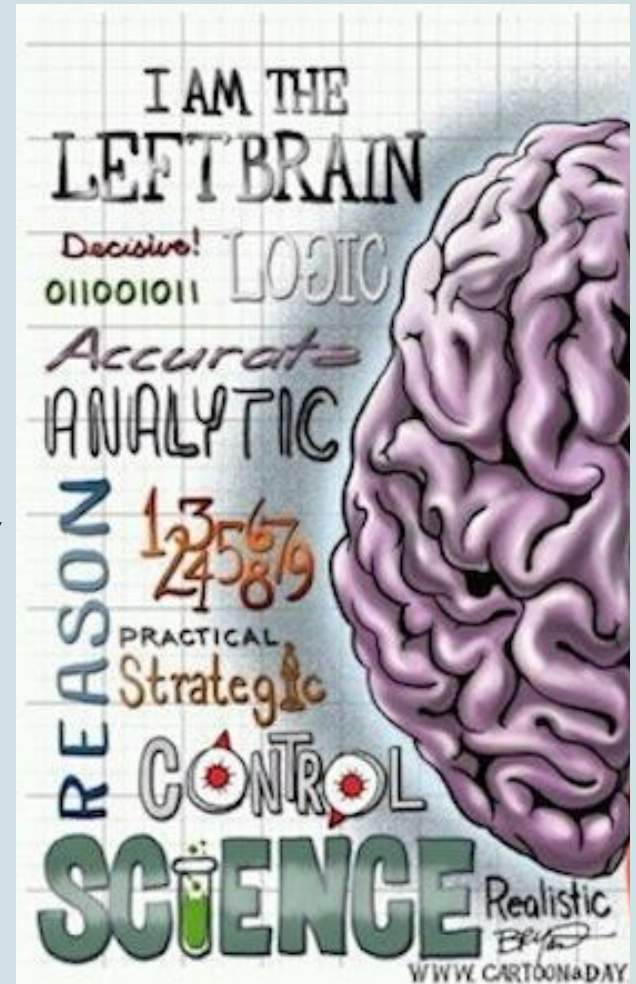


REIMAGINING HUMAN INTELLIGENCE

"AI WILL SOLVE ALL THE
HUMAN PROBLEMS"

What is human intelligence according to the A.I. myths we are exploring?

Intelligence as **rational, abstract thinking**, where knowledge is context-free, value-free, based on abstract data and derived from an "objective reality".



What are the philosophical foundations for this idea of human intelligence?

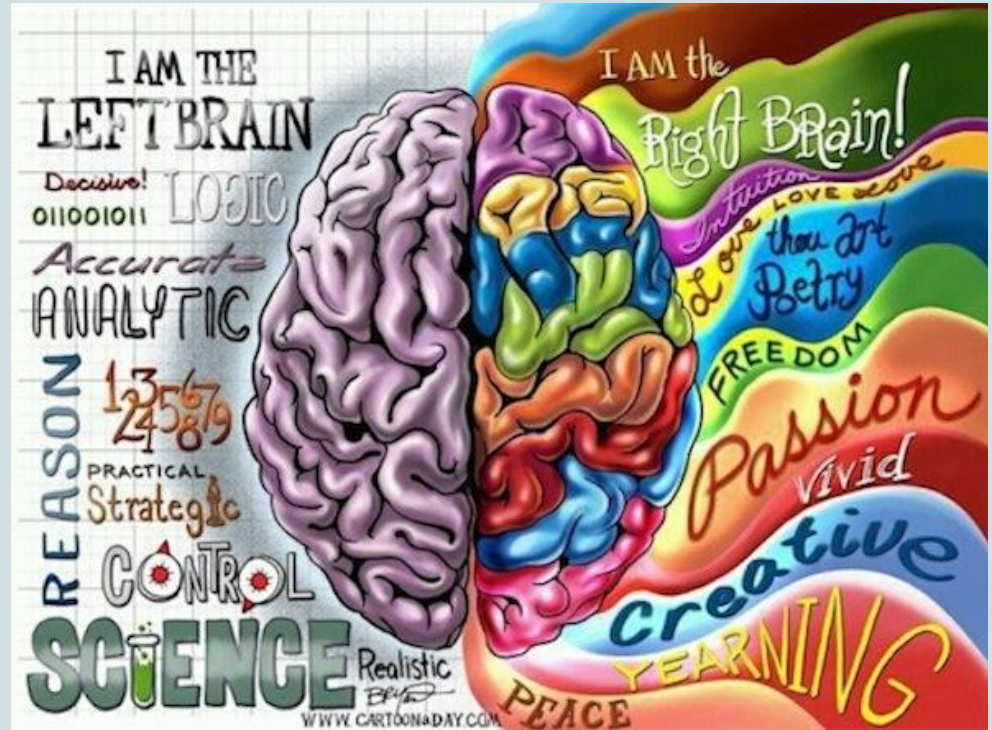


Based on a (Western) **distinction and hierarchy between mind and matter**, body and soul, where mind or soul stands for an "objective logic" that is seen as primary, and "matter" or "body" is secondary, labelled "subjective" and seen as less important.

