



term)na





All the world's information is in ones and zeroes. Everything under the sun has been coded and stacked, and new information added each passing second. There is science, and then there is social media. From tweets and statuses to photos and shares, all our data is online. Random things are being pushed to the 'Cloud' and never taken back. From ancient e-mails to toddler videos of our now twenty year self, there is a lot of trash we have virtual data requires a lot of energy not only to search from, but also to sustain.

We could do this the old fashioned way. Reduce. Reuse. Recycle. Delete the things we don't need. When we are finally done with something, we can check if the software or its information is useful for anything else, maybe to even create a new

> NAH, I'M NOT WORRIED ABOUT CLOUD SECURITY. MY STORED DATA IS SO DISORGANIZED THEY'D NEVER BE ABLE TO FIND ANYTHING!



Maybe we should start thinking about wiping off our digital footprint and start walking down the Green Computing path. It might be too early, but down our unwanted accounts, deleted the files, and cleared up some server space for others. The

MED Communiqué

JAN





PCB design & fabrication workshop by



Layatharang 2015, Arts fest of MEC.



QUANTUM COMPUTING

- 🧍 : A normal computer uses only 2 states -
- 🍒 : Then they could not only process more
- 🛂 : Is that what they call a quantum computer?
- 👸 : Yes, Quantum computers aren't limited to 2 states, they encode and decode data as superposition.
- 🥫 : So you mean to say, unlike a normal calculations, and the symbols of the tape are either 0 or 1 or a superposition of 0 & 1
- 🍒 : Exactly! Due to the existence of multiple supercomputers.
- 🧁: What do the Qubits actually represent?
- 🖁 : Qubits represent atoms, ions, photons or electrons and their respective control computer memory and a processor.
- 🧱 : So it is the power of atoms and molecules that a quantum computer harnesses to perform memory and
- 🍒 : Precisely! Because a quantum computer simultaneously, it has the potential to be millions of times more powerful than today's most powerful supercomputers.
- 🚡 : Will Quantum computers one day replace
- 🔏 : For now, the technology required to make one is beyond our reach, however, potential remains that quantum computers one day calculations that are incredibly consuming on conventional computers
- 🚟 : If functional quantum computers can be built, they will be valuable in factoring large numbers, thus, making it extremely useful for encoding and decoding secret information.
- 🧸 : But if one were to build a quantum internet would be safe, because our methods of encryption are very simple compared to
- 🚡 : Quantum computer can become the next big brother. Food for thought eh?



Bionic eye is a visual device intended to restore vision in people suffering from partial or total blindness. This device mimics the function of the loss. It uses a retinal implant connected to a video camera, to convert images into electrical impulses that activate the remaining retinal cells, which then carry the signal back to the brain.

The first time an electrical device had successfully restored a flicker of visual perception was in 1755, when a French scientist, Charles Leroy, discharged the static electricity from a Leyden jar, into a blind patient's body, using two wires. The patient, who had been blind for three months, experienced a flame in front of his eyes.

In a healthy retina, photoreceptor cells convert light into electrical and chemical signals that propagate through the retinal neurons down to the ganglion cells, and transmit the visual signal to the brain. For diseases such as glaucoma or head trauma that compromise the retina's link with the visual centers of the brain, prosthesis have been designed to stimulate the visual system at the level of the brain

While brain prosthesis are yet to be tested in people, retinal prosthesis have demonstrated that the implants can enable blind patients to see contrast and edges of objects, but only in black and white. The ability to naturally see light and color has been eliminated by damage to various cells in the eyes, but with enough use, the brain can learn how to make sense of these images. Users have reported of successfully reading large-print books, crossing the street on their own, or navigating an unfamiliar home. Major improvements are still necessary to enable highly functional restoration of sight.

did 🖁 🤦



A decade ago, on Valentines' Day, 3 talented young men Chad Hurley, Steve Chen, and Jawed Karim, developed the video-sharing website, YouTube, from a makeshift office in a garage, which has today become the video-powerhouse, the sole go-to site, when it comes to videos on the web.

Support us: terminal@mec.ac.in