

Knowers & Knowing

Knowledge & Technology

TOK L17



How would your learning experience be different without modern technology? What are the advantages? Are there disadvantages?



TOK L4

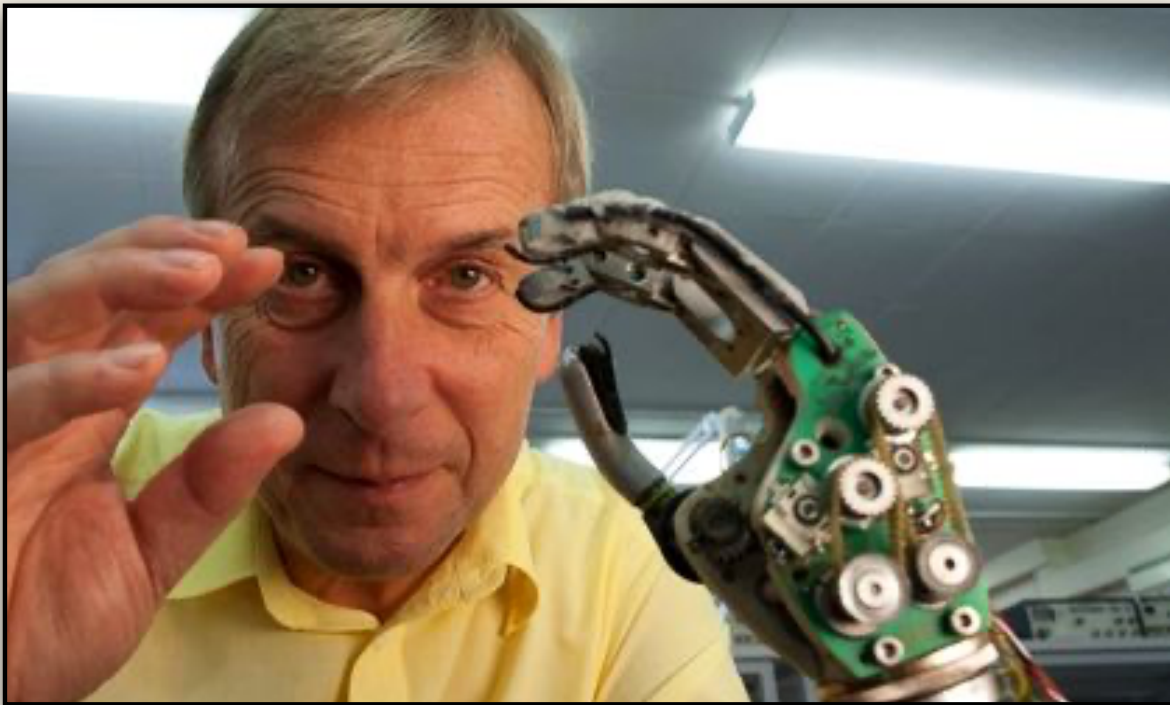
Prepare a range of questions from simple to complex. Ask Siri for answers, and consider the appropriateness of the responses.

Ask Siri



At what point does confusion occur? Can you identify a level at which Siri cannot adequately handle the question? How would you define this level? What might this tell us about technology in general?

Can we and should we use technology to “upgrade” human knowledge?



Dr. Kevin Warwick
of Coventry
University, UK

“Captain
Cyborg”

How can technology
extend our senses?

3 Types of Artificial Intelligence

Artificial Narrow Intelligence (ANI)



Stage-1

Machine Learning

- ▶ Specialises in one area and solves one problem



Artificial General Intelligence (AGI)



Stage-2

Machine Intelligence

- ▶ Refers to a computer that is as smart as a human across the board

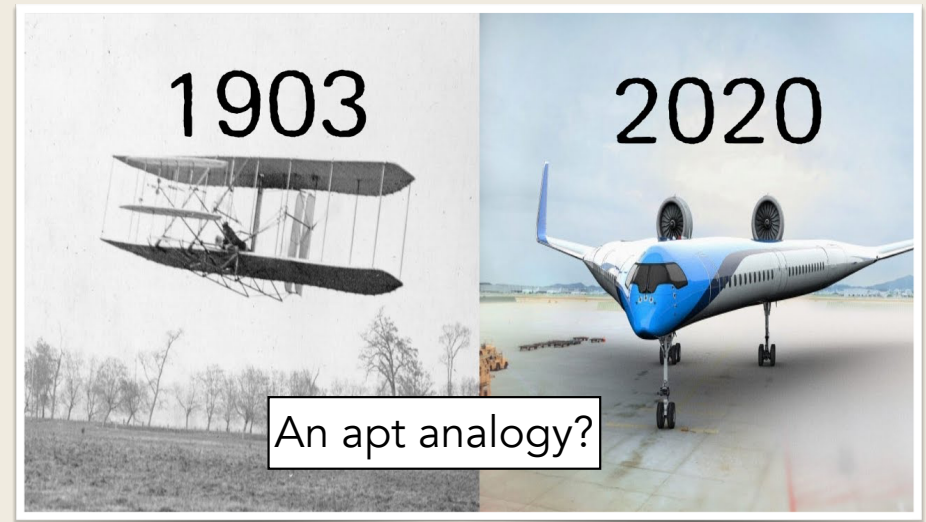
Artificial Super Intelligence (ASI)



Stage-3

Machine Consciousness

- ▶ An intellect that is much smarter than the best human brains in practically every field



How can technology extend our cognition?

What is a technological singularity?



- The Rise of Cryptocurrency
- Gerald Cotton

Is value created by humans?

- **DECENTRALAND**
- Build a world...get rich!





Talks
at
Google



Weapons of Math Destruction?

What are the ethical responsibilities of those who create and use technology? Consider:

- Food production
- Transportation
- Medicine & healthcare
- War & Conflict

What harm might come from the dependence on “Big Data”?

How do you feel about:

- Our “surveillance society”
- The right to be forgotten
- dematerialization



FOR DISCUSSION

**Sci-Fi Writer
Brian Aldiss:**

*“Man has the power to invent
but not control.”*