

GENETIC ENGINEERING
BIOHACKING
EPSTEMICAL SECURITY

BrainSTORM

1. Questions (2nd time) about getting chipped + gene therapy

- SMC Chip implant?
- Apple chip implant?
- Gene Therapy (irreversible)?
- Child Gene Therapy (irreversible)?

2. Exam QUESTIONS

1. 2 important terms/concepts?
2. Major Issue(s) related to Media/Tech and Health (what's being done about it)?
3. Awesome Extra Credit?

3. MidTERM Feedback/Grades

4. MidTerm EXAM: Tues. March 9th

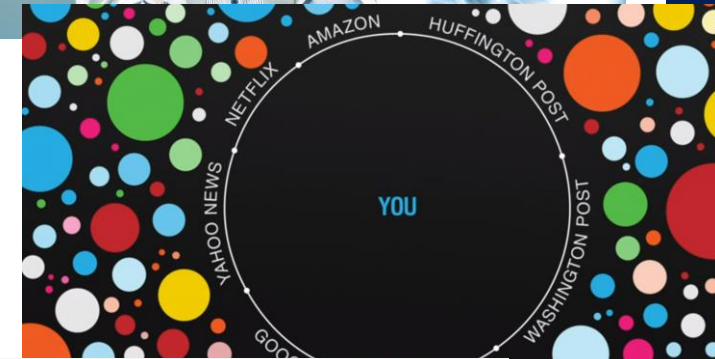
- In Class
- No Make ups
- Notecard 3x5
- Author's and Producer's Names
- Important Ideas, Arguments, Terms,
- Connections

Epistemic Security and Health

- **Epistemic** ep-i-ste-mic / ,epə'stemik, ,epə'stēmik/ adjective
 - Relating to knowledge or to the degree of its validation. The conditions needed for acquiring knowledge upon which you can make sound decisions.

MAJOR THREATS to our Epistemic Health and Security

1. Attention scarcity and INFORMATION OVERLOAD
2. Filter bubbles
3. Bounded rationality
4. Vested interest informational bias
5. Intentional Disinformation
6. Erosion of trust in systems of information, education, and community



The inherent "BIAS" of a technology

1. Every technology has an 'inherent' bias in how it is to be used or what it communicates.
2. Every technology is/was designed by humans with their own biases and desired INTENTS
3. That is, the technology itself is DESIGNED and PREDISPOSED to be used SPECIFIC WAYS.
4. NO technology is NEUTRAL!

- Important Questions:

- ✓ HOW is it INTENDED TO BE USED?
- ✓ HOW is it LIKELY TO BE USED?
- ✓ WHAT types of BEHAVIORS does it tend to incite (Individually? Societally)?
- ✓ What are the requirements of ACCESS?
- ✓ What are the SKILLSETS associated with it?
- ✓ Is it HEALTHY (mentally, physically) for most users?



Apple iPhone 12



BioHacking

BioHacking

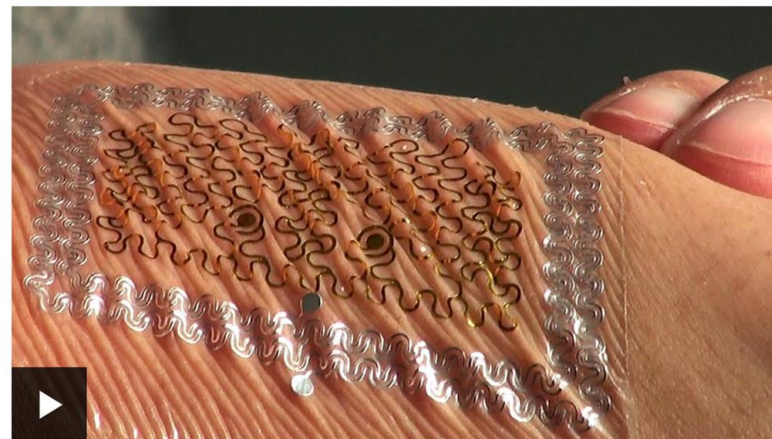
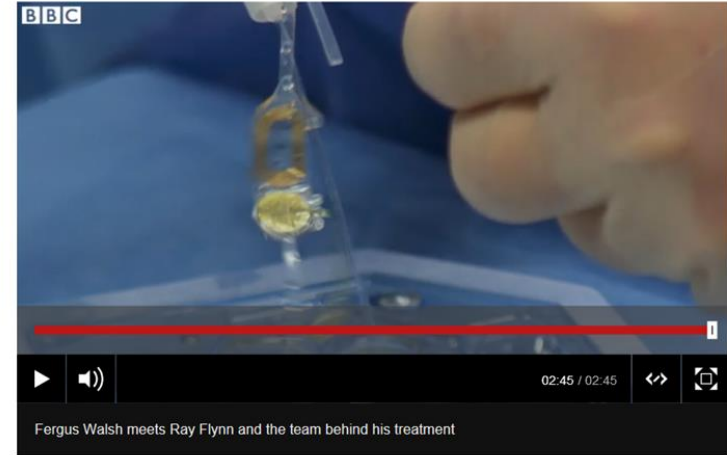
1. The insertion or implantation of a man-made or synthesized technology into or on the human body.
2. Permanent or semi-permanent .
3. Part of the body (not a wearable device)
 - Computer Chip
 - Micro-processor
 - Circuit tattoo
 - Extra Appendage
 - Prosthesis
 - Preliminary Bionic Eye

Bionic eye implant world first



Fergus Walsh
Medical correspondent

21 July 2015 | Health



How a graphene tattoo could monitor your health

A graphene-based tattoo that could function as a wearable electronic device to monitor health has been developed at the University of Texas.

Gold is often used in electronic components, but graphene is more conductive, can be hundreds of times thinner and allows the tattoo to wrinkle naturally with skin.

It is hoped that as the cost of graphene falls, such tattoos will become affordable for medical use.

See more at [Click's website](#) and [@BBCClick](#).

25 Oct 2017

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BIONIC Prosthetics



Beyond bionics: how the future of prosthetics is redefining humanity

4,907,682 views • Jun 26, 2018

👍 98K 💬 1.4K ➦ SHARE ⌵ SAVE ⋮

The Next Levels of BioHacking



BBC

MEET THE
BIO-HACKERS

0:49 / 16:33

BBC is a British public broadcast service. [Wikipedia](#)

Meet the Biohackers - BBC News

365,448 views · Dec 4, 2018

4.5K 648 SHARE SAVE ...

This is a screenshot of a YouTube video player. The video title is "Meet the Biohackers" from BBC News. The video has 365,448 views and was uploaded on December 4, 2018. The player shows a progress bar at 0:49 / 16:33. Below the video, there is a description: "BBC is a British public broadcast service. [Wikipedia](#)". The engagement metrics show 4.5K likes and 648 comments. There are icons for share, save, and a menu.



YouTube

Search

0:15 / 9:07

Biohacker Explains Why He Turned His Leg Into a Hotspot | WIRED

200,311 views · Aug 30, 2019

5.9K 308 SHARE SAVE ...

This is a screenshot of a YouTube video player. The video title is "Biohacker Explains Why He Turned His Leg Into a Hotspot" from WIRED. The video has 200,311 views and was uploaded on August 30, 2019. The player shows a progress bar at 0:15 / 9:07. The video content shows a hand holding a small, metallic, teardrop-shaped object. The engagement metrics show 5.9K likes and 308 comments. There are icons for share, save, and a menu.

