

## TW for Season 2 Ep 5 - Personal Carbon Footprints:

**Racism**

**Eugenics**

**Environmental oppression**

**Ableism**

Karel Green 0:00

Welcome to the POCSquared podcast hosted by Sehher, Pruthvi and Karel. In today's episode, we revisit the ideas of environmental activism and discuss what it means to actually be green. But please be aware that the following topics are discussed: Racism, ableism, eugenics, environmental oppression. Transcripts and show notes for this episode can be found on our website, [www.poc2.co.uk](http://www.poc2.co.uk). That's www dot POC the number two dot co dot uk. We're also on Twitter and Instagram @pocsquared. That's POC the word squared with no spaces. You can also contact us via email [contact@poc2.co.uk](mailto:contact@poc2.co.uk). That's contact @ POC, then the number two dot co dot UK. And finally we'd like to thank the Royal Astronomical Society for their funding as it was for this that we've been able to create the second season of podcast as well as do all of the other outreach activities that we are doing with POCSquared and keep them free. With all this said, Please enjoy the episode.

Karel Green 1:26

This episode is going to be on well it's on a few things, it's on recycling, it's on personal personal carbon footprints and how that's a scam, it's on space junk, it's just on the environment. In general, we're doing another environment episode essentially. But less focused on veganism specifically just more focused on the general like badness and racism that goes along with a lot of like, generic climate activism rhetoric from the west. The main reason that I wanted to do this episode was that when when we were writing up, like deciding which episodes that we were going to make, I had recently found out that British Petroleum BP, the people that literally frack and sell oil for a living to just make them rich and pollute the environment and stuff like that invented the idea of a personal carbon footprint. And that just threw me through a loop and made me so angry and just just, I've just never recovered. So there's been a bunch of things that have happened since we found out about that, obviously, but it's a good starting off point. I just wanted to talk about our experiences with it, I guess. And then we'll talk about just like the general issues around climate activism in the West and how bad it is.

Pruthvi Mehta 2:54

Yeah.

Karel Green 2:55

And we're gonna so just actually, let me quickly define what is a personal carbon footprint?

Pruthvi Mehta 3:03

Yeah, that's a good, that's a good starting point. Yep.

Karel Green 3:07

So nature.org defines a carbon footprint as the total amount of greenhouse gases, including carbon dioxide and methane, that are generated by our actions, right. So the idea behind a personal carbon footprint is that and again, you know, this is, I wanted to say straight up, though this is literal bull. This is literal BS. It's true. There's just so terrible. But the idea around a personal carbon footprint is that, first of all, there are a bunch of companies that you can pay real money to work out your carbon footprint. And so that's just the money making scam. But the idea is that you work out how much carbon emissions you as a person just from living your day to day life, make, and then you're supposed to try your best to reduce that to zero. But it's, as we'll find out in this episode is nowhere near that easy, obviously. So yeah, that's what a personal carbon footprint is. And again, I just cannot stress this enough. This was literally invented by British Petroleum. I'm in so much pain.

Sehher Tariq 4:14

I guess. It's just another mechanism of placing the blame of, you know, carbon being released into the environment and climate change, it's a way of putting the blame on individuals rather than the corporations like BP themselves. That's just it's, it's just never going to be on companies, big companies it's always going to be on an individual. So like I always see in like news articles or in like little segments on the news or they have like programs about like, consumers and they always talk about calculating your carbon footprint and what you can do yourself to reduce your carbon footprint. And yeah, fair enough, everybody can do their little bit. But in the grand scheme of things, they will never put the blame on the massive corporations, which actually are the base contributors and are making the massive impact. So, yeah, just it's all our fault, essentially.

Pruthvi Mehta 5:28

Yes, exactly.

Karel Green 5:30

And of episode, we should stop. And that's it. We should stop polluting guys, literally, like, this is, this is just it's such a mess. Because as I said, in the previous episode, environmental episode, capitalism, colonialism and climate go listen to that one, too. There is an article, it's linked in the show notes from the guardian. And it's, you know, it's made its way around the internet. But it literally states that 100 companies call 71% of carbon emissions in the planet. So like, it's just, Oh, it's so it's a, it's like a it's I forgotten the word like a dialogue. I don't know. That's not the word that I was looking for. But it's a fact. It's an idea that I have hated for years. And it just drives me absolutely insane. because like you said, it's, it's a scam, it's a scheme to get people to be like, Oh, you know, I've got to do all of these things. And it's not my fault. I mean, it's my fault that there's carbon emissions and stuff like that. And not these

little huge companies, like, you know, they say, Oh, you should be recycling, you should be doing x, y, and z, and then they make stuff that's recyclable, more expensive. And then the cheaper things that are more affordable on like, not recyclable and worse for the planet. And I'm thinking of specifically supermarkets here and the amount of like food waste that they generate, when people are literally going hungry. There's an article I've put in the show notes that states that, I can't even remember it, but we'll check the show notes. But something like the UK supermarkets ended up dumping a bunch of rock over the last year have dumped enough like completely fine food that could have fed over 190 billion people, but they just throw in the bin. And it's just about things like this just drive me absolutely up the wall. Because stuff like that, or again, British Petroleum, which is an oil company need I'd say more will just exist and make these literally disgusting like claims about personal carbon footprints and stuff like that just get away with being like literally supervillain evil, like, destroying the planet. They're literally destroying the planet. So I, yeah..

Pruthvi Mehta 7:55

It's absolutely it's absolutely wild. I mean, the I think the figure that you were like, found in the it was an independent article. Yeah. Um, and I love how adblock has just stopped me from accessing the article.

Karel Green 8:09

Adblock trying to save your eyes from the Independent.

Pruthvi Mehta 8:11

It's true, but basically, I think I think the so with regards to food waste, it says that, um, so there were 282,338 tonnes of unsold food that was dumped. And basically, one every 1000 times of food amounts to 2.4 million meals. So if you think about how many meals like have just gone to waste because of how you know, we can't allocate resources efficiently to actually feed everyone who actually needs feeding because people do need feeding or the sauce right? Yeah, I keep thinking about that vine someone made where they pretended to be like an alien who was like accepting whether or not like Earth would join the this federation of this federation of like intelligent planets or whatever and then find that wine one of the one of the questions was like so you're starving you said the plant people are starving because of, what was it was like, it was it was like distribution. It was like

Karel Green 9:17

I found I found that awful. I found the rip of it on Facebook. I'm going to try and find a better version.

Pruthvi Mehta 9:22

Thank you. So basically it was just like logistics people are starving because logistics? Literally that's literal truth.

Karel Green 9:31

Direct link here you go. It's Thank you. Everybody. Check the show notes I found it on his Twitter.

Pruthvi Mehta 9:37

This is the only thing that's going to be in the show notes.

Karel Green 9:39

Logistics?

Pruthvi Mehta 9:41

Logistics! It's true. It's absolutely mad. It's what capitalism's done, right? Because Yeah, only only companies that can distribute food and produce a profit get to get that get their you know, food distributed normally, but if people can't pay they don't get the food. So you have loads of food going to waste. It's an absolutely bizarre system. With regards to BP. You said that like, yeah, like this, if you think about how often the term carbon footprint is used in our literal daily vocabulary, it's like fused into everyday lexicon, it's absolutely just like incredible how they've managed to come up with this idea in the 80s, that has just stuck, and we say it every single day. And it's like, they're still producing about like, huge amounts of oil and gas every single day, you know, about 4 million barrels per day or so. And that has not changed, that has not changed, that's not even decrease that's just increased. So they've managed to shift the blame to like individuals through pure marketing, while being the sole perpetrators of pretty much all the problems. And it's just, it's incredible how they've managed to do that. It's just like a evil superpower, but they're pretending to be the good guys, like, literally hashtag find out your carbon footprint.

Karel Green 10:58

They can, they can actually the choke, like, do you know, just the marketing? Imagine going back the people who go into, can I okay, this is a weird tangent that I may or may not keep in the episode. But it just reminds me so much of how like schools ready you for like corporate environments, and not the real world. So like the idea of going into school where you have to like ask to go to loo, and in the UK, you have to wear a uniform or, you know, all the way through school, and then going into business, and becoming like a marketing executive and doing stuff like this. I'm just like, can you imagine becoming that person and then just knowing that you're literally destroying the planet, you live on?

Pruthvi Mehta 11:36

Useless jobs, these are useless jobs.

Karel Green 11:40

But yeah, but the point is, that reminded me of the onion article, it's like scientists politely remind world that clean energy technology is ready to go whenever, like, you could literally, I mean, I know this is the onion. But there are articles out there. But

like, it's literally like we said just it's just a matter of logistics. But you could effectively replace all the energy we use now with either wind turbines, or solar panels, or just all nuclear power, because that's a, that counts as green energy. I think just using nuclear decay to heat up more than that's how reactors work. Literally, I know that in a levels, don't worry. But like there is you could quite literally just replace all fossil fuels with that, but they won't, because they will like cut their you know, their money. It's their money. It's not how they won't get rid of cigarettes, because it makes people it makes them a load of money. So I'm just here to just put that in the show notes as well is an onion article, green energy.

Sehher Tariq 12:38

Something else you could put in the show notes as well, is Nikola Tesla, and how there's I don't, I don't know if this is considered a conspiracy or not. But I just I would fully believe this, that he invented something where it was like limitless energy. And then it was like JP Morgan or something like ended up destroying all the evidence in the papers and stuff like that after after Tesla died. Because that would mean that they wouldn't be able to make money off of like oil and gas and stuff.