Is this true?

In the last century, this dualism (as well as the hierarchy) has been **questioned by both the natural and social sciences**, exposing the inherent values and bias in the knowledge produced by “objective science”.

Also **recognizing the interplay of “emotions” and “reason”**, or abstract thought and embodied knowledge, in all our decision-making - and ultimately our technologies.



What kind of worlds might the A.I. approach to human intelligence bring forth?

THE 5 PATHS TO SUPERINTELLIGENCE

1. **AI:** iteratively self-enhancing. Nick Bostrom states it like this "There is no reason to expect a generic AI to be motivated by love or hate or pride or other such common human sentiments [...]."
2. **WHOLE BRAIN EMULATION:** Intelligent software is produced by scanning and closely modeling the computational structure of a biological brain.
3. **ENHANCEMENT OF OUR BIOLOGICAL BRAIN** Genetic modification of embryos and stem cells in a petri dish, so we can accelerate evolution from years to months.
4. **HUMAN MACHINE INTERFACES:** Particularly implants **Purpose:** To enable humans to exploit the fortes of digital computing. (Perfect recall, speedy and accurate arithmetic calculation, and high-bandwidth data transmission)
5. **NETWORKS AND ORGANIZATION:** Enhancement of networks and organizations that link individual human minds with one another and with various artifacts and bots.

Source: Nick Bostrom's "Superintelligence"

AI MYTHS

MYTH 01

AI will solve human problems by
making faster progress.

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Solve intelligence. Use it
to make the world a
better place.

MILESTONES

Google recently purchased an AI software company, DeepMind, from a British startup for half a billion dollars. Google has already dedicated more than 140 computer scientists to DeepMind.

"If we're successful, we will increase our capacity to understand **the mysteries of the universe and to tackle some of our most pressing real-world challenges.** From climate change to the need for radically improved healthcare, too many problems suffer from **painfully slow progress,** their complexity overwhelming our ability to find solutions. With AI as a multiplier for human ingenuity, those solutions will come into reach."

COUNTER-EVIDENCE



SUPER CHICKENS

William Muir's experiment with 2 flocks

"We've thought that success is achieved by picking the superstars, the brightest men, or occasionally women, in the room, and giving them all the resources and all the power. And **the result has been just the same as in William Muir's experiment: aggression, dysfunction and waste.** If the only way the most productive can be successful is by suppressing the productivity of the rest, then we badly need to find a better way to work and a richer way to live."



Source: [youtube.com/watch?v=Vyn_xLrtZaY](https://www.youtube.com/watch?v=Vyn_xLrtZaY)

"the high-achieving groups were not those where they had the most spectacular high I.Q. Instead, they had three characteristics: (1) social sensitivity (empathy), (2) equal time to each other, so that no one voice dominated (3) more women."

Questions

1. What is the danger/effect of forfeiting a life of "normal thinking" for a "superintelligence" life?
2. Is intelligence going to become the new GDP?
3. How will we balance out the infinite search for intelligence with more inherent intrinsic needs?

MYTH 02

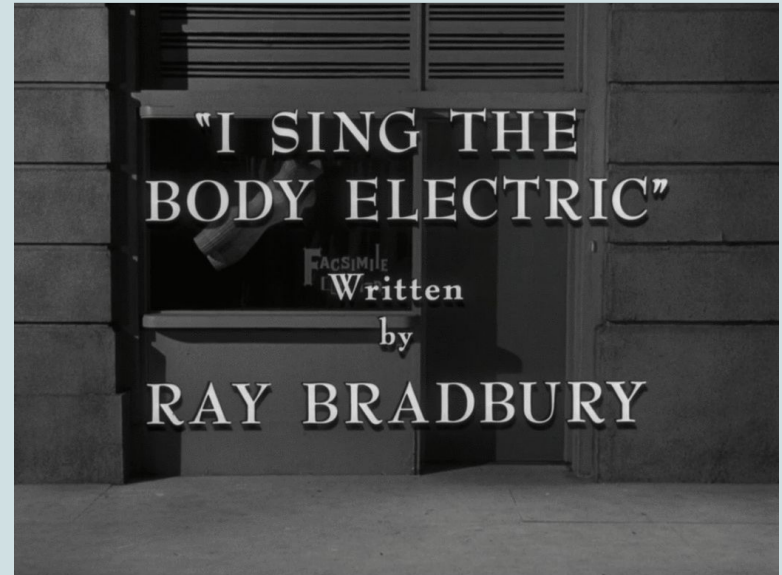
Artificial intelligence will be
able to substitute human
relationships.

