



1  
00:00:07,110 --> 00:00:03,590  
station this is houston are you ready

2  
00:00:12,230 --> 00:00:10,310  
i am ready for the event

3  
00:00:18,710 --> 00:00:12,240  
abc this is mission control houston

4  
00:00:18,720 --> 00:00:23,509  
station this is abc how do you hear me

5  
00:00:32,150 --> 00:00:25,109  
i hear you loud and clear welcome aboard

6  
00:00:37,670 --> 00:00:34,950  
thank you very much

7  
00:00:39,990 --> 00:00:37,680  
and commander scott kelly joins us now

8  
00:00:41,670 --> 00:00:40,000  
from the international space station

9  
00:00:43,910 --> 00:00:41,680  
commander kelly i get to talk to people

10  
00:00:46,790 --> 00:00:43,920  
from all over the globe in this job but

11  
00:00:49,510 --> 00:00:46,800  
i've never interviewed anyone who is 250

12  
00:00:52,069 --> 00:00:49,520  
miles above earth you have really amazed

13  
00:00:54,470 --> 00:00:52,079

us with your instagram photographs but i

14

00:00:56,389 --> 00:00:54,480

want you to put into words what it's

15

00:01:01,750 --> 00:00:56,399

like up there you're the only american

16

00:01:04,950 --> 00:01:02,630

well

17

00:01:07,830 --> 00:01:04,960

you know i'm the longest uh

18

00:01:09,350 --> 00:01:07,840

serving u.s astronaut on the on the

19

00:01:10,789 --> 00:01:09,360

space station we've had other you know

20

00:01:13,109 --> 00:01:10,799

we've had many other crew members up

21

00:01:15,190 --> 00:01:13,119

here but you know i've been

22

00:01:17,270 --> 00:01:15,200

you know fortunate enough i guess to to

23

00:01:19,830 --> 00:01:17,280

be the longest person to spend time on

24

00:01:20,630 --> 00:01:19,840

this incredible space station and it's

25

00:01:22,630 --> 00:01:20,640

uh

26

00:01:25,030 --> 00:01:22,640

you know i would say it's a privilege

27

00:01:27,910 --> 00:01:25,040

to do this to do this job a year

28

00:01:31,109 --> 00:01:27,920

is a really long time and

29

00:01:38,390 --> 00:01:31,119

but i'm i'm doing okay and i have about

30

00:01:43,749 --> 00:01:41,670

and and tell us your most memorable

31

00:01:45,590 --> 00:01:43,759

period while you've been up there that

32

00:01:47,749 --> 00:01:45,600

your your photographs are truly

33

00:01:50,069 --> 00:01:47,759

extraordinary but is there any one day

34

00:01:55,510 --> 00:01:50,079

any one week that really stands out from

35

00:01:59,350 --> 00:01:56,789

you know i've

36

00:02:01,030 --> 00:01:59,360

been somewhat fortunate that we've had a

37

00:02:03,910 --> 00:02:01,040

lot of uh

38

00:02:08,150 --> 00:02:03,920

uh you know interesting things going on

39

00:02:10,389 --> 00:02:08,160

uh the science that we do um visiting

40

00:02:13,430 --> 00:02:10,399

vehicles a lot of crew members have have

41

00:02:14,869 --> 00:02:13,440

come and go gone while i've been here

42

00:02:16,070 --> 00:02:14,879

um but

43

00:02:18,630 --> 00:02:16,080

for me

44

00:02:20,869 --> 00:02:18,640

having never done a spacewalk before

45

00:02:22,550 --> 00:02:20,879

uh this flight i was able to do three of

46

00:02:25,030 --> 00:02:22,560

those um

47

00:02:27,190 --> 00:02:25,040

in october november and december the

48

00:02:29,910 --> 00:02:27,200

last one being one that we we put

49

00:02:31,350 --> 00:02:29,920

together in uh within like about five or

50

00:02:32,869 --> 00:02:31,360

six days

51  
00:02:35,350 --> 00:02:32,879  
uh because it was a surprise we had to

52  
00:02:36,390 --> 00:02:35,360  
go outside and fix something and so for

53  
00:02:39,110 --> 00:02:36,400  
me

54  
00:02:41,750 --> 00:02:39,120  
having never done that before that is uh

55  
00:02:43,030 --> 00:02:41,760  
you know really a pretty significant

56  
00:02:45,350 --> 00:02:43,040  
memorable

57  
00:02:47,350 --> 00:02:45,360  
event uh being outside this space

58  
00:02:49,190 --> 00:02:47,360  
station and the uh

59  
00:02:50,790 --> 00:02:49,200  
you know just the difficulty of of

60  
00:02:53,350 --> 00:02:50,800  
working

61  
00:02:55,430 --> 00:02:53,360  
in the suit and uh doing a space walk in

62  
