



# Will AI Kill Us All?

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SCENARIOS

Ideas Adapted from Rodney Brooks

## What is the threat?

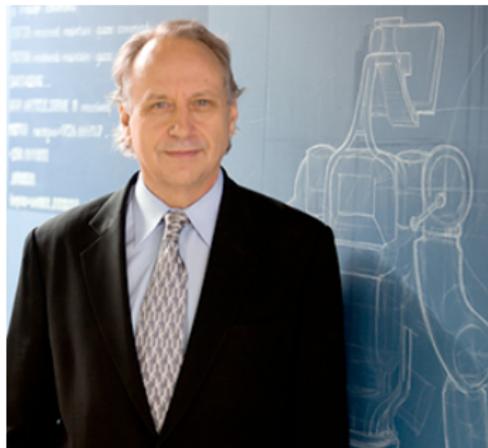
- General Artificial Intelligence (AGI)
- Singularity
- Misaligned Objectives
- Pure Evil
- Societal Upheaval

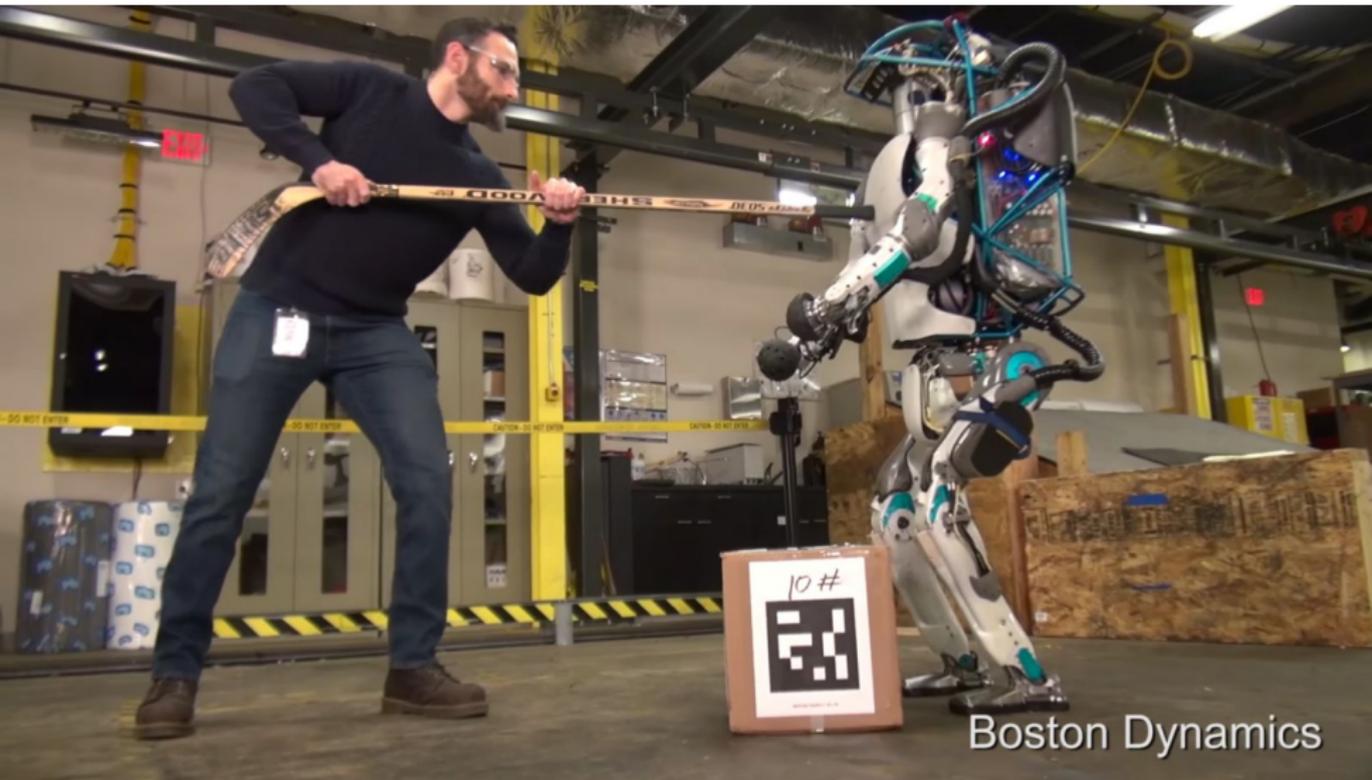
## It will take a while ...

