Seven Technologies to Keep an Eye On

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Infinite Monkey Theorem

SECOND EDITION

WITH A NEW SECTION: "ON ROBUSTNESS & FRAGILITY"

NEW YORK TIMES BESTSELLER

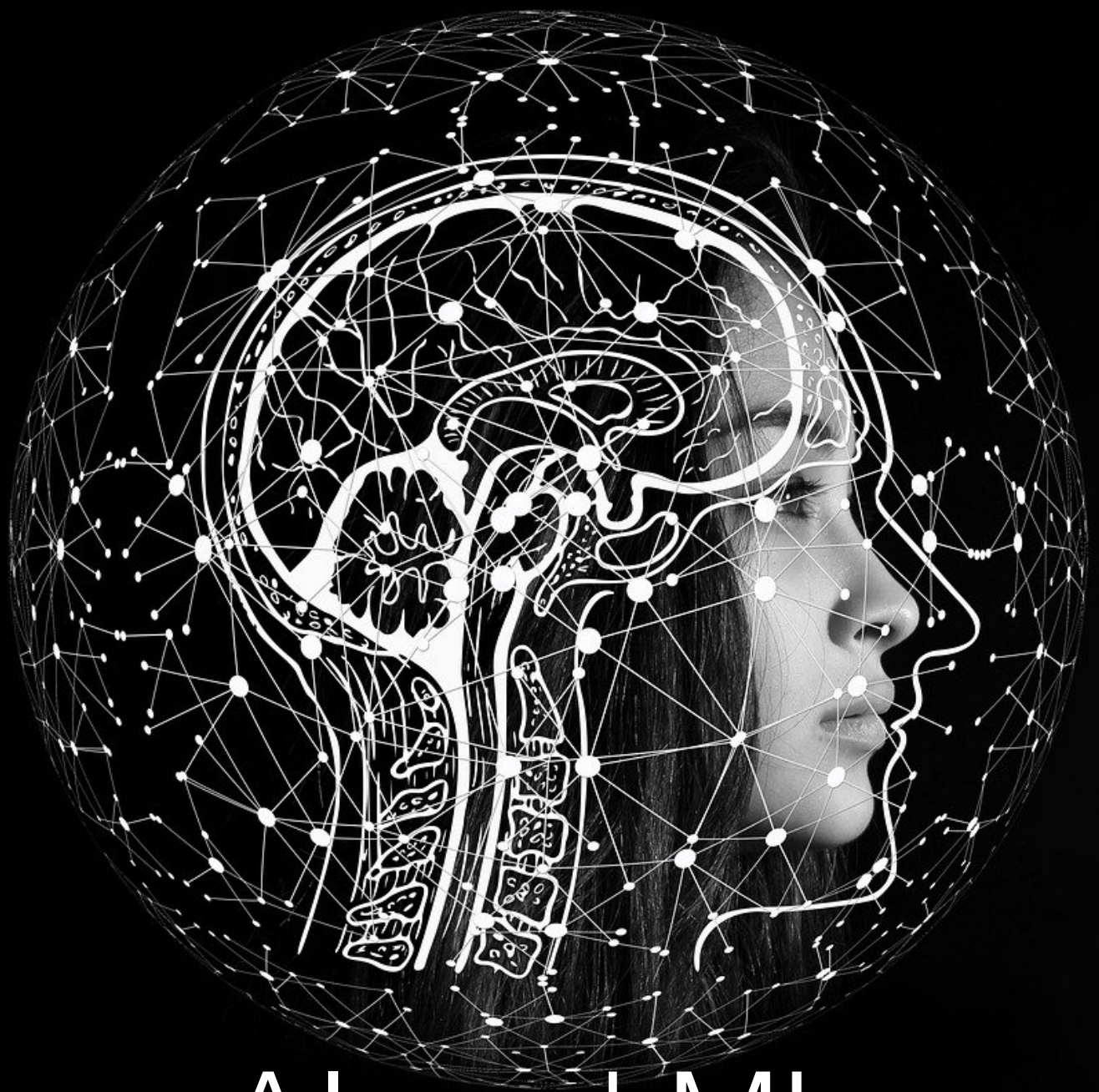
THE BLACK SWAN

The Impact of the HIGHLY IMPROBABLE

"The most prophetic voice of all."
—*GQ*

Nassim Nicholas Taleb

What’s shaping the future?