00:02:57,910 --> 00:02:55,440  
the complexity of it and also the the

63  
00:02:59,509 --> 00:02:57,920

view of the earth from outside is even

64

00:03:05,190 --> 00:02:59,519

more incredible than it is from inside

65

00:03:09,990 --> 00:03:07,350

can you explain things that we'll never

66

00:03:11,830 --> 00:03:10,000

know and that is and that is smells or

67

00:03:13,670 --> 00:03:11,840

what it's like to touch something in

68

00:03:18,869 --> 00:03:13,680

space particularly the smell when you're

69

00:03:24,470 --> 00:03:20,710

well the um

70

00:03:26,149 --> 00:03:24,480

in the space suit you're in a very uh

71

00:03:27,430 --> 00:03:26,159

enclosed environment it's actually a

72

00:03:29,350 --> 00:03:27,440

very stiff

73

00:03:31,589 --> 00:03:29,360

uh suit um

74

00:03:34,390 --> 00:03:31,599

it's uh not as stiff as the russian

75

00:03:37,110 --> 00:03:34,400

spacesuit but is still pretty stiff uh

76  
00:03:39,910 --> 00:03:37,120  
because it provides uh a pressure vessel

77  
00:03:41,350 --> 00:03:39,920  
so uh you don't get the bends or

78  
00:03:43,430 --> 00:03:41,360  
you know if you were

79  
00:03:46,229 --> 00:03:43,440  
exposed in the vacuum of space it would

80  
00:03:48,309 --> 00:03:46,239  
be uh you know pretty catastrophic to

81  
00:03:50,789 --> 00:03:48,319  
you but it uh you know provides you

82  
00:03:51,750 --> 00:03:50,799  
oxygen scrubs carbon dioxide keeps you

83  
00:03:56,470 --> 00:03:51,760  
uh

84  
00:03:59,030 --> 00:03:56,480  
debris protection so it's kind of like

85  
00:04:01,830 --> 00:03:59,040  
its own little little spaceship there's

86  
00:04:03,670 --> 00:04:01,840  
a lot of fan noise in there there's uh

87  
00:04:05,750 --> 00:04:03,680  
you know air that you feel blowing over

88  
00:04:06,630 --> 00:04:05,760

your your your face

89

00:04:08,309 --> 00:04:06,640

but

90

00:04:10,470 --> 00:04:08,319

i don't think inside the suit is that it

91

00:04:12,550 --> 00:04:10,480

has any particular smell for instance

92

00:04:14,470 --> 00:04:12,560

like you asked but certainly when you

93

00:04:17,430 --> 00:04:14,480

come back from a

94

00:04:19,830 --> 00:04:17,440

a spacewalk and you re-pressurize the

95

00:04:21,430 --> 00:04:19,840

airlock and then once you you take the

96

00:04:23,990 --> 00:04:21,440

suit off and this is the same case when

97

00:04:25,749 --> 00:04:24,000

we have a visiting vehicle and uh you

98

00:04:28,310 --> 00:04:25,759

know the space between the space station

99

00:04:30,469 --> 00:04:28,320

and the visiting vehicle was recently

100

00:04:31,990 --> 00:04:30,479

exposed to vacuum that does have a very

101  
00:04:35,510 --> 00:04:32,000  
distinct smell

102  
00:04:36,550 --> 00:04:35,520  
and uh i think you know people uh

103  
00:04:38,550 --> 00:04:36,560  
you know

104  
00:04:39,909 --> 00:04:38,560  
i think most people feel about it kind

105  
00:04:41,510 --> 00:04:39,919  
of the way i do some people have a

106  
00:04:43,270 --> 00:04:41,520  
different opinion about it but to me it

107  
00:04:45,830 --> 00:04:43,280  
smells like what i would imagine like

108  
00:04:47,909 --> 00:04:45,840  
burning metal to smell like is is kind

109  
00:04:51,909 --> 00:04:47,919  
of how i describe it

110  
00:05:03,830 --> 00:04:54,790  
and can you demonstrate microgravity for

111  
00:05:03,840 --> 00:05:09,350  
how's that

112  
00:05:13,749 --> 00:05:11,670  
i love it i love it how do you sleep

113  
00:05:15,350 --> 00:05:13,759

without gravity i i would think because

114

00:05:17,350 --> 00:05:15,360

your shoulders kind of come up i see you

115

00:05:18,790 --> 00:05:17,360

there holding your holding your arms

116

00:05:20,629 --> 00:05:18,800

together is is

117

00:05:23,590 --> 00:05:20,639

that how you sleep it must be so

118

00:05:28,070 --> 00:05:26,150

you know i don't you know people

119

00:05:29,590 --> 00:05:28,080

you know wonder why i cross my arms all

120

00:05:31,510 --> 00:05:29,600

the time up here for me it's just not

121

00:05:34,469 --> 00:05:31,520