### Rodney Brooks

Most technologies are overestimated in the short term. They are the shiny new thing.

Not all technologies get underestimated in the long term, but that is most likely the case for AI. The question is how long is the long term.





Boston Dynamics

Humans are jerks



Humans are jerks



Governments are bigger jerks



**EVERYBODY'S A JERK,**

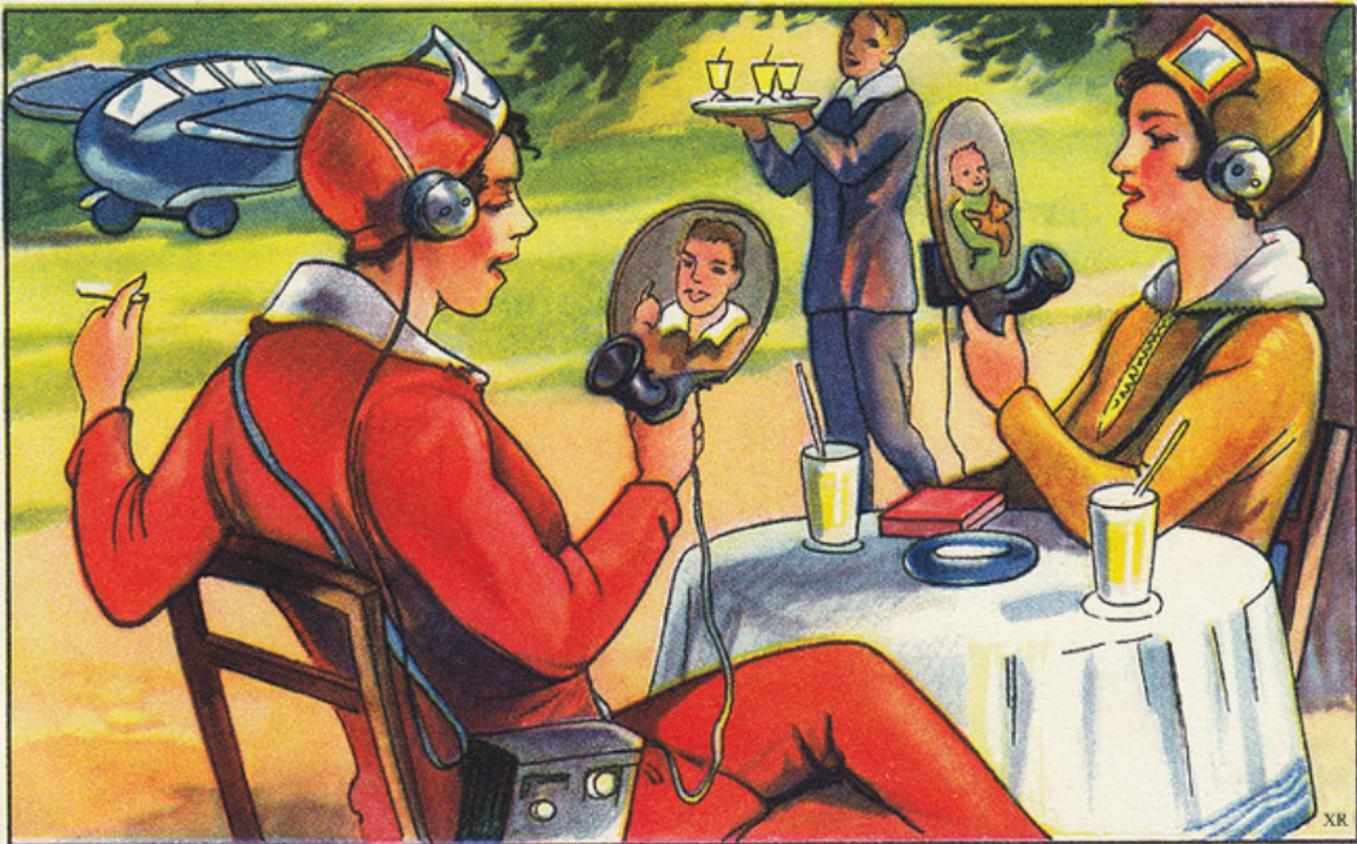
**YOU,  
ME,**

**THIS JERK,**

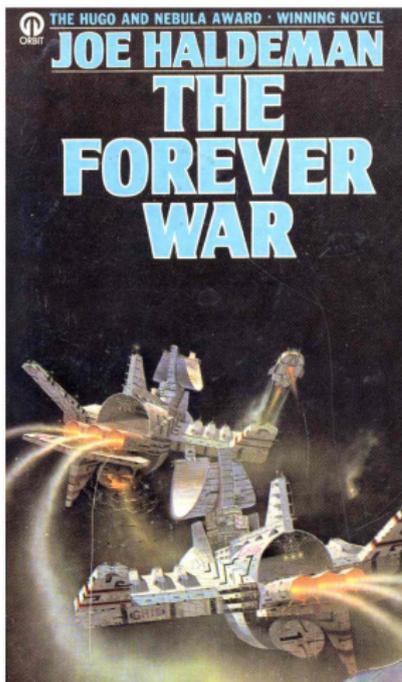