SOLVING DEATH

"I sing the body electric," The Twilight Zone - Ray Bradbury

A human family that has experienced a great loss: the death of a beloved wife and mother. The father admits that he is really busy and is not able to provide his children the attention they deserve.

What if this family were to find everything they were looking for ...in a robot? A custom-built, grandmotherly robot? Would she **fill the place** of the children's mother? Would she be **able to properly love and care** for the children the way the father needs her to?



SOLVING COMPANIONSHIP

iPal

1. Sensors: to **feel touch**, listen to speech, and **detect emotion**. "iPal™ is not a cold, unfeeling machine." iPal™'s emotion management system senses and responds to happiness, depression and loneliness.
2. **Takes daily pictures and videos to record the child's growth.** Parents can monitor these on their phone. "After many years when you browse these albums, you will remember and feel the love and happiness."



SOLVING LOVE

Gatebox



1. IoT product like Amazon Alexa with holographic anime character.
2. Targeted at otakus and single men.
3. **"Housewife" for lonely men.**
4. Interacts with its owner via animated persona, voice commands, text messages.
5. Interacting in ways like a domestic partner.

COUNTER-EVIDENCE

OUR NEEDS FOR TOUCH & LOVE

According to David Linde, professor of neuroscience at Johns Hopkins University School of Medicine, "if you're born with the biological components for a sense of touch, but you do not receive touch during your infancy and when you're a toddler, then a disaster unfolds."



Source: [npr.org/templates/transcript/transcript.php?storyId=510627341](https://www.npr.org/templates/transcript/transcript.php?storyId=510627341)

MYTH 03

Technology will improve human
living conditions.

SOLVING CONNECTIVITY: SMART CITIES



A global phenomenon defined by a strong belief in technology and the collection of big data as a tool for improved quality of life, sustainability, citizenship, cultural, social and economic development.

SOLVING CONNECTIVITY: KISTA SCIENCE CITY



"The Nordic Silicon Valley", 3rd largest ICT cluster in the world.

Described through words like diversity, freedom of choice, connectivity and active citizen involvement, explaining that **"efficient public services are key factors in a thriving city and should be characterized by a common desire to prioritize citizen's different needs and desires"**.

COUNTER-EVIDENCE

SOLVING CONNECTIVITY: HUSBY



Problem: This empire of “urban smartness”, has grown prosperous and award-winning, parallel to the steady decrease in socio-economic status and general well-being in the immediate neighborhoods surrounding it.

SOLVING CONNECTIVITY: CONNECTING WHO?



The self proclaimed "smartness" of Kista Science City has not managed to bridge the social disconnects to even its immediate surrounding, nor fulfilling their broad claims of citizen involvement, diversity and connectivity.

**COUNTER-EVIDENCE
FOR ALL MYTHS**

SCHIZOPHRENIC EXISTENCE & NOISE

- **Herbert Marcuse** "in a schizophrenic existence that leads to empty prosperity that simply erupts"
- **Extrinsic vs Intrinsic** values
- **Amber Case**, Cyborg anthropologist predicts that **intensification of the human-technology interface will quickly reduce the distance between individual and community**, believes that the convergence of technologies will bring about unprecedented rapid learning and communication.

SCHIZOPHRENIC EXISTENCE & NOISE

The questions:

1. What will be the psychological effects of living at the speed of AI in any of the 5 paths require? Will this further take us down the rabbit hole of a schizophrenic existence?
2. How can we uphold our intrinsic needs like, personal growth, social togetherness and compassion in the age of AI?