comfortable like this it feels like very

122

00:05:36,550 --> 00:05:34,479

awkward but this is like the the neutral

123

00:05:39,749 --> 00:05:36,560

positions for your arms

124

00:05:41,430 --> 00:05:39,759

and uh so i actually when i sleep i

125

00:05:43,350 --> 00:05:41,440

don't even sleep like this i actually

126

00:05:45,350 --> 00:05:43,360

stick our sleeping bag has kind of a

127

00:05:46,710 --> 00:05:45,360

hood on and i stick my hands kind of

128

00:05:53,029 --> 00:05:46,720

above my head

129

00:05:55,990 --> 00:05:53,039

um but sleeping here for me is not as

130

00:05:57,430 --> 00:05:56,000

nice as as on earth for for a number of

131

00:06:00,390 --> 00:05:57,440

reasons

132

00:06:03,350 --> 00:06:00,400

um you know you don't have a your head's

133

00:06:05,749 --> 00:06:03,360

not on a soft pillow that you're not you

134

00:06:08,230 --> 00:06:05,759

know surrounded by sheets in a in a

135

00:06:10,950 --> 00:06:08,240

comfortable blanket perhaps

136

00:06:13,110 --> 00:06:10,960

but uh you know most importantly

137

00:06:15,270 --> 00:06:13,120

i think it's it's more difficult and

138

00:06:18,150 --> 00:06:15,280

challenging to sleep here because the

139

00:06:20,469 --> 00:06:18,160

position i'm in right now is the same

140

00:06:22,629 --> 00:06:20,479

exact position i'm going to be in when i

141

00:06:25,110 --> 00:06:22,639

go to sleep so there is no

142

00:06:29,430 --> 00:06:25,120

change in the you know level of

143

00:06:30,390 --> 00:06:29,440

relaxation or comfort you experience

144

00:06:32,390 --> 00:06:30,400

here

145

00:06:34,390 --> 00:06:32,400

like you do on earth when you lie down

146

00:06:36,870 --> 00:06:34,400

in your bed and it's time to go to sleep

147

00:06:39,830 --> 00:06:36,880

it's uh you know it's the same position

148

00:06:41,749 --> 00:06:39,840

whether i'm working talking to you or

149

00:06:43,909 --> 00:06:41,759

sleeping it's the same kind of comfort

150

00:06:49,990 --> 00:06:43,919

levels which makes it for me

151  
00:06:54,950 --> 00:06:52,230  
okay we know your brother your identical

152  
00:06:57,990 --> 00:06:54,960  
twin brother mark kelly former astronaut

153  
00:06:59,749 --> 00:06:58,000  
is is sleeping comfortably here on earth

154  
00:07:02,309 --> 00:06:59,759  
but that's part of what's happening here

155  
00:07:05,909 --> 00:07:02,319  
they're studying you as identical twins

156  
00:07:06,950 --> 00:07:05,919  
one on earth one in space and that leads

157  
00:07:08,950 --> 00:07:06,960  
for you

158  
00:07:15,029 --> 00:07:08,960  
you hope not just you particularly but

159  
00:07:19,270 --> 00:07:16,790  
yeah so we like i said you know we do a

160  
00:07:22,150 --> 00:07:19,280  
lot of science up here and uh one of the

161  
00:07:24,309 --> 00:07:22,160  
the research areas is

162  
00:07:25,990 --> 00:07:24,319  
is exploration based you know what what

163  
00:07:26,790 --> 00:07:26,000

do we need to learn

164

00:07:28,309 --> 00:07:26,800

uh

165

00:07:30,550 --> 00:07:28,319

both about our own

166

00:07:32,710 --> 00:07:30,560

human physiology but also about the

167

00:07:34,390 --> 00:07:32,720

hardware the the systems that are going

168

00:07:37,589 --> 00:07:34,400

to keep us alive

169

00:07:40,070 --> 00:07:37,599

to go uh further away from earth uh

170

00:07:42,710 --> 00:07:40,080

beyond low earth orbit you know tomorrow

171

00:07:44,230 --> 00:07:42,720

for mars being you know one of the uh

172

00:07:47,510 --> 00:07:44,240

you know

173

00:07:50,150 --> 00:07:47,520

goals that we that we have and hopefully

174

00:07:53,990 --> 00:07:50,160

we'll we'll get there sometime in in my

175

00:07:56,309 --> 00:07:54,000

lifetime and by doing this experiment uh

176

00:07:57,670 --> 00:07:56,319

with my brother and i because we are

177

00:07:59,909 --> 00:07:57,680

genetically

178

00:08:01,990 --> 00:07:59,919

almost identical

179

00:08:05,990 --> 00:08:02,000

and nasa hasn't done any you know

180

00:08:08,070 --> 00:08:06,000

genetic dna type research before

181