**THAT'S MY PHILOSOPHY.**

## Prediction 1: Building Immune System

- Bad things will happen
- AI may be involved
- But prime mover will be human
- Will cause us to take cybersecurity seriously



Technology changes but society doesn't



A book that gets it right

## Prediction 2a: Physical Harm from Special-Purpose AI

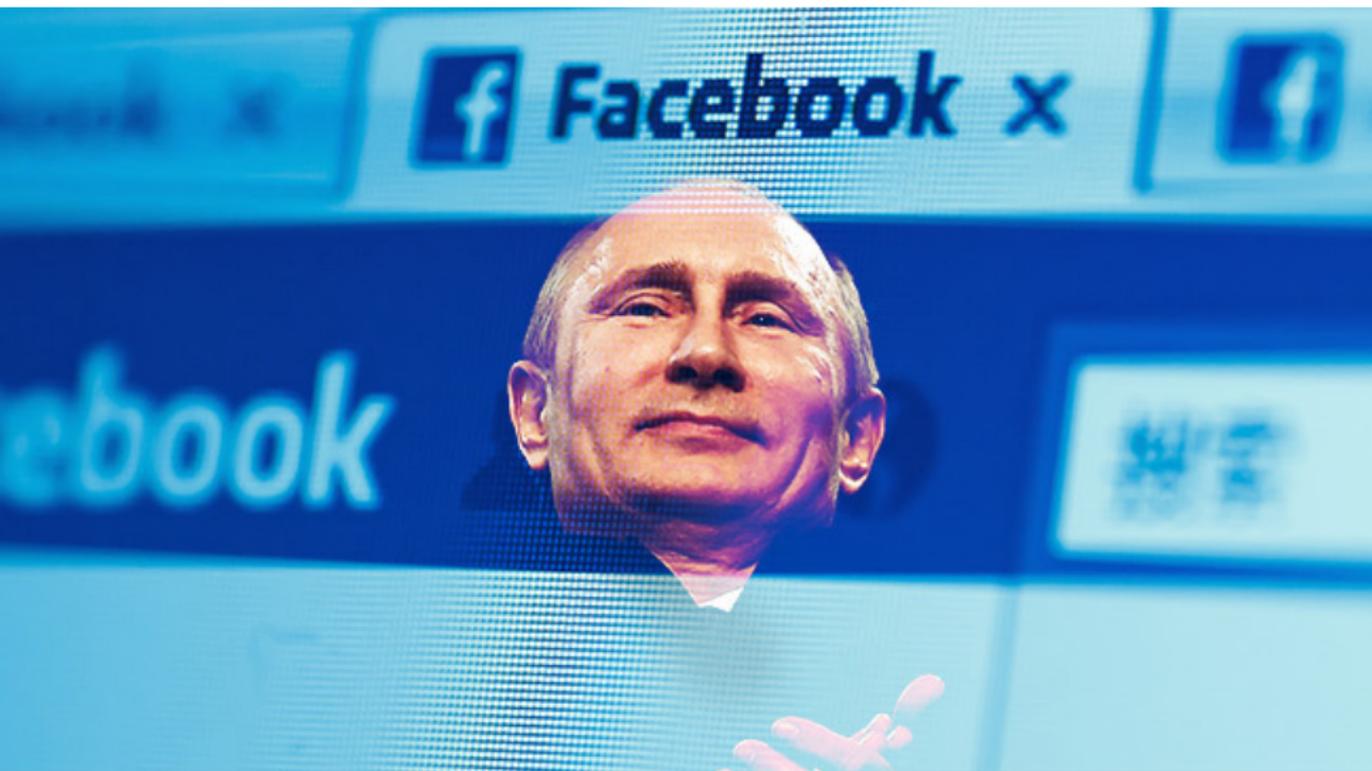
- Special-purpose AI will be used for terror
- Will be scary
- We may overreact
- But utility clear
- Not an existential threat (c.f. nuclear weapons)



