

THE FUTURE OF WORK IN THE AGE OF THE MACHINE February 19, 2015

BROOKINGS

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MITSIOAN MANAGEMENT

THE SECOND MACHINE AGE

WORK, PROGRESS, AND PROSPERITY IN THE TIME OF BRILLIANT TECHNOLOGIES

ERIK BRYNJOLFSSON & ANDREW McAFEE

The Future of Work in the Machine Age

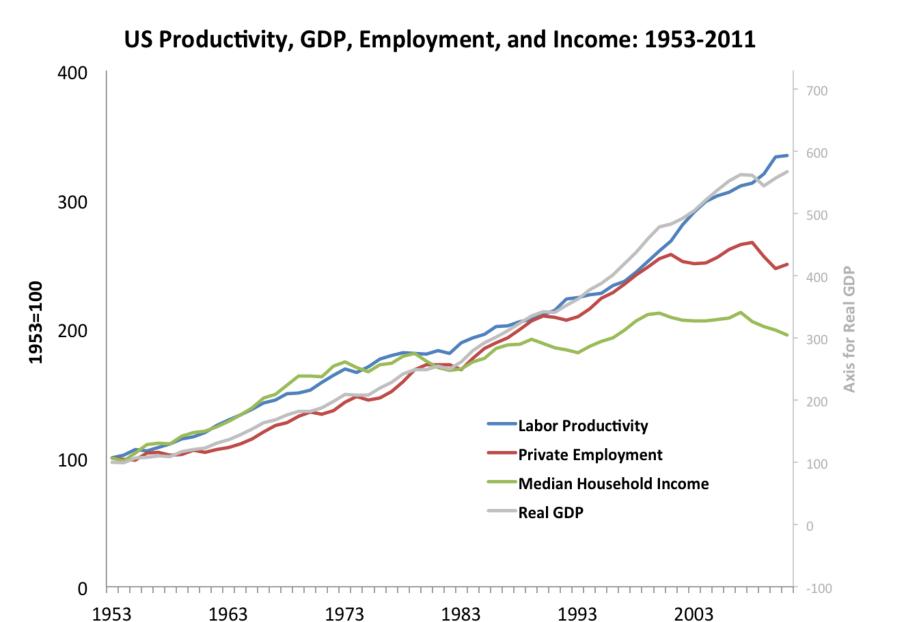
Erik Brynjolfsson and Andrew McAfee

MIT Sloan School

Hamilton Project Forum

February 19, 2015

The Great Decoupling



State of Understanding, 2005

Uniquely Human Abilities

- 1. Autonomous mobility and fine motor control
- 2. Language and complex communication
- Pattern matching and unstructured problem solving

Machine Intelligence

Interacting with physical world

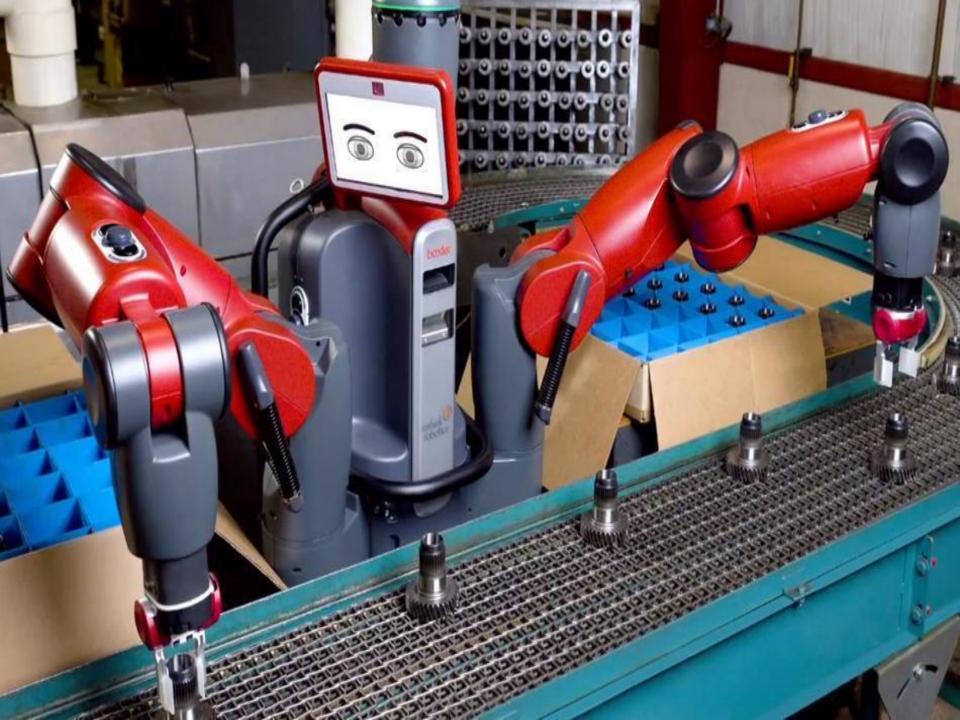
- Fine and gross motor control
- Vision and other senses

