### Seeing is believing

My colleague's an astronaut who's currently on a mission orbiting in space. Just a few hours ago, unfortunately, his communication device caught fire so he's unable to report back to base. I did, however, receive a strange file that I can't seem to open. I think it may shed some light on his situation. Can you help me save poor boy Johnny? File: https://mega.nz/#!LTRUTaZb!9Nh0NwDONJQiOThif3G62evP8H\_W9eIJSu0PdBQWKyg

This was a new and interesting challenge to solve and I think comes under audio steganography.

After downloading file from this link I checked for file type using file command in terminal and got the result :



It was a ogg data file. I didn’t knew about this file type before and I could only understand the “audio” word and its frequency in above text.

Then I played it using audacity tool in kali but the sound was a bit strange. It was just a beep sound and I searched google for how to analyze it. I found something called sonic spectrogram. It is visual representation of spectrum of frequencies of signal varying with time. I found a tool for this called Sonic Visualizer. I first converted the ogg file to wav file and then opened it in visual analyzer.

I referred this YouTube video : <https://www.youtube.com/watch?v=kPvCoT83_R0>

After going thru the above process I found a QR code to scan. After scanning the code it gave a URL where the flag was present : the\_flag\_is{A\_sP3c7r0grAm?!}