



 [Facebook.com/ISS](https://www.facebook.com/ISS)

**GARY JORDAN**

**DAN HUOT**

1  
00:00:00,190 --> 00:00:24,630

[Music]

2  
00:00:29,109 --> 00:00:27,269

hello nasa tv facebook live ustream

3  
00:00:31,349 --> 00:00:29,119

wherever you are watching around the

4  
00:00:34,470 --> 00:00:31,359

world welcome to the very first live

5  
00:00:36,709 --> 00:00:34,480

recording of houston we have a podcast

6  
00:00:38,229 --> 00:00:36,719

uh this if you're unfamiliar with the

7  
00:00:40,389 --> 00:00:38,239

podcast this is where we bring in the

8  
00:00:42,150 --> 00:00:40,399

experts nasa scientists engineers

9  
00:00:43,830 --> 00:00:42,160

astronauts all the folks that have the

10  
00:00:45,350 --> 00:00:43,840

coolest information the stuff you really

11  
00:00:47,430 --> 00:00:45,360

want to know right on the show and talk

12  
00:00:49,190 --> 00:00:47,440

about everything nasa and today is the

13  
00:00:50,950 --> 00:00:49,200

very first live episode the very first

14

00:00:52,790 --> 00:00:50,960

time you're seeing us on camera but also

15

00:00:54,229 --> 00:00:52,800

what makes this episode very special is

16

00:00:56,549 --> 00:00:54,239

it's the first time that we don't have

17

00:00:58,310 --> 00:00:56,559

our guest right here in the studio let

18

00:01:00,709 --> 00:00:58,320

alone on the planet today we're going to

19

00:01:02,549 --> 00:01:00,719

be talking to jack fisher aboard the

20

00:01:05,590 --> 00:01:02,559

international space station and i cannot

21

00:01:07,510 --> 00:01:05,600

do this alone so with me today i have a

22

00:01:09,190 --> 00:01:07,520

veteran of houston we have a podcast and

23

00:01:10,550 --> 00:01:09,200

also my co-host today dan hewitt dan

24

00:01:12,630 --> 00:01:10,560

thanks for joining us yeah it's it's

25

00:01:14,870 --> 00:01:12,640

real good to be back i was on the first

26

00:01:16,390 --> 00:01:14,880

episode and i'm not the expert we are

27

00:01:18,710 --> 00:01:16,400

talking to the expert in space today

28

00:01:20,870 --> 00:01:18,720

it's super exciting and again just wrap

29

00:01:23,350 --> 00:01:20,880

your mind about around that we're about

30

00:01:25,270 --> 00:01:23,360

to talk to somebody in outer space

31

00:01:26,550 --> 00:01:25,280

yeah how cool is that this is crazy i

32

00:01:28,630 --> 00:01:26,560

mean we're looking at him right now

33

00:01:30,469 --> 00:01:28,640

getting set up this is crazy i mean for

34

00:01:32,630 --> 00:01:30,479

for me this personally this is my very

35

00:01:34,789 --> 00:01:32,640

first time talking to somebody in space

36

00:01:36,710 --> 00:01:34,799

that's right gary's newer here so he

37

00:01:38,230 --> 00:01:36,720

hasn't had the privilege i've been here

38

00:01:40,069 --> 00:01:38,240

a little bit longer and i've done it

39

00:01:41,510 --> 00:01:40,079

maybe once or twice still but it's still

40

00:01:42,950 --> 00:01:41,520

it's really exciting it makes you a

41

00:01:45,429 --> 00:01:42,960

little bit nervous

42

00:01:47,510 --> 00:01:45,439

but it's really cool to live in a time

43

00:01:49,590 --> 00:01:47,520

where we have the capabilities to talk

44

00:01:52,149 --> 00:01:49,600

to somebody who's in outer space we're

45

00:01:53,429 --> 00:01:52,159

flying around us right at 17 000 miles

46

00:01:55,510 --> 00:01:53,439

an hour i mean

47

00:01:57,510 --> 00:01:55,520

one of the coolest examples i can think

48

00:01:59,429 --> 00:01:57,520

of that happening and it shows you just

49

00:02:01,510 --> 00:01:59,439

how far we've come i mean it used to be

50

00:02:03,670 --> 00:02:01,520

you needed satellite dishes and

51  
00:02:05,190 --> 00:02:03,680  
technology and that weighed millions of

52  
00:02:06,630 --> 00:02:05,200  
pounds all these things just to talk to

53  
00:02:08,949 --> 00:02:06,640  
somebody you know a few hundred miles

54  
00:02:10,469 --> 00:02:08,959  
away and now you can talk to somebody in

55  
00:02:12,710 --> 00:02:10,479  
space in a cell phone that actually

56  
00:02:14,949 --> 00:02:12,720  
happened to us once we were over in

57  
00:02:16,150 --> 00:02:14,959  
kazakhstan and we had just watched one

58  
00:02:18,710 --> 00:02:16,160  
of the crews launched to the

59  
00:02:20,550 --> 00:02:18,720  
international space station and it had

60  
00:02:22,470 --> 00:02:20,560  
been a couple of hours so they're almost

61  
00:02:25,350 --> 00:02:22,480  
docked and we were heading to an old

62  
00:02:27,430 --> 00:02:25,360  
theater in baikonur to go watch the

63  
00:02:29,589 --> 00:02:27,440

actual docking and the crew members get

64

00:02:30,790 --> 00:02:29,599

there and one of my colleagues phones

65

00:02:32,070 --> 00:02:30,800

rang

66

00:02:34,630 --> 00:02:32,080

and he answered it and you could just

67

00:02:36,550 --> 00:02:34,640

see his face light up and it was just a

68

00:02:38,309 --> 00:02:36,560

real short conversation oh yeah no that

69

00:02:40,390 --> 00:02:38,319

sounds great sounds cool yeah we'll

70

00:02:42,390 --> 00:02:40,400

definitely use that that was it he hung

71

00:02:44,150 --> 00:02:42,400

up and he said that was the commander of

72

00:02:45,670 --> 00:02:44,160

the international space station he just

73

00:02:47,509 --> 00:02:45,680

called me on my cell phone to tell me

74

00:02:49,990 --> 00:02:47,519

how he was setting up a camera to watch

75

00:02:52,229 --> 00:02:50,000

the crew members come on board so i mean

76

00:02:53,670 --> 00:02:52,239

just that like blew my mind because we

77

00:02:55,509 --> 00:02:53,680

were just in this remote part of the

78

00:02:57,509 --> 00:02:55,519

planet and you can get a phone call from

79

00:02:59,350 --> 00:02:57,519

somebody in space like it's just so

80

00:03:01,190 --> 00:02:59,360

incredible that we're living in this

81

00:03:02,710 --> 00:03:01,200

time and we're about to talk to somebody

82

00:03:05,670 --> 00:03:02,720

in space and if you can't tell i'm

83

00:03:07,430 --> 00:03:05,680

really excited and i know gary is too

84

00:03:09,030 --> 00:03:07,440

yeah very very true it's just crazy you

85

00:03:11,030 --> 00:03:09,040

could pick up a box and then literally

86

00:03:12,630 --> 00:03:11,040

it is it is space calling i've heard

87

00:03:14,630 --> 00:03:12,640

stories of all you know astronauts

88

00:03:16,470 --> 00:03:14,640

calling pizza joints and ordering pizza

89

00:03:18,309 --> 00:03:16,480

for a colleague whose birthday it was or

90

00:03:19,589 --> 00:03:18,319

something like that it's just that's

91

00:03:21,750 --> 00:03:19,599

it's the most insane thing to think

92

00:03:24,070 --> 00:03:21,760

about but okay so today we're talking

93

00:03:25,589 --> 00:03:24,080

with somebody in space jack fisher let's

94

00:03:27,830 --> 00:03:25,599

talk a little bit about him who is this

95

00:03:30,550 --> 00:03:27,840

guy so jack fisher is one of the flight

96

00:03:32,229 --> 00:03:30,560

engineers for expedition 52 he's been on

97

00:03:34,149 --> 00:03:32,239

board the international space station

98

00:03:36,710 --> 00:03:34,159

since april when he launched with the

99

00:03:38,390 --> 00:03:36,720

russian cosmonaut fyodor yurchikhin jack

100

00:03:40,309 --> 00:03:38,400

is one of the relatively newer

101  
00:03:43,190 --> 00:03:40,319  
astronauts in the corps he was selected

102  
00:03:44,710 --> 00:03:43,200  
back in 2009 and this is his first space

103  
00:03:46,470 --> 00:03:44,720  
flight so this is his first time in

104  
00:03:48,869 --> 00:03:46,480  
space and he's been up there for a

105  
00:03:51,190 --> 00:03:48,879  
couple of months now he's got a stem

106  
00:03:53,190 --> 00:03:51,200  
background like all of the astronauts do

107  
00:03:55,429 --> 00:03:53,200  
degrees in aeronautical engineering and

108  
00:03:57,750 --> 00:03:55,439  
aeronautics and astronautics a lot of a

109  
00:04:00,149 --> 00:03:57,760  
words in there and he went to mit so

110  
00:04:01,589 --> 00:04:00,159  
he's got a pretty nice resume to make

111  
00:04:03,110 --> 00:04:01,599  
him an astronaut

112  
00:04:05,589 --> 00:04:03,120  
but he was also in the air force he's an

113  
00:04:07,990 --> 00:04:05,599

air force colonel with 3 000 flight

114

00:04:09,589 --> 00:04:08,000

hours more than 45 different aircraft

115

00:04:12,070 --> 00:04:09,599

and he worked in a whole bunch of

116

00:04:13,910 --> 00:04:12,080

different jobs before he ever flew into

117

00:04:14,710 --> 00:04:13,920

space and all the astronauts do that

118

00:04:18,949 --> 00:04:14,720

they

119

00:04:21,110 --> 00:04:18,959

technical programs here at nasa jack was

120

00:04:22,870 --> 00:04:21,120

a capcom so he was one of the people who

121

00:04:24,870 --> 00:04:22,880

actually talks to astronauts every

122

00:04:26,390 --> 00:04:24,880

single day oh wow so you know for people

123

00:04:27,990 --> 00:04:26,400

like them talking to somebody in space

124

00:04:30,070 --> 00:04:28,000

it's their job it's kind of you know

125