AI and ML

Long way from 1956

Chess…

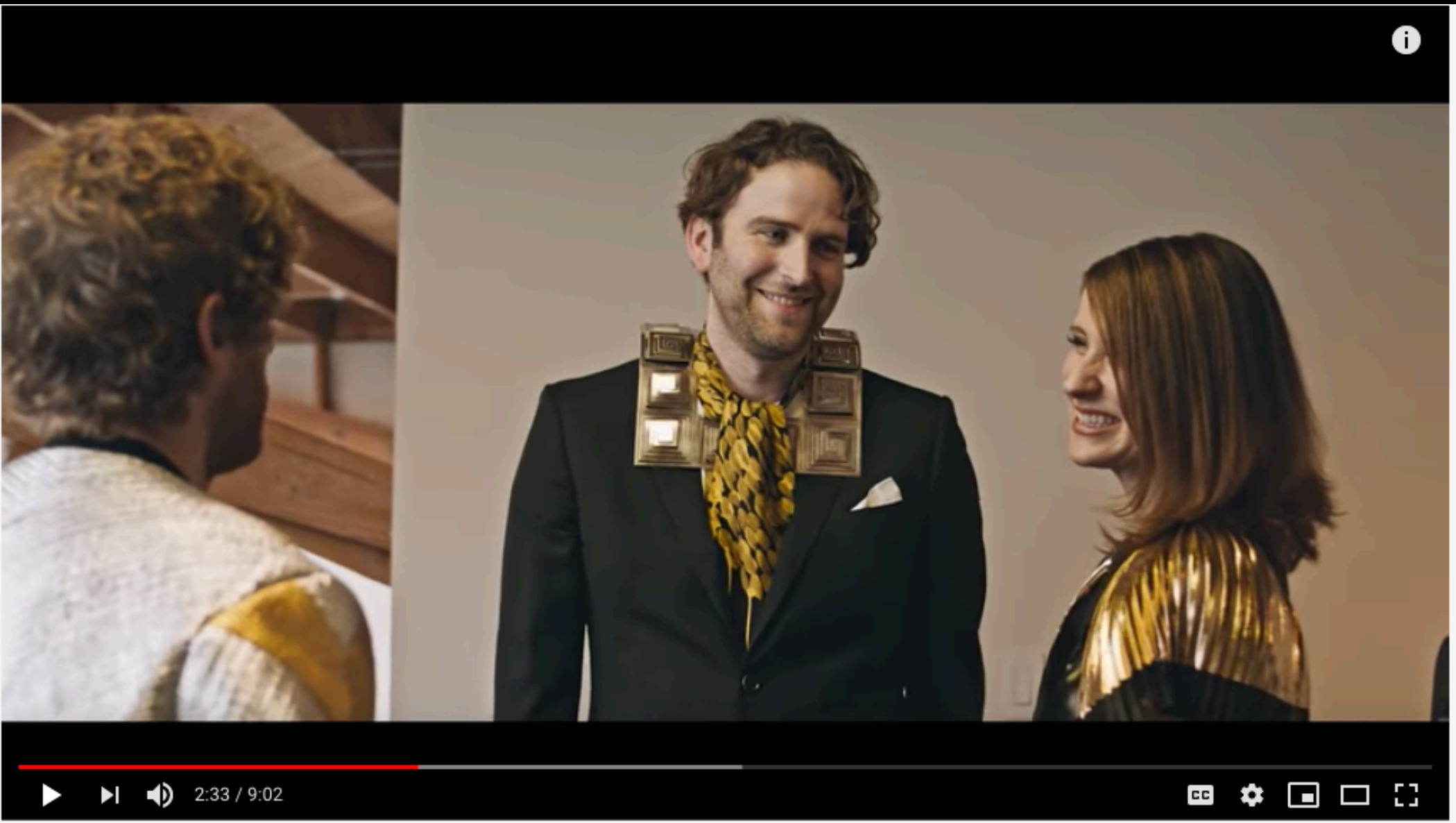
Watson and Jeopardy

6-Player Texas Hold ‘Em

Darren Elias vs. 5 Instances of Pluribus

From novice to world class in weeks

One Pluribus bot against 5 players



Sunspring | A Sci-Fi Short Film Starring Thomas Middleditch

Beyond Games &
Entertainment

Self-Driving Cars

Negotiations

Trading

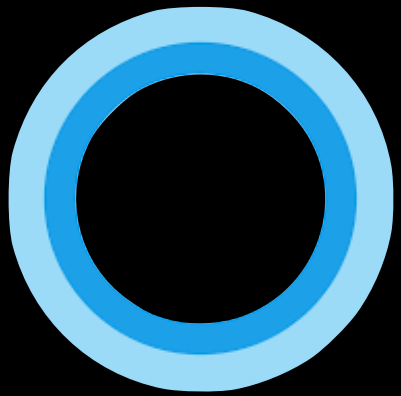
Health Care

Fraud Detection

Concerns

- Ethics and fairness
- Job loss

Conversational UI



