

BIG BANG 2014 RESIDUAL DEBRIS FROM ONE WOMAN'S OVERTAXED BRAIN.

@lucyfj venablesbell.com/ted2014

MANUFACTURING
3D printing has been around since 1983, but it's finally here and disrupting the distribution chain from factory to consumer. Find out how in this great talk.

GOOGLE GLASSES
From 'glasshole' to 'aha' in one short talk. Former NFL punter Chris Kluwe opens our eyes to the voyeuristic potential of glass. We are all a potential revenue stream. Amazing turnaround for me on the potential of these things.

ARCHITECTURE FEEDBACK LOOP
Compelling talk by architect Marc Kushner on how the socialization of renderings and viral sharing of finished buildings has closed the feedback loop.

POLITICAL
Larry Lessig makes a lot of sense with his idea of a 'Super PAC' to end all Super PACs: A return to 'We the people' and a May One bid to take back control. [MayOne.us](#) Stephen Colbert, are you listening?

PSYCHOPATHIC PARASITES
Surprisingly compelling speech (who knew?) from Ed Yong @edyong209 on parasites like toxo that hijacks a mouse's brain and makes it run towards the parasite's ultimate host, the cat. Ends with chilling early indicators that toxo could be a parasite in the human brain, as people with toxo behave differently to people without. I don't know who made me write this...



DOVES IN SPACE
Planet-labs.com announced they are launching a 20+ fleet of satellites that will take a picture of 100% of the Earth's surface every day and, importantly, make the data free to all. Think of tracking airplanes, deforestation and much more over time. One global view will be hard to ignore.

MAJOR TOM
Chris Hadfield who made news by singing "Major Tom" and tweeting from space gently explains that going blind on a space walk is no biggie. It's just a small matter of accepting fear ≠ danger.

OCULAR SHIELD
You know when you're driving and you've forgotten your sunglasses and you hold your hand up to the sun so you can see oncoming traffic? Well, Jeremy Kasdin worked out how to do this on a universal level, as you do. A giant ocular shield to enable astronomers to observe other galaxies without being blinded by our sun. Pretty cool.

TELESCOPE
"Software will be as important as telescopes," says Andrew Connolly, because the new LSST telescope has 3,200,000,000 pixels and will generate as much data in one image as 300 images from the Hubble telescope. [LSST.org](#)

GEIGER COUNTER
Dismayed at not being able to get accurate information about his family's safety from the Japanese government after the reactor meltdown in the wake of the tsunami, MIT Media Lab director Joi Ito did what had to be done and in a few short days formed Safecast, which is the biggest citizen science project ever and crowd-sources radiation readings around the globe. @joi

NSA
We stopped 54 terrorist acts, many of which were in the European countries that are beating us up about these programs. The debate is not over.

DATA GUARD
Brilliantly deadpan talk from badass ex-FBI agent Del Harvey on how she keeps Twitter safe for all.

WWW
Sir Tim Berners-Lee celebrates 25 years since he invented the web but calls for a 'Magna Carta for the web' to protect our privacy.

A SUNNY OUTLOOK
Al Gore celebrates the fact that the nation has finally gone from denial to acceptance and now must land on hope not despair. Several people give us hope that humankind can innovate their way out of this mess: Amory Lovins | Michel Laberge | Taylor Wilson

A BRAIN
Ray Kurzweil predicts that in the future we'll swallow a pill sized nanobot that enables us to download "French" or "physics" from the cloud. The question in the audience was, How much would a TED pill cost?

BODY EVOLUTION
Not a dry eye in the house as Boston Marathon runner danced again for the first time with robotic legs custom built by Hugh Herr. The future of robotics is here.

OCEANS: UNPROTECTED AND UNEXPLORED
The mysteries of the universe are underneath us. Sylvia Earle passionately talks about how only 1-2% of the oceans are protected. See her film "Mission Blue." What is more, David Gallo reminds us that only 6-7% have been explored. Diving is as important as stargazing it seems.

RESILIENCE PROJECT
Stephen Friend announces [resilienceproject.me](#) in conjunction with 23andMe to identify the folks who beat the odds to benefit us all.

DNA UNLOCKING NEW WORLDS
Whole Earth Catalog founder Stewart Brand showcases his 'de-extinction' project to use DNA to bring back the dinosaurs. Well, the woolly mammoth anyway. Oh, and passenger pigeons.

THE CONTINUING FIGHT FOR BASIC HUMAN RIGHTS
We are evolving on our journey towards human rights for all, but we have a ways to go. Homophobia reigns across most of the globe. Yoruba Richen delivers a compelling speech on how the LGBT movement is 16 years behind racial equality.

HEY! TEACHERS! LEAVE THEM KIDS ALONE.
Education is revolutionized on a global scale as SOLE (Self Organized Learning Environments) takes hold in various forms.

A THREAT TO DEMOCRACY
Provocative statement from Clay Shirky: "We are all familiar with Twitter as the accelerator of the Arab Spring, but a cautionary tale from Thailand shows Twitter could be as much of a threat to democracy as it is to autocracy."

BEN SAUNDERS
does a very self-deprecating British speech on the merits of walking 1,800 miles (in Scott's footsteps, unassisted by animals or engines), which is the equivalent of walking to the center of the Earth and back, only to find that the point is the journey not the destination. Good to know. Sting opens up about how despite his fame and experiences, something drew him back to the start of his journey.

CORPORATIONS
David Brooks argues for eulogy virtues over resume virtues.

SMARTPHONE
Larry Page on how Google wants to connect the 60%*
Wikipedia founder Jimmy Wales talks about how in developing countries a smartphone can now be acquired for \$43. And showed a moving video of kids asking cell phone providers to allow data from Wikipedia for free. #Gamechanger.

Yet, Bryan Stevenson and Melody Hobson remind us that color is still very much an issue.

And Malala's dad humbly shines a light on his daughter's continuing quest for equal education even after she was shot in the head.

And we witness a brave act for transgender rights in this surprising talk by Geena Rocero. We have a long, long way to go.

University of the People: a fully accredited online university with 3,000 professors from the top universities in the world. 1,700 students enrolled from 143 countries. Average degree cost? \$4K.

Neil Turok, 2008 prizewinner, on finding the next Einstein in Africa.

Phil Zimbardo on how we are failing boys.

Salman Khan updates us on the Khan Academy.

*40% of the global population is online. Imagine the ideas the other 60% will bring.