00:04:31,030 --> 00:04:30,080

it's old hat for us it's super unique

126

00:04:32,710 --> 00:04:31,040

but

127

00:04:34,469 --> 00:04:32,720

he's done all those things and now he's

128

00:04:36,310 --> 00:04:34,479

been on board for the last couple of

129

00:04:39,430 --> 00:04:36,320

months and he's been doing everything

130

00:04:41,430 --> 00:04:39,440

from spacewalking to science to

131

00:04:44,070 --> 00:04:41,440

capturing visiting spacecraft kind of

132

00:04:46,790 --> 00:04:44,080

the whole gamut of stuff unbelievable

133

00:04:48,629 --> 00:04:46,800

okay so he's he's you know now he's got

134

00:04:50,950 --> 00:04:48,639

that experience right he's got not only

135

00:04:52,950 --> 00:04:50,960

the the flight time just in planes but

136

00:04:55,430 --> 00:04:52,960

now he's got flight time you know

137

00:04:58,550 --> 00:04:55,440

traveling 250 miles above the earth

138

00:05:01,270 --> 00:04:58,560

really really fast so uh he's got so how

139

00:05:04,310 --> 00:05:01,280

were his uh spacewalks what's that

140

00:05:06,629 --> 00:05:04,320

yeah so he did two spacewalks and every

141

00:05:07,990 --> 00:05:06,639

astronaut will tell you that spacewalks

142

00:05:09,830 --> 00:05:08,000

are one of the most unique one of the

143

00:05:11,270 --> 00:05:09,840

most dynamic things they get to do it's

144

00:05:14,070 --> 00:05:11,280

kind of one of the coolest things about

145

00:05:16,710 --> 00:05:14,080

being in space a lot of times and he did

146

00:05:18,230 --> 00:05:16,720

two back in may one they just replaced a

147

00:05:19,909 --> 00:05:18,240

component on the outside and the other

148

00:05:22,310 --> 00:05:19,919

one was something we called an unplanned

149

00:05:24,710 --> 00:05:22,320

spacewalk where something broke and they

150

00:05:26,390 --> 00:05:24,720

had to go outside and replace it and so

151  
00:05:27,830 --> 00:05:26,400  
he did both of those with peggy whitson

152  
00:05:30,390 --> 00:05:27,840  
who's been up there with him the whole

153  
00:05:33,189 --> 00:05:30,400  
time he affectionately refers to her as

154  
00:05:35,110 --> 00:05:33,199  
the space ninja she is the all-time

155  
00:05:36,950 --> 00:05:35,120  
record holder for american astronauts

156  
00:05:38,870 --> 00:05:36,960  
for time and space so definitely a good

157  
00:05:41,029 --> 00:05:38,880  
person to have up there with you for

158  
00:05:43,430 --> 00:05:41,039  
your first trip

159  
00:05:45,670 --> 00:05:43,440  
awesome well okay so we are going to be

160  
00:05:47,749 --> 00:05:45,680  
talking to jack fisher here in just a

161  
00:05:49,590 --> 00:05:47,759  
few minutes if you are tuning in on

162  
00:05:51,430 --> 00:05:49,600  
facebook live we are actually monitoring

163  
00:05:53,430 --> 00:05:51,440

the questions right here and going to

164

00:05:55,670 --> 00:05:53,440

answer them as they come along maybe

165

00:05:57,510 --> 00:05:55,680

even send a couple up to jack once we

166

00:05:59,189 --> 00:05:57,520

get started here so we have a couple

167

00:06:01,430 --> 00:05:59,199

coming in already we have folks checking

168

00:06:03,990 --> 00:06:01,440

in from all over the world i see some

169

00:06:05,510 --> 00:06:04,000

from italy i see some from obviously

170

00:06:07,990 --> 00:06:05,520

here in the states so

171

00:06:09,909 --> 00:06:08,000

everyone welcome i did see one question

172

00:06:12,150 --> 00:06:09,919

actually before we even started this one

173

00:06:13,990 --> 00:06:12,160

this one is from kelly and she said her

174

00:06:15,990 --> 00:06:14,000

five-year-old was asking if some of the

175

00:06:18,550 --> 00:06:16,000

astronauts watch movies on the

176  
00:06:20,390 --> 00:06:18,560  
international they do they do we do like

177  
00:06:22,469 --> 00:06:20,400  
to equip them with some of the the kind

178  
00:06:24,469 --> 00:06:22,479  
of creature comforts of being back here

179  
00:06:26,230 --> 00:06:24,479  
at home cool and one thing they have up

180  
00:06:27,830 --> 00:06:26,240  
there is they actually have a very small

181  
00:06:30,070 --> 00:06:27,840  
projector and then a large screen i

182  
00:06:31,270 --> 00:06:30,080  
think it's about 40 inches or so and

183  
00:06:33,590 --> 00:06:31,280  
they'll have movie nights and we

184  
00:06:36,469 --> 00:06:33,600  
actually we do have a picture and this

185  
00:06:38,550 --> 00:06:36,479  
is all six crew members they use bungee

186  
00:06:40,070 --> 00:06:38,560  
cords to kind of make little lean-to

187  
00:06:42,870 --> 00:06:40,080  
hammocks and even breaking out their

188  
00:06:44,710 --> 00:06:42,880

sleeping bags to get to gather together

189

00:06:46,469 --> 00:06:44,720

and watch movies in space

190

00:06:48,309 --> 00:06:46,479

a lot of them will tell you they like to

191

00:06:49,909 --> 00:06:48,319

watch a lot of space movies just because

192

00:06:51,029 --> 00:06:49,919

i mean they're up there they're living

193

00:06:52,390 --> 00:06:51,039

it but

194

00:06:54,790 --> 00:06:52,400

it's just one of those things that kind

195

00:06:56,309 --> 00:06:54,800

of makes living in space a little bit

196

00:06:57,749 --> 00:06:56,319

more like being back here at home

197

00:06:59,749 --> 00:06:57,759

because i mean you're in a really

198

00:07:01,830 --> 00:06:59,759

strange place it's true you're

199

00:07:04,230 --> 00:07:01,840

completely isolated from so from

200

00:07:06,790 --> 00:07:04,240

everybody except for the two or five

201  
00:07:08,550 --> 00:07:06,800  
people with you so having things like

202  
00:07:10,150 --> 00:07:08,560  
movies can make that time a lot easier

203  
00:07:11,830 --> 00:07:10,160  
and it seems like camaraderie has got to

204  
00:07:13,270 --> 00:07:11,840  
be one of the more important aspects of

205  
00:07:14,550 --> 00:07:13,280  
living in space too just getting along

206  
00:07:16,150 --> 00:07:14,560  
with your crewmates and doing stuff

207  
00:07:17,510 --> 00:07:16,160  
together i know i guess they watch

208  
00:07:18,950 --> 00:07:17,520  
movies together as we just saw in that

209  
00:07:21,830 --> 00:07:18,960  
picture but i know they eat meals

210  
00:07:24,150 --> 00:07:21,840  
together too oh yeah they do and

211  
00:07:26,230 --> 00:07:24,160  
they're together for years before they

212  
00:07:27,990 --> 00:07:26,240  
ever fly they'll usually be with this

213  
00:07:30,550 --> 00:07:28,000

you'll be with the same people pretty

214

00:07:32,469 --> 00:07:30,560

much throughout all of your work time

215

00:07:33,990 --> 00:07:32,479

for two years before you ever fly in

216

00:07:35,909 --> 00:07:34,000

space with them so they know each other

217

00:07:37,270 --> 00:07:35,919

very well before they fly meals are

218

00:07:38,950 --> 00:07:37,280

definitely one of those so it's an

219

00:07:41,189 --> 00:07:38,960

international space station so there's a

220

00:07:42,710 --> 00:07:41,199

lot of international foods so they like

221

00:07:44,550 --> 00:07:42,720

to come together and share little

222

00:07:46,309 --> 00:07:44,560

creations the food's not

223

00:07:47,990 --> 00:07:46,319

quite as gourmet as it might be down

224

00:07:49,909 --> 00:07:48,000

here on earth but they do have a couple

225

00:07:51,189 --> 00:07:49,919

of ways to make it a little bit more

226

00:07:52,869 --> 00:07:51,199

interesting and

227

00:07:54,150 --> 00:07:52,879

they like to put hot sauces and things

228

00:07:56,230 --> 00:07:54,160

like that and a ton of stuff just

229

00:07:57,990 --> 00:07:56,240

because your your taste actually changes

230

00:08:00,150 --> 00:07:58,000

when you're in space and that's due to

231

00:08:02,469 --> 00:08:00,160

all the fluids rushing up and a whole

232

00:08:03,670 --> 00:08:02,479

bunch of crazy things happen but wow

233

00:08:06,869 --> 00:08:03,680

yeah

234

00:08:08,550 --> 00:08:06,879

questions for jack just put him in the

235

00:08:10,790 --> 00:08:08,560

comment section we'll kind of uh follow

236

00:08:12,390 --> 00:08:10,800

along and even um he's he's getting set

237

00:08:13,830 --> 00:08:12,400

up here right now but once we start uh

238

00:08:15,830 --> 00:08:13,840

connect with him in just a few minutes

239

00:08:17,670 --> 00:08:15,840

here uh we'll read those questions up to

240

00:08:19,430 --> 00:08:17,680

him um but

241

00:08:21,350 --> 00:08:19,440

personally for me i mean besides just

242

00:08:23,749 --> 00:08:21,360

you reading his bio this is the first

243

00:08:26,230 --> 00:08:23,759

time i've met jack um the first time i'm

244

00:08:28,150 --> 00:08:26,240

actually gonna be talking to him so jack

245

00:08:30,469 --> 00:08:28,160

highly recommend following him on social

246

00:08:32,389 --> 00:08:30,479

media he's brought just an incredible

247

00:08:33,430 --> 00:08:32,399

amount of excitement to everything that

248

00:08:35,190 --> 00:08:33,440

he's been doing and again he's a

249

00:08:36,870 --> 00:08:35,200

first-timer so he's been experiencing

