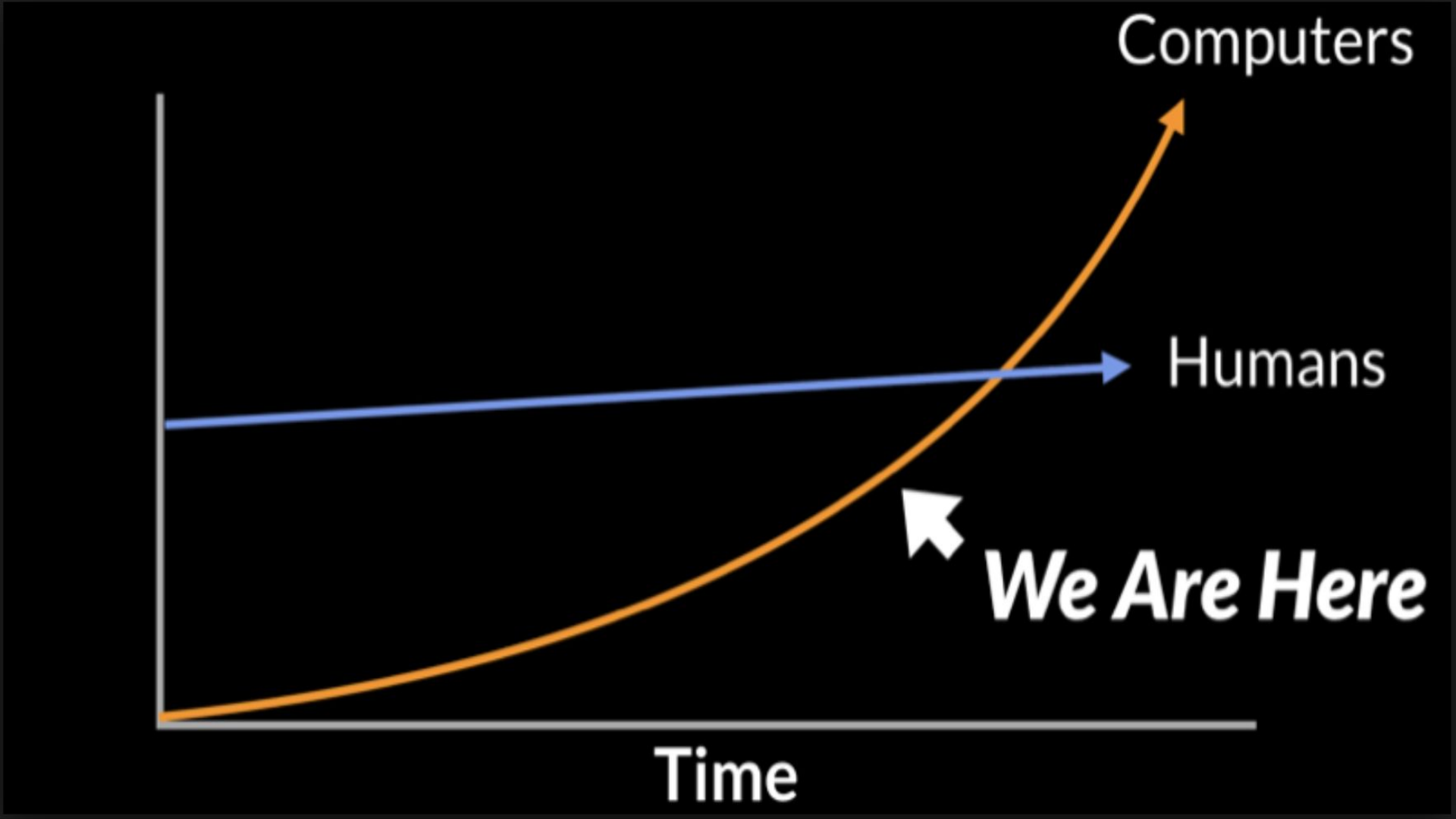