Language

- Voice recognition
- Natural language processing
- Creating narratives

Problem Solving

- Answering unstructured questions
- Rule based analysis
- Pattern recognition and classification



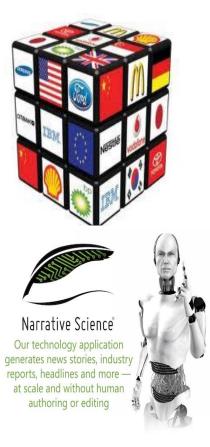
Siri

Voice recognition

Lionbridge Translation

Narrative Science Authoring News Stories





Forbes Earnings Preview: Apple



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Apple reports its second-quarter earnings on Wednesday, April 23, 2014, and the consensus earnings per share estimate is \$10.21 per share.

The consensus estimate has risen over the past month, from \$10.20, but it's below the estimate of \$11.02 from three months ago. For the fiscal year, analysts are projecting earnings of \$42.72 per share. Analysts project revenue to fall less than a percent year-over-year to \$43.55 billion for the quarter, after being \$43.60 billion a year ago. Analysts are expecting revenue to stay flat at \$43.55 billion this quarter. For the year, revenue is projected to come in at \$180.22 Copyrigi billion.

Jeopardy!

3 I N N

\$18,200

KEUOY

\$5,600

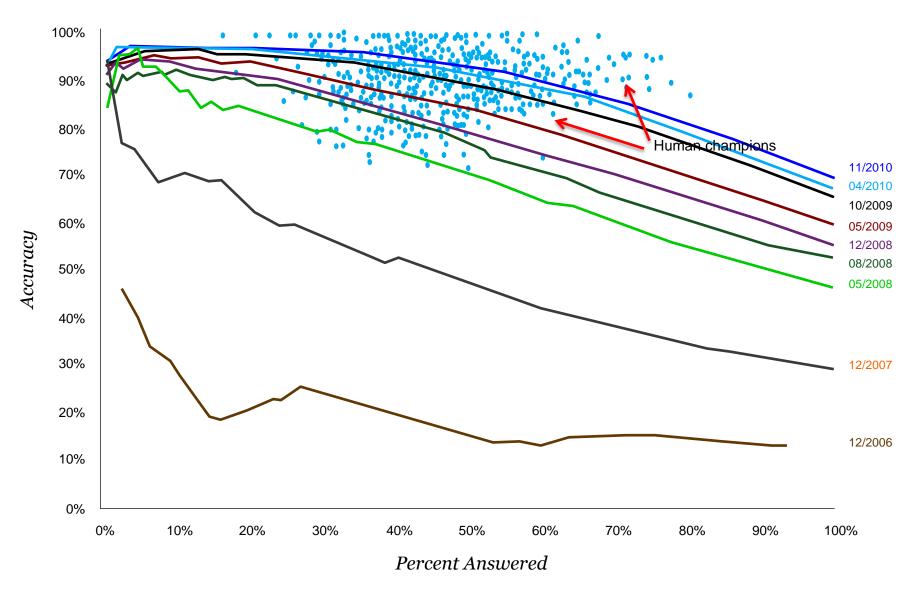
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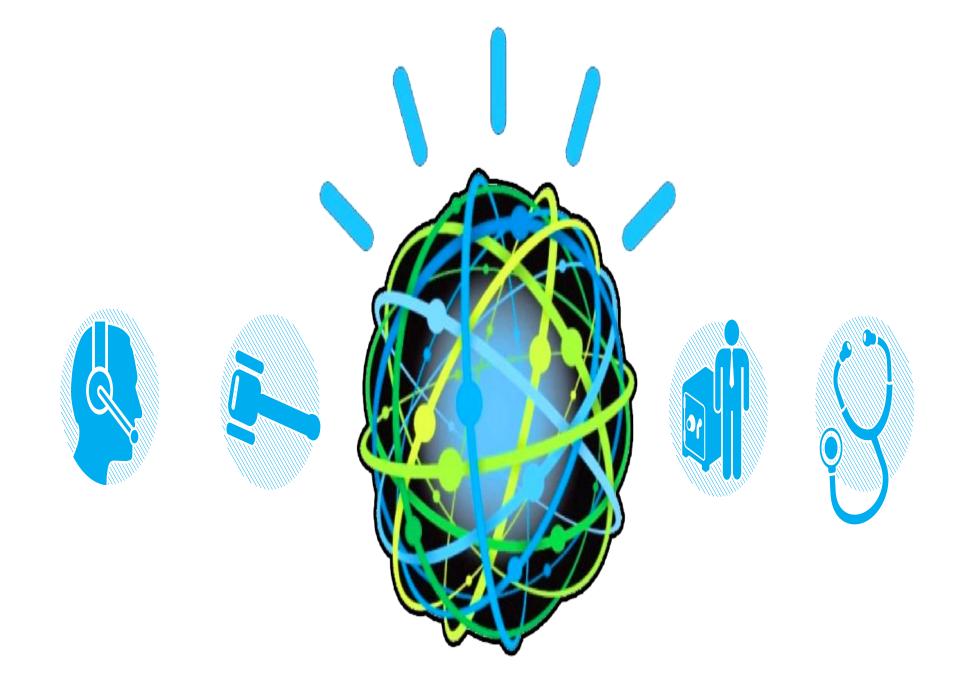
PENSE

WILLIAM WILKINSON'S "AN ACCOUNT OF THE PRINCIPALITIES OF WALLACHIA AND MOLDAVIA" INSPIRED THIS AUTHOR'S MOST FAMOUS NOVEL