250

00:08:39,029 --> 00:08:36,880

all this for the first time and sharing

251

00:08:40,709 --> 00:08:39,039

it with people as he did i actually got

252

00:08:43,029 --> 00:08:40,719

to meet jack

253

00:08:45,750 --> 00:08:43,039

three years three years ago we were both

254

00:08:47,750 --> 00:08:45,760

down in florida for orion's first space

255

00:08:50,070 --> 00:08:47,760

flight eft one it was first time we put

256

00:08:52,550 --> 00:08:50,080

orion or next generation spacecraft into

257

00:08:55,190 --> 00:08:52,560

outer space and he was basically

258

00:08:56,150 --> 00:08:55,200

assigned to be our voice

259

00:08:57,990 --> 00:08:56,160

and our

260

00:08:59,990 --> 00:08:58,000

for the entire agency so we went around

261

00:09:02,310 --> 00:09:00,000

talking to media all of these different

262

00:09:03,990 --> 00:09:02,320

people to tell them about orion and

263

00:09:06,150 --> 00:09:04,000

again he just brings like this level of

264

00:09:08,310 --> 00:09:06,160

enthusiasm he's got a great sense of

265

00:09:09,910 --> 00:09:08,320

humor he's incredibly knowledgeable so

266

00:09:11,670 --> 00:09:09,920

he's going to be really great for this

267

00:09:14,949 --> 00:09:11,680

the most awesome podcast from space

268

00:09:16,470 --> 00:09:14,959

today so i'm super excited absolutely

269

00:09:17,910 --> 00:09:16,480

appropriately named too that's what

270

00:09:19,829 --> 00:09:17,920

we're going to be calling this episode

271

00:09:21,670 --> 00:09:19,839

so we'll talk to him right now this will

272

00:09:23,350 --> 00:09:21,680

be our live episode that we're doing

273

00:09:25,910 --> 00:09:23,360

here uh you'll be able to interact with

274

00:09:28,310 --> 00:09:25,920

us live but then it'll be available on

275

00:09:31,910 --> 00:09:28,320

itunes soundcloud and nasa.gov the

276

00:09:33,990 --> 00:09:31,920

recorded audio version um uh after this

277

00:09:35,509 --> 00:09:34,000

i guess tomorrow we'll post it so uh

278

00:09:38,230 --> 00:09:35,519

there'll be a full transcript with that

279

00:09:40,550 --> 00:09:38,240

as well so right now we're 20 seconds

280

00:09:42,070 --> 00:09:40,560

away oh okay we're about 20 seconds away

281

00:09:43,750 --> 00:09:42,080

gary are you ready are you ready to talk

282

00:09:45,430 --> 00:09:43,760

to space for the very first time i think

283

00:09:47,590 --> 00:09:45,440

so i think so are you ready okay

284

00:09:49,350 --> 00:09:47,600

everybody let's get ready for gary this

285

00:09:50,550 --> 00:09:49,360

can be a little nerve-wracking i assure

286

00:09:52,470 --> 00:09:50,560

you

287

00:09:54,389 --> 00:09:52,480

just a couple of seconds okay so we'll

288

00:09:56,470 --> 00:09:54,399

wait for the call from mission control

289

00:09:59,430 --> 00:09:56,480

houston here and start talking to jack

290

00:10:04,949 --> 00:10:01,030

station this is houston are you ready

291

00:10:10,230 --> 00:10:07,389

i sure am

292

00:10:13,670 --> 00:10:10,240

jscpao this is mission control houston

293

00:10:15,990 --> 00:10:13,680

please call station for a voice check

294

00:10:17,590 --> 00:10:16,000

station this is gary jordan and dan

295

00:10:21,670 --> 00:10:17,600

hewitt here for houston we have a

296

00:10:24,870 --> 00:10:23,670

loud and clear gary and dan great to be

297

00:10:27,829 --> 00:10:24,880

with you today

298

00:10:30,550 --> 00:10:27,839

awesome well i am extremely excited

299

00:10:32,550 --> 00:10:30,560

about this episode because uh as i was

300

00:10:34,710 --> 00:10:32,560

telling dan here uh beforehand you know

301  
00:10:36,949 --> 00:10:34,720  
this is usually when we have a guest uh

302  
00:10:39,110 --> 00:10:36,959  
they're on the in the studio let alone

303  
00:10:40,630 --> 00:10:39,120  
on the planet so i'm gonna start off

304  
00:10:42,470 --> 00:10:40,640  
this conversation by asking something

305  
00:10:46,470 --> 00:10:42,480  
that i literally cannot ask anyone else

306  
00:10:52,310 --> 00:10:50,310  
it's awesome like it is every day and

307  
00:10:54,470 --> 00:10:52,320  
what i was gonna do

308  
00:10:56,069 --> 00:10:54,480  
just because you know it is your first

309  
00:10:57,829 --> 00:10:56,079  
guest from space

310  
00:10:59,750 --> 00:10:57,839  
every single question

311  
00:11:01,990 --> 00:10:59,760  
i'm gonna go on a different you know

312  
00:11:03,190 --> 00:11:02,000  
wall so i'll be on the walls i'll be on

313  
00:11:05,910 --> 00:11:03,200

the ceiling

314

00:11:08,389 --> 00:11:05,920

i'm gonna i'm gonna adjust orientation

315

00:11:11,269 --> 00:11:08,399

mid interview at every question just

316

00:11:13,030 --> 00:11:11,279

because i can and it's cool

317

00:11:15,350 --> 00:11:13,040

i love it okay

318

00:11:16,630 --> 00:11:15,360

awesome so so you're used to space now

319

00:11:18,710 --> 00:11:16,640

you've been up there for what is it

320

00:11:21,110 --> 00:11:18,720

almost four months so i mean when you're

321

00:11:23,110 --> 00:11:21,120

gonna be switching from wall to wall do

322

00:11:26,949 --> 00:11:23,120

you sort of get disoriented or is your

323

00:11:30,389 --> 00:11:29,030

man it kind of figured it out pretty

324

00:11:32,710 --> 00:11:30,399

quick and you know that's what's so

325

00:11:35,509 --> 00:11:32,720

awesome about the human brain we come up

326

00:11:38,069 --> 00:11:35,519

here in a completely foreign environment

327

00:11:40,150 --> 00:11:38,079

and the brain's just like man all this

328

00:11:42,069 --> 00:11:40,160

vestibular all these things that i

329

00:11:45,269 --> 00:11:42,079

normally use to figure out which way is

330

00:11:47,110 --> 00:11:45,279

up and to orient this body for this dude

331

00:11:49,590 --> 00:11:47,120

doesn't work so i have to find a

332

00:11:52,150 --> 00:11:49,600

different way and it forces your your

333

00:11:54,069 --> 00:11:52,160

mind and your body to grow and to look

334

00:11:55,110 --> 00:11:54,079

at things differently so you start

335

00:11:57,350 --> 00:11:55,120

looking

336

00:12:01,269 --> 00:11:57,360

three-dimensionally at everything around

337

00:12:03,910 --> 00:12:01,279

you and and it's amazing how quickly

338

00:12:04,629 --> 00:12:03,920

your body can adapt and just get used to

339

00:12:05,990 --> 00:12:04,639

it

340

00:12:07,750 --> 00:12:06,000

all right that was question one i got to

341

00:12:09,670 --> 00:12:07,760

switch now

342

00:12:11,750 --> 00:12:09,680

all right well why you do that i mean

343

00:12:13,509 --> 00:12:11,760

that just kind of leads into

344

00:12:15,110 --> 00:12:13,519

what is difficult to get used to when

345

00:12:17,509 --> 00:12:15,120

you get up there because i mean it's a

346

00:12:19,590 --> 00:12:17,519

completely alien environment from what

347

00:12:24,790 --> 00:12:19,600

we grow up and you spend your entire

348

00:12:30,310 --> 00:12:27,190

absolutely and you know it it totally

349

00:12:32,790 --> 00:12:30,320

depends on the person and we can't

350

00:12:34,949 --> 00:12:32,800

really predict uh even depending on your

351

00:12:35,990 --> 00:12:34,959

background i i come from a test pilot

352

00:12:37,829 --> 00:12:36,000

background

353

00:12:39,590 --> 00:12:37,839

and you know can do things in an

354

00:12:40,949 --> 00:12:39,600

airplane that would make a billy goat

355

00:12:42,550 --> 00:12:40,959

puke but

356

00:12:44,790 --> 00:12:42,560

that doesn't mean that when i get up

357

00:12:47,110 --> 00:12:44,800

here i'm gonna be

358

00:12:49,350 --> 00:12:47,120

any better than a

359

00:12:51,990 --> 00:12:49,360

a scientist who's never been in a plane

360

00:12:54,230 --> 00:12:52,000

um it's it's not a good predictor i was

361

00:12:57,910 --> 00:12:54,240

lucky and when i got up here i didn't

362

00:13:00,629 --> 00:12:57,920

have congestion or or upset stomach or

363

00:13:03,910 --> 00:13:00,639

you know any of those those big problems

364

00:13:06,710 --> 00:13:03,920

that some people deal with but everybody

365

00:13:09,430 --> 00:13:06,720

has to learn how to fly and

366

00:13:11,190 --> 00:13:09,440

so as a test pilot i was probably worse

367

00:13:13,670 --> 00:13:11,200

than most because

368

00:13:16,389 --> 00:13:13,680

you know most people find a way to you

369

00:13:18,470 --> 00:13:16,399

know translate and fly from point to

370

00:13:19,509 --> 00:13:18,480

point and and just be happy with it but

371

00:13:21,990 --> 00:13:19,519

for me

372

00:13:23,430 --> 00:13:22,000

every day i got to try something new so

373

00:13:26,150 --> 00:13:23,440

i would

374

00:13:27,430 --> 00:13:26,160

really suck at it and run into stuff and

375

00:13:30,150 --> 00:13:27,440

hit myself

376

00:13:31,750 --> 00:13:30,160

into things and and that wasn't good but

377

00:13:33,509 --> 00:13:31,760

then i'd get better

378

00:13:36,470 --> 00:13:33,519

and then i try something more or i try

379

00:13:40,230 --> 00:13:36,480

going faster and it was like this cycle

380