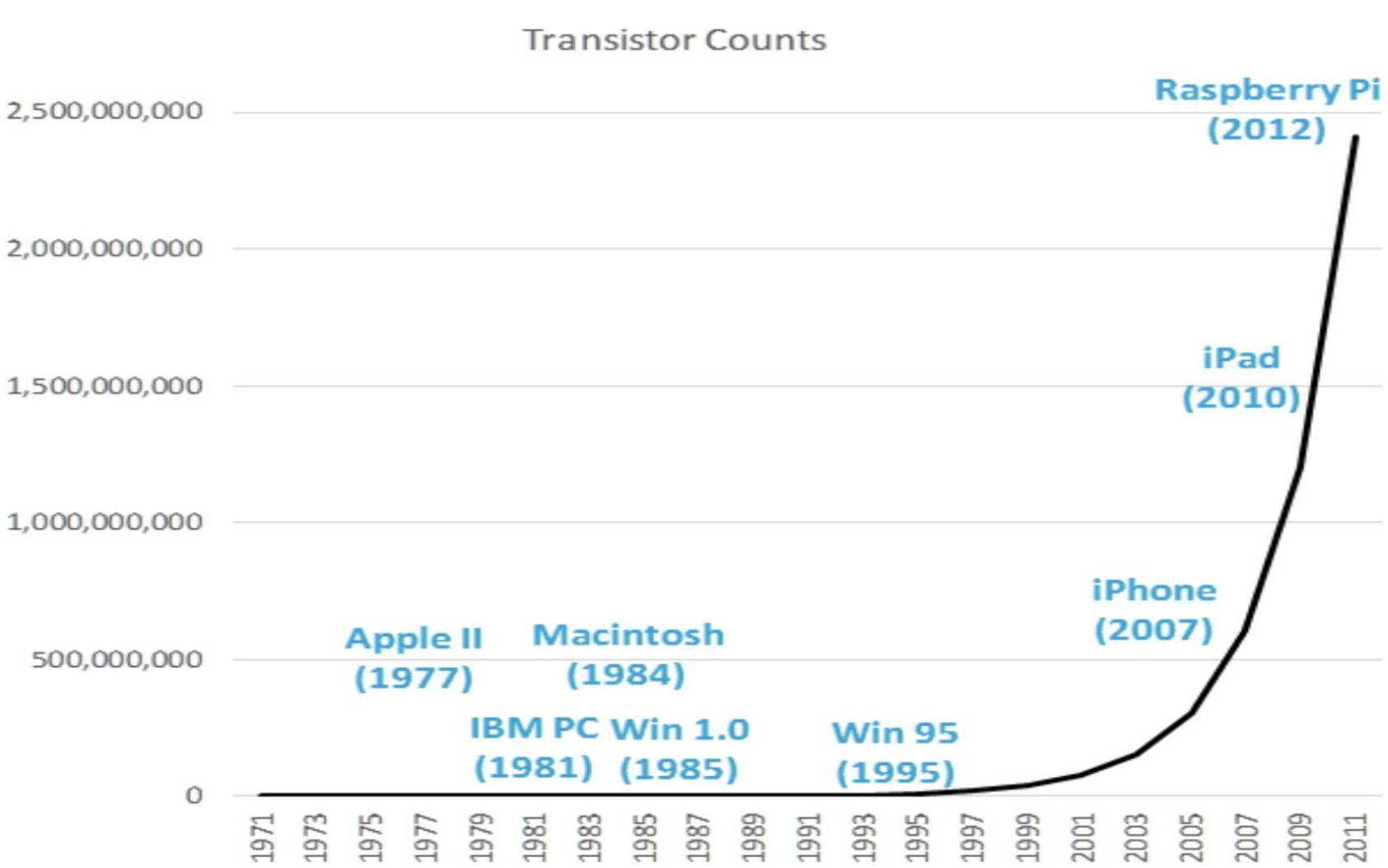
What AI can (and can't) do?