00:08:09,909 --> 00:08:08,080

hopefully we can learn some things about

182

00:08:11,990 --> 00:08:09,919

how this environment the radiation

183

00:08:13,510 --> 00:08:12,000

environment the microgravity environment

184

00:08:16,950 --> 00:08:13,520

affects us

185

00:08:18,950 --> 00:08:16,960

on a on a genetic level and

186

00:08:20,710 --> 00:08:18,960

you know there's only two of us so it's

187

00:08:22,390 --> 00:08:20,720

not an experiment

188

00:08:24,469 --> 00:08:22,400

like you know you would have if you were

189

00:08:26,469 --> 00:08:24,479

designing uh you know trying to develop

190

00:08:28,070 --> 00:08:26,479

a new drug for an illness where you need

191

00:08:30,469 --> 00:08:28,080

many many

192

00:08:32,149 --> 00:08:30,479

much larger sample group but it will

193

00:08:33,670 --> 00:08:32,159

hopefully provide us some anecdotal

194

00:08:35,110 --> 00:08:33,680

information of where we need to

195

00:08:40,949 --> 00:08:35,120

investigate

196

00:08:45,030 --> 00:08:42,949

and and just i know you're coming home

197

00:08:46,310 --> 00:08:45,040

in a few weeks what's the most exciting

198

00:08:51,110 --> 00:08:46,320

part about coming home what are you

199

00:08:56,630 --> 00:08:54,470

you know uh that's a it

200

00:08:58,230 --> 00:08:56,640

the thing i look forward to most is

201  
00:09:00,310 --> 00:08:58,240  
people not that i don't like these

202  
00:09:01,990 --> 00:09:00,320  
people but uh you know the

203  
00:09:04,470 --> 00:09:02,000  
your friends your family people you

204  
00:09:07,190 --> 00:09:04,480  
haven't been around for a uh a really

205  
00:09:10,389 --> 00:09:07,200  
long time after that i would say you

206  
00:09:11,750 --> 00:09:10,399  
know it's being outside

207  
00:09:14,150 --> 00:09:11,760  
the weather

208  
00:09:17,590 --> 00:09:14,160  
um you know this environment isn't bad

209  
00:09:20,150 --> 00:09:17,600  
but it's the same every single day for

210  
00:09:21,910 --> 00:09:20,160  
you know since march so those are those

211  
00:09:27,269 --> 00:09:21,920  
are the big things i'm looking forward

212  
00:09:31,030 --> 00:09:29,030  
oh come on okay commander kelly this is

213  
00:09:32,790 --> 00:09:31,040

where i would usually sign off but since

214

00:09:35,750 --> 00:09:32,800

we've never closed the program while

215

00:09:37,750 --> 00:09:35,760

talking to someone 250 miles above earth

216

00:09:41,829 --> 00:09:37,760

commander kelly would you like to do the

217

00:09:46,150 --> 00:09:44,070

sure thing martha that's all for today

218

00:09:47,269 --> 00:09:46,160

thanks for sharing part of your sunday

219

00:09:49,030 --> 00:09:47,279

with us

220

00:10:02,069 --> 00:09:49,040

have a great day and so long from the

221

00:10:05,829 --> 00:10:02,829

the

222

00:10:12,870 --> 00:10:05,839

best thank you so much

223

00:10:17,110 --> 00:10:14,630

station this is houston acr that

224

00:10:19,190 --> 00:10:17,120

concludes the abc portion of the event

225

00:10:21,990 --> 00:10:19,200

please stand by for a voice check from

226

00:10:22,000 --> 00:10:27,190

yes

227

00:10:27,200 --> 00:10:32,150

station this is cnn how do you hear me

228

00:10:39,350 --> 00:10:33,910

i hear you loud and clear welcome aboard

229

00:10:43,269 --> 00:10:41,670

commander kelly what a thrill it is to

230

00:10:45,350 --> 00:10:43,279

be speaking to you

231

00:10:48,069 --> 00:10:45,360

as you travel at a rate of five miles

232

00:10:48,790 --> 00:10:48,079

per second i understand 200 miles above

233

00:10:50,389 --> 00:10:48,800

us

234

00:10:52,949 --> 00:10:50,399

getting close to finishing

235

00:10:54,870 --> 00:10:52,959

a year in space first question how are

236

00:10:56,389 --> 00:10:54,880

you doing what has surprised you most

237

00:10:59,990 --> 00:10:56,399

about most about any changes in your

238

00:11:05,670 --> 00:11:02,870

i'm doing uh pretty good i do feel like

239

00:11:08,710 --> 00:11:05,680

i've been up here for a uh

240

00:11:11,670 --> 00:11:08,720

a a really long time and i look forward