Pruthvi Mehta 13:14

Oh my god.

Sehher Tariq 13:14

I need to find that. But that's it conspiracy theory that's gonna be around for a while now.

Pruthvi Mehta 13:20

I believe it.

Karel Green 13:21

Like, let's do it. Let's just do it.

Pruthvi Mehta 13:25

He had like the like, you know, in terms of all the physicists, he had, like a biggest D energy. Like, I can understand why people would want him like to, you know, he was just he was just so cool. And I can understand why crusty money grubbing like scientists would want him destroyed and his work destroyed. Like...

Karel Green 13:45

What's he called, didn't he try to kill an elephant? Was that him?

Pruthvi Mehta 13:49

Oh, that might have been him.

Karel Green 13:51

Let me let me let me let me this isn't relevant. This is important.

Pruthvi Mehta 13:58

We're doing this.

Karel Green 13:59

I'm looking it up in a private tab because I literally don't even want it on my.

Pruthvi Mehta 14:04

I think it was Thomas Edison though.

Sehher Tariq 14:06

Yeah. Thomas Edison, he can choke.

Karel Green 14:10

Thomas Edison. It wasn't Tesla, sweetie. Nikola sweetie I'm so sorry.

Pruthvi Mehta 14:17

You have to leave, you insulted my husband you have to leave.

Karel Green 14:22

I'm leaving your house goodbye. Oh my god, imagine imagine being Nikola Tesla, and then some crusty girl in the future accuse you of being Thomas Edison. I would simply die. Simply die again. Oh my god. Oh my god. I'm in so much pain. I might never recover. This was so bad. Okay, well,

Pruthvi Mehta 14:59

He was so hot. How could you do this?

Karel Green 15:02

My scalp is bleeding from where I've just snatched my own wig off of it. But moving on. I can't remember what we're talking about. What were we saying, what were we saying? Yeah, like this. This is the perfect segue was not the perfect segue. But this is a segue that I am jamming in to this to talk about. We're gonna talk about Bill Gates, the what is he like Bill Gates is what we how rich he was he the fifth richest man alive. Yeah, richest man, we'll see. I'm trying to actually find somebody find the list of richest people alive and tell me which number he is. But I just wanted to talk because just talking about, again, just these huge oil companies and the executives talking about Oh, we've got to do something about the climate guys, you guys need to recycle more. And this man has, he's got a net worth of like \$180 billion, you have the bare face goal to to publish a book on climate change. I'm sure you've all heard of it. I'm not even gonna mention the name because I hate him so much on climate change, and how we can fix it. And it's just like the the cognitive dissonance because this man literally has enough money to just fix climate change, but he won't do it because he'd rather be rich, and then tell other people that you should all eat like 14 grapes for optimum energy to that carbon emission ratio for for your, for yours

and your children's entire lives on this earth. And then in you know, eight generations, he'll still be rich, but there will be slightly less carbon in the air. Do you know like...

Pruthvi Mehta 16:47

Yeah yeah.

Karel Green 16:48

I just the it's just the hypocrisy of being so rich, and such a polluter himself as if, as if PCs are completely, you know, carbon neutral. They are not.

Pruthvi Mehta 17:00

I just absolutely like, I think like the villain, the he's like the fourth richest person in the world. Yeah. And I think it's just vile, because like he, he set up that bill and the Bill and Melinda Melinda Melinda, Melinda Gates Foundation.

Karel Green 17:16

Melinda sweetie.

Pruthvi Mehta 17:18

Melinda.

Karel Green 17:19

I don't know who she is but she makes me so angry.

Pruthvi Mehta 17:21

So like this woman's his wife, right? So they basically set this foundation up together. And like so much of their foundation goes towards protecting, like patent protection. And like, when you type in like Bill Gates, you just get the words like vaccine racist coming up, which is so funny. Funny. So he like so if for those of you listening on far in the future, basically in the year 2019, this huge virus called this huge virus became pandemic and we're still in it. And it's two years ahead two years on, um, basically. So there's a vaccine and different vaccines that have been developed by different countries in the world. And a lot of people are getting weighed or weighing in on the debate about whether to share this literal life saving technology with other countries. And Bill Gates, the fourth richest man on this planet is just like, No, we should not share this vaccine patent with developing nations. I also hate this idea of like developed versus developing nations. I think it's like growth, right? And we can talk about that. It's,

Sehher Tariq 18:44

Yeah, it's more like colonized versus the colonizers kind of thing.

Karel Green 18:50

Scraping by after being colonized versus colonizer. That's literally it.

Pruthvi Mehta 18:57

I need that bot that was that bought that kind of replace the word millennial with snake people whenever you scroll through any article, and I just need one to replace developed and developing with like, colonized and colonizers, like..

Sehher Tariq 19:11

Yeah.

Karel Green 19:12

I might write that bot.

Pruthvi Mehta 19:13

Thank you, please.

Karel Green 19:15

I'll do it. I'll make it into a bot and share it eventually.

Sehher Tariq 19:18

Anyway please carry on explaining it the vaccine.

Pruthvi Mehta 19:25

Just we love, we love tangents. Basically, this is like a very obvious case of like someone who is choosing to protect patent rights over human lives. And considering his literal Oon Foundation protects is involved in protecting patent, he's literally protecting his own economic interests. And this is just one example of it. It's absolutely disgusting.

Karel Green 19:51

And I just want to keep saying that he's to critical acclaim because of course he just owns everything so he can just make them say everything's good. But like, again, his he wrote a climate activism book. And then he, I just really I just I don't understand because like, the book is literally Oh my god, where is it? What's it called? What's it called? It's called How to avoid a climate disaster. And he's out here standing next to it with his arms crossed, like, Oh, god, this is such a hot take guys solutions we have and the breakthroughs we need in italics. And I'm just like, just fun. The solutions you have the money to make. You have the money to fix things by I just have a bunch of these. I mean, like, there are very reviews online, obviously being like, Guys, this is such an important book that everybody should read. But there are also reviews out here that are actually telling the truth of being my Bill Gates has \$160 billion. Why isn't he literally just fixing the planet, he could quite literally fix climate change, and still be the fourth richest man alive, it will cost him maybe a billion dollars, like,

Pruthvi Mehta 21:00

justly. And I think that's his quote. So I'm reading an article where he's like, talking about how like, so there's article where he's quoted as literally saying this. So he said, on regarding sharing, like, you know, patent, like patent technologies, vaccine technologies with other countries, he was just like, well, there's only so many vaccine factories in the world. And people are very serious about the safety of vaccines. And so moving something that has never been done before moving a vaccine from say a Johnson Johnson factory into a factory in India, it's novel, it's only because of our advanced expertise that can happen at all. So what they've been doing is basically saying is, you know, he doesn't, he's put, he's basically using this excuse of other countries too stupid to produce the vaccine safely, which is just one of the which is some of the worst bull the wall because think of how many chemicals and how many products, the so called the so called, you know, quote, unquote, developing countries produced for producers in the way in the West, right? Like, this is just this is a nother This is another thing, right? This is just another type of product, right? This is a vaccine. So there is there is literally no difference. The only difference is that if the patent gets moved, if he's if he's allowed to produce, if this part of this vaccine is allowed to be produced in India, it would stop the economic interest that he has in protecting the patent for his own companies. Right. So it's just it's absolutely vile, like they're just calling other countries, like, too stupid to produce a vaccine themselves, but also stopping like sharing it. It's just like, make that make sense. You know, I mean...

Sehher Tariq 22:37

Also, excuse me, India is like one of the biggest producers of vaccines.

Pruthvi Mehta 22:43

Exactly. It's one of the biggest like pharmaceutical, like product manufacturers in the world. It's literally it's so it's so obviously have a vested interest for him.

Sehher Tariq 22:51

Yeah.

Pruthvi Mehta 22:51

Like he's clearly going to lose money from this. And somewhere, I don't know the like ins and outs of his part, his involvement with like patent protection, but I'm pretty sure it's invested in some companies. And...

Sehher Tariq 23:03

Oxford Astras the Oxford AstraZeneca vaccine.

Pruthvi Mehta 23:06

Yeah.

Sehher Tariq 23:07

This is specifically what I'd heard recently about him basically twisting the arm of people who want to actually release vaccines to, you know, actually have it go worldwide. Oxford's vaccine, they wanted to release that publicly. So people could actually use that knowledge and make the vaccine so it'd be spread faster. But Bill Gates donates money to Oxford. And I think he might have he might have said like, maybe he wouldn't give them donations if they didn't give the patent or whatever, give the the rights to the vaccine production to Oxford, or to AstraZeneca because I think he has shares in AstraZeneca or something like that. This is what I've heard. I don't I haven't fully read up on it or anything. So probably take it with a pinch of salt. But that's the reason. I'm pretty sure that's the reason why we've got the Oxford AstraZeneca vaccine because of Bill Gates.

Pruthvi Mehta 23:08

I wouldn't be surprised. I mean, like, I'll put some information in the show notes about this as well. But that that does sound like something he'd do.

Karel Green 24:13

Yeah, it's just the the bare faced hypocrisy of again, writing a climate activism book as a literal like, the definition of top down fake diversity, literal, you know, cis het White man, billionaire. And then all of all of his actions, including literally letting other human beings die are about making sure that he continues to be rich, as if he can't live off of he's like 65 year how's he gonna spend 130 billion in however many years he's got left to live by? I just, it's just it's just a mess. It's just a complete mess...

Pruthvi Mehta 24:53

It's for his for his children's sweaty.