Prof. **Toby Walsh**
UNSW Sydney | Data61 | TU Berlin

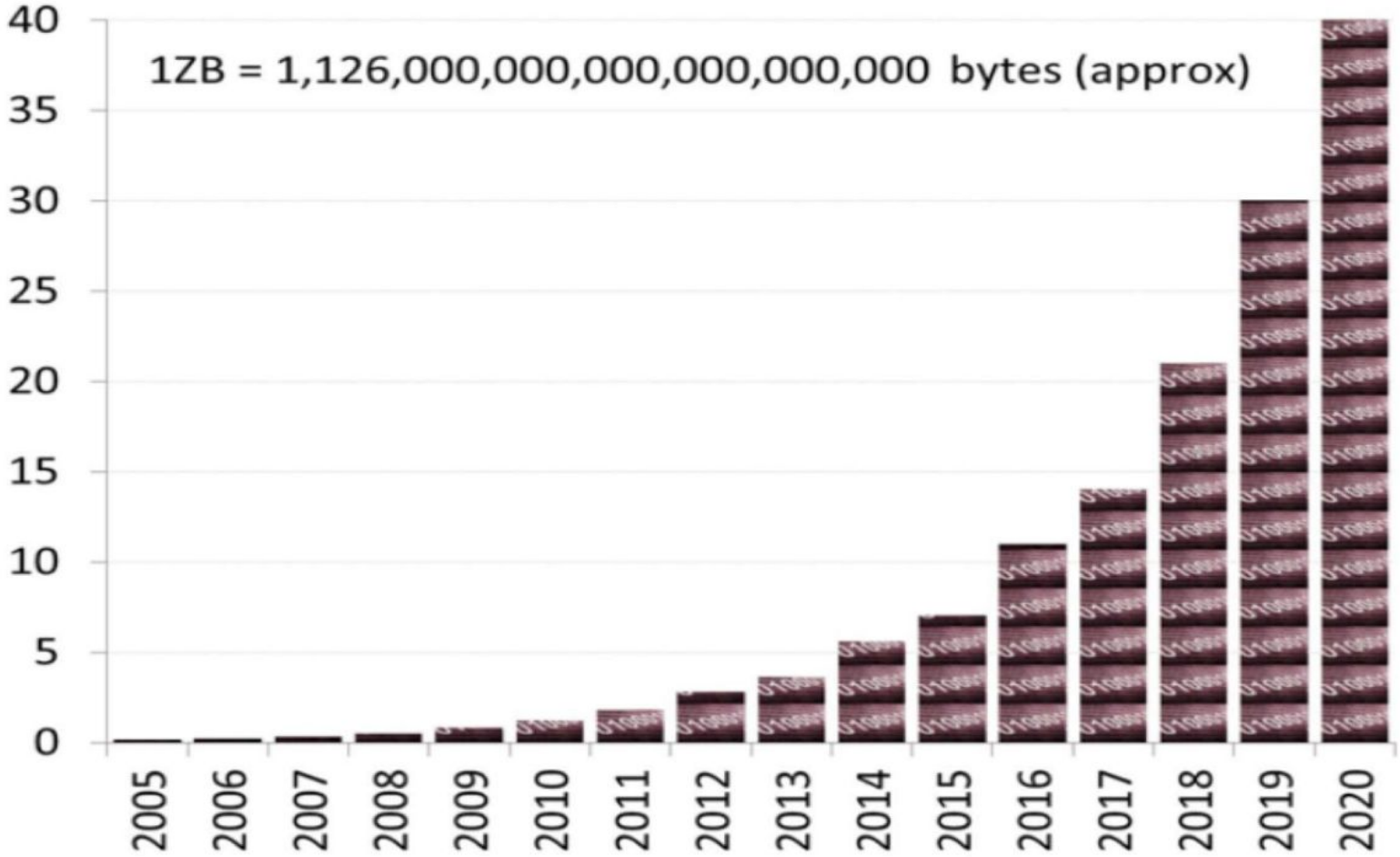
Google DeepMind
Challenge Match
8 - 15 March 2016
AlphaGo
ALPHAGO
00:12:30
LEE SEDOL
00:34:31
AlphaGo
Lee Sedol