Voice Assistance

Chatbots

Not just an interface

- Natural Language Processing
- AI, ML
- Fluent interactive interface

Not just ease

Great Impact on Accessibility

Increased Business Efficiency

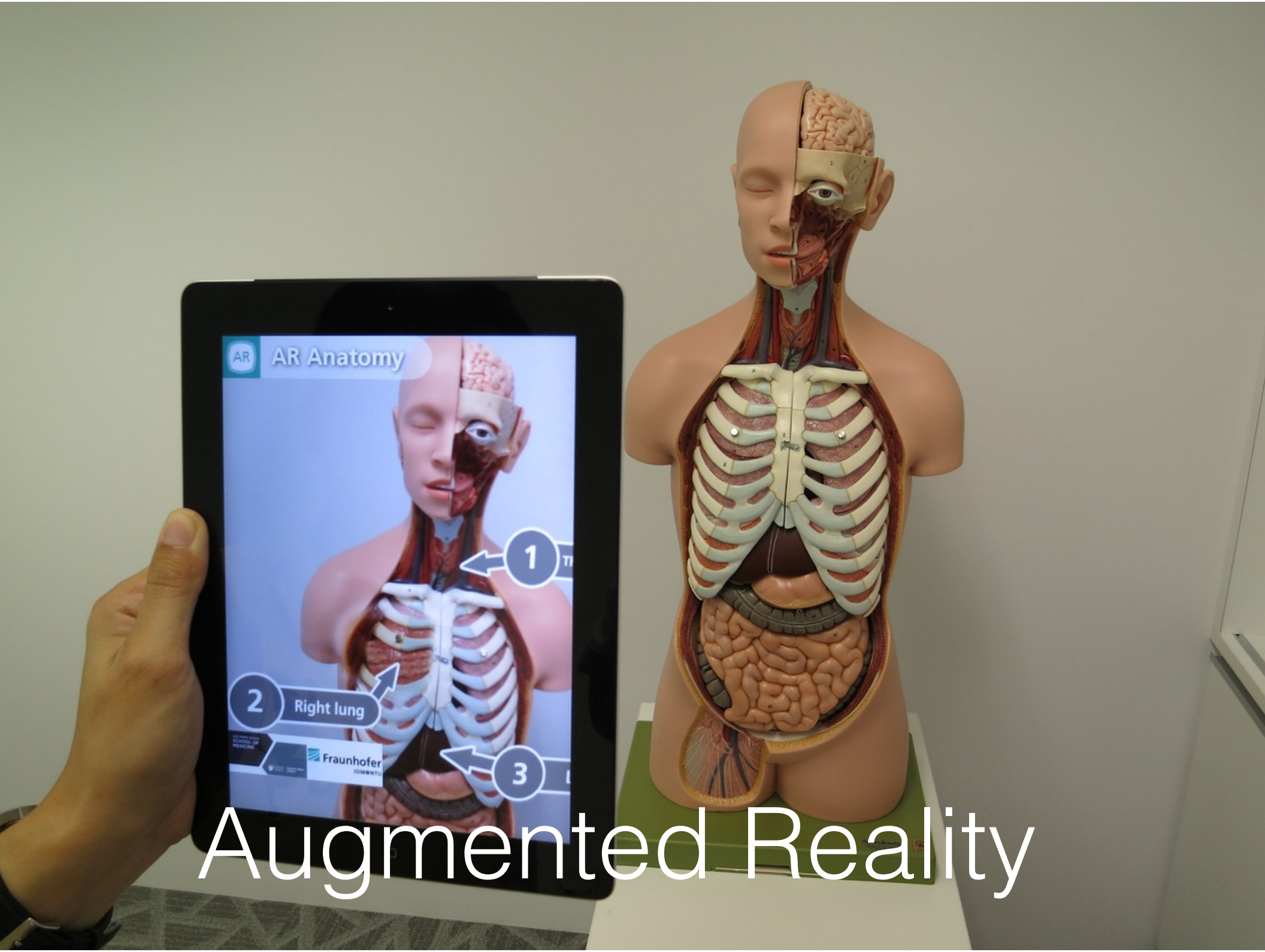
Throughput

Taking to the next level

React to
Emotional and Psychological
Situations

Concerns

- Privacy
- Security



Augmented Reality

GUIDED MICRO-PROJECTILES

- Marker based
  - based on what the user is looking at
- Marker less
  - Display models without any marker