241

00:11:13,590 --> 00:11:11,680

to to getting home soon

242

00:11:16,790 --> 00:11:13,600

what surprised me

243

00:11:19,030 --> 00:11:16,800

from a health perspective

244

00:11:20,150 --> 00:11:19,040

you know a lot of the research we do is

245

00:11:30,230 --> 00:11:20,160

uh

246

00:11:31,990 --> 00:11:30,240

my heart

247

00:11:34,710 --> 00:11:32,000

and a lot of that

248

00:11:36,069 --> 00:11:34,720

that data is stuff that will be analyzed

249

00:11:38,470 --> 00:11:36,079

you know by the scientists and

250

00:11:40,069 --> 00:11:38,480

researchers and it will take time

251

00:11:43,269 --> 00:11:40,079

probably well after

252

00:11:46,550 --> 00:11:43,279

uh well after i'm back before we have

253

00:11:48,069 --> 00:11:46,560

results but from a kind of a subjective

254

00:11:50,310 --> 00:11:48,079

um

255

00:11:51,430 --> 00:11:50,320

uh perspective i

256

00:11:53,910 --> 00:11:51,440

uh

257

00:11:56,230 --> 00:11:53,920

don't really have any surprises i

258

00:11:57,750 --> 00:11:56,240

you know kind of knew what to expect

259

00:12:01,030 --> 00:11:57,760

going into this

260

00:12:02,870 --> 00:12:01,040

um because i had flown a long duration

261

00:12:04,790 --> 00:12:02,880

flight before so

262

00:12:06,470 --> 00:12:04,800

uh you know there's been a little

263

00:12:08,069 --> 00:12:06,480

you know effects on my vision which i

264

00:12:10,710 --> 00:12:08,079

had last time

265

00:12:16,550 --> 00:12:10,720

but uh overall nothing uh nothing

266

00:12:19,750 --> 00:12:18,389

i want to ask you a a different sort of

267

00:12:21,670 --> 00:12:19,760

question everyone is fascinated with

268

00:12:23,190 --> 00:12:21,680

this with space and everyone is

269

00:12:26,230 --> 00:12:23,200

certainly fascinated with the views that

270

00:12:29,190 --> 00:12:26,240

you have you get to look back on earth

271

00:12:31,350 --> 00:12:29,200

if earth were a human body and you were

272

00:12:34,150 --> 00:12:31,360

looking at it how does it look does the

273

00:12:40,710 --> 00:12:34,160

earth look sick does it look healthy how

274

00:12:48,069 --> 00:12:44,629

so there are definitely parts of uh

275

00:12:50,629 --> 00:12:48,079

you know asia central america um

276

00:12:52,710 --> 00:12:50,639

that when you look at them from space

277

00:12:56,389 --> 00:12:52,720

you're uh you know you're always looking

278

00:12:57,430 --> 00:12:56,399

through a haze of uh of pollution

279

00:12:58,790 --> 00:12:57,440

so

280

00:13:01,269 --> 00:12:58,800

um

281

00:13:03,110 --> 00:13:01,279

but you know the earth is covered by you

282

00:13:05,509 --> 00:13:03,120

know a lot of other land masses and

283

00:13:07,350 --> 00:13:05,519

water uh it's surprising you know how

284

00:13:08,470 --> 00:13:07,360

much water is out there

285

00:13:10,310 --> 00:13:08,480

uh so

286

00:13:12,150 --> 00:13:10,320

as far as the atmosphere is concerned

287

00:13:14,470 --> 00:13:12,160

and and you know being able to see the

288

00:13:16,470 --> 00:13:14,480

surface uh

289

00:13:18,870 --> 00:13:16,480

you know i'd say definitely those areas

290

00:13:21,269 --> 00:13:18,880

that i mentioned look you know kind of

291

00:13:23,509 --> 00:13:21,279

sick like you said

292

00:13:26,150 --> 00:13:23,519

um you definitely notice

293

00:13:28,710 --> 00:13:26,160

weather systems at times that aren't

294

00:13:30,389 --> 00:13:28,720

really expected to to be

295

00:13:32,790 --> 00:13:30,399

you know where they are

296

00:13:35,030 --> 00:13:32,800

um you know for instance like tropical

297

00:13:36,389 --> 00:13:35,040

cyclones in the in the uh

298

00:13:38,069 --> 00:13:36,399

you know certain

299

00:13:40,629 --> 00:13:38,079

you know in certain parts of the world

300

00:13:41,590 --> 00:13:40,639

that at times that you don't expect them

301  
00:13:43,590 --> 00:13:41,600  
or other

302  
00:13:44,949 --> 00:13:43,600  
you know weather weather conditions when

303  
00:13:46,310 --> 00:13:44,959  
you look at the uh you know the

304  
