Talk	[A powerful new neurotech tool for augmenting your mind](#)
Introduction	Conor Russomanno built a low-cost single-channel EEG(Electroencephalogram) system to detect brain activities, and he successfully saw his brainwaves displayed on the screen. He then started an open-source neurotechnology company in 2013.
Details	They have created a multimodal bio-sensing headset that can measure the user's heart, skin, muscles, eyes, and brain, and enables Christian, a guy with genetic conditions, to control a drone's flying despite his physical limitations. The talk ended up with Christian saying that he believes technology can empower disabled people, and create a more inclusive and accessible world for everyone.
Thoughts	I was amazed and touched the moment when I saw the drone move under Christian's will. Most of the time when we think of technology, specifically AI, we think of people's jobs getting replaced by it immediately and have a fear of it. I can't deny that AI has its down side, but it indeed enables people to live a better life.
Conclusion	Technology and AI can assist disabled people to live more accessible life.

Ted Talks	[Ali Hajimiri: How wireless energy from space could power everything	TED Talk](#)
Introduction	Can we send energy whenever and wherever we want? We need to use waves to do so.
details	Making waves go in different directions and control their direction by the timing of sending the wave. In the demonstration video, an energy generator is used, placed on the ceiling, and a device will track the energy and send them to electronic appliances. How far can the energy go? Can we place a solar panel in space and send the energy back to Earth? This is not a new idea that came out recently but has never happened due to technical reasons. Ali Hajimiri and his teammates made a paper-thin generator that can be brought to space easily, and the generator can send energy wirelessly to the earth.
thoughts	This sounds amazing because the generator in space will be able to generate energy with higher efficiency due more direct to the energy source(the sun).
conclusions	Energy is now able to be sent from space to the earth.

Ted talks	[Max Hawkins: I let algorithms randomize my life for two years	TED Talk](#)
Introduction	Max made an app that can select random places for him to go
Details	- After going to all those random places, he relises that his own preferences makes him ignored the other side of San Francisco - He ended up living in random countries and attending random events in the past 2 years - He has discovered that the 'randomness' is not 100% random - He thinks everytime when we are making a choice we are selecting from a list that was designed by someone or something else, and whatever freedom we have in our choice is necessarily constrained by other factors - He concluded that it's better to interact with algorithms in a more experimental way so you can be less controlled by the data
Thoughts	I really like the idea of doing things randomly because i will be able to explore more possibilities and might be able to get something out from the unexpectedness. Stepping out from the comfort zone enables me to enjoy higher degree of freedom and experience more excitements.
Conclusions	Algorithms might have patterns, but it's unecessary to overly relied on the data that you were fed on.

Ted talks	[Tom Graham: The incredible creativity of deep fakes -- and the worrying future of AI	TED Talk](#)
Introduction	Deepfake: a video of a person in which their face or body has been digitally altered so that they appear to be someone else, typically used maliciously or to spread false information.
Details	 <table><tr><td>Pros: - Educational purpose an inspiring teacher "speaking" every language at the same time and student can interact with each version of teachers in a way that goes beyond Zoom. - Relive experience with passed away people (decoupling human experience)</td><td>Cons: - Unreal image of yourself creating rumors - Unable to distinguish between real and unreal content.</td></tr></table> Improvement: - raising public awareness of manipulated media - regulations on how photorealistic avatars are used.
Thoughts	- It's normal for us to be fear of new techs, and no techs will ever have benefits only. - Seeing whether the benefits outweigh the harm can be a way to decide wether or not to promote the tech - Overall I quite like the idea of deepfake
Conclusion	- No matter how much negative effect deepfake might bring to us, this technology must be developed continuously. All we can do is to make laws to restrict the use of it.

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YouTube	
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Ted talks	[What happened when I open-sourced my brain cancer](#)
Introduction	Salvatore got cancer and he wondered what he can do. He decided to learn more about his cancer, so he used open-source technologies to allow his CT scan to be accessed by anyone.
Details	The website he created is called 'la cure'. He uploads his medical data to the website and expects to get responses from people in different professions on ways to cure his cancer. In the end, he did the surgery, which is under his will.
Conclusions	Under his careful consideration, he did his surgery in a hospital he likes and with the doctor he wants.
Thoughts	Open source allows us to have more interpretation on solving the problems. Solving problems routinely is not the only choice. It is good to look for more ways to solve the problem instead of rushing to a conclusion.