Karel Green 24:56

Literally. Of course, of course, because how will they survive? On 100 and 130 billion between the three of them.

Sehher Tariq 25:05

It'd be a painful existence,

Karel Green 25:08

They're never gonna make it how much is what's 130 billion divided by three. That is only 43 billion each, right? They're gonna die. They're gonna starve. Oh my god. But this is the perfect This is an actual good segue of talking about the literal just very racist, very, very garbage rhetoric of just like fixing climate change by eugenics basically, and blaming all of these, you know, dying dirty brown people to stop using up all the resources and stop having kids to fix climate change, and all of that literal just absolutely vile, vile hate speeches spewed all across top down climate activism.

Pruthvi Mehta 25:59

Yeah, so like over population's generally, like something like when you have white, generally white environmental, like activists, they're the ones that will talk about overpopulation. And they will always talk about, again, this concept of quote, unquote, developing countries having too rapid population growth, which is something they'll associate with, like the rise in emissions from these countries and stuff, as if, you know, the products that are actually causing the admissions produced by giant corporations aren't the ones to blame. Absolutely, absolutely. Horrible.

Sehher Tariq 26:38

Yeah.

Karel Green 26:39

Yeah.

Sehher Tariq 26:39

And then I have erm... there was a karamba, who was saying it ages ago, but remember, there was, there was like, kind of a, an idea that, you know, telling people about when they're having children, that, you know, like each child that you have means a certain amount of carbon released into it, you know, like the whole carbon emission calculations and stuff like that. It's like, if you have one child, this is how much carbon you put in into, into the world and stuff like that. This you putting people off of having children, because they're like, Oh, this one additional what this one additional child is going to produce this much carbon, and guilt tripping people into like, not having trying to guilt trip people into not having children because of that. And, like, what do you want people to do? Just never have children? Again, just what that that's just not feasible? That's not, that's not an idea that is going to work like dumb thinking. It's just dumb thinking.

Pruthvi Mehta 27:40

Yeah. And they'll always whenever they talk about overpopulation and crime, they're always like, talk about cities, but specifically cities in the global south, right?

Karel Green 27:49

Yeah.

Pruthvi Mehta 27:49

And they'll always be like, Oh, yeah, well, overpopulation in these places, and to the pollution go hand in hand, but it's like, if you look at the like, average number of children in these in these countries versus like, in the cities versus like big cities in the West, right, like the number of children born in major cities in the world. So for example, in in Mumbai, in Delhi, and Mumbai, in India, which are both major cities, it's 1.6 child and children in Delhi, and in Mumbai, it's 1.4. And that's lower than the average in London, which is 1.72. So clearly, the only difference between these two

like countries is not anything to do with overpopulation, or children born per person, but it's just that one isn't the global south and therefore an easy target.

Karel Green 28:45

Yeah, exactly. And it's not even an accurate. And it's literally just like a non solution. It's not even a solution is just another way to just spew hate against a different group. Because again, like I said, the individuals are causing climate change. We literally know that 71% of global carbon emissions are from 100 companies, and not from people living their day to day lives, like a lot of people as well, the things they'll talk about, like recycling and telling people to cycle instead of driving and stuff like that, and then not provide not providing decent public transport. So people have to drive. And people have to go to work at stupid hours, because of capitalism. So they're not willing to fix any of those things, or the fact that actual like the cheapest options in like supermarkets and stuff like that are usually the ones that come with the packaging that's not recyclable, or you have to pay triple the price for something to get the like biodegradable version. You know, they're not willing to fix any of those problems, but they're willing to tell people to like, Oh, you should cycle for an hour and 40 minutes to get to your job, as opposed to driving for 20. Because it's better for the environment, sweetie. And it's just it's an absolute mess, like...

Karel Green 30:08

I wanted to point out as well like, and this is shown because of over lockdown, obviously a lot of people have been working from home. And we've also talked in previous episodes, and I'm just going to keep mentioning it, the the amount of ableism just destroyed that came out of that the years, disabled people have been like campaigning for things to be more accessible online for them. And everybody's just like, Oh, it's not possible. And then all of a sudden, everything's online. Like, let's not forget that that happened. That was awful. But anyways, you know, side note aside, there's been a lot of articles saying how like, and papers saying how like, global carbon emissions have gone down, since people have stopped commuting to work and stuff like that. But if you actually read the the, this is just like another way of them to like, again, shift the blame on to the individual, because you'll find out that first of all, a load of the pollution has gone down, because now these companies aren't like renting out and having to maintain these huge like office blocks across the world. And flying people on, I will never, I will never forget that they fly people out to do PhD vivas for like an afternoon across the world, you know, they've so and that's just in academia, let alone like a load of other jobs that will fly people regularly, you know, to another country for like a weekly meeting, and then fly them back and all of that stuff. So all of that stuff stopped. And that so it's not just people driving to and from work, it's like actual international travel that shut down. So that stopped a load of carbon emissions. And then also like, the the only place that has gone down significantly in terms of actual cars in major cities, because people obviously aren't driving around much. And even then it's not that much, because a lot of people who wouldn't have driven say they're going into central London or something you can't drive through there have now been like, well, I'm

saving all of this money on buying car insurance, because I'm not going to get a boss during a pandemic. So I'm just going to drive to the shops when I could get a bus there. So it's just this, it's so highly contextual, and based on where you are geographically and what's going on. But the fact is that overall carbon emissions haven't changed that much if at all during lockdown, and if it has changed, it's due to like international travel being banned for companies, and not just for the individual going to and from work. So just it's just like a hate scam for everybody involved. It's so bad.

Pruthvi Mehta 32:42

Exactly. Because people are like, you know, he said like they're their own personal you know, carbon footprints or whatever like technically have like reduce, because like he said, they're not driving into the office or whatever because of work from home. But if that if like, like you said, I'm only on there has been no net change in carbon emissions, and Where's it coming from? Big thinking, big thinking.

Karel Green 33:08

Big thinking...

Karel Green 33:10

Something else that I wanted to speak about. And this is a bit of like, shift in topics, but don't worry, we can always circle back to other stuff is space junk.

Pruthvi Mehta 33:21

Yeah.

Karel Green 33:21

And Ilan Musk, and just him being the worst. And it's not SpaceX, but he's got like a bunch of satellites going up and it's threatening... Basically, there's now a dialogue being had about like, space junk, and like outer space, pollution and stuff like that. And this is only coming to the forefront now because it's hitting like astronomers, but for years and like Pruthvi, we'll put an image in the shownotes, I'm sure a link to an image. But I don't realize yet. You don't realize it. But the earth is absolutely littered with like old satellites, because there's no like legislation to make sure that your satellite can come down afterwards. So if you know there is a limited lifetime on any piece of apparatus, and when it breaks the you usually just leave it up there. So you've got all of these like batteries and stuff just like slowly orbiting the planet. And if you know if you're lucky, sometimes it will decay enough to burn up in the atmosphere. And that's it. And there's now against dialogue, because there are getting more and more satellites being put up in space that ground based astronomy is like in actual danger of becoming just impossible to do. Yeah, and again, you can't see a lot of these with your eyes. But if you get a telescope it does, like you start to see the effects. And I will need to talk about that more because I think it is a bit of a mess that they're only caring about this now because astronomers can't do astronomy, but well ground based astronomy in the But also it's still bad.

Pruthvi Mehta 35:03

I'm literally reading a scientific american.com article, which I will put in the show notes. But even like the literal International Space Station has to tweak its orbit to avoid debris, like, dodging, like playing like a bullet hell game, but it's like, yeah, it's junk. They're just like swerving. Oh, no, it's, it's literally like the plot of one of my favorite animes.

Karel Green 35:30

We're not talking about weeb stuff, I'm muting that to get rid of this. We're talking about space junk

Pruthvi Mehta 35:37

It's real life, it's real life, it's happening.

Karel Green 35:40

Literally. And it's just, it's just an absolute mess. Yeah, and again, it's just, I just, we're just maybe this one, I don't have that deep of a, I don't have that deep of like a chat about it, I just wanted to bring that to the forefront, and how like, it just extends even further into literal outer space, the issues that we're having, I'm only I'm about to put this on. I'm also going to put it in the actual chat on Zencaster. So everybody look at this, but also, I'm going to put in the show notes. But the European Space Agency has a distribution of degrees in orbit around the Earth video, that you can go and watch. This is on the show notes. And when I tell you, it's an absolute mess out there. I mean it like girl is going in every direction.

Pruthvi Mehta 36:31

Oh my god, it literally looks like you know, those like pictures of like an atom with like, fuzzy electron orbitals.

Karel Green 36:36

You know it.

Pruthvi Mehta 36:38

It looks like it's just like, like one of those patterns, because it's just, it's just covering everything. It's just all my goodness. Yep. Oh, my goodness, it's real. It's real bad. Like, I can imagine just aliens being like, Nah, that's so damn, you live like this. Like,

Karel Green 36:57

We're gonna have to make that meme for the show notes.

Pruthvi Mehta 37:01

I'm gonna do it.

Karel Green 37:02

Space debris.

Pruthvi Mehta 37:03

Thinky.

