910 --> 00:11:02,240
important and when it breaks uh we're

302
00:11:06,310 --> 00:11:03,920
very interested in getting it repaired

303
00:11:07,670 --> 00:11:06,320
as quickly as possible so that's a big

304
00:11:09,509 --> 00:11:07,680
we kind of joke about it and everybody

305
00:11:11,509 --> 00:11:09,519
always asks that question but

306
00:11:13,590 --> 00:11:11,519
when we start going to the moon and mars

307
00:11:15,030 --> 00:11:13,600
and living in the solar system away from

308
00:11:17,670 --> 00:11:15,040
earth

309
00:11:19,110 --> 00:11:17,680
having a bathroom that works and is able

310
00:11:20,389 --> 00:11:19,120
to be repaired very easily is going to

311
00:11:22,310 --> 00:11:20,399
be really important that's a good

312
00:11:26,470 --> 00:11:22,320
question

313
00:11:31,269 --> 00:11:28,470

hello my name is carlos i'm a junior and

314

00:11:37,910 --> 00:11:31,279

this question is for samantha

315

00:11:37,920 --> 00:11:48,949

she's the expert

316

00:11:55,350 --> 00:11:51,110

doing a flip is easy stopping at the

317

00:11:55,360 --> 00:12:05,750

all right thank you

318

00:12:08,870 --> 00:12:07,670

hi my name is antonia and my question is

319

00:12:10,629 --> 00:12:08,880

for terry

320

00:12:12,230 --> 00:12:10,639

how if at all and to what extent do

321

00:12:16,870 --> 00:12:12,240

language barriers hinder operations

322

00:12:20,150 --> 00:12:18,870

thanks antonio that's a very good

323

00:12:22,230 --> 00:12:20,160

question because as you know it's the

324

00:12:24,310 --> 00:12:22,240

international space station and we have

325

00:12:26,150 --> 00:12:24,320

samantha who's italian we have a couple

326

00:12:28,230 --> 00:12:26,160

of americans here myself and scott kelly

327

00:12:30,069 --> 00:12:28,240

and we have three russians here

328

00:12:31,750 --> 00:12:30,079

and everybody has different levels of

329

00:12:33,590 --> 00:12:31,760

language ability but we're all able to

330

00:12:35,590 --> 00:12:33,600

speak each other's language except none

331

00:12:36,870 --> 00:12:35,600

of us can speak italian but samantha

332

00:12:38,710 --> 00:12:36,880

speaks everybody's language so that's

333

00:12:41,030 --> 00:12:38,720

okay um

334

00:12:43,269 --> 00:12:41,040

i could say i could say pizza and a few

335

00:12:45,750 --> 00:12:43,279

words in in italian

336

00:12:47,030 --> 00:12:45,760

tiramisu yeah so but that that is

337

00:12:49,190 --> 00:12:47,040

something that we have to spend a lot of

338

00:12:51,750 --> 00:12:49,200

time preparing for before flight to

339

00:12:54,230 --> 00:12:51,760

learn russian because we launched in a

340

00:12:55,670 --> 00:12:54,240

russian soyuz spacecraft and a lot of

341

00:12:57,590 --> 00:12:55,680

the con that we do over there is in the

342

00:12:59,590 --> 00:12:57,600

russian language so

343

00:13:01,509 --> 00:12:59,600

the ability to learn languages i think

344

00:13:02,949 --> 00:13:01,519

is an important skill for astronauts in

345

00:13:04,710 --> 00:13:02,959

in today's world

346

00:13:08,310 --> 00:13:04,720

as we carry out these international

347

00:13:12,069 --> 00:13:10,150

uh colonel verts and captain crystal

348

00:13:13,269 --> 00:13:12,079

ferretti thank you both for being with

349

00:13:15,030 --> 00:13:13,279

us today

350

00:13:16,949 --> 00:13:15,040

we really appreciate your time we

351
00:13:17,990 --> 00:13:16,959
appreciate your knowledge and expertise

352
00:13:20,150 --> 00:13:18,000
as well

353
00:13:22,069 --> 00:13:20,160
and uh safe travels while you're at the

354
00:13:24,550 --> 00:13:22,079
space station and may you have a safe

355
00:13:27,670 --> 00:13:24,560
trip back to earth as well and we'd like

356
00:13:35,030 --> 00:13:27,680
to all give you a round of applause for

357
00:13:38,550 --> 00:13:36,949
thanks guys this was a lot of fun and

358
00:13:40,550 --> 00:13:38,560
this is just a this is a fun part of our

359
00:13:41,750 --> 00:13:40,560
day you had some great questions

360
00:13:45,990 --> 00:13:41,760
and hopefully we'll see you back in

361
00:13:46,000 --> 00:13:53,110
thanks again and goodbye

362
00:13:59,110 --> 00:13:54,870
station this is houston acr that

363
00:14:02,949 --> 00:14:01,189

thank you smith smithson valley high

364

00:14:04,389 --> 00:14:02,959

school and representative lamar smith

365

00:14:05,670 --> 00:14:04,399

station please stand by while we