

TECHBYTES

"GIVEN THE INCREDIBLE POWER OF NEW TECHNOLOGIES WE SHOULD PROCEED WITH GREAT CAUTION "

- **BILL JOY**, " WHY THE FUTURE DOESN'T NEED US "

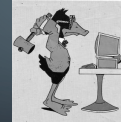
WILLIAM NELSON "BILL" JOY

- An American computer scientist
- Co-founder of Sun Microsystems
- Original author of the vi text editor
- Dystopian views of future



JOY HAS BEEN COMMONLY REFERRED TO AS "NEO-LUDDITE"

- A Luddite being someone in opposition to new technology



"PERHAPS IT IS ALWAYS HARD TO SEE THE BIGGER IMPACT WHEN YOU ARE IN A VORTEX OF CHANGE" - **JOY**



- Joy also discusses the views of specialists in other scientific areas.

HANS MORAVEC



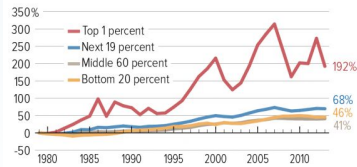
- A leader in robotics research
- Founder of the world's largest robotics research program at Carnegie Mellon University.

"Government coerces non-market behavior, especially by collecting taxes. Judiciously applied, governmental coercion could support human populations in high style on the fruits of robot labor, perhaps for a long while." - **Moravec**



Income Gains at the Top Dwarf Those of Low- and Middle-Income Households

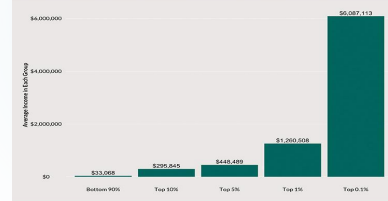
Percent change in real after-tax income since 1979



Source: Congressional Budget Office

CENTER ON BUDGET AND POLICY PRIORITIES | CBPP.ORG

Outsized U.S. Income Inequality Persists in 2014
The incomes of the top 1 percent and 0.1 percent of U.S. families dwarf the bottom 99 percent



Source: Emmanuel Saez and Thomas Piketty's analysis of IRS data.

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The reality is that these rapid technological advancements aren't as easily controllable or re-distributable as Moravec suggested.

The development of revolutionary technology has always been succeeded by a perceptible change in the status quo.

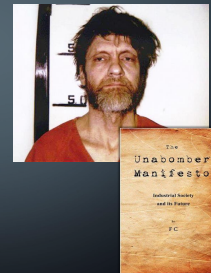
RAY KURZWEIL

- Pro-cybernetics
- Utopian views
- Joy didn't agree with him, thought his views ignored possible dangers



THEODORE KACZYNSKI AKA THE UNABOMBER

- Terrorist
- Highly dystopian
- Posed two possible scenarios
- One – Robots do all work instead of humans
- Two – 'Tiny elite' controls all robots and technology

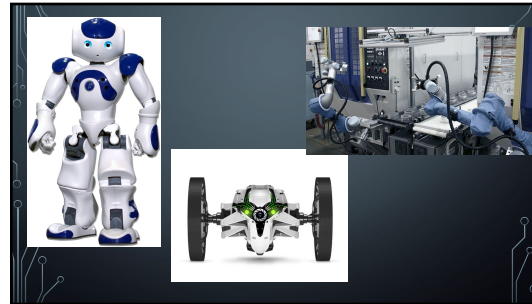


Is this just an alarmist dystopian view?

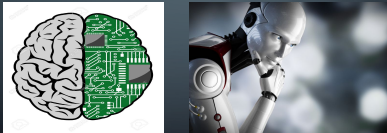
Our society is undeniably becoming more reliant on machines.
For example, driverless cars and Artificial Intelligence
We may be far closer to the finish line than we once thought.



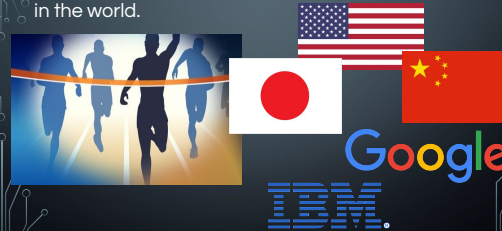
Will the meaning of being human
be redefined?



What if these robot brains have far more human
neurons than a typical human brain?
Would they, rather than humans, make all future
decisions?



The development of AI has become a race between
some of the greatest governments and companies
in the world.



AI is one of the only things that man has
created that functions in a way we can't predict.



JUST BECAUSE WE CAN DO SOMETHING,
SHOULD WE DO IT?

We should be cautious because humans are developing technology that will eventually have super human intelligence and capabilities. It would be foolish to simply assume a techno-utopian view and hope things will work out fine.



Murphy's law
"Anything that can go wrong, will."



(Chernobyl)