Karel Green 37:06

And it's just I don't know I am. This is like another thing. It's like a it's one of those litmus tests, like pulling back your trolley after you've done shopping, right? Because like, we know, nobody's doing and that's the problem. It's just about, you know, I know, we haven't found aliens. There's the whole Fermi paradox. Everybody's stressed about it. But like, the column, the fact that like, there is no, like, active way being done to sort out what's going on in space around the earth. And now we can't even do astronomy. Like, I just, oh my god and halfway through the video, try and get to one minute 30 seconds, they increase the the resolution of the simulation. So now that there's more dots than before, when you go to one minute 30 and look at how it increases. But like, I just, it's just like, yeah, again, it's like, you know, it's just something has to be done. You can't just follow the stuff in space and expect it all to be okay. Yeah, nothing bad is happening to us now. And it's not like there are Martians who can't get to Earth or anything. But it's just it's about the principle of it.

Pruthvi Mehta 38:18

Yeah, no.

Karel Green 38:19

Losing my mind here looking at the stupid simulation. How, how much? Again, if you look at it, if you if you are listening to the episode, and you're at like 30 seconds, skip to two minutes, because it keeps me keeps getting more and more dense. Like they show you more and more 30 seconds is just the initial, like, everybody skipped to two minutes and started getting...

Pruthvi Mehta 38:42

Yeah, I see it. It's real bad. I literally like, ah, like, you just see it jump from like...

Sehher Tariq 38:49

That's insane. I think what's difficult about this kind of stuff as well, is that I'm pretty sure it's so bad because there's just there's no real kind of way to regulate it yet. Yeah. Like there's no like who own space. like nobody really owns space. But this is why you... This is why like they have literal like courses at university talking about like space law. Because stuff like this happens like when you don't have things regulated. And you know, you just let like all the countries of the world just just you know, like do whatever they want just put whatever they want up into space and not really have any consequences of for it. It's just gonna keep happening and happening happening. And if you think about it, like all of as well like all of like the space launches that you have. That stuff is like human human stuff hurtling around space that you can't ever get back like this stuff. Like what is this? Like? What if an

alien just comes across this like random satellite that just like what the hell is his box flying past me. Like we're literally just throwing whatever we want out into space because they're like, we this space I what else? What can you do like that? No one can do anything to us that just that there needs to be some sort of like regulation around it.

Pruthvi Mehta 40:17

Yeah, yep. And then it's time it's hazardous for like working satellites, right. Yeah. Like that's, that's a huge issue. And when we get into like, I'm just thinking about when people have to start going into space, like, you know, more and more in the future. If we made like that far. Yeah. Like this will this will definitely this will definitely be a problem that will need to be sorted out. Yeah, I think it's called like, like Kessler syndrome, right. So, um, so I'm on the Scientific American article again. And then this. So Donald Kessler, who was like a retired NASA senior scientist, who literally did orbital debris research. And then late 1970s, he for foretold the possibility and scenario that has been dubbed the Kessler syndrome. So as the density of space rubbish increases, a cascading self sustaining runaway cycle of debris generating collisions can arise that might ultimately make low Earth orbit too hazardous to support most space activities. So like this space debris, like it's produced, right, and then colides on the space debris, and there's more produced, and it's just like, it just keeps on going.

Karel Green 41:23

Yeah, that makes sense. Because I'm on I'm still on this Isa page. And if you scroll on the bar on the right, there's actually a bit that tells you like what the things mean. So you can see there's like red objects, that means the satellites functional or dysfunctional, you know, yellow points are rocket bodies, and like the majority of it is blue, and blue is fragments. Yeah, and green is mission related objects and stuff like that. But I also wanted to say that at the 10 centimeter simulation, it shows you 34,000 objects, among them only 2000 are active satellites, you know, I mean, like 33000, out of 34000. Let me do maths quickly. 34000 equals is 5% is literally five 6%. It rounds up to 6%. I'm losing my mind. And then I've just put in the show notes. And I want you to all look at the image and Pruthvi put the image in the shownotes. So there's an article. But here's the thing, this framing, again, astronomy, starlink.

Karel Green 42:33

So starlink is working on Musk's SpaceX, BS things, which has got a bunch, he's putting up a bunch of satellites to just to make his own internet essentially, like make another internet provider.

Pruthvi Mehta 42:46

Oh, my God.

Karel Green 42:47

One of the things that like this is, again, another tangent, but one of the things that has like stopped a load of different people from being able to do in internet is the cost of fiber optic, Google is just about barely getting there. And it's still taking them years because you literally have to dig up ground like the ground and put in fiber optic. So don't get a lot of like competition that way. And it's the same with like now with styling. So on here you can see this is like a classic science image, like a collection of science images. On this Vox page that some guy tweeted out, he was trying to do some ground based astronomy and you can see the starlink satellites just completely going through this image. Images are now unusable. And I can tell you right now, obviously the white lines are the satellites over the time and I but a lot load of these squares are completely unusable. It's not even just the bits that they're going across, because the light will interfere with the light from the rest of it. So even though let's just say yeah, I could take out these lines. So you've still just lost a bunch of these squares to do science with and it's an absolute mess because he's how many let me just search up starlink real quick Starlink satellites. Yeah, so SpaceX providing internet access 1000s of mass produced small satellites literally 1000s so and God and it's just it's just going all over the place and like you said it's gonna go just sheer chance they're gonna collide with all of the other garbage that's already out there and it's just going to get worse and worse.

Pruthvi Mehta 44:20

The amount the amount of like light pollution and then that will because like, because we've talked about how the Mauna Kea observatories have had to be built right and it's like like the they will they will use stuff like problems like this to justify building those so it's like the worse like extra light pollution there as well just put all this time to build this, this this space telescope on this like important sacred rock because light pollution, and then they also causing the light pollution and really bad.

Karel Green 44:54

Yeah, like scroll down in the article again. So there's that huge mosaic image with all the lines that I was talking about, yeah, if you scroll down further, there's one that says starlink traces seen for a telescope in Arizona this thing. Yeah, that's not that square that you could put on. Like, you could mask out all of those lines. But now that squares unusable, because even if you mask out those lines, there's a bunch of like invisible light that will affect the light from the stars that you're trying to look at. Because, you know, like, spreads out much more than your eyes have sensitivity to, but, you know, a instrument will be able to count those photons and it will mess up the science. So now, the science images which aren't even cheap to get in the first place, because you know, there's the diff there's a difference between amateur astronomy and science images being that we need to collect as many photons as possible. Like if you scroll this Vox article is really good if you're listening please go it's great for this but it just shows the the absolute waste of it all that absolute waste of it all.

Pruthvi Mehta 45:56

Like I'm in I'm at the bottom of the article and literally it literally says that people are now trying to use like the sky at night for advertising. So basically, there are companies who out there hoping apparently isn't this one company hoping hoping to arrange satellites in the sky to get more people to buy soda? So they're basically trying to so they're trying to literally maybe open the thing in a new tab but they're trying to make the sky basically a perfect billboard.

Karel Green 46:24  
Disgusting.

Pruthvi Mehta 46:26  
Let's see if this site even loads.

Sehher Tariq 46:28  
I hope these satellites collide with all of the like dead debris of their wreck itself.

Pruthvi Mehta 46:33  
And can I just say that like there are loads of like, like fossil animals that use starlight for like navigation and stuff? Yeah, and like they're like indigenous like tribes and copy own cultures across the world that use information from starlight to either for navigation or for like you know, what important rituals and timing and stuff like that. And it literally affects everyone it can mess of important rituals etc. And um, there's like a lovely article by a Guest writer on our site, shout out to the RAS give us more money shout out to the IRS for like backing this. But one of the one of our most recent articles is by Abigail Frost, and she wrote a article about ancient indigenous Australia and astronomy. And she talks about how so many astronomical events were sort of predicted ages ago, ages and ages ago before modern scientists in the West, got to them by ancient like, Australian and Aboriginal people, and how they continue to use them in their rituals and continue to observe important events just by looking at the sky. And this will mess it up. So let's not do this.

Karel Green 47:51  
I'm sure I'm sure there's like a futurama I'm a bit here somewhere that we forgot where it's like looking up at the sky too. So buy more Coca Cola or something like.

Pruthvi Mehta 47:59  
That definitely exists.

Karel Green 48:01  
I'm sure that's happening all of Futura,a that got canceled and then came back up that is definitely a bit.

Pruthvi Mehta 48:07

It was so funny when they just like will like screw you flops and they just like one episode. It's like a giant like FU to Fox for like canceling the show to another. It was so good. But yeah, futurama predicts everything. Yeah, it's definitely in there.

Karel Green 48:22

Yeah, I mean, God, it's just this so dystopian. It's so dystopian. I just cannot believe I would if I said I would just start crying. I don't know why I would do. That's just so bad.

Sehher Tariq 48:33

Actually just no escape from capitalism, like literally no escape.

Karel Green 48:37

Honestly. Honestly, you're right.

Pruthvi Mehta 48:39

You're here forever.

Karel Green 48:45

Yeah. God, God. Okay, so, so everybody looked at those things. And then also look at Abigail Frost's article on our site. That was a really good read. I love reading that one.

Karel Green 49:01

Now, to pivot just to go through more stuff that we have in our show notes. I would like to talk about so we can talk about Australia's like white Australian immigrants. Should I talk about non Indigenous Australians or the real ones but I'm just I'm trying to change how I talk about why. Yeah, I'm trying to really try to change how I talk about white people in other countries. So we've talked about real indigenous real Australians right? But in a moment we're gonna talk about white colonizer immigrant terrible Australians in a moment, but I wanted to talk about as well we having in our show notes here and just the the way that like recycling culture is now and again the forcing, you know, I'm all for recycling. I I recycle, I do the best I can. But my local First of all, like recycling is so localized when I was in Nottingham and before Miss Rona came for our throats everything just have thrown in like one or two bins if you're lucky, you know, just do the best you can. Literally, but then also, I'm from London, I'm there now, if you're listening to this, and like, you know that we've got like three different bins here, but then we've also had through the post from our local council, like a whole lot of booklet of what you can and can't recycle. And there's a bunch of plastic things you can't put in the recycling anyway. And it's just such a mess that they aren't willing to, like, you know, fund things that actually you I'm sure, there are plenty of scientists who've been we've worked on how to recycle this type of plastic and this other type of plastic and stuff like that. They're not using any of that information and actually funding how to actually do it. They're not collecting stuff if they don't want to collect it. And just the idea, and then again, there's a document, there's an article in our document here, about how much they just shove, recycling

onto boats and send it to other countries, which completely cancels out the point of recycling because getting it they're producing so much carbon. So let's just talk about that.