\$23,440

Accuracy and Questions Answered on *Jeopardy!*





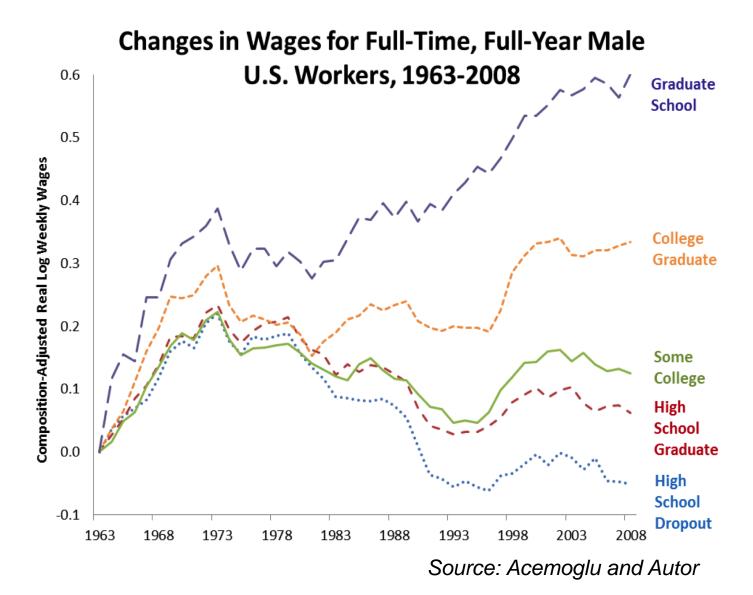
The Hard Truth



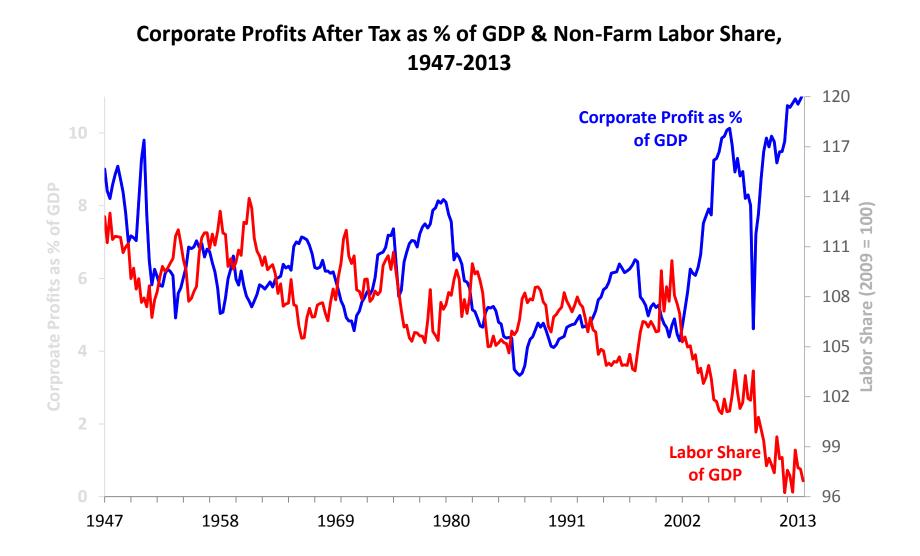
Technical progress makes the economic pie bigger. But there is no economic law that everyone, or even most people, automatically benefit.

Three Sets of Winners and Losers

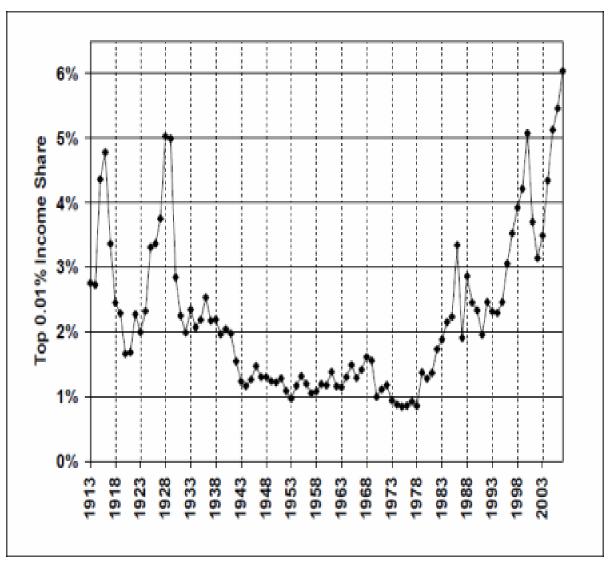
1. Skill Biased Technical Change



2. Capital vs. Labor



3. Superstars vs. rest



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The New Grand Challenge

- Digital technologies will continue to accelerate.
- Our skills, organizations and institutions are lagging.
- Business as usual won't solve this problem.
- We need to reinvent our economy and society to keep up with accelerating technology





ROUNDTABLE: THE FUTURE OF JOBS February 19, 2015

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