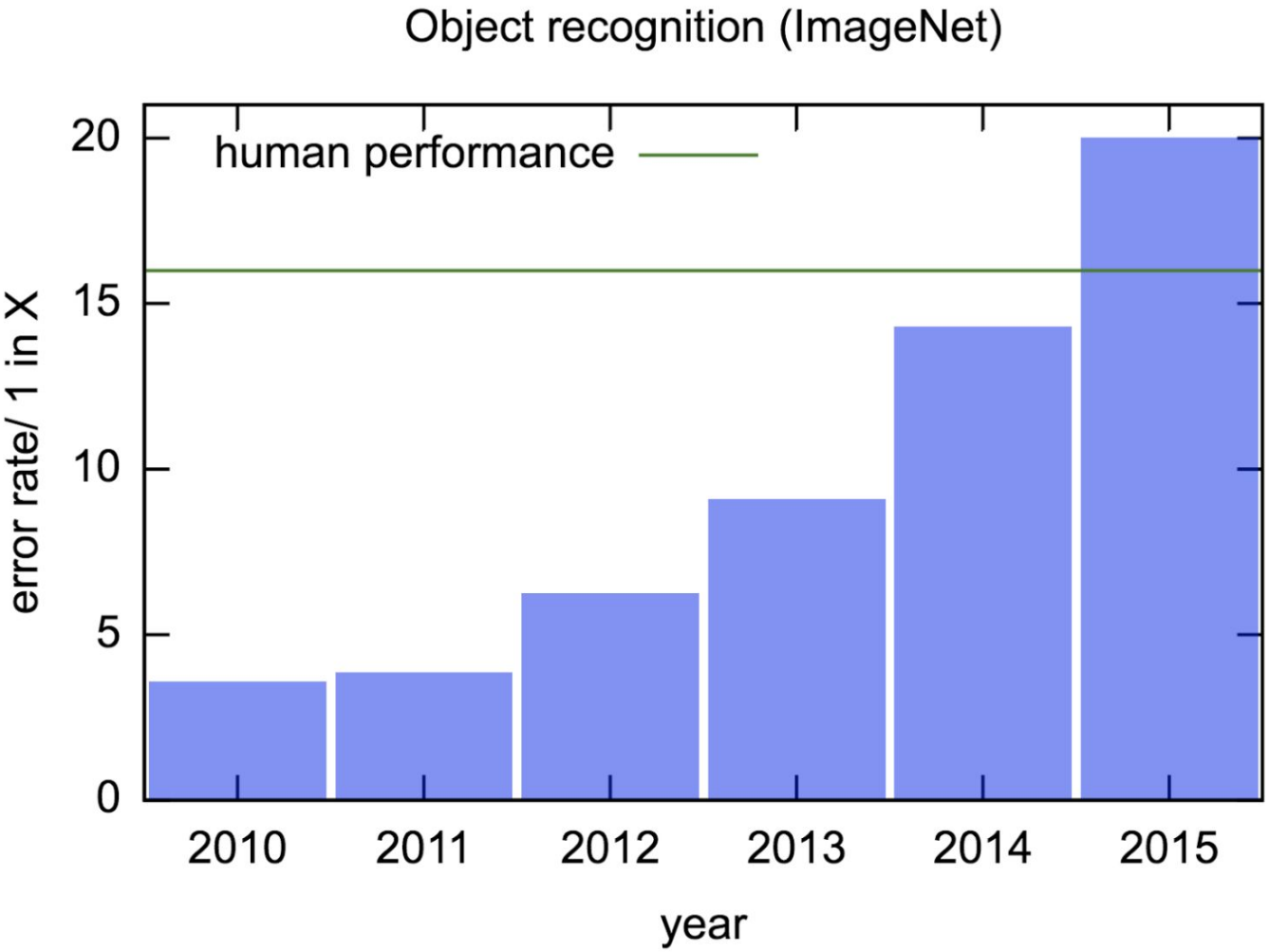
柯洁 KE JIE
00:15:19
ALPHAGO
01:45:25
浙江省体育局


Computers
Humans
We Are Here
Time


Transistor Counts
2,500,000,000
2,000,000,000
1,500,000,000
1,000,000,000
500,000,000
0
Raspberry Pi
(2012)
iPad
(2010)
iPhone
(2007)
Apple II
(1977)
Macintosh
(1984)
IBM PC
(1981)
Win 1.0
(1985)
Win 95
(1995)
1971
1973
1975
1977
1979
1981
1983
1985
1987
1989
1991
1993
1995
1997
1999
2001
2003
2005
2007
2009
2011