Pruthvi Mehta 51:10

And like, and that's the thing, we're in this in this country, they have laws against burning like plastic and stuff because the toxic fumes and produce producers, but like in, they'll probably encourage to burn the plastic waste they ship over in other countries literally just making their environment worse, and making the air quality worse in the so called quote unquote, developing countries like no, you're just you're just literally like pooping all over them. It's like that. It's like that meme from a show, where it's just like shooting them. And it's just like, why would Why would they do this, like, that's literally what it is. That's also going in the shownotes I'm so sorry, for the amount of like random vines, just brought into this episode.

Karel Green 51:57

To make you say, that means we're gonna have to make so many of them. That's what hurts. So many of these bespoke memes are gonna have to be made by awesome falling apart, just oh my god, anyway. Though, I can always guarantee there is no international legislation, making sure that the countries that shipping all of our waste is actually recycling them. I remember seeing like a river in China that was just chocked full of like plastic. And it was back during the plastic straws fiasco, which has done nothing, my ad, you know, another example of like performative diversity without plastic straws fingers done nothing but hurt disabled people. But anyway, these people were getting pennies, if anything to actually recycle it. And isn't there now being pushed back from other countries being like, stop sending us all of your waste, because we're not going to buy this from you anymore.

Sehher Tariq 52:53

I think Indonesia was one of the countries where the UK sends a lot of their recycling. And there was, I think it was last year or the year before, they said that they were going to be refusing some of the recycling that they were getting from the UK, because it's such bad quality. Pretty sure that's what they said like they. So when it comes to recycling, a lot of people don't realize you need to like rinse things through. And not everything that is recyclable. For example, if you have something that's paper, like, you know, like a pizza box, that when you before you put the pizza in it, it's recyclable, it's cardboard, but after you've put the pizza in it, and it's got grease all over it, that's not necessarily recyclable. And, you know, if people have like a ketchup bottle that they can recyclable that is recyclable, but they don't wash it out. Like that's not like that's extra work. A lot of the times people don't really want to deal with it, if they, they if they have to, like do all of this washing of this recycling and stuff. So it's like dirty recycling that is really difficult to deal with. And they just, they were going to refuse the shipment of recycling because we're so bad as a country at like recycling ourselves. And I guess a lot of that is kind of down to Well, one, you know, the UK government be really lazy and not having recycling, like

initiatives themselves. And not also not educating people on how to kind of recycle, like, a lot of this comes down to like if you want the public to recycle, you want to encourage that kind of behavior. You need to educate people on how to actually do it. Because some people don't realize that you need to kind of wash things out before you recycle it. Or you need to do like, there's certain items that you can't recycle. They just kind of say, Oh, this is you need to recycle and they just like go along with it. Like It just kind of gives off that whole fake vibe of, you know, we're telling you to be green, but we're not actually as a country going to be green. So, yeah, that's a whole big mess...

Karel Green 55:12

hold. And more than that, it's, you know, they could actively wash it out themselves, as opposed to telling people to do it themselves, right, they could wash these things out themselves, instead of trying to get individual people to do it. And then they could, again, just pay people give people a job, that I want a job that is, at least at the worst, like neutral, like I could never work for, like BP and just know that I'm dumping in the oceans some way somehow, you know, and stuff like that, whether I'm actively frying stuff in the ocean or not, like even contributing towards that. You know, just it's like personal ethics and that level of things. And so many people would love to work for like recycling. Because it's, it's an actively good thing to do, working on making sure that stuff is cleaned, and washing stuff out, not by hand, obviously, but that, you know, you could pay a team, and give them the means to be able to like process things and wash them. And like you said, like, like I was saying earlier, when we got this thing, you can't know individually, what each specific piece of item you own, like what type of like plastic is made out of? And whether or not that brand of plastic is recyclable or not? And no, you can't expect people to go through that because ours is very general. So if it's a bottle, you can't recycle it. But if it's a tray, you can recycle the film. And, you know, it's just it's not, it's not feasible for people to get now 100% right all the time. So why can't they pay again, paying people to develop ways to do this. So then you can send just all of your plastic, unwashed, to the recycling, and then the recycling people washing sorted. Like there is a whole ass job that should exist, you're talking about. Side another side, though, I'm reading a book recommended by Pruthvi. But it's written by a white man. So I will not formally recommend it. But it's a book called \*BEEP\* jobs. It's a book about how a bunch of jobs only exist because of capitalism, like middle managers and stuff, and how like actual real jobs like cleaners and things need to exist, obviously, or like transport professionals and stuff like that transport should be free people should be able to go anywhere on this planet should they wish blah, blah, blah, right? But you don't need like a random CEOs, that is not a real job. Like if the CEO if every CEO disappeared, like the world wouldn't end. Whereas if like, doctors disappeared, everybody would literally die, for example. And like a job that is not \*BEEP\* needs to exist. People who saw our recycling, and they just don't want to pay them, they'd rather just tell others to burn in China, I guess, like, I'm in so much pain.

Pruthvi Mehta 57:52

It's awful. It's like, I mean, all these companies are like looking for the bottom line, right? And looking to protect their bottom line. And it's like, there are definitely, you know, plastic quote unquote, stuff out there that can be produced, which are completely biodegradable. But guess what, it might cost too much money to manufacture them, so they're not going to invest in it. So they will continue to perpetrate this amount, like massive amount of waste on you know, with prop with a larger profit attached to it, then no waste with less profit attached to it. Actually, that's the world we live in. And it's awful.

Karel Green 58:26

Yep, there's a whole good article in our again, in the notes, called on on greenpeace.org. That's called the biggest problem of carbon offsetting is that it doesn't really work. And it talks about, like, what carbon offsetting is, and how it's not really real. And you can't just plant a tree and say that you've offset the carbon.

Pruthvi Mehta 58:45

Right? Exactly. You can't Yeah, basically, like I just, he just reminded me about the whole like the plant. So planting, planting, you know, like a trillion trees or whatever BP pledges to do, doesn't offset anything. And a lot of the time, they will actually like I think I've mentioned this in the last episode, but I think I said that they will literally just destroy whole areas of like forests which are actually there, right? Which, which indigenous indigenous populations live in and I wanted to plant their, you know, trillion trees, hashtag save whatever, you know, forests. So they're kind of their own forests, they did demolishing forests to rebuild their own forests, and they're also driving people off their own land.

Karel Green 59:25

You know, it you know, it's nowhere near the same level of bad advice, just wanting to bring out that my local park and I live in a pretty like urban, I live in London, everybody knows this. But I live in like a pretty urban area of London. So they have a local park, but it's like for like such a large area of people. There's just no other green spaces. And I sent a video to Pruthvi and our other friend as I was going for a walk in this park, and I swear to God, I'm just losing my mind that I need to contact my literal council about this. They cut down a bunch of like fully grown trees. These and replace them with like little twig baby trees. And I cannot I cannot work out why they just put the cut down a bunch of trees and planting more trees in between where they were the video. I cannot express to you I just I don't understand why they did this. My I just for the sake of just using our money just again, you know, you can't be like, Oh, we shot we scratched a bunch of trees in the Amazon. So we planted equivalent amount of trees, you know, in mind for the Midlands of the UK? Because yes, you've planted trees, but trees take decades to grow. And you need quite a lot of them to make a significant difference on the amount of like carbon that they absorb. So like, you know, even you can't even I can't even remember if you need multiple little tiny trees per like actual big tree. But make it make sense. I'm just oh god, I'm losing my mind. I just why why they cutting down trees and act in my

planning smaller ones somewhere else cancels out. That's not how it works. That's the thoughts. But yeah, read this Greenpeace article by Alia Al-Ghussain, she looks amazing. But it's a really good article on carbon offsetting and how that's just another part of the scam by again by BP. And I think she actually talks about like, No, she doesn't say BP, which he says oil companies and people like that. And she just scalps them dead. But yeah, it's again, that's just the equivalent of the stupid personal carbon footprint and carbon offsetting they are hand in hand.

Pruthvi Mehta 1:01:38

Literally says that, you know, we would have to plant and protect a massive number of trees for decades to offset even a fraction of global emissions. Right?

Karel Green 1:01:46

Correct. Exactly.

Pruthvi Mehta 1:01:48

And even then, everything's canceled out all the time by you know, droughts, wildfires caused by I don't know, gender reveals, like three diseases and deforestation, which are caused by the same companies. So...

Sehher Tariq 1:02:02

Yeah, I think a lot of the time as well, that these like initiatives, I know that airlines use it a lot, where you buy like, your plane ticket, and then you pay like a contribution of like five pounds on top of your ticket for carbon offsetting. And it's just to kind of, it's just money making essentially.

Karel Green 1:02:25

Like, you're just doing that, why am I paying for that?