- Location based
  - Depending on where the user is
- Projection based/light guided
  - Lights or projections guide the user
- Superimposition based
  - Super impose images on top of reality

So many applications

- HUD
- Education
- Fixing Appliances
- Support
- Medical
- Travel
- Translation

Concerns

- Privacy
- Security
- Distraction
- Perception Impairment

Internet of Things

Smart Homes

Security devices

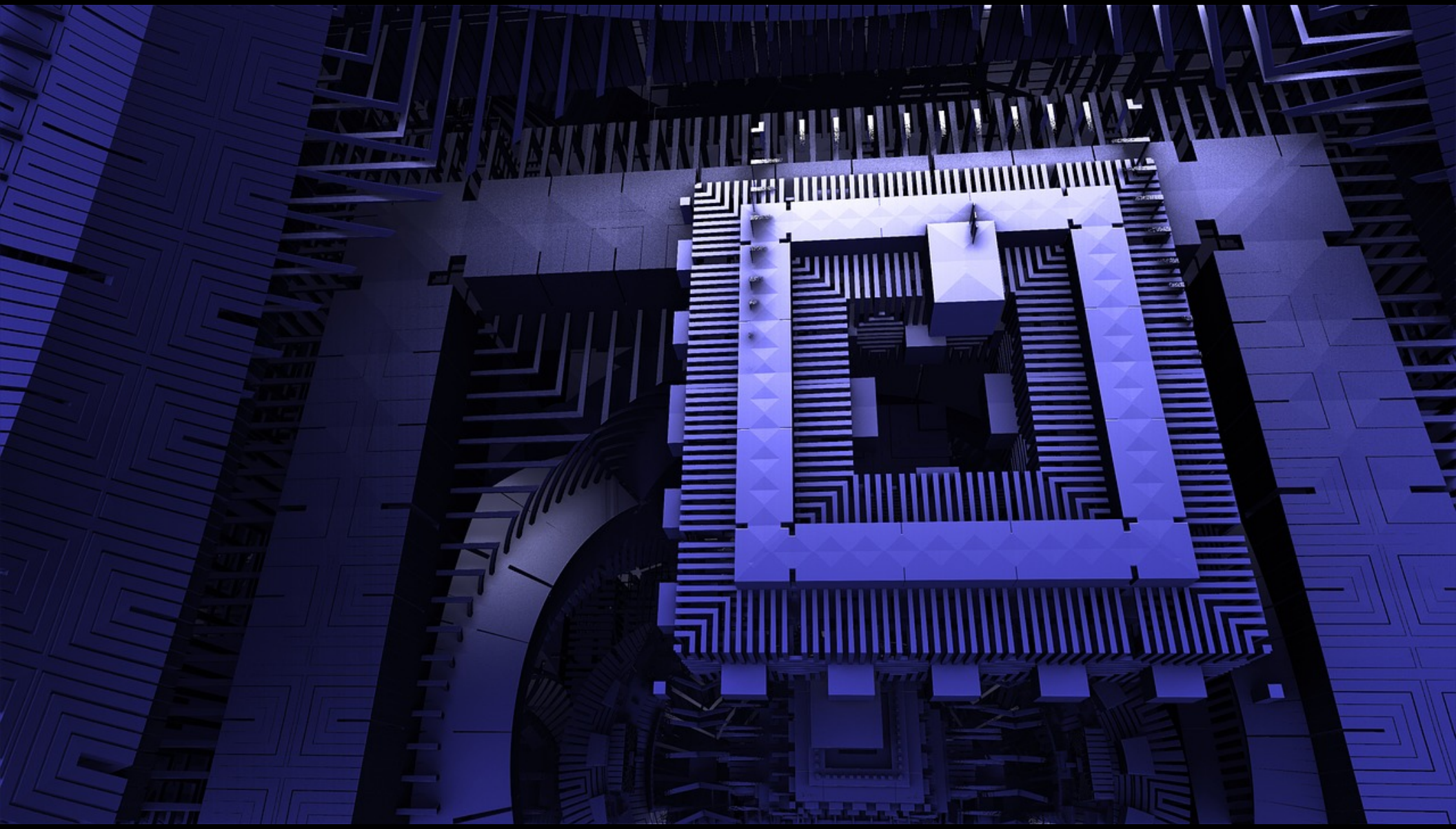
How we access information?