00:13:48,550 --> 00:13:46,320  
atmosphere

305  
00:13:50,310 --> 00:13:48,560  
i wouldn't say it looks either the thin

306  
00:13:51,590 --> 00:13:50,320  
veil the atmosphere on the limb of the

307  
00:13:53,750 --> 00:13:51,600  
earth i wouldn't say

308  
00:13:57,189 --> 00:13:53,760  
it looks unhealthy but it definitely

309  
00:14:00,389 --> 00:13:57,199  
looks uh very very fragile and uh you

310  
00:14:01,590 --> 00:14:00,399  
know just kind of like this thin film so

311  
00:14:07,750 --> 00:14:01,600  
it looks like something that we

312  
00:14:11,269 --> 00:14:09,269  
yeah it looks like the earth may need

313  
00:14:13,030 --> 00:14:11,279

some medical care as you say

314

00:14:14,870 --> 00:14:13,040

i also wanted to ask you a question

315

00:14:16,230 --> 00:14:14,880

about the the political cycle here but i

316

00:14:17,750 --> 00:14:16,240

thought i'd do it in a slightly

317

00:14:18,550 --> 00:14:17,760

different way

318

00:14:20,470 --> 00:14:18,560

and

319

00:14:21,990 --> 00:14:20,480

the way i want to do it was i wanted to

320

00:14:24,470 --> 00:14:22,000

ask you

321

00:14:25,829 --> 00:14:24,480

what you might ask our future president

322

00:14:28,550 --> 00:14:25,839

our presidential candidates we have a

323

00:14:30,150 --> 00:14:28,560

series of debates coming up here on cnn

324

00:14:32,629 --> 00:14:30,160

and i want to give you the floor for a

325

00:14:41,030 --> 00:14:32,639

second commander to ask a question

326

00:14:47,750 --> 00:14:43,189

well you know i guess as a as an

327

00:14:50,949 --> 00:14:47,760

astronaut a nasa astronaut i would be uh

328

00:14:53,110 --> 00:14:50,959

you know i feel obligated to ask a uh

329

00:14:55,750 --> 00:14:53,120

you know a space related question and

330

00:14:58,310 --> 00:14:55,760

and uh you know just what

331

00:15:01,829 --> 00:14:58,320

um you know what their their goals and

332

00:15:02,870 --> 00:15:01,839

their vision are for our space program

333

00:15:05,189 --> 00:15:02,880

uh

334

00:15:06,949 --> 00:15:05,199

i think this um

335

00:15:09,829 --> 00:15:06,959

you know our history in space and the

336

00:15:11,350 --> 00:15:09,839

international space station um and those

337

00:15:13,990 --> 00:15:11,360

other things we do

338

00:15:17,590 --> 00:15:14,000

have significant value

339

00:15:22,310 --> 00:15:17,600

to our to our economy to who we are as a

340

00:15:23,990 --> 00:15:22,320

as a as a people as a species really and

341

00:15:26,949 --> 00:15:24,000

you know i would want to know what their

342

00:15:29,189 --> 00:15:26,959

vision is for for nasa and how

343

00:15:36,710 --> 00:15:29,199

you know they would plan to execute

344

00:15:42,150 --> 00:15:39,430

i'm curious about your views on private

345

00:15:44,230 --> 00:15:42,160

space travel there's been a lot of

346

00:15:47,110 --> 00:15:44,240

energy and money frankly around that

347

00:15:48,310 --> 00:15:47,120

industry lately as someone who's done it

348

00:15:49,749 --> 00:15:48,320

been up there

349

00:15:54,230 --> 00:15:49,759

what do you think you support it do you

350

00:15:58,949 --> 00:15:56,550

yeah absolutely um

351  
00:16:00,870 --> 00:15:58,959  
you know this is an amazing experience

352  
00:16:02,949 --> 00:16:00,880  
it's a uh

353  
00:16:06,150 --> 00:16:02,959  
you know a fascinating place not only

354  
00:16:08,550 --> 00:16:06,160  
for for tourism but our our ability to

355  
00:16:11,350 --> 00:16:08,560  
uh you know like i said we

356  
00:16:15,269 --> 00:16:11,360  
this is an incredibly complex facility

357  
00:16:16,790 --> 00:16:15,279  
and by doing really hard things we reap

358  
00:16:18,870 --> 00:16:16,800  
the benefits and

359  
00:16:21,749 --> 00:16:18,880  
commercial space is hard so by

360  
00:16:23,990 --> 00:16:21,759  
developing you know those those rockets

361  
00:16:27,189 --> 00:16:24,000  
and the systems to have

362  
00:16:28,470 --> 00:16:27,199  
uh more people uh visit and and live in

363  
00:16:31,110 --> 00:16:28,480

space for

364

00:16:33,670 --> 00:16:31,120