00:13:42,790 --> 00:13:40,240

so now i i'm doing pretty good but uh it

381

00:13:44,230 --> 00:13:42,800

was it was a long and bumpy road and

382

00:13:46,310 --> 00:13:44,240

don't ask peggy how many things that

383

00:13:48,629 --> 00:13:46,320

knocked off the wall

384

00:13:50,230 --> 00:13:48,639

oh i mean we talked a little bit earlier

385

00:13:52,870 --> 00:13:50,240

so you got peggy whitson up there the

386

00:13:53,829 --> 00:13:52,880

space ninja as you like to call her i

387

00:13:55,350 --> 00:13:53,839

mean

388

00:13:56,629 --> 00:13:55,360

are there any crazy moves that you've

389

00:14:01,990 --> 00:13:56,639

broken out that she's looked at you and

390

00:14:06,629 --> 00:14:04,870

my gosh so many times she has a patented

391

00:14:10,150 --> 00:14:06,639

look it's the

392

00:14:11,990 --> 00:14:10,160

two fish you are crazy look and i've i i

393

00:14:14,389 --> 00:14:12,000

pretty much got that down when i get the

394

00:14:16,470 --> 00:14:14,399

peggy wits and two fish your crazy look

395

00:14:19,509 --> 00:14:16,480

then i know okay

396

00:14:22,069 --> 00:14:19,519

that one i that one i gotta stop

397

00:14:23,590 --> 00:14:22,079

so i mean what have you learned i mean

398

00:14:25,269 --> 00:14:23,600

now you've been in space with peggy

399

00:14:27,269 --> 00:14:25,279

whitson for this long what have you

400

00:14:29,269 --> 00:14:27,279

learned from her that you sort of uh

401  
00:14:31,110 --> 00:14:29,279  
take with you and then you know i guess

402  
00:14:33,350 --> 00:14:31,120  
kind of off of that what have you

403  
00:14:39,430 --> 00:14:33,360  
learned that uh really sort of annoys

404  
00:14:43,670 --> 00:14:40,870  
well

405  
00:14:45,590 --> 00:14:43,680  
we we we're like two peas in a pod we we

406  
00:14:48,310 --> 00:14:45,600  
give each other a hard time all the time

407  
00:14:51,350 --> 00:14:48,320  
so uh we tease each other a bunch we

408  
00:14:53,590 --> 00:14:51,360  
have a good time but i'm very

409  
00:14:56,470 --> 00:14:53,600  
i i just can't even say how lucky i am

410  
00:14:58,629 --> 00:14:56,480  
to have been on orbit with not only

411  
00:15:01,110 --> 00:14:58,639  
peggy but also fiona yurchikhin my

412  
00:15:02,389 --> 00:15:01,120  
commander and and and friend in the in

413  
00:15:04,949 --> 00:15:02,399

the soyuz and the commander of the

414

00:15:07,430 --> 00:15:04,959

station now those two have so much

415

00:15:09,829 --> 00:15:07,440

experience that i learn

416

00:15:10,629 --> 00:15:09,839

everything from them they you know not

417

00:15:13,509 --> 00:15:10,639

just

418

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

the big stuff of how to organize your

419

00:15:17,670 --> 00:15:15,360

day and how to be efficient and those

420

00:15:20,150 --> 00:15:17,680

type of things but even the little stuff

421

00:15:23,670 --> 00:15:20,160

and i i every time they're around my

422

00:15:26,069 --> 00:15:23,680

eyes are wide open you know how is peggy

423

00:15:28,470 --> 00:15:26,079

cutting her food packet because it's

424

00:15:30,790 --> 00:15:28,480

probably the best way because she's done

425

00:15:32,710 --> 00:15:30,800

it quite a few times so

426

00:15:35,590 --> 00:15:32,720

you know how is fyodor holding his

427

00:15:37,910 --> 00:15:35,600

camera what what settings is he using

428

00:15:40,790 --> 00:15:37,920

for this task it it's

429

00:15:42,710 --> 00:15:40,800

to just watch them and just soak that in

430

00:15:44,949 --> 00:15:42,720

gosh i am so lucky to have been up here

431

00:15:48,230 --> 00:15:44,959

with these two and just

432

00:15:50,230 --> 00:15:48,240

soak in all their goodness and knowledge

433

00:15:51,990 --> 00:15:50,240

and you you've been working side by side

434

00:15:53,509 --> 00:15:52,000

with them for the last couple of months

435

00:15:54,870 --> 00:15:53,519

just walk us through real quick what's

436

00:15:56,470 --> 00:15:54,880

just you know some of the stuff you're

437

00:15:58,710 --> 00:15:56,480

doing up there because it's a lot more

438

00:16:00,629 --> 00:15:58,720

than just flying and stuff like that

439

00:16:03,910 --> 00:16:00,639

you're doing you know serious experiment

440

00:16:09,110 --> 00:16:06,870

oh absolutely the the space station is

441

00:16:10,389 --> 00:16:09,120

just the most amazing world-class

442

00:16:13,030 --> 00:16:10,399

laboratory

443

00:16:15,350 --> 00:16:13,040

floating around doing science all day

444

00:16:17,509 --> 00:16:15,360

every day we're doing science inside

445

00:16:20,629 --> 00:16:17,519

we're doing science outside let me turn

446

00:16:25,030 --> 00:16:22,790

i gotta we're getting an echo so i don't

447

00:16:25,829 --> 00:16:25,040

want you to hear me twice that's way too

448

00:16:29,110 --> 00:16:25,839

much

449

00:16:32,069 --> 00:16:29,120

so the the space station for example

450

00:16:35,269 --> 00:16:32,079

when spacex 11 came up it had six tons

451  
00:16:37,910 --> 00:16:35,279  
of science mostly science on board that

452  
00:16:40,150 --> 00:16:37,920  
then we had to bring on board knock out

453  
00:16:42,710 --> 00:16:40,160  
that science get it back on the spacex

454  
00:16:46,069 --> 00:16:42,720  
and back to earth that's the job of this

455  
00:16:48,710 --> 00:16:46,079  
place is just rocking the science uh

456  
00:16:51,910 --> 00:16:48,720  
we're doing not only stuff for human

457  
00:16:53,990 --> 00:16:51,920  
health and and those type of sciences

458  
00:16:56,310 --> 00:16:54,000  
there was a great experiment that

459  
00:16:59,189 --> 00:16:56,320  
peggy was working on the other day with

460  
00:17:01,110 --> 00:16:59,199  
a new drug that actually finds targets

461  
00:17:02,550 --> 00:17:01,120  
uh cancer cells we're growing lung

462  
00:17:05,510 --> 00:17:02,560  
cancer tissue

463  
00:17:08,150 --> 00:17:05,520

and it was doing some great work against

464

00:17:10,470 --> 00:17:08,160

the cancer how cool would that be if we

465

00:17:12,549 --> 00:17:10,480

could crack the code of that horrible

466

00:17:15,350 --> 00:17:12,559

disease that you know even my daughter

467

00:17:17,990 --> 00:17:15,360

uh phil pray to so

468

00:17:21,510 --> 00:17:18,000

not just those we're we're looking

469

00:17:24,390 --> 00:17:21,520

just 10 feet from me is a machine called

470

00:17:26,630 --> 00:17:24,400

the elf that's looking at new ways to

471

00:17:27,750 --> 00:17:26,640

create alloys that are lighter that are

472

00:17:30,070 --> 00:17:27,760

stronger

473

00:17:33,830 --> 00:17:30,080

i mean this whole place every square

474

00:17:35,510 --> 00:17:33,840

inch is dedicated to either pure science

475

00:17:37,350 --> 00:17:35,520

or the systems

476

00:17:38,870 --> 00:17:37,360

that are going to keep us

477

00:17:41,430 --> 00:17:38,880

and those science

478

00:17:44,230 --> 00:17:41,440

experiments cranking away and getting

479

00:17:47,190 --> 00:17:44,240

great results back to earth to to help

480

00:17:49,590 --> 00:17:47,200

humanity to make humanity better and to

481

00:17:51,270 --> 00:17:49,600

enable us to explore and go further into

482

00:17:53,669 --> 00:17:51,280

the universe

483

00:17:55,590 --> 00:17:53,679

that sounds incredible um i'm sure i

484

00:17:57,830 --> 00:17:55,600

mean besides all the science you have a

485

00:17:59,190 --> 00:17:57,840

lot of uh i guess i don't know about a

486

00:18:00,630 --> 00:17:59,200

lot of chances but you do have the

487

00:18:03,190 --> 00:18:00,640

chance to sort of look out the window

488

00:18:05,909 --> 00:18:03,200

and see the earth go by so we do have a

489

00:18:07,830 --> 00:18:05,919

facebook question from uh with saul how

490

00:18:09,190 --> 00:18:07,840

do we look from orbit i don't know if

491

00:18:10,310 --> 00:18:09,200

you're whenever you're taking pictures

492

00:18:12,549 --> 00:18:10,320

of the earth i don't know if you can

493

00:18:14,870 --> 00:18:12,559

zoom down and actually get so close that

494

00:18:18,870 --> 00:18:14,880

you can start to see people or are you

495

00:18:21,750 --> 00:18:20,630

well we're pretty far up if we had a

496

00:18:23,909 --> 00:18:21,760

bigger

497

00:18:25,909 --> 00:18:23,919

you know lens we could probably see it

498

00:18:27,029 --> 00:18:25,919

but the bigger the lens the smoother you

499

00:18:29,029 --> 00:18:27,039

have to be

500

00:18:30,710 --> 00:18:29,039

fyodor could probably do it i can't do

501  
00:18:32,549 --> 00:18:30,720  
it so the biggest

502  
00:18:35,830 --> 00:18:32,559  
that i've been using is an 800

503  
00:18:40,150 --> 00:18:35,840  
millimeter lens and we can get about two

504  
00:18:42,950 --> 00:18:40,160  
houses and see houses so that's about as

505  
00:18:45,270 --> 00:18:42,960  
fine detail is what we can see so we're

506  
00:18:46,210 --> 00:18:45,280  
not looking in your window and spying on

507  
00:18:47,590 --> 00:18:46,220  
you i promise

508  
00:18:49,190 --> 00:18:47,600  
[Laughter]