Sehher Tariq 1:02:29

It should be... Yeah, it should be the the the flight like the airline's initiative to do that. Not the person that not the person traveling.

Karel Green 1:02:40

Yeah, exactly. I just, I also think that the idea of carbon offsetting, I think it's really funny that, like, the idea of them being like, we could literally like choke this seal, but you didn't pay the five pounds, so we're gonna kill this seal. And everybody who did pay the five pounds, we're gonna let this seal go. Like they if they have, if it costs them five quid or whatever, it's always more than that is plane tickets, let's be real. But if it costs them five quid to fix the ocean, and they have the means to do it. And then actively choosing not to that is just evil like that you just like, Well, you know, I have a seal in my hand that I could crush to death. And I'm gonna do it because they didn't give me five pounds. And I could just put it in the ocean. And I'm not gonna do that, like, I just, I'm losing my mind.

Karel Green 1:03:28

Again, again, shooting, shooting, shooting, why would they do this? Like, that's...

Karel Green 1:03:34

That meme's funnier now that Hannibal is a landlord and nobody likes him...

Pruthvi Mehta 1:03:43

I keep thinking. So he basically put this on this LinkedIn on an article in the, in the sort of our little notes that we use for the podcast. And, again, the only article every single day, it's just getting closer to the truth. And it just is the truth now. So the title is scientists who politely remind wild that clean out energy technology ready to go literally whenever. But again, like the problem, the bottom line is like capitalism will always only invest in stuff which produces profit, right? So clean energy clean energy technologies, not gonna do anything for people's pockets. It's not going to do anything to increase revenue, and therefore they're not going to lose it. And that's that it's far more it's far more profitable to continue drilling for oil, you know, fracking, etc, etc. Rather than investing clean energy, and that's just that's just how it's gonna be. It's awful.

Karel Green 1:04:48

wanting to say because I somehow managed to talk about crushing seals in this episode. Was that again one of the an article in the show notes is just talking about marine life and iron. I'm used to her telling me about this in literal uni. And just basically the, the absolute amount of like sea travel and just traffic on the seas. Because again, if you look up like a map of sea travel this as we know, when that was it, the Suez Canal got blocked, that was funny, and how everyone lost all of their money as they deserve to. Yeah, a majority of travel on the sea is by like these huge ships carrying freight containers, just across the ocean just all the time. And like, there's a huge problem, because on average, they'll have these massive metal boxes, as we all know what freight containers are. But they'll like the average, like sea vessel will don't lose like five of them along the way. That's mad to me. And that just sinks to the ocean and kills everything. And then also, because the sound is so loud by animals that need sonar, especially like whales that rely on sonar across like 1000s of miles, right, not just like, Oh, it's not like local, like all they need to work out which direction their mate is like up the road or whatever. In the road in the ocean. Yes. It's literally overnight, hundreds and 1000s of miles and they can't hear anything. And now they're getting lost. So more bad, more bad stops shipping containers stop.

Sehher Tariq 1:06:16

Yeah, and there's, there's a, there was like a graphic I saw the other day. And it was like, of all of these, like ships traveling around on like, their routes and like the different routes that they were taking. And there was a it was tracking like a whale or a blue whale or something. And it was tracking them in their, like feeding grounds. And it had to keep dodging all of these ships. And it just it literally looked trapped. It was so sad. And yeah, like it's, it's not just affecting their communication, it's that

you're affecting, like where they feed, because they need to avoid the ships not like to not get hurt and not like, you know, have, you know, like, dam... like damage their hearing and they just terrible, terrible, terrible, I can't.

Karel Green 1:07:11

And I'd also like to like to quickly say that if you do look up any of this stuff, know that noise level in decibels people know about decibels, right? That's actually a logarithmic scale. So something that has a noise level of of was it of two is 10 times the noise level of something that has a noise level of one. All right, that's, that's how logs work. I'm in pain, right? So when something is a noise level of like 150 versus like something else, there's a noise level of like 250 we're not talking about Oh, it's 100 more 100? more noise? No, no, you're talking about like literally 1000s of times louder. So just remember that all of these things are on a logarithmic scale. And they're already just my massive I went on the article that's in the show notes on nature. And there's an infographic in there called sea of the sound. And like you know, the two loudest things under the sea on the CEO of quake or CIF was volcanic eruption, right. And then, then just below that is a seismic airgun array from sonar in ships like the literal only things now other than that in the ocean is a literal earthquake, right? Like do and they can't hear anything. The animals they can't hear anything. They're just falling apart. I'm losing my mind. Like I just you can see on there says about dolphin clicks and sperm whale clicks. And humpback whales and brown head bowhead whales. So you can't like they have no chance of being able to hear anything. Maybe a blue whale can hear like one other thing, but also a supertanker. So I guess not by correct that's just absolutely just destroyed. Like, help them...

Pruthvi Mehta 1:09:00

I'm snapping shrimp.

Karel Green 1:09:02

Okay, tag yourself. I am. I'm the supertanker.

Pruthvi Mehta 1:09:08

Love it. Love that for you.

Karel Green 1:09:10

Thank you. Thank you. I like how goldfish is also on this. They made sure to put that in there. But no, no, I'm also I'm fish chorus. That's funny.

Pruthvi Mehta 1:09:20

Okay. Yeah.

Karel Green 1:09:20

Yeah. Okay.

Pruthvi Mehta 1:09:22

I'm sperm whale. Enough, you know,

Karel Green 1:09:31

Solutions to this like stinky absolute mess. garbage. Okay, so the first thing that I would like to point out is that again, I just I hate Bill Gates, so much the rich like Bill Gates and all the BP hoes and all of them, quite literally have the money to fix climate change and actively choose not to Bill Gates who will write a whole book about what we can do to fix climate change. And then moan about giving a single brown person, a vaccine that could save their life. Because it won't, it would cost him pennies when he owns 130 billion billion billion dollars. \$130 billion. Like cannot be me. So I think you need to. And I again, you know, there's only so much you could do because the rest of us don't have that money. But start directing your, like problems with climate change towards those in power doesn't necessarily have to be as high up as Bill Gates, but like, you know, to companies are not the individual people. So if you see somebody who's like throwing out plastic, instead of like, being like, Oh, you need to wash that out and make sure it's properly recycled and stuff like that you could be like, you know, it should be easy for people to recycle. Why is this company making stuff that's not easily recyclable, I should contact them and do something about it. So like hold those powers be responsible for their actions and not just like a dying person who has to buy like Sainsbury's basics to survive because it's literally not my three pounds 50 for a sack of rice, like I'm about to lose my mind. So...

Pruthvi Mehta 1:11:14

Yup yup. Also on like, sort of, and no big company is going to do this. But but like you know, investing in actually you know, biodegradable materials instead of on know producing a load of plastic and then shipping the so called recyclable plastic to like, you know, lower OECD countries, maybe, um, maybe, actually because like, again, like the only article said that is, you know, green energy and biodegradable materials literally ready to go whenever. But let's let you know if if, if companies will stop looking at profit revenue, and start investing in actual, you know, solutions to the problem, ie you know, recyclable, actually properly recyclable biodegradable materials, instead of just go Hey, what's the cheapest material to produce this product was selling out of Okay, this plastic that should old let the lifetime of god damn like proton. Okay.

Karel Green 1:12:12

Age of the universe plus two. God damn.

Pruthvi Mehta 1:12:16

So yeah, investing in actually important things is a good idea. But they're not going to do that. But still.

Karel Green 1:12:23

Yeah. I'd also like to the other thing that I wanted to bring up and I cannot believe I even have to say this is just shut up about eugenics.

Pruthvi Mehta 1:12:32

Shut up. Shut up.

Karel Green 1:12:34

There is absolutely no, what there is, it's not even like, Oh, this is a bad idea that is being made by my marketing executives. There's just absolutely no like way at all for anything that you can say that, oh, we bless people in countries need to stop having as many kids like, they're all I can't I'm losing my words because I'm so angry. There isn't like Pruthvi showed showed of the statistics before you know, there is the the the horrible stereotype of people in like South Asia having these families of a billion people, when actually The truth is people in South Asia actually bother to actually, you know, harbor a community with their families. Whereas a bunch of people in like the West will only know their parents, and we'll just talk stop talking to their siblings when they're older. So then their own kids never learn, like their aunts and uncles names. And then that's it, but it's the same number of people, so shut up. You cannot also you just there is just no reasonable or like decent argument to tell people to stop having kids. Shut up about eugenics.

Pruthvi Mehta 1:13:45

Yeah. Population and environmentalism is just like a racist myth, basically. And, you know, like we've mentioned several times in this very episode, how how, how Western countries will be the main perpetrator of the problems and then shift the problems IE by literally giving junk to other countries, or, you know, blaming them for overpopulation, which isn't, which doesn't have any impact on the environment. Like, you know, they like there's just so much of shifting the blame to the wrong country here and I just I hate it and eugenics is like a very eugenics and overpopulation that's what it is eugenics right, is literally one of the like, one of the biggest, most horrible, like discussions to have, and it's still for some reason, something that's brought up by racist white environmentalists, like stop stop literally,

Karel Green 1:14:36

Literally, like there's literally no reasonable way that you can even swing it's just sharp, it's just shut up. losing my mind. So that's, that's the eugenics part. I can't leave I've had to I'm gonna have to put in a trigger warning for eugenics. But anyway...

