

- When does technology diminish our humanity?
- When and how do humans become programmable?
- Can we detect when this happens?
- How will we evaluate?
- What about being human matters?

Forward – Nicholas Carr

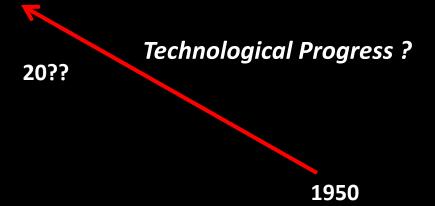
Introduction

- 1. Engineering Humans
- 2. Cogs in the Machine of Our Own Lives
- 3. Tools for Engineering Humans
- 4. Engineering Humans with Contracts
- 5. On Extending Minds and Mind Control
- 6. The Path to Smart Techno-Social Environments
- 7. Techno-Social Engineering of Humans through Smart Environments
- 8. #RelationshipOptimization
- 9. Turing Tests and the Line between Humans and Machines
- 10. Can Humans be Engineered to be Incapable of Thinking?
- 11. Engineered Determinism and Free Will
- 12. To What End?

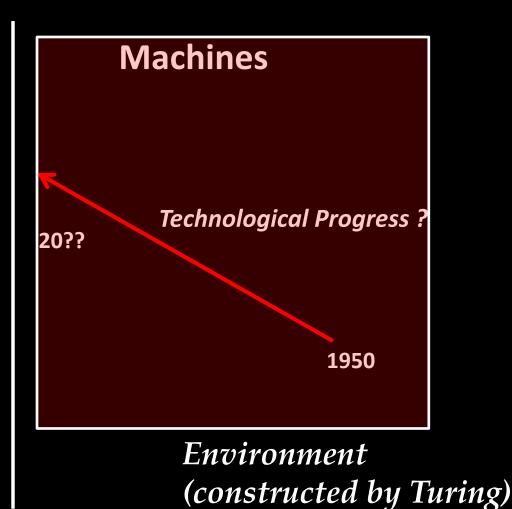
Conclusion: Reimagining and Building Alternative Futures

Humans

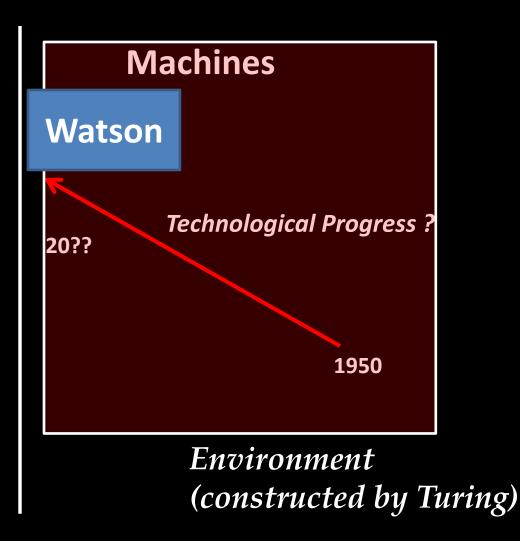
Humans



Humans

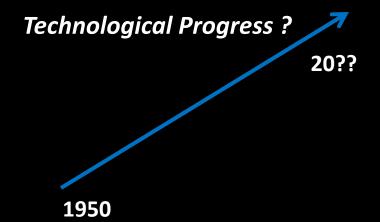


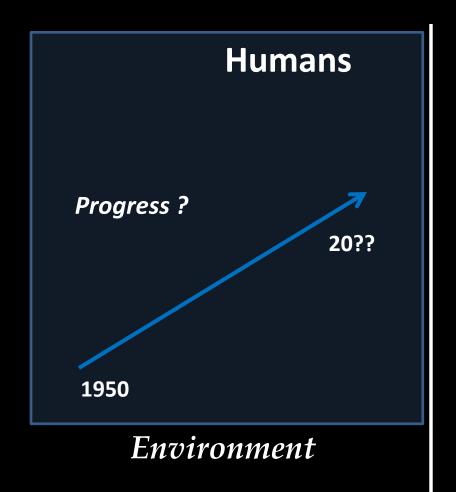
Humans



as Finish Line

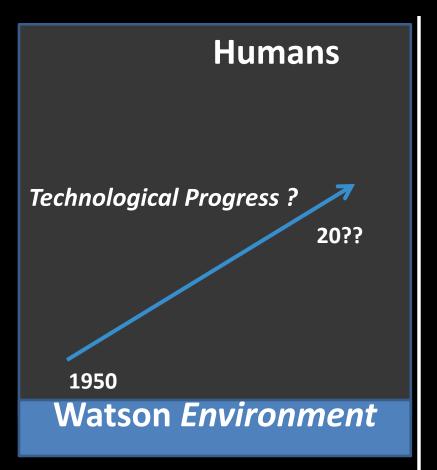
Humans

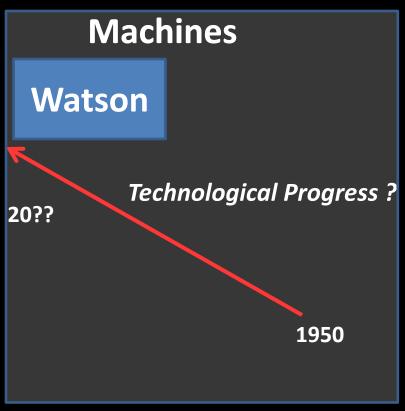




Environments

Turing Line





Humans

1. Computational Ability

Humans are slow and likely to make mistakes.

2. Random Number Generation

Humans tend to 'spread out' number sequences.

3. Common Sense

Humans have access to collective folk wisdom.

4. Rationality

Humans rely on biases and heuristics that deviate from the expectations of rational choice theory.



Machines

1. Computational Ability

Machines are fast and near-flawless at computations.

2. Random Number Generation

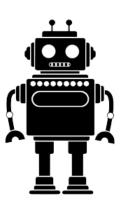
Machines less likely to 'spread out' numbers.

3. Common Sense

Machines lack access to collective folk wisdom.

4. Rationality

Machines more likely to follow the expectations of rational choice theory.



Is the techno-social environment making humans more machine-like?

Environments

Turing Line

Humans

A Touch Screen to Ease Airport Stress

BUSINESS DAY A Touch Screen to Ease Airport Stress



Making use of the iPads installed at Minneapolis-St. Paul International Airport. Tim Gruber for The New York Times

Machines

Hi. I'm a Tablet. I'll Be Your Waiter Tonight.

BUSINESS DAY Hi, I'm a Tablet. I'll Be Your Waiter Tonight

By STEPHANIE STROM JUNE 20, 2014



Matt Rainey for The New York Times

Workplace Environments







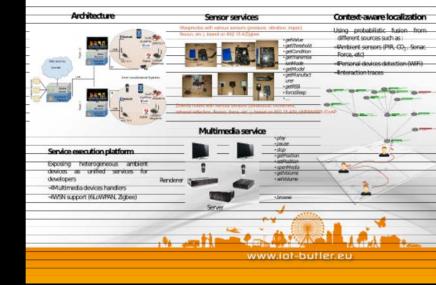


Smart Home Environments





Technical Achievement





A world where engineered determinism governs is a world where fully predictable and programmable people perform rather than live their lives.

Such a world would be tragic.

People living there could be described as human and still would qualify as homo sapiens. But they would have a thin normative status as human beings because much of what matters about being human would be lost.