Order processing

Smart Operation Theatre

Concerns

- Privacy
- Security
- Surveillance
- Data storage volume



Quantum Computing

New Programming Paradigm

Heavy Number Crunching

Great for solving optimization problems

Super fast computing

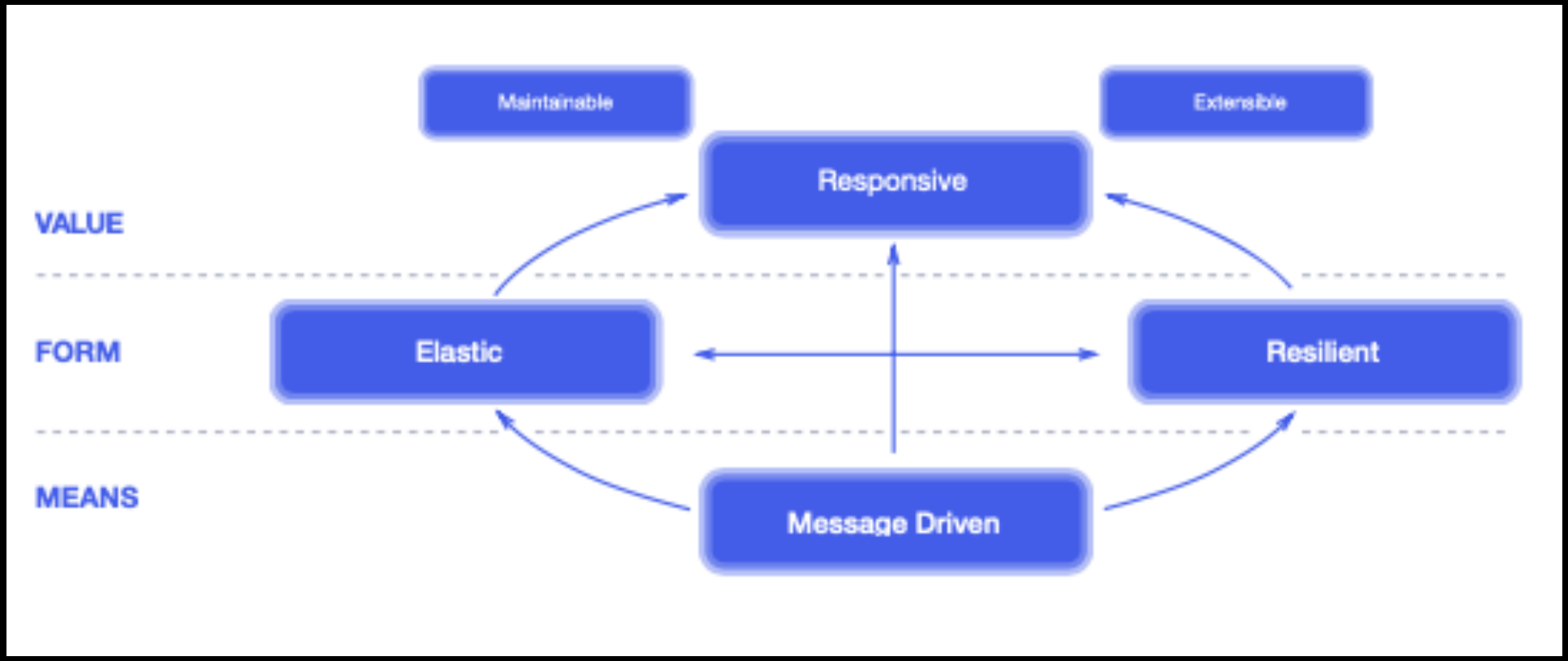
Rush to beat

China, US, …

Companies

Concerns

- Security
- Loss of Encryption



Reactive Applications

Big Data

High Volume, High Frequency

Full Stack Reactive

Concerns

- Slow evolution
- Complexity
- Configurability