Sehher Tariq 1:14:54

And then, I think, what the point now, I wanted to make this the solution that I have is about the space junk. So there needs to be more regulation over what can be sent up what you know, like, just to limit the amount of crap that's just spinning around US. And also, there needs to be more of an effort in actually trying to remove the, the, you know, all of the debris that's out there. And I know that there are companies and there are initiatives out there to, to, you know, develop a way of actually removing space junk. So I know that there was, let me find the name of it again, though, there's a company I know that's based in Didcot. And they are

actually working on a meth bike kind of vessel, not vessel like, just machine essentially, that they can send up but actually will bring down and satellites that are out there under their lifetime. And they're like life or bring down any like large bits of debris. And it's called AstroScale. And I'll put the, put the link in the show notes as well. Yep, yep. And I think they're like one of the first or one of the only private companies who are actually doing work to develop a solution like that. And that should be a world wide effort. There's a lot of, you know, clever people around the world who can, you know, think of stuff like this literally give the idea to the space agency in India, who can do it for like, a billion times cheaper? So...

Pruthvi Mehta 1:16:50

Yeah, yeah.

Sehher Tariq 1:16:52

And, yeah, that that that would be really good solution to actually, you know, reduce the amount of rubbish that's flowing around us. And, yeah, that's probably the main thing for me in terms of solutions.

Pruthvi Mehta 1:17:07

I love it. Thank you. This is a really good, this is a really good site. And yeah, they've even Yeah, like the LCD, like you mentioned, like the world's first commercial actives, debris removal demonstration mission. And it's wild, because we've had so much space to breathe. And when do we stop putting satellites and crap up in the inorbit, like, so much, basically, for ages. And this is the first one like...

Karel Green 1:17:29

Again, we keep saying this every time that you need to work with grassroots activism. Just give them money, and don't try to over absorb them into the machine. Again, I'm just gonna keep stabbing Bill Gates with my bare hands. Just like the instead of like him releasing a book on environmental activism, like you could he could just pay people to do the things that he said, I get that. It's much better to actively give money to the people who are trying to do the work already without being billionaires. Yeah, then it is to like, hope that a billionaire will tell the masses to all stop using, you know, receiving non recyclable plastic. And that's, you know, job done, he's released a book he can now like, wash his hands of this forever, and never have to do anything. Like I'm losing my mind.

Pruthvi Mehta 1:18:21

Yeah, yeah. Um, and like, I think Yeah, again, like I mentioned, BP, destroying whole forests, where like, indigenous people live, and just ruining their, their livelihood in order to for their fake, you know, capitalist green schemes, right. Basically supporting and giving money to just helping these indigenous people. And there definitely are communities out there to stop them from being like eradicated. Like, you know, Bolsenaro out here, just like letting letting BP destroy the Amazon. But there are people who live in the Amazon, who, whose home is the Amazon who've lived there,

like tribes who have lived there for like centuries. And they deserve to have their way of life and their existence and their home protected and not cleared out for big company. So um, yeah, just getting in touch with these activist groups and helping out in any way you can. It's a good thing. I'll obviously put links to that in the show notes.

Karel Green 1:19:20

Yep. One last thing that I would like to say, and again, this might just be more of a me thing. But again, just like moaning on Twitter with a hot take, that gets even if it gets like 100,000 retweets is not the same thing as like contacting your local the local people and responsible for things, and like complaining to them about it and actually trying to get like an answer, and getting them to like, respond. So like I was saying before, like you could contact like your local representatives or wherever, and just be like, you know, why? Why aren't these made to be easily recyclable? Why must people You know, wash out and separate them into 18 different stacks before you will take them. You should be paying people to do this because this is a difficult job and it clearly needs it because clearly a role that needs to be filled and stuff like that. So I just think, you know, actively contacting people who are responsible for things as opposed to putting up like a, I don't know, an image on Instagram. You know, 400k likes. It's just like, they don't care. They're not going to see on Instagram and be like, Oh my God, we got clapped on Instagram time to change our ways sweeties, though. It's the perfect way for them to be like, Yes, go and moan on Instagram, we will take our money and go home like it. So yeah, please. I'm sick of people doing stuff just for like the clickbait online for like the was it apocalypse porn? Is that what you call it Pruthvi?

Pruthvi Mehta 1:20:57

Yeah, I think so. Yeah.

Karel Green 1:20:59

It just is so annoying. So go in. So it'd be like, look at this horrible fake graphic image.

Pruthvi Mehta 1:21:05

And that's so much of the news. Now, that's so much of the news.

Karel Green 1:21:10

Go and do make, you know, go and actively try and make a change.

Pruthvi Mehta 1:21:14

Yeah.

Karel Green 1:21:15

Okay.

Karel Green 1:21:38

I'm gonna go first, because I think I've had this Twitter page for a whole day, immediately in the show notes everyone is. So I've been watching this show called Invincible and is after you may have heard of this, if you've read the comic, I had not heard of the comic before the show. But there is a comic and the comic is finished. So if you want, you can just buy it from Image Comics and read the whole thing. But it is a really, really, really good show. Season One is now complete, it's on amazon prime. If you can't, if you don't have amazon prime, I would recommend finding it and watching it. I will not say how, but go forth comrade and find that. But it's a really, really good show. And the main thing I wanted to point out was the cost. And first of all, they have gone back into the comic, and they have changed a bunch of the characters into in the TV show to be more diverse. So one thing that really struck me was that the main character, he is a mixed well first of all, rain, big overarching thing, diverse characters, and all of them are casted racially appropriately. Alright, so you can't see it in this image, because it's comparing them to the comics, but the actual TV show matches that the people who voice them, which is really nice. So the main character, whose name is Mark is a mixed race Asian man, his his mum is a Asian woman. And his dad who is called only man is like a superman clone. He's He's, he's technically an alien, but he's a white man. So so he's mixed race, it counts wherever. And what really struck me was that his main love interest and spoiler they don't end up together, but they do stay friends, which is nice, is a woman called Amber. And in this image, you can see that amber is like a white blonde person. They've changed her in the TV show to be a black woman. And you just never see that I've just never seen East Asian man and a black woman who are in a relationship, just and that's it. And yeah, but to actually explain the plot of the show in a minute. But there they are literally dating and I was just like yelling because it's so good. And I'm very happy. I'll try and find the image of the actual characters. But also there are more there's more than one black man and they're not all voiced by the same black man which is what shows do they'll have like three or four black characters but they'll have one black guy voice all of them and that drives me insane. right about that and then there's there's black again like I said they made one of the main love interest into a black woman they made one of the there's a character in the show in the comic called Green goes to is a black man who has powers to turn into a green ghost. But in the show, they make her a black woman and then she's voiced by sneak for Martin green. So it's just really good. And yeah, so basically the characters are a bit I'll give just a quick overview the characters are a bit of like a Justice League clone. So you know you've got your like fake Superman Who's this Omni man person you've got like a fake Batman a fake flash and stuff like that. And they live in this world and right at the beginning, okay, big spoilers omniman is evil Who would have guessed and he literally kills Rest of the Justice League I should also mention the show 18 plus bruh this.

Pruthvi Mehta 1:25:06

Thank you.

Karel Green 1:25:07

The the amount of killing that happens in this show my God, anyway, yeah, he goes, he kills all of them. And then he hides it. So like he gets beaten up because they do, you know, fight back pretty well. But he kills all of them, the guardians of the globe, that's what they're called, he's technically not a member, but he did work with them. And then it was hidden. And everybody was just like, Oh, my God who killed the literal guardians of the globe, somebody executed the Justice League, people be like, what is going on. And then like, there's like a government agency, obviously. And they work out that it was on the man. And it turns out that he is evil. And it's from like, an alien race those just like an empire. So he's tech, he looks like he's in his 50s. But he's like, 1000s of years old. And what they do is that each one of the race goes to a planet, and they will like, live on the planet for a bit, and then they'll just take it over. So they'll live on there to make sure that there's no one stronger than them. And then they'll take it over. And it sort of goes on from there. So there's the coalition of planets who are trying to stop them. Because he's a vulture, my and they're just like, Ed, you know, it's literally like colonialism, cough, cough, you know, they're trying to stop them from literally colonizing the universe. And then mark, who is his superhero name is invincible. He is obviously half human. And his dad is just like, your vulture might come on this take over the planet and Mark's like know what what are you talking about? Are you mad? And he was just and he was like, although you love me, you're not gonna do this. And the dad was like, Nope, I see your mom as a pet. Because she lives for what, like 70 years and dies. And then Mark's is like, That's messed up and beats him off. And it's such a wild ride. And yeah, the show goes from there. And it's really good. And like I said, completely racially appropriate casting blacks and Asians all over the place, including black women and Asian women all over the place. Mark's best friend is gay, and it's not made a joke off. He's just like a gay person. And it's nice. So yeah, watch Invincible is really entertaining show. There are much better, like Synopsys of the plots out there. I'd recommend finding those and reading it at least. And yeah, if you've seen the comic, the show is much more diverse. Like I said, any of the characters in this image that look why but are voiced by somebody who isn't why they have changed the color of the character to match them. So Rex splode, who is voiced by Jason, I can't see his surname, it's too small, but he's an Asian man. And so Rex splode is also an Asian man in the TV show, for example. So even though he was white in the comics, so...

Pruthvi Mehta 1:27:47

Jason, Jason Man can't see his surname with me. He's in like a lot he plays like he's a great actor and he plays like a load of people in like, The Good Place and Brooklyn line like a really good like sitcom actor. Nice and almost all of his all of his characters are just like absolutely wild. So yeah, anything with Jason is just good.

Karel Green 1:28:09

Yeah, I've googled it Mantzoukas.