But that isn't a new threat . . .



Political process at risk internally



Political process at risk externally

## Prediction 2b: Social Manipulation

- Will happen (is happening?)
- But will be slow
- Will be scaled up version of what humans already do
- Anti-singularity: Humans are slow
- Hopefully we will build defenses

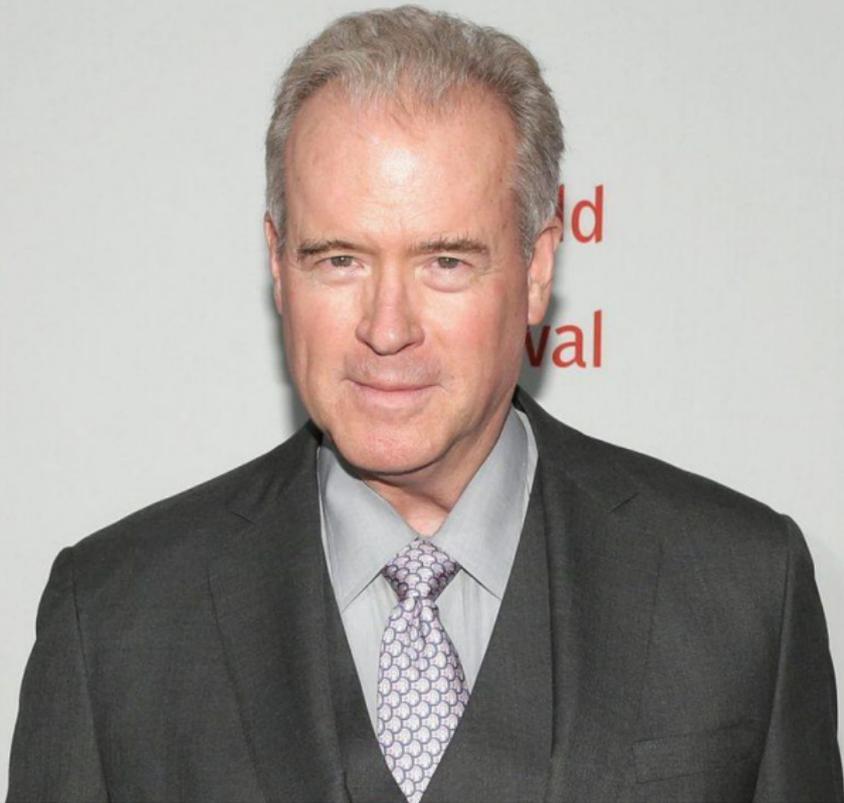
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Renaissance, Two Sigma, Voleon

## Prediction 2c: Economic Catastrophe

- Fear: paperclip AI
- Is already happening
- But happening from many directions
- Efficient markets (**good thing!**)
- Human irrationality



What about AI that does everything?