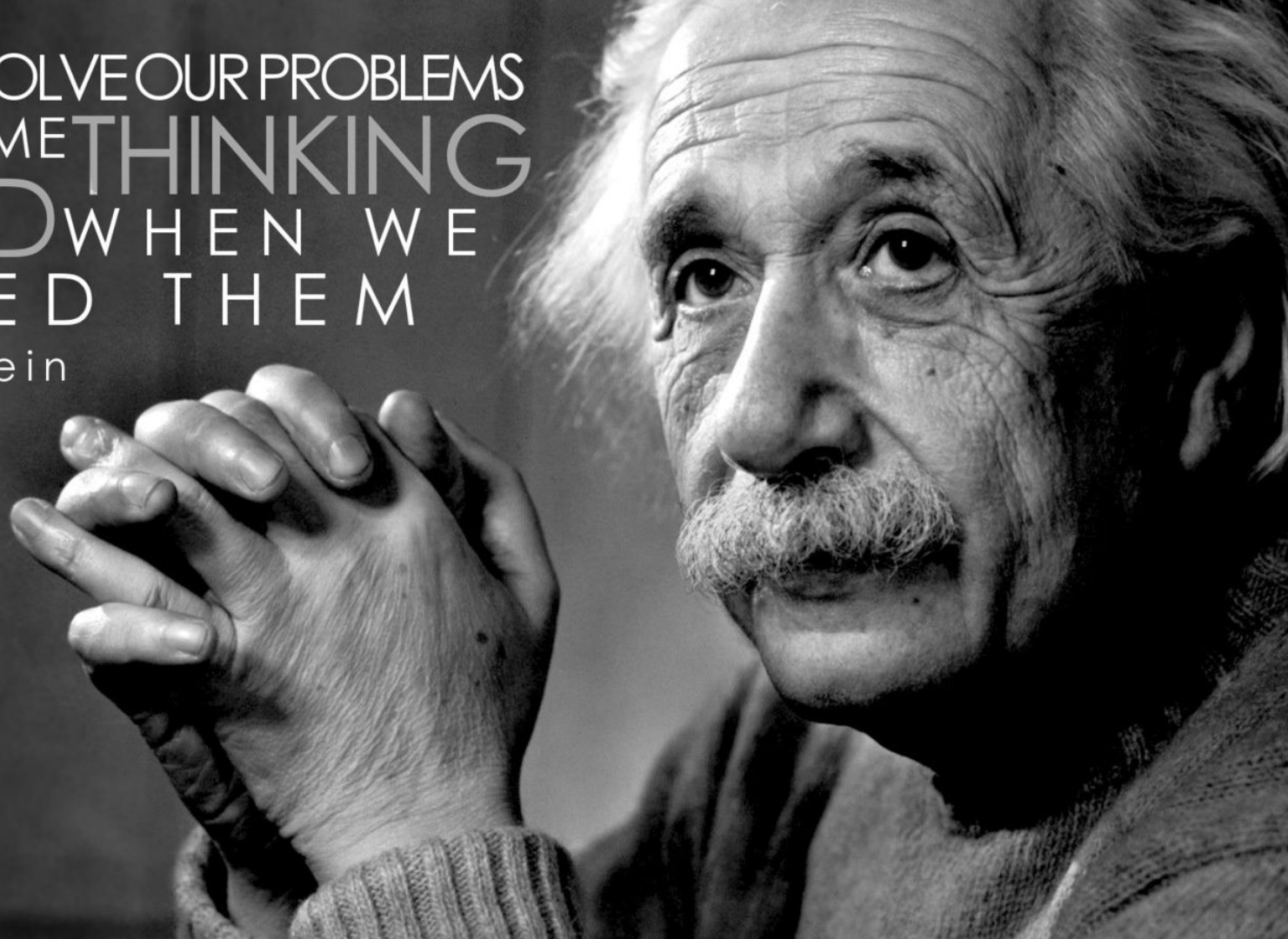
Is the dominant ideology behind A.I industry within the realm of thinking that created a lot of the social and economical problems we are now experiencing?

"The harm is in perpetuating a relationship to technology that has brought us to the precipice of a Sixth Great Extinction. Arguably the Anthropocene itself is due less to technology run amok than to the humanist legacy that understands the world as having been given for our needs and created in our image."

- Benjamin H. Bratton

How might we create a relationship to A.I.
based on a more balanced idea of human
intelligence and problem-solving?

WE CANNOT SOLVE OUR PROBLEMS
WITH THE SAME THINKING
WE USED WHEN WE
CREATED THEM
-Albert Einstein





EVERYTHING YOU'VE EVER WANTED IN A PERSONAL ROBOT!



Expressions and gestures
Professor Einstein looks like the real Einstein and can smile, frown, and even stick his tongue out--to name a few of his 50+ gestures.



Fancy some brain-teasing fun?
Lend him your iPad™ and Android tablet, and he can play hours of interactive games with you to teach you science and math.



Stay organized
He will manage your calendar and to-do list. You just need to tell him once, and he'll do the remembering for you!



More smart fun coming
Go to

www.ProfessorEinstein.com
and sign up for new app alerts. We'll let you know whenever your Personal Genius is ready to download a few more brain cells.



Built-in Wi-Fi
Download new interactive apps from the cloud whenever you're ready for more learning and fun! Includes one-year of free cloud service.



Just want to talk?
He recognizes speech and loves to chat! He can talk about the weather, famous people, food, or math problems.



He can be recharged
Enjoy up to three hours of interaction with him every time you recharge his batteries (batteries and charger included).