

DIY  $h^+$



**TRANSHUMANISM**

# Guiding Concepts

- Primarily a “personal” philosophy
  - i.e., individual super-empowerment
  - Not eugenics.
- Precautionary vs. Proactionary principle

# More concepts

- Human enhancement – the development and application of technologies to overcome limitations of the human body.
- Recursive self-improvement – using technologies to radically improve the quality or rate of technology development
  - Ex: working harder vs. working smarter

# Motivations

- Accepting & overcoming human limitations
- Fixing their diseases and other problems
- Hacker ethos, an “itch to create” not scratched by futurology
- Not dying
- Personal data collection, monitoring & analysis

# Goals, examples of

- Longevity / rejuvenation therapies (SENS, ...)
- Cognitive enhancement
  - Sustained attention
  - Emotional modulation
  - Better hearing
  - Better memory encoding or recall
  - Sleep control or wakefulness
  - Direct control of cortical microcircuits
- Physically better:
  - Strength
  - Speed
  - Edurance
  - Appearance
- Sports enhancement

# Technology

- Brain stimulation
  - Microelectrode arrays
  - Deep Brain Electrodes
  - Transcranial Magnetic Stimulation (TMS, rTMS)
  - Ultrasound
  - Infrared
- Gene therapy
- “Wearable” computing
- Powered exoskeletons
- Nootropics
- Pharmaceuticals
- Stem cell therapies
- Prosthetics
  - Tissues
  - Organs
  - Limbs

# Trends

- Amateur biohacking
- Significant institutional R&D
- Sorting out wetware/hardware licensing & sharing
- Transhumanism crippled by futurology
- DIY transhumanists “in the field” tend to have backgrounds in:
  - Open source software development
  - Cryptography, privacy and anonymization
  - Electronics
  - Molecular biology

# Questions?

# Contact

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