Pruthvi Mehta 1:28:12

Mantzoukas. Okay, yeah.

Karel Green 1:28:14

Yeah, so yeah, we just watch the show. I'm going to want to find the characters I'm going to find an image of the characters in the TV show as well just for comparison. Look at the show notes you know, racially appropriate casting black woman dating an Asian man takes everywhere.

Pruthvi Mehta 1:28:32

And Mark and Mark Hamil's in there he's just...

Karel Green 1:28:34

And Mark Hamil's in there and he is just nice. He's feral and nice and it's great. And Sandra Oh, Sandra Oh is in this is the main characters mom and she's also great.

Pruthvi Mehta 1:28:47

Yeah, like I will I have never watched anything about Grey's Anatomy in my life, but I'll only watch it because of her.

Karel Green 1:28:54

Never watch Greys. Apparently it's still going I don't know what the show is. Literally still going on like season 50 I don't know just

Pruthvi Mehta 1:29:04

If it's still I thought I stopped in like a 2000s what one

Sehher Tariq 1:29:08

Nah still New Seasons coming out. I don't watch it but I know people who love it.

Karel Green 1:29:14

Good for the main actress who is still getting that bank for like years later.

Pruthvi Mehta 1:29:20

I have I have a recommendation. So my book is my book. My recommendation is a book called This Is How You Lose The Time War. And it's a it's a obviously it's some I'm just gonna do sci fi as a sci fi book on and it's written by it's co written by two authors. So Max Gladstone and Amal el Mohtar, I think I'm saying her name correctly. But it's basically it's excellent. It's like a queer like science fiction, like love story, but it's written in the style of poetry as well. Um, and it basically the synopsis is very simple. And it's just you have these two, these two agents called Red and Blue. And they both have they're both part of what have like warring factions in this universe and why I like this book, it's very vague and you Only you only get the story through the letters that both red and blue write to each other. So they it's like a typical like enemies to like lovers like trope, which is just something I live for only.

Karel Green 1:30:27

It keeps me alive, enemies to friends to lovers.

Pruthvi Mehta 1:30:32

Love it love that. But yes, you basically have these two agents travel back forth through time. And there's like multiple universes called strands. And they both belong to like different empires who are at war. So they're basically meant to be enemies, right? But they figure out a way to leave each other secret messages throughout time and space. Yeah, right. Yeah,

Karel Green 1:30:53

This is exactly what I love, is the fact that like, if you told me like to list stupid things that I would love, that's it.

Pruthvi Mehta 1:31:05

Good. And so they're both so they both have pronouns she her right. Um, so but they're also basically Ama and Max have talked about this book we co wrote, right? And they've said that both red and blue and that that these are the only names they're known by in the entire book, right. Red and Blue both use she her pronouns, but neither fits the heteronormative mold of femininity. And they perform gender and like a dozen different ways about like I say, and they also don't have like one solid form. So it's, it's, it's constantly mentioned that they are sort of like humanoid humanoid asked, and they can shape shift into different forms, right. But I remember a bit in the book specifically, specifically, where blue is just mentioned and like she's basically reading this letter that red sent to her both mentioned that she has like dark skin. And that's explicitly stated so like, even though they literally have different forms, or co author or author our time and space, they can literally shape shift into animals, etc. Um, like one of them has explicitly stated to have black skin when when she is in a humanoid form. And I think that's great, because that's just again, so rarely mentioned. In science fiction, that character is specifically has dark skin. And it's, it's just really, it's just really beautiful. Again, it's written like poetry. So it's not like a lot of a lot of stuff isn't tangible. But it's just so beautifully written. And I'm just crying half the time while reading I even made a meme that was like retweeted by the author, and I was like, screaming. Um, so yeah, definitely, definitely read it. I think it it one, the one is won awards for like best short fiction and the Nebula Award for Best novella, and the Hugo Award for Best novella, so these like two big thick awards, it's both won. And yeah, I just...

Karel Green 1:33:01

Does it have a fun does have a nice ending?

Pruthvi Mehta 1:33:04

So that's the thing I haven't actually got to the end yet. I'm like I three quarters of the way though, I'll let you know.

Karel Green 1:33:10

The show notes preview we'll put if it had a good ending or not.

Pruthvi Mehta 1:33:13

Yeah, because again, I again, I don't I know that so many queer romances will just either end on a cliffhanger. Oh, and on like, sadness.

Karel Green 1:33:21

Yeah, I gaze for no reason. And it's awful.

Pruthvi Mehta 1:33:25

And yeah, I literally do not know how it ends. And again, the authors are allowed to write or however they want to, um, but I will, I will basically make sure I put that in the show notes. Um, but anyway, you will cry anyway, because it's just beautifully written. And the way they express their love to each other throughout these like poems. And these letters, they write to each other. It's just so pretty. It's just so beautifully written. I read something you're like, I wish I could write like this. And it's so good. It's so good. Yeah.

Karel Green 1:33:56

I know. You say the authors are allowed to write stuff as they wish but I will complain if they take these two people and I slowly you can choke sweetie.

Pruthvi Mehta 1:34:08

Yeah, I doubt that happens. Again. I haven't finished it. But like, I feel like I would have read some books. I've read so many spoilers about this. While reading it because I've been crying and looking for people to cry with me. Um, but apparently it's just like a feelings roller coaster. And I really like how like the again, the gender identity. It's just like, there's no adherence to family Auntie at all. It just it just depends what literal time and place in the universe they're in. And that's great. That is great.

Karel Green 1:34:37

I'm so happy. I hope they have a happy ending. I hope they just was over time to kiss forever.

Pruthvi Mehta 1:34:44

They could find each other and kiss and then that's it that's kiss kiss fall in love.

Karel Green 1:34:50

That's it. I can't wait. Nice.

Sehher Tariq 1:34:53

Okay, my turn, I'm guessing. So I'm going to recommend A TikTok account because, you know, I, I don't spend much time on Instagram or Twitter anymore because TikTok is my thing. So I'm going to recommend an account called SketchyBambi skate, sketchy underscore Bambi and she is an 21 India Indian woman who lives in

London and I, she, she's just like, you know, the standard kind of online content, but I mostly know her from her, you know, kind of discussions about, you know, racial issues. And in particular, a lot of talking about a lot of misappropriation of Hindu, you know, kind of, you know, Hindu religious practices and also Indian culture, and just calling out like, the cultural appropriation of, you know, like, a lot of things for I'm just trying to think of an example. So, one of the recent kind of controversies that has kind of happened. Kind of highlighted. Oh, actually, you know, I literally just came across a video about talking about overpopulation and the idea of it being racist in eugenist, eugenicist?

Karel Green 1:36:43

I can't think of the work for eugenics.

Pruthvi Mehta 1:36:48

Eugenics-y?

Karel Green 1:36:49

Yeah, let's go with that.

Sehher Tariq 1:36:49

It's a it's a it's it's a racist, eugenicist fascist myth, essentially, that's so she actually does has a discussion about, you know, why is such a problematic trope, saying that overpopulation is, you know, the cause of, you know, the environment and being going bad and going to hell. So, you know, there's a, there's a lot of stuff that she talks about that, you know, we kind of discuss ourselves. And yeah, I think this is I'd say, there is very much like an account that's about social commentary and talking about things that are, you know, quite current. So I say that, yeah, if you want to have something to watch where, you know, they talk about things that are going on in the world at the moment, especially in UK politics, as well or, you know, talking about things that are kind of popular on tiktok in social media that might, you know, appropriate or have, like, you know, kind of a, you know, there's like a racial issue behind it. She usually does have like a discussion about that. And I think her points of views are really, really interesting. And I agree with her a lot of the time, so I'd probably go check her out.

Pruthvi Mehta 1:37:17

She yeah, I'm on her TikTok right now. I'm, like, I'm just scrolling through. I haven't like clicked on the TikTok yet. But one of them is literally about how, like India gave the UK 10 million vaccines. And then yeah, you have countries in return in the West hoarding their vaccines. It's just awful. And she just looks great.

Karel Green 1:38:40

The vaccines literally have a shelf life as well. So there's literally no point to hoard them.

Pruthvi Mehta 1:38:44

They're expiring.

Karel Green 1:38:45

They just go bad.

Pruthvi Mehta 1:38:46

Yeah. Oh... Thank you for this. This is a lovely TikTok. I should get into TikTok more.

Sehher Tariq 1:38:53

You should.

Karel Green 1:38:54

I know we moan about social media because it's bad and we are correct to say so. But also it really does make it accessible to for people to like, do activism and stuff.

Pruthvi Mehta 1:39:06

Yeah, like so good. I've spent like most of this week on Twitter like helping people on Twitter out with regards to like leads for like ICU beds in India and Delhi and just getting like collating information because they can't turn to the government for help. So they're just screaming on Twitter. Trying to like send verified leads their way and sometimes the help sometimes it's it's too late and it's just it's just awful. But you know, social media does help you know, try and send some resource people through like the hardest times and stuff and...

Karel Green 1:39:41

And it does it quickly. So yeah, yeah, that counts.

Karel Green 1:39:49

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Karel Green 1:40:50

Okay, so this is Episode Five of season two, isn't it?

Pruthvi Mehta 1:40:54

Yeah, I think episode five.

Sehher Tariq 1:40:56

Yeah.

Karel Green 1:40:56

Okay, well, we're just gonna have to hope because I've lost track of time.

Pruthvi Mehta 1:41:00

Mood.

Karel Green 1:41:00

It's been a rough couple weeks for us but we're still here and we're still yelling.

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