## Prediction 3: AGI

- If AGI happens, society will be very different
- Special purpose AI will exist to prevent takeover (previous prediction)
- Will have seen smaller, more specific challenges
- Fearmongering ignores this long-term context (which is hard to predict)
- Analogy: immune system

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- So, nothing to worry about?



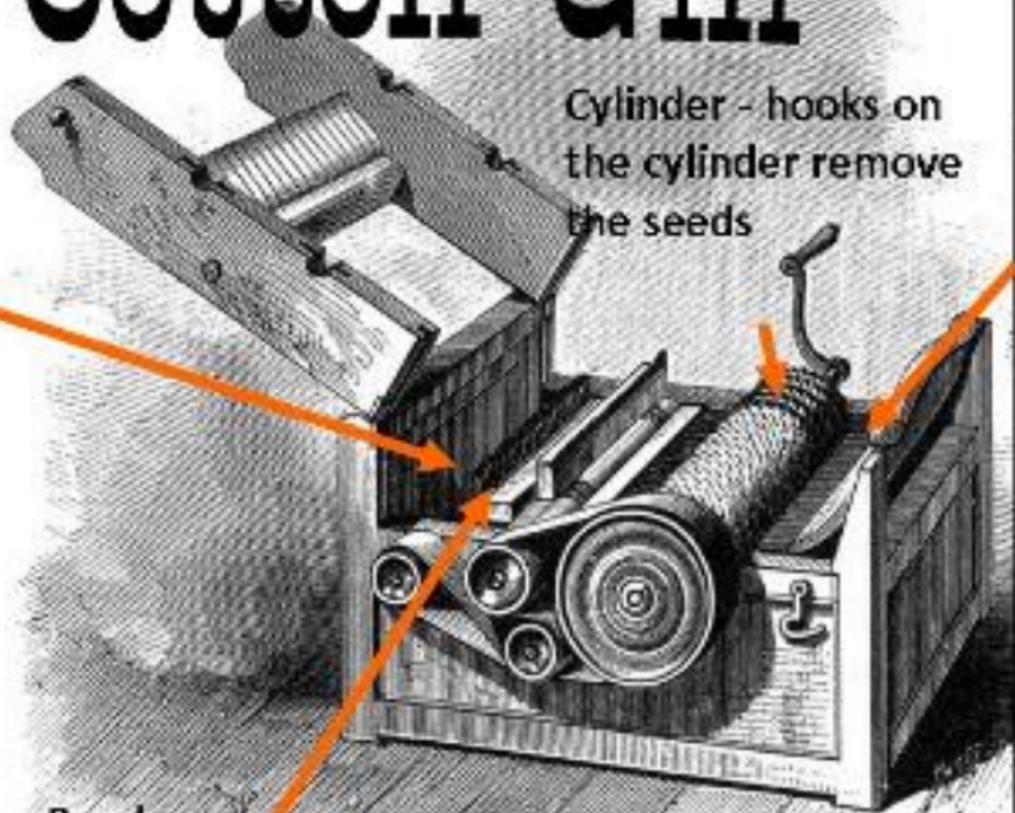
# Cotton Gin

Cylinder - hooks on the cylinder remove the seeds

Cotton bolls with seeds are placed here.

Clean cotton here.

Brushes





[www.alamy.com](http://www.alamy.com) - B7ACCW

Don't fear the reaper



In den preussischen Schulen soll jetzt als neues Unterrichtsfach Staatsbürgerkunde eingeführt werden. Es ist wohl selbstverständlich, daß der Unterricht von Schulreuten erteilt wird.