periods of time there will be benefits

365

00:16:35,430 --> 00:16:33,680

to that and uh you know i'd like to see

366

00:16:37,990 --> 00:16:35,440

you know someday where

367

00:16:39,910 --> 00:16:38,000

you know like airline travel where

368

00:16:42,310 --> 00:16:39,920

not everyone could afford it but a lot

369

00:16:44,629 --> 00:16:42,320

of people could afford it so it is

370

00:16:47,189 --> 00:16:44,639

something that i definitely feel very

371

00:16:49,430 --> 00:16:47,199

strongly about and i think it's

372

00:16:51,269 --> 00:16:49,440

it's great that we have these companies

373

00:16:53,670 --> 00:16:51,279

that are that are pursuing this because

374

00:16:57,749 --> 00:16:53,680

then it lets nasa uh you know direct

375

00:17:00,069 --> 00:16:57,759

their energy and focus on you know the

376

00:17:02,790 --> 00:17:00,079

the uh you know the frontier the places

377

00:17:04,470 --> 00:17:02,800

that we haven't been to before because

378

00:17:05,990 --> 00:17:04,480

you know i think those are the kind of

379

00:17:07,829 --> 00:17:06,000

things that the government should be

380

00:17:10,549 --> 00:17:07,839

involved with and i think something that

381

00:17:12,710 --> 00:17:10,559

nasa does very well so it's uh yeah i

382

00:17:18,309 --> 00:17:12,720

think it's a commercial space is a great

383

00:17:21,990 --> 00:17:19,750

you know you may have heard today

384

00:17:23,909 --> 00:17:22,000

commander gravitational waves have been

385

00:17:26,470 --> 00:17:23,919

found proving yet another one of

386

00:17:27,829 --> 00:17:26,480

einstein's theories correct another one

387

00:17:30,230 --> 00:17:27,839

of the theories has to do with the

388

00:17:32,789 --> 00:17:30,240

space-time continuum which would dictate

389

00:17:35,029 --> 00:17:32,799

that you're actually aging more slowly

390

00:17:35,830 --> 00:17:35,039

than your twin brother mark here is on

391

00:17:37,830 --> 00:17:35,840

earth

392

00:17:40,230 --> 00:17:37,840

obviously it's a minuscule difference

393

00:17:41,510 --> 00:17:40,240

but i'm curious does it feel different

394

00:17:44,310 --> 00:17:41,520

time wise

395

00:17:49,110 --> 00:17:44,320

does time change for you in some way

396

00:17:53,909 --> 00:17:50,950

so because

397

00:17:56,150 --> 00:17:53,919

we're in this environment that's like a

398

00:17:59,110 --> 00:17:56,160

laboratory in many ways in some ways

399

00:18:00,789 --> 00:17:59,120

it's kind of like a submarine or a ship

400

00:18:04,150 --> 00:18:00,799

but one in which you

401  
00:18:06,070 --> 00:18:04,160  
you cannot leave and one in which you

402  
00:18:07,909 --> 00:18:06,080  
know i'm at work when i go to sleep i'm

403  
00:18:10,870 --> 00:18:07,919  
at work when i wake up

404  
00:18:12,390 --> 00:18:10,880  
um you know i've been here since march

405  
00:18:15,029 --> 00:18:12,400  
uh

406  
00:18:16,950 --> 00:18:15,039  
the it's not like the days seem to go by

407  
00:18:18,070 --> 00:18:16,960  
slower but definitely the whole period

408  
00:18:20,150 --> 00:18:18,080  
of time

409  
00:18:22,070 --> 00:18:20,160  
has uh you know it seems like a long

410  
00:18:24,789 --> 00:18:22,080  
time a year now seems

411  
00:18:26,230 --> 00:18:24,799  
longer than i i thought it would be and

412  
00:18:29,669 --> 00:18:26,240  
uh

413  
00:18:32,310 --> 00:18:29,679

so i definitely have an appreciation for

414

00:18:33,669 --> 00:18:32,320

you know certain things that uh that

415

00:18:36,070 --> 00:18:33,679

freedom

416

00:18:38,789 --> 00:18:36,080

and uh you know being on earth provide

417

00:18:41,110 --> 00:18:38,799

but uh you know certainly

418

00:18:42,870 --> 00:18:41,120

you know being confined for for this

419

00:18:44,710 --> 00:18:42,880

period of time is not something that i

420

00:18:45,909 --> 00:18:44,720

think people would uh

421

00:18:47,110 --> 00:18:45,919

you know it's different when you're in

422

00:18:48,950 --> 00:18:47,120

space and you're doing something that

423

00:18:49,990 --> 00:18:48,960