Continuations and Fibers

Super lightweight threads

Asynchronous

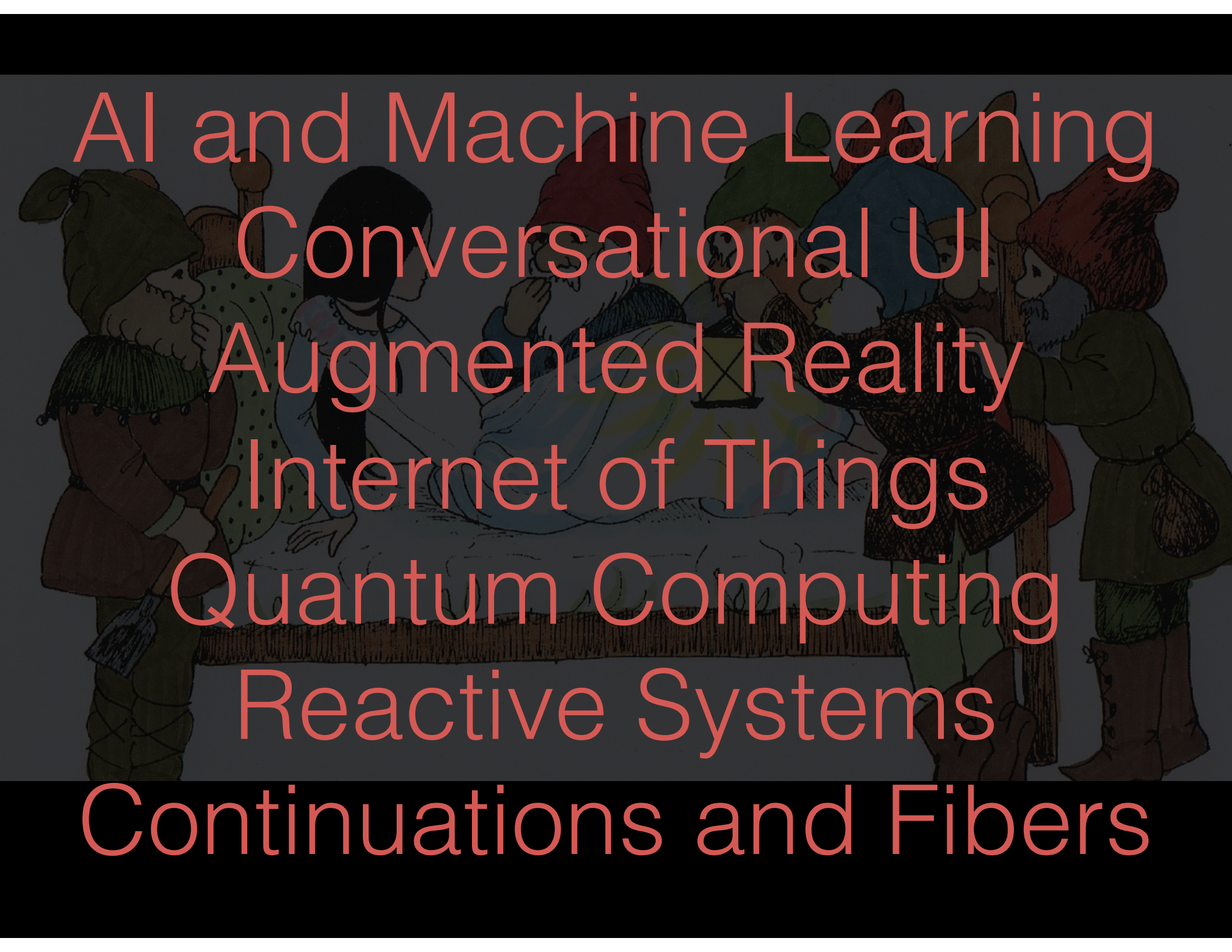
Fewer Machines

Better Scale

Better for the Environment

Concerns

- Slow evolution
- Lack of standard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Conversational UI
Augmented Reality
Internet of Things
Quantum Computing
Reactive Systems
Continuations and Fibers

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Thank you

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