All Global Data in Zettabytes

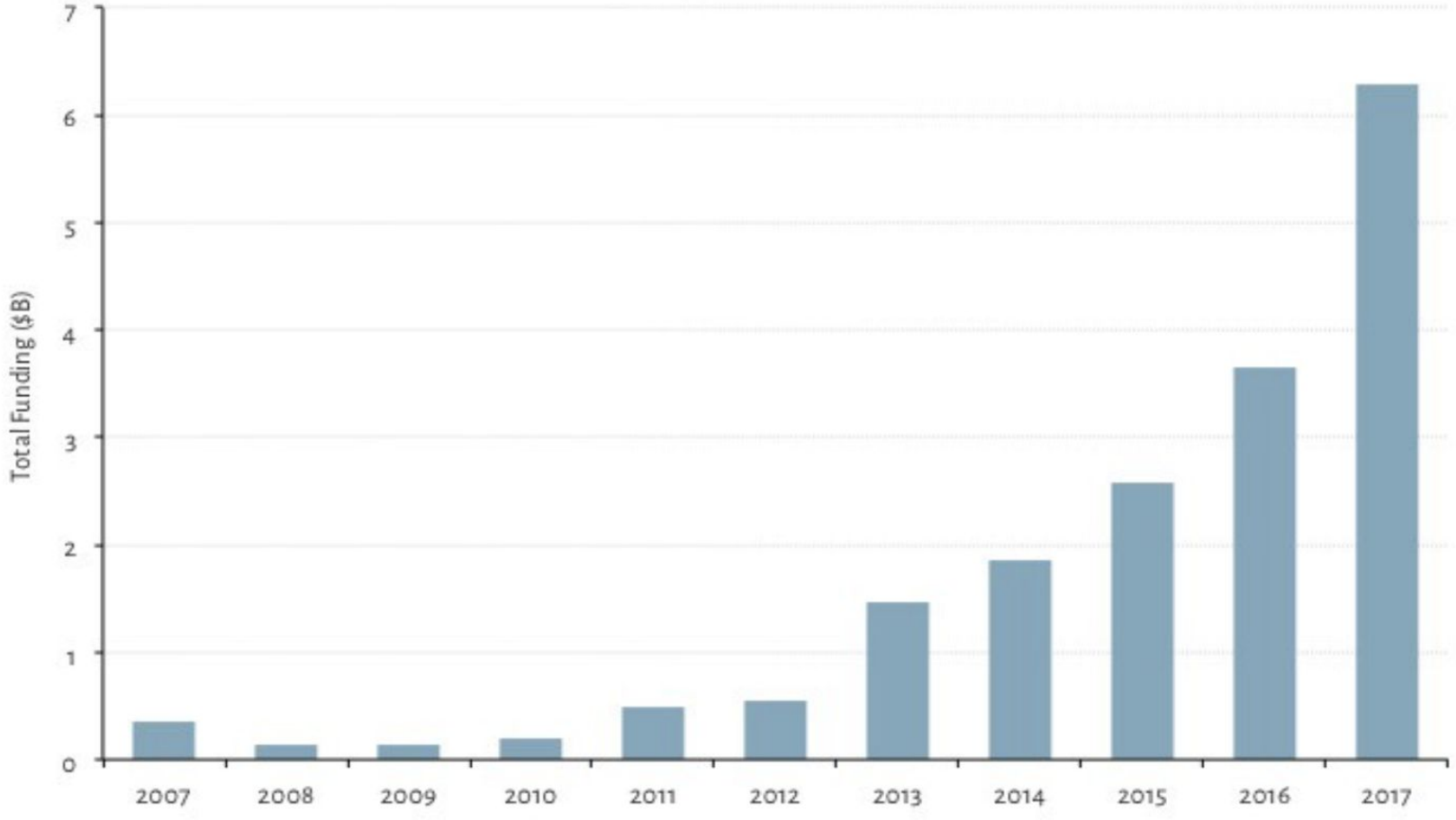



Object recognition (ImageNet)
human performance
error rate/ 1 in X
0
5
10
15
20
2010
2011
2012
2013
2014
2015
year

ARTIFICIAL INTELLIGENCE

Total Funding by Year

VENTURE SCANNER



Here is very nice

What do you do for fun?