thinks thinks is important but i

424

00:18:52,549 --> 00:18:50,000

definitely

425

00:18:56,070 --> 00:18:52,559

think i would uh you know kind of uh

426  
00:18:58,230 --> 00:18:56,080  
relish my my freedom uh more after this

427  
00:19:04,710 --> 00:18:58,240  
experience maybe than i

428  
00:19:09,029 --> 00:19:06,549  
one of the objectives for this mission

429  
00:19:12,070 --> 00:19:09,039  
besides the twin study was

430  
00:19:14,390 --> 00:19:12,080  
to look at how how feasible a mission to

431  
00:19:16,630 --> 00:19:14,400  
mars might be if this were a mission to

432  
00:19:18,549 --> 00:19:16,640  
mars which takes nine months or longer

433  
00:19:20,070 --> 00:19:18,559  
you'd in fact just be getting started

434  
00:19:22,630 --> 00:19:20,080  
with that mission as opposed to getting

435  
00:19:23,830 --> 00:19:22,640  
near to the end i'm curious with all

436  
00:19:27,510 --> 00:19:23,840  
that you've learned now you've seen do

437  
00:19:29,350 --> 00:19:27,520  
you think mars is is feasible and also

438  
00:19:31,029 --> 00:19:29,360

when we eventually maybe get there do

439

00:19:35,990 --> 00:19:31,039

you think that there's extraterrestrial

440

00:19:39,430 --> 00:19:37,909

yeah i think it's uh i think it's

441

00:19:41,830 --> 00:19:39,440

definitely feasible i think there are

442

00:19:43,750 --> 00:19:41,840

certain challenges you know the uh the

443

00:19:45,029 --> 00:19:43,760

radiation environment between the earth

444

00:19:45,990 --> 00:19:45,039

and mars is something that we're going

445

00:19:48,549 --> 00:19:46,000

to have to

446

00:19:50,150 --> 00:19:48,559

have to figure out because there is uh

447

00:19:51,510 --> 00:19:50,160

you know we we get protection here on

448

00:19:53,029 --> 00:19:51,520

the space station although we get a lot

449

00:19:55,190 --> 00:19:53,039

more radiation than you do on earth

450

00:19:57,830 --> 00:19:55,200

you'd get a much much more on your way

451  
00:19:58,789 --> 00:19:57,840  
to mars so that's that's a challenge

452  
00:20:01,590 --> 00:19:58,799  
um

453  
00:20:03,430 --> 00:20:01,600  
the systems the life support systems are

454  
00:20:05,190 --> 00:20:03,440  
you know on one hand and a challenge but

455  
00:20:07,669 --> 00:20:05,200  
we we've been maintaining these systems

456  
00:20:09,909 --> 00:20:07,679  
here for the last 15 years now you know

457  
00:20:12,070 --> 00:20:09,919  
we can get resupply quicker but there's

458  
00:20:13,430 --> 00:20:12,080  
a lot we've learned here from from

459  
00:20:15,590 --> 00:20:13,440  
operating the space station that will

460  
00:20:18,310 --> 00:20:15,600  
help us go to mars i think the big the

461  
00:20:20,390 --> 00:20:18,320  
biggest challenge though is the uh

462  
00:20:22,149 --> 00:20:20,400  
you know the public support and the the

463  
00:20:23,110 --> 00:20:22,159

financial support

464

00:20:25,750 --> 00:20:23,120

um

465

00:20:27,510 --> 00:20:25,760

from our government or other governments

466

00:20:28,549 --> 00:20:27,520

to to do this

467

00:20:30,870 --> 00:20:28,559

um

468

00:20:32,149 --> 00:20:30,880

because i think technically

469

00:20:33,590 --> 00:20:32,159

you know

470

00:20:35,350 --> 00:20:33,600

pretty much anything we've ever put our

471

00:20:36,870 --> 00:20:35,360

mind to we've been uh

472

00:20:38,630 --> 00:20:36,880

been able to uh

473

00:20:40,710 --> 00:20:38,640

to accomplish so

474

00:20:42,870 --> 00:20:40,720

i think the challenge is mostly from uh

475

00:20:45,190 --> 00:20:42,880

you know a public and uh you know

476

00:20:47,110 --> 00:20:45,200

government financial support and as far

477

00:20:49,350 --> 00:20:47,120

as you know whether there's life there

478

00:20:52,310 --> 00:20:49,360

on on mars or whether there was actually

479

00:20:53,590 --> 00:20:52,320

ever ever life there

480

00:20:55,669 --> 00:20:53,600

i don't know

481

00:21:00,830 --> 00:20:55,679

you know it'd be uh it would be great to

482

00:21:05,510 --> 00:21:03,590

though commander kelly thank you so much