509  
00:18:51,029 --> 00:18:49,200  
well that's good to know but i'm sure i

510  
00:18:53,270 --> 00:18:51,039  
mean you see you're traveling so fast

511  
00:18:55,510 --> 00:18:53,280  
around the earth you get to see so much

512  
00:18:57,350 --> 00:18:55,520  
of it is there any sort of places on

513  
00:18:59,750 --> 00:18:57,360

earth that really stand out to you that

514

00:19:01,430 --> 00:18:59,760

you really like to either gaze at or

515

00:19:06,150 --> 00:19:01,440

kind of take pictures of because you see

516

00:19:09,350 --> 00:19:08,390

you bet there are places that you know

517

00:19:11,750 --> 00:19:09,360

kind of

518

00:19:14,070 --> 00:19:11,760

blew me away for sure the first time i

519

00:19:16,789 --> 00:19:14,080

saw him the bahamas are just the blue is

520

00:19:19,590 --> 00:19:16,799

just ridiculous i don't even know

521

00:19:22,070 --> 00:19:19,600

it's hard to believe it's real uh one of

522

00:19:24,630 --> 00:19:22,080

fyodor's favorite places is kamchatka

523

00:19:26,549 --> 00:19:24,640

which is kind of a little flange off the

524

00:19:28,789 --> 00:19:26,559

top end of russian there's all these

525

00:19:30,230 --> 00:19:28,799

great volcanoes that are just incredible

526  
00:19:33,350 --> 00:19:30,240  
looking

527  
00:19:35,510 --> 00:19:33,360  
so there's a lot of places that are

528  
00:19:37,350 --> 00:19:35,520  
wonderful but what i've

529  
00:19:39,990 --> 00:19:37,360  
really tried to do and it's probably why

530  
00:19:42,710 --> 00:19:40,000  
i don't have pictures of specific places

531  
00:19:43,510 --> 00:19:42,720  
like my hometown in colorado lewisville

532  
00:19:48,310 --> 00:19:43,520  
or

533  
00:19:49,669 --> 00:19:48,320  
i kind of go to the window and let god

534  
00:19:52,230 --> 00:19:49,679  
show me what

535  
00:19:54,390 --> 00:19:52,240  
show me the tour and i've never been

536  
00:19:56,950 --> 00:19:54,400  
disappointed um

537  
00:19:58,870 --> 00:19:56,960  
you could be flying over the sahara and

538  
00:20:01,750 --> 00:19:58,880

you'll see these

539

00:20:04,950 --> 00:20:01,760

bright reds and you know a mountain

540

00:20:07,029 --> 00:20:04,960

right next to sand or a sandstorm and

541

00:20:08,789 --> 00:20:07,039

then you'll be in the himalayas and

542

00:20:10,549 --> 00:20:08,799

you'll see these incredible mountains

543

00:20:13,029 --> 00:20:10,559

every time i look out the window i'm

544

00:20:13,990 --> 00:20:13,039

just in odd how beautiful the earth is

545

00:20:16,310 --> 00:20:14,000

so

546

00:20:17,830 --> 00:20:16,320

my favorite place

547

00:20:19,830 --> 00:20:17,840

earth

548

00:20:21,190 --> 00:20:19,840

oh good answer

549

00:20:23,110 --> 00:20:21,200

all right well

550

00:20:24,390 --> 00:20:23,120

your your acrobatics are making a lot of

551  
00:20:25,909 --> 00:20:24,400  
people jealous and we're actually

552  
00:20:27,750 --> 00:20:25,919  
getting a lot of questions about how to

553  
00:20:30,149 --> 00:20:27,760  
become an astronaut so i want to switch

554  
00:20:31,510 --> 00:20:30,159  
gears real quick so we've had a lot of

555  
00:20:33,990 --> 00:20:31,520  
news a lot of stuff out there we just

556  
00:20:35,270 --> 00:20:34,000  
hired a new group of astronauts or new

557  
00:20:37,350 --> 00:20:35,280  
astronaut candidates that are going to

558  
00:20:38,870 --> 00:20:37,360  
be reporting soon and one of my favorite

559  
00:20:40,549 --> 00:20:38,880  
things to talk to them about was when

560  
00:20:41,510 --> 00:20:40,559  
they got the call when they got the call

561  
00:20:43,190 --> 00:20:41,520  
that they were going to come be an

562  
00:20:45,350 --> 00:20:43,200  
astronaut but i don't know if you

563  
00:20:47,110 --> 00:20:45,360

remember but i was actually with you

564

00:20:48,870 --> 00:20:47,120

shortly after you got the call that you

565

00:20:51,190 --> 00:20:48,880

were got you had gotten assigned to a

566

00:20:53,029 --> 00:20:51,200

mission so i have to ask which one was

567

00:20:55,190 --> 00:20:53,039

more exciting you're going to be an

568

00:20:59,029 --> 00:20:55,200

astronaut or hey it's time to go fly in

569

00:21:03,270 --> 00:21:01,510

boy that's tough probably that you're

570

00:21:04,710 --> 00:21:03,280

gonna be an astronaut

571

00:21:06,870 --> 00:21:04,720

um

572

00:21:10,710 --> 00:21:06,880

not not because you take it for granted

573

00:21:12,310 --> 00:21:10,720

that you'll fly but it's just

574

00:21:13,830 --> 00:21:12,320

once you're an astronaut

575

00:21:15,110 --> 00:21:13,840

you got a real good chance that you're

576

00:21:17,510 --> 00:21:15,120

gonna fly

577

00:21:19,990 --> 00:21:17,520

um before that and to become an

578

00:21:21,990 --> 00:21:20,000

astronaut you know when people ask how

579

00:21:23,830 --> 00:21:22,000

do you become an astronaut well

580

00:21:25,590 --> 00:21:23,840

i'll give you the advice that that my

581

00:21:27,909 --> 00:21:25,600

dad gave me you know

582

00:21:30,950 --> 00:21:27,919

dare to dream so

583

00:21:33,990 --> 00:21:30,960

only you can define your own dream to

584

00:21:36,950 --> 00:21:34,000

find your passion the thing that really

585

00:21:38,870 --> 00:21:36,960

makes you go because once you find that

586

00:21:41,110 --> 00:21:38,880

you're gonna work hard at it

587

00:21:43,029 --> 00:21:41,120

and that's what the dare part is

588

00:21:45,190 --> 00:21:43,039

nobody's gonna give it to you you gotta

589

00:21:48,549 --> 00:21:45,200

work really hard

590

00:21:49,830 --> 00:21:48,559

to make that passion and that dream

591

00:21:51,110 --> 00:21:49,840

a reality

592

00:21:53,669 --> 00:21:51,120

but then

593

00:21:55,669 --> 00:21:53,679

there's one more part of it and to

594

00:21:58,710 --> 00:21:55,679

become an astronaut one of the biggest

595

00:22:02,549 --> 00:21:58,720

parts of it is just sheer luck

596

00:22:04,789 --> 00:22:02,559

timing and i am just lucky there are

597

00:22:07,270 --> 00:22:04,799

tons of people more qualified than me

598

00:22:09,430 --> 00:22:07,280

that are better than me in every single

599

00:22:11,830 --> 00:22:09,440

way but maybe

600

00:22:13,909 --> 00:22:11,840

that round of interviews they didn't

601  
00:22:17,110 --> 00:22:13,919  
apply or they weren't in the right place

602  
00:22:19,190 --> 00:22:17,120  
in their life uh that they could apply i

603  
00:22:21,669 --> 00:22:19,200  
just got lucky to be in the right place

604  
00:22:24,830 --> 00:22:21,679  
at the right time

605  
00:22:27,350 --> 00:22:24,840  
and and be a part of an incredible group

606  
00:22:29,190 --> 00:22:27,360  
so my advice for people who want to

607  
00:22:31,190 --> 00:22:29,200  
become an astronaut

608  
00:22:33,590 --> 00:22:31,200  
find your passion so that you never work

609  
00:22:35,110 --> 00:22:33,600  
a day in your life work really hard at

610  
00:22:36,630 --> 00:22:35,120  
it and then

611  
00:22:39,350 --> 00:22:36,640  
even if it doesn't work out because you