Social reforms paved the way



Industrialization reordered society



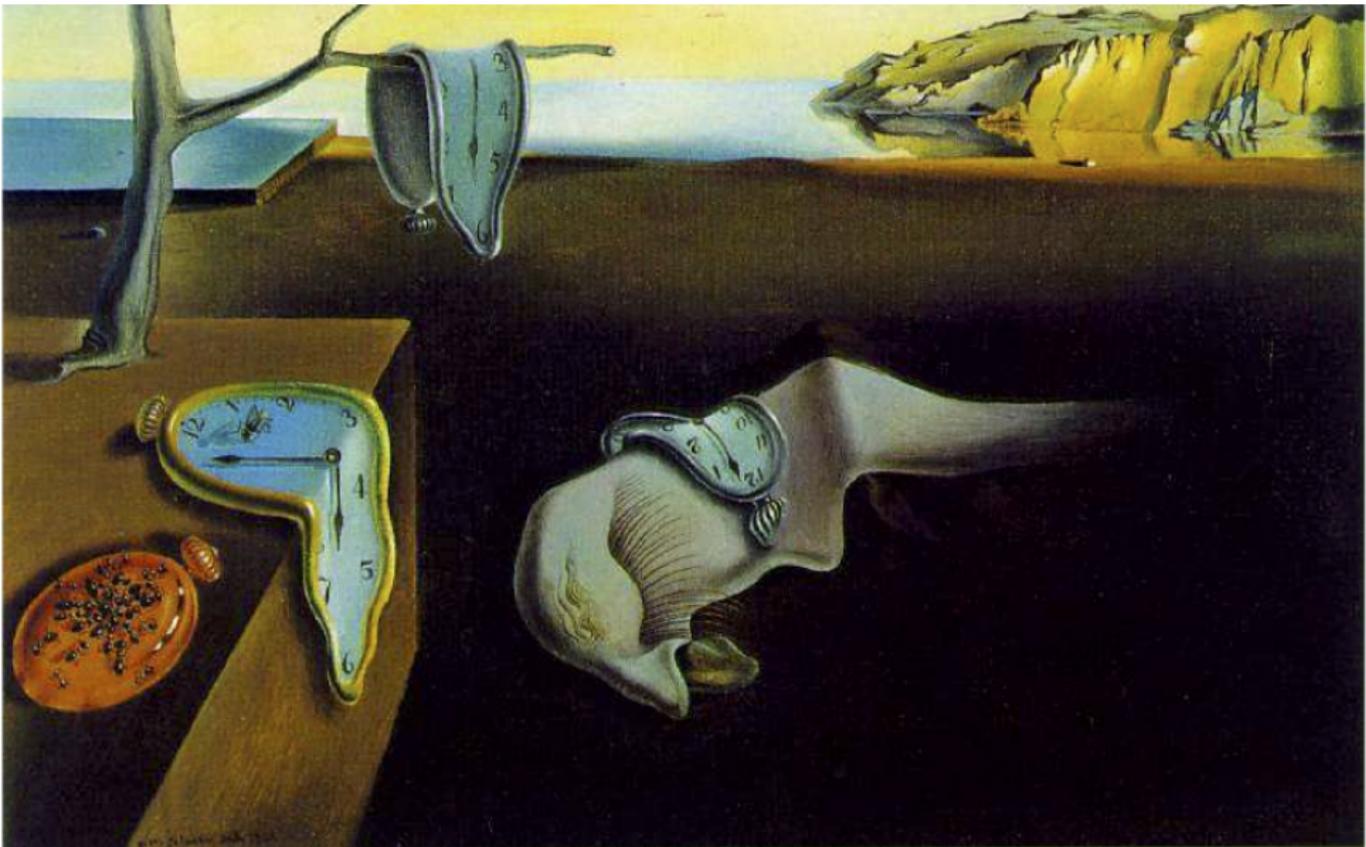
Automation **slowly** taking hold



Are we prepared for social changes?

## Prediction 4

- Education has not changed from what we needed for assembly line
- AI could worsen inequality
- Society needs to restructure
  - Bad: Massive unemployment and misery
  - Good: Redistribution
  - Great: Allow humans to focus on creativity



(-11.177339) a man is holding a skateboard in the air

ML sucks at creativity

## What should ML researchers do?

- Support creativity
  - Support arts
  - Support education that makes careers less automatable
  - Support more personalized experiences
  - Create ML that enhances humans' innate abilities

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- Support creativity
  - Support arts
  - Support education that makes careers less automatable
  - Support more personalized experiences
  - Create ML that enhances humans' innate abilities
- Help others understand how much ML sucks
- Build the foundations of the world your (grand)children want to live in
- Make AI interpretable and accountable