612  
00:22:41,270 --> 00:22:39,360  
weren't lucky at the right time to be

613  
00:22:43,350 --> 00:22:41,280

selected as an astronaut you're still

614

00:22:45,669 --> 00:22:43,360

doing what you love and you're making a

615

00:22:46,870 --> 00:22:45,679

big difference on this planet

616

00:22:48,710 --> 00:22:46,880

well jack i don't think you give

617

00:22:50,870 --> 00:22:48,720

yourself enough credit i think like

618

00:22:53,669 --> 00:22:50,880

you're an extremely hard worker and your

619

00:22:55,669 --> 00:22:53,679

passion is definitely reflected uh on

620

00:22:58,230 --> 00:22:55,679

everything that you do and especially us

621

00:23:00,149 --> 00:22:58,240

we really enjoy watching you on orbit um

622

00:23:01,830 --> 00:23:00,159

but you know for for folks who want to

623

00:23:03,990 --> 00:23:01,840

become an astronaut you can actually

624

00:23:05,909 --> 00:23:04,000

give them a sense of sort of what that

625

00:23:07,350 --> 00:23:05,919

feels like and i know there's a lot of

626

00:23:08,470 --> 00:23:07,360

you know there's a lot of hard work and

627

00:23:10,950 --> 00:23:08,480

a lot of different things you have to

628

00:23:13,190 --> 00:23:10,960

learn but there's also that element that

629

00:23:15,590 --> 00:23:13,200

human element of being in space of

630

00:23:18,070 --> 00:23:15,600

living in space so i have a question uh

631

00:23:19,990 --> 00:23:18,080

just about do you feel do you ever feel

632

00:23:21,830 --> 00:23:20,000

isolated do you ever feel away from

633

00:23:23,029 --> 00:23:21,840

things or are you sort of connected and

634

00:23:25,590 --> 00:23:23,039

then i have another question from

635

00:23:27,990 --> 00:23:25,600

facebook from kay asking uh if you have

636

00:23:31,110 --> 00:23:28,000

insomnia in space they're two sort of

637

00:23:35,830 --> 00:23:31,120

related questions not really but uh uh

638

00:23:38,950 --> 00:23:37,430

okay i'm gonna have to flip mid question

639

00:23:40,870 --> 00:23:38,960

because that's really two questions yeah

640

00:23:43,110 --> 00:23:40,880

so i'll do the first one quickly the

641

00:23:46,630 --> 00:23:43,120

insomnia one some people have a hard

642

00:23:48,310 --> 00:23:46,640

time sleeping in space i don't my back

643

00:23:50,070 --> 00:23:48,320

usually kind of hurts on the ground

644

00:23:53,590 --> 00:23:50,080

because i've been flying fighters for

645

00:23:55,750 --> 00:23:53,600

too long uh but up here i feel great so

646

00:23:57,909 --> 00:23:55,760

it's like sleeping on an air bed because

647

00:24:00,230 --> 00:23:57,919

well i'm floating on air so that's

648

00:24:01,110 --> 00:24:00,240

awesome okay now i gotta flip

649

00:24:04,470 --> 00:24:01,120

uh

650

00:24:06,470 --> 00:24:04,480

isolated you do feel a bit

651

00:24:09,350 --> 00:24:06,480

not because there's not connectivity

652

00:24:11,269 --> 00:24:09,360

with the ground um we can call via an

653

00:24:13,990 --> 00:24:11,279

internet protocol phone

654

00:24:16,230 --> 00:24:14,000

as well as video chat sometimes and then

655

00:24:17,430 --> 00:24:16,240

we're in constant communication with the

656

00:24:20,149 --> 00:24:17,440

ground

657

00:24:23,510 --> 00:24:20,159

all throughout the day as far as feeling

658

00:24:25,669 --> 00:24:23,520

isolated sometimes you feel because

659

00:24:28,310 --> 00:24:25,679

everything you're doing is being watched

660

00:24:30,310 --> 00:24:28,320

and i'm not talking about a podcast or

661

00:24:31,350 --> 00:24:30,320

posting on twitter or any of those type

662

00:24:34,870 --> 00:24:31,360

of things

663

00:24:37,110 --> 00:24:34,880

everything we do as we're doing science

664

00:24:39,830 --> 00:24:37,120

and as we're doing activities is being

665

00:24:42,230 --> 00:24:39,840

watched by the control centers worldwide

666

00:24:43,350 --> 00:24:42,240

that are keeping this place running and

667

00:24:45,510 --> 00:24:43,360

so

668

00:24:47,510 --> 00:24:45,520

you can kind of feel like my gosh

669

00:24:50,549 --> 00:24:47,520

because you're gonna make mistakes you

670

00:24:52,950 --> 00:24:50,559

can't go for six months doing you know

671

00:24:54,950 --> 00:24:52,960

12 hours a day and not make mistakes

672

00:24:56,789 --> 00:24:54,960

you're gonna make mistakes

673

00:24:58,470 --> 00:24:56,799

and sometimes you feel like man

674

00:25:01,029 --> 00:24:58,480

everybody is seeing everything that i'm

675

00:25:03,510 --> 00:25:01,039

doing wrong like you have a bad day

676  
00:25:06,149 --> 00:25:03,520  
that's when i break into my emergency

677  
00:25:08,630 --> 00:25:06,159  
coffee store and uh and get another

678  
00:25:11,990 --> 00:25:08,640  
coffee pouch out so i can have some

679  
00:25:13,830 --> 00:25:12,000  
coffee and then things get better

680  
00:25:15,430 --> 00:25:13,840  
all right we only got a couple of

681  
00:25:16,870 --> 00:25:15,440  
minutes left so it's it's time to get

682  
00:25:19,190 --> 00:25:16,880  
into some of the deep stuff some of the

683  
00:25:21,830 --> 00:25:19,200  
deep cuts here so you've been up there

684  
00:25:24,390 --> 00:25:21,840  
for a couple of months has just your

685  
00:25:26,630 --> 00:25:24,400  
perspective about everything about life

686  
00:25:28,470 --> 00:25:26,640  
on earth about you know life in general

687  
00:25:30,470 --> 00:25:28,480  
about your job about all that has been

688  
00:25:35,350 --> 00:25:30,480

in space change that like do you have

689

00:25:39,909 --> 00:25:38,070

you know you do because you get to see

690

00:25:42,630 --> 00:25:39,919

the world in this totally different

691

00:25:44,390 --> 00:25:42,640

light this world without borders you

692

00:25:46,390 --> 00:25:44,400

know one shared experience for everybody

693

00:25:49,350 --> 00:25:46,400

in the the beauty and the

694

00:25:52,630 --> 00:25:49,360

just that thin blue line that that is so

695

00:25:54,870 --> 00:25:52,640

frail that holds all life you just

696

00:25:57,590 --> 00:25:54,880

your perspective has to grow and adapt

697

00:25:59,750 --> 00:25:57,600

and change to that but like i mentioned

698

00:26:02,070 --> 00:25:59,760

earlier how quickly your brain

699

00:26:04,789 --> 00:26:02,080

adapts and grows i think that

700

00:26:05,990 --> 00:26:04,799

perspective helps you grow as well and

701  
00:26:08,630 --> 00:26:06,000  
that's why

702  
00:26:10,950 --> 00:26:08,640  
after this experience

703  
00:26:13,830 --> 00:26:10,960  
yes my perspective has changed but it it

704  
00:26:15,350 --> 00:26:13,840  
has really inspired me to try

705  
00:26:22,149 --> 00:26:15,360  
to get

706  
00:26:24,710 --> 00:26:22,159  
permanent foothold in the stars for for

707  
00:26:28,870 --> 00:26:24,720  
our species i think we're on the verge

708  
00:26:30,470 --> 00:26:28,880  
of that and with orion and sls our new

709  
00:26:33,269 --> 00:26:30,480  
huge rocket

710  
00:26:35,590 --> 00:26:33,279  
we're taking steps towards that as well

711  
00:26:37,269 --> 00:26:35,600  
as a commercial industry a burgeoning

712  
00:26:38,390 --> 00:26:37,279  
commercial industry that's building the

713  
00:26:40,549 --> 00:26:38,400

infrastructure

714

00:26:41,350 --> 00:26:40,559

for us to press further into the galaxy

715

00:26:44,710 --> 00:26:41,360

so

716

00:26:47,590 --> 00:26:44,720

i i'm my perspective change is that i

717

00:26:48,789 --> 00:26:47,600

want to do everything i possibly can to

718

00:26:52,549 --> 00:26:48,799

help

719

00:26:55,510 --> 00:26:52,559

the human species humanity as a whole go

720

00:26:56,950 --> 00:26:55,520

further and grow and evolve like i know

721

00:26:59,110 --> 00:26:56,960

they're capable of

722

00:27:01,430 --> 00:26:59,120

amazing that's it's just such an

723

00:27:02,950 --> 00:27:01,440

incredible perspective i mean just i

724

00:27:04,789 --> 00:27:02,960

mean looking down and you know just

725

00:27:07,029 --> 00:27:04,799

realizing kind of what we can accomplish

726

00:27:09,029 --> 00:27:07,039

it's it's kind of amazing but

727

00:27:11,909 --> 00:27:09,039

i guess from there do you ever do you

728

00:27:14,390 --> 00:27:11,919

ever sort of miss earth or uh maybe even

729

00:27:18,950 --> 00:27:14,400

i guess here's a question from geraldine

730

00:27:22,389 --> 00:27:20,470

oh sometimes

731

00:27:25,909 --> 00:27:22,399

the other day i was doing a

732

00:27:27,830 --> 00:27:25,919

task and and my wrench like pops off the

733

00:27:30,149 --> 00:27:27,840

bolt and it goes

734

00:27:32,070 --> 00:27:30,159

flying off and i'm like oh no big deal

735

00:27:34,870 --> 00:27:32,080

to hit the wall come back to me and i

736

00:27:37,830 --> 00:27:34,880

look over and there's this gap above the

737

00:27:39,990 --> 00:27:37,840

rack and it's like it's like an inch

738

00:27:42,310 --> 00:27:40,000

and that wrench decided oh i'm gonna

739

00:27:44,789 --> 00:27:42,320

turn so i'm perfectly in line with that

740

00:27:47,510 --> 00:27:44,799

gap and it went floating inside and then

741

00:27:49,510 --> 00:27:47,520

it was behind the rack and lost forever

742

00:27:51,750 --> 00:27:49,520

probably in like two years somebody's

743

00:27:53,269 --> 00:27:51,760

gonna be cleaning an air vent and go oh

744

00:27:55,029 --> 00:27:53,279

hey look a wrench i wonder where that

745

00:27:57,029 --> 00:27:55,039

came from so

746

00:27:58,389 --> 00:27:57,039

there are sometimes you really miss

747

00:28:03,350 --> 00:27:58,399

gravity but

748

00:28:04,870 --> 00:28:03,360

about 99.9 of the time you don't

749

00:28:06,789 --> 00:28:04,880

all right well i mean first off i just

750

00:28:08,149 --> 00:28:06,799

want to say i fully support your new

751

00:28:09,909 --> 00:28:08,159

perspective because i want to go to

752

00:28:11,269 --> 00:28:09,919

space so jack do everything you can to

753

00:28:12,470 --> 00:28:11,279

get me up there

754

00:28:14,070 --> 00:28:12,480

um

755

00:28:15,190 --> 00:28:14,080

so you're getting close to coming home

756

00:28:17,350 --> 00:28:15,200

you're coming home the beginning of

757

00:28:18,630 --> 00:28:17,360

september is there anything left on the

758

00:28:20,310 --> 00:28:18,640

list that you want to do while you're up

759

00:28:24,549 --> 00:28:20,320

there is there like a space bucket list

760

00:28:28,870 --> 00:28:26,789

there is and there's it's such a huge

761

00:28:30,630 --> 00:28:28,880

list you can kind of get overwhelmed by

762

00:28:31,750 --> 00:28:30,640

it you know i want to picture this or

763

00:28:33,909 --> 00:28:31,760

that or

764

00:28:36,710 --> 00:28:33,919

you know

765

00:28:38,149 --> 00:28:36,720

i i i made a list and i said i'm not

766

00:28:40,710 --> 00:28:38,159

going to add anything else to it so i'm

767

00:28:43,350 --> 00:28:40,720

almost through it uh as far as the stuff

768

00:28:45,590 --> 00:28:43,360

i want to take pictures of or record or

769

00:28:48,310 --> 00:28:45,600

or grab and and

770

00:28:49,350 --> 00:28:48,320

and then i'm going to take all my spare

771

00:28:52,950 --> 00:28:49,360

time

772

00:28:55,669 --> 00:28:52,960

and and just go down and grab a window

773

00:28:58,470 --> 00:28:55,679

or whatever and sit there and soak it up

774

00:29:01,110 --> 00:28:58,480

and just enjoy it and and and take a

775

00:29:02,549 --> 00:29:01,120

mental image so that i can fuel that

776

00:29:05,510 --> 00:29:02,559

passion and

777

00:29:08,070 --> 00:29:05,520

when i come back to try to talk to

778

00:29:10,549 --> 00:29:08,080

people and get them excited about space

779

00:29:13,269 --> 00:29:10,559

it it's there's a there's a big old well

780

00:29:15,510 --> 00:29:13,279

of passion inside me because i i just

781

00:29:17,830 --> 00:29:15,520

sat there and and plugged in to the

782

00:29:20,630 --> 00:29:17,840

inspiration bar in the cupola

783

00:29:22,710 --> 00:29:20,640

you look out especially not just down at

784

00:29:24,070 --> 00:29:22,720

earth but out towards the stars and it

785

00:29:27,190 --> 00:29:24,080

can't help but

786

00:29:28,710 --> 00:29:27,200

make you so excited that there's

787

00:29:31,269 --> 00:29:28,720

something else out there that we're

788

00:29:32,149 --> 00:29:31,279

gonna go and explore and and

789

00:29:33,909 --> 00:29:32,159

uh

790

00:29:36,710 --> 00:29:33,919

i can't wait

791

00:29:39,029 --> 00:29:36,720

wow just jack this has been such an

792

00:29:41,350 --> 00:29:39,039

incredible few minutes uh with you thank

793

00:29:43,110 --> 00:29:41,360

you so much for actually taking the time

794

00:29:45,510 --> 00:29:43,120

to talk with us and to answer some

795

00:29:47,750 --> 00:29:45,520

questions from facebook live and to to

796

00:29:49,430 --> 00:29:47,760

spend this time with us honestly this is

797

00:29:51,750 --> 00:29:49,440

one of the best experiences of my life

798

00:29:54,070 --> 00:29:51,760

if i had to pin it into a phrase and

799

00:29:56,630 --> 00:29:54,080

this is just off the top of my head i'd

800

00:29:58,950 --> 00:29:56,640

pin it as something like a triple decker

801  
00:30:00,870 --> 00:29:58,960  
fully loaded burger of awesome between

802  
00:30:02,710 --> 00:30:00,880  
two perfectly toasted awesome buns

803  
00:30:04,389 --> 00:30:02,720  
nailed it that's uh it's just off the

804  
00:30:06,149 --> 00:30:04,399  
top of my head but again thank you so

805  
00:30:08,070 --> 00:30:06,159  
much for spending this time with me and

806  
00:30:11,510 --> 00:30:08,080  
uh and uh best of luck to you on the

807  
00:30:15,029 --> 00:30:13,029  
well thanks a lot i'll try to say

808  
00:30:17,190 --> 00:30:15,039  
goodbye while i'm spinning if i run into

809  
00:30:19,269 --> 00:30:17,200  
something you can laugh but thank you

810  
00:30:21,830 --> 00:30:19,279  
for letting me be a part of this and i

811  
00:30:23,110 --> 00:30:21,840  
hope everybody that's in the the podcast

812  
00:30:25,110 --> 00:30:23,120  
universe

813  
00:30:27,269 --> 00:30:25,120

had a great time please

814

00:30:30,310 --> 00:30:27,279

if you if you get excited about space

815

00:30:31,990 --> 00:30:30,320

nasa.com we have so many resources so

816

00:30:33,909 --> 00:30:32,000

many ways that you can get engaged

817

00:30:36,470 --> 00:30:33,919

whether you're a teacher a student just

818

00:30:37,830 --> 00:30:36,480

a guy on the street uh please check it

819

00:30:39,590 --> 00:30:37,840

out

820

00:30:42,310 --> 00:30:39,600

wow

821

00:30:45,510 --> 00:30:42,320

so station this is houston acr that

822

00:30:54,470 --> 00:30:48,070

thank you all participants with jscpao

823

00:30:54,480 --> 00:30:57,909

all right

824

00:31:01,909 --> 00:30:59,669

so we just talked to somebody in space

825

00:31:03,590 --> 00:31:01,919

that was really cool it was really cool

826

00:31:05,750 --> 00:31:03,600

how cool is that

827

00:31:07,669 --> 00:31:05,760

wow i just i i really just appreciate

828

00:31:09,509 --> 00:31:07,679

his energy you know the just the life

829

00:31:11,430 --> 00:31:09,519

that he has it's not just like a

830

00:31:13,990 --> 00:31:11,440

conversation this is what i'm doing he's

831

00:31:15,750 --> 00:31:14,000

he's he's truly passionate about being

832

00:31:17,269 --> 00:31:15,760

in space and and

833

00:31:18,870 --> 00:31:17,279

pressing forward on nasa's mission it

834

00:31:20,710 --> 00:31:18,880

totally comes across as everything is

835

00:31:22,630 --> 00:31:20,720

it's just it's still surreal because i

836

00:31:24,470 --> 00:31:22,640

mean we're for everybody watching you

837

00:31:26,310 --> 00:31:24,480

can see we're we were looking at jack on

838

00:31:27,990 --> 00:31:26,320

the tv i mean it looks like he's five

839

00:31:29,430 --> 00:31:28,000

feet away from us when in reality he's

840

00:31:31,830 --> 00:31:29,440

probably on the other side of the planet

841

00:31:34,470 --> 00:31:31,840

right now flying around like here we are

842

00:31:36,630 --> 00:31:34,480

talking to him so i it's it's so cool

843

00:31:38,389 --> 00:31:36,640

and way to nail that closing

844

00:31:41,909 --> 00:31:38,399

wait and nailed the goodbye gary it was

845

00:31:44,470 --> 00:31:41,919

just off the top of me just the top here

846

00:31:46,630 --> 00:31:44,480

awesome well honestly you can uh so so

847

00:31:48,950 --> 00:31:46,640

everything honestly jack is is a really

848

00:31:51,430 --> 00:31:48,960

cool person to follow on social media if

849

00:31:53,549 --> 00:31:51,440

you ever go on facebook twitter or

850

00:31:55,590 --> 00:31:53,559

instagram which you should follow at

851  
00:31:57,669 --> 00:31:55,600  
astro2fish that's his that's his handle

852  
00:31:59,269 --> 00:31:57,679  
right he shares all these different

853  
00:32:00,950 --> 00:31:59,279  
photos of what he's doing all the

854  
00:32:03,110 --> 00:32:00,960  
experiments he's doing

855  
00:32:04,789 --> 00:32:03,120  
photos of earth and he's uh he's just

856  
00:32:06,870 --> 00:32:04,799  
super engaged in the mission you can see

857  
00:32:08,310 --> 00:32:06,880  
everything he's doing there uh really an

858  
00:32:09,509 --> 00:32:08,320  
incredible thing to follow if you just

859  
00:32:10,870 --> 00:32:09,519  
want to follow everything on the

860  
00:32:14,230 --> 00:32:10,880  
international space station we have

861  
00:32:15,830 --> 00:32:14,240  
those two at iss i think is yeah

862  
00:32:17,990 --> 00:32:15,840  
there's a whole bunch of different sites

863  
00:32:19,830 --> 00:32:18,000

you can follow as he said it's nasa.gov

864

00:32:20,870 --> 00:32:19,840

for pretty much everything nasa's doing

865

00:32:24,389 --> 00:32:20,880

if you're interested in the space

866

00:32:26,549 --> 00:32:24,399

station it's nasa.gov iss we're all

867

00:32:28,310 --> 00:32:26,559

across social media facebook twitter and

868

00:32:30,230 --> 00:32:28,320

instagram those names are all a little

869

00:32:32,149 --> 00:32:30,240

bit different but it's all related to

870

00:32:33,909 --> 00:32:32,159

the space station and we always like to

871

00:32:36,389 --> 00:32:33,919

get questions on everything so use

872

00:32:38,549 --> 00:32:36,399

hashtag ask nasa and we'll get as to as

873

00:32:40,830 --> 00:32:38,559

many as we can and since i don't want to

874

00:32:43,590 --> 00:32:40,840

make to make gary do his own shameless

875

00:32:45,269 --> 00:32:43,600

plug we have a podcast it's incredible

876

00:32:47,350 --> 00:32:45,279

if you're ever wanting to go behind the

877

00:32:49,509 --> 00:32:47,360

scenes with the people that make human

878

00:32:51,110 --> 00:32:49,519

space flight happen that's where you get

879

00:32:53,269 --> 00:32:51,120

it you get the deep dives you get the

880

00:32:55,110 --> 00:32:53,279

experts you get the full thing and i

881

00:32:57,269 --> 00:32:55,120

occasionally get to come in and do fun

882

00:32:59,430 --> 00:32:57,279

stuff like this so it's true we've

883

00:33:03,669 --> 00:32:59,440

talked to some really cool people so far

884

00:33:05,269 --> 00:33:03,679

you being uh one of them of course dan

885

00:33:08,470 --> 00:33:05,279

but we have talked to three astronauts

886

00:33:10,149 --> 00:33:08,480

so far uh we have just you know jack

887

00:33:12,230 --> 00:33:10,159

fisher today but also randy bresnik

888

00:33:13,909 --> 00:33:12,240

who's up in space right now and uh we

889

00:33:15,590 --> 00:33:13,919

also got to talk to shane kimbrough like

890

00:33:17,110 --> 00:33:15,600

two days after he landed and he gave

891

00:33:18,789 --> 00:33:17,120

that whole experience but then we talk

892

00:33:20,630 --> 00:33:18,799

about the science we talk about space

893

00:33:22,149 --> 00:33:20,640

food we got a lot more cool episodes

894

00:33:24,230 --> 00:33:22,159

coming up so stay tuned you can find all

895

00:33:25,750 --> 00:33:24,240

those on itunes soundcloud and nasa.gov

896

00:33:27,509 --> 00:33:25,760

like dan said

897

00:33:29,190 --> 00:33:27,519

so i think that's going to wrap up

898

00:33:30,630 --> 00:33:29,200

unless there's any more questions well

899

00:33:32,310 --> 00:33:30,640

i'm sure there's a lot of questions but

900

00:33:34,870 --> 00:33:32,320

uh we'll save those for actually you

901  
00:33:37,350 --> 00:33:34,880  
could tweet at astro2fish he might uh he

902  
00:33:38,710 --> 00:33:37,360  
might answer a couple of those for you

903  
00:33:40,149 --> 00:33:38,720  
awesome well thank you so much for

904  
00:33:42,470 --> 00:33:40,159  
tuning in today for the first live

905  
00:33:44,149 --> 00:33:42,480  
recording of houston we have a podcast

906  
00:33:45,909 --> 00:33:44,159  
uh that'll do it for us here and hope

907  
00:33:47,509 --> 00:33:45,919  
you uh keep listening to us in the

908  
00:33:48,630 --> 00:33:47,519  
future if you have any suggestions on

909  
00:33:51,110 --> 00:33:48,640  
what we should put on the show put in

910  
00:33:59,660 --> 00:33:51,120  
the comments or use the hashtag asknasa