Qué haces para divertirte?

Voy a las playas de Méjico

I go to the beaches of Mexico

I like to swim

Me gusta nadar

A mi también

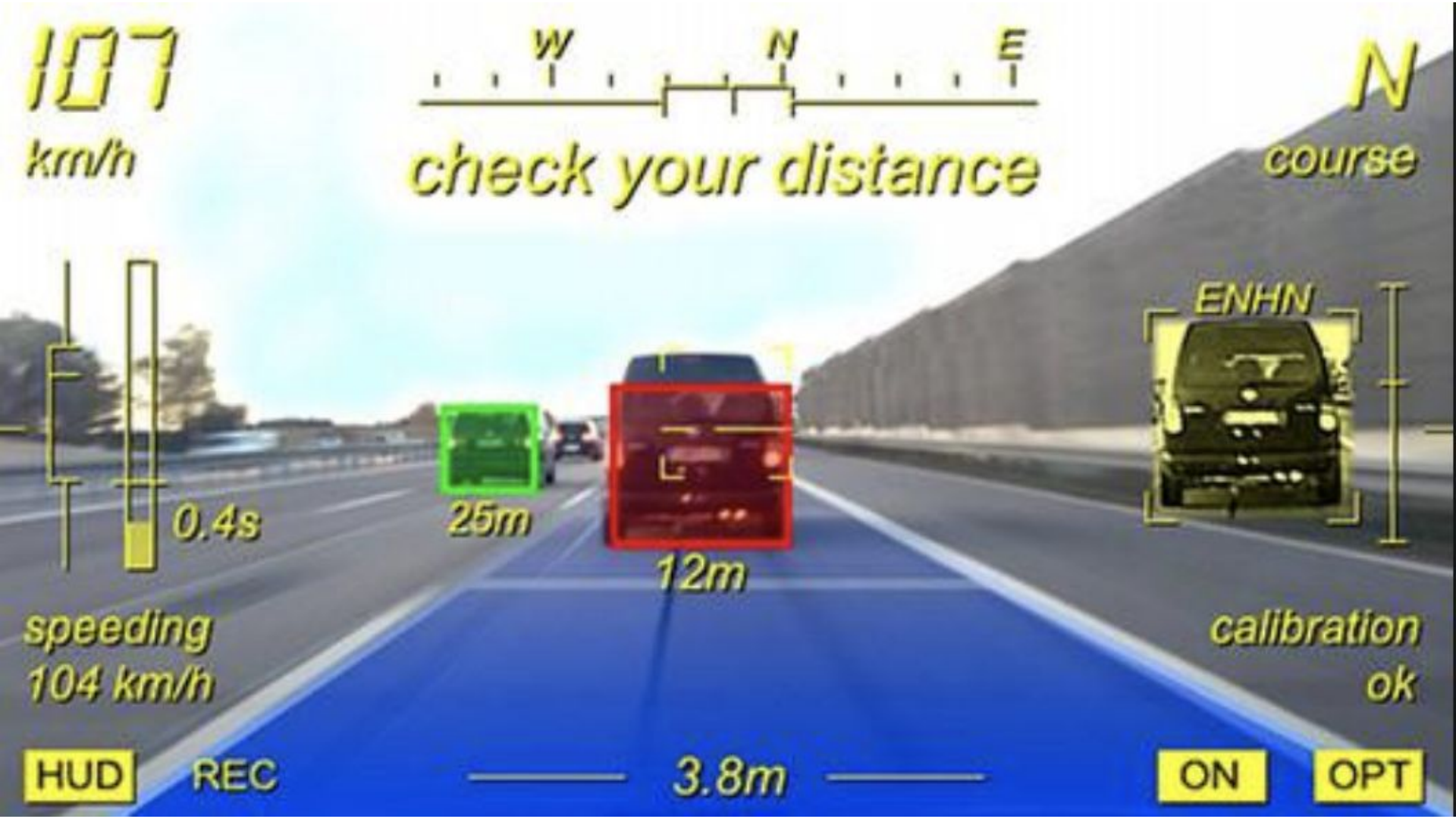
Me too

Where in the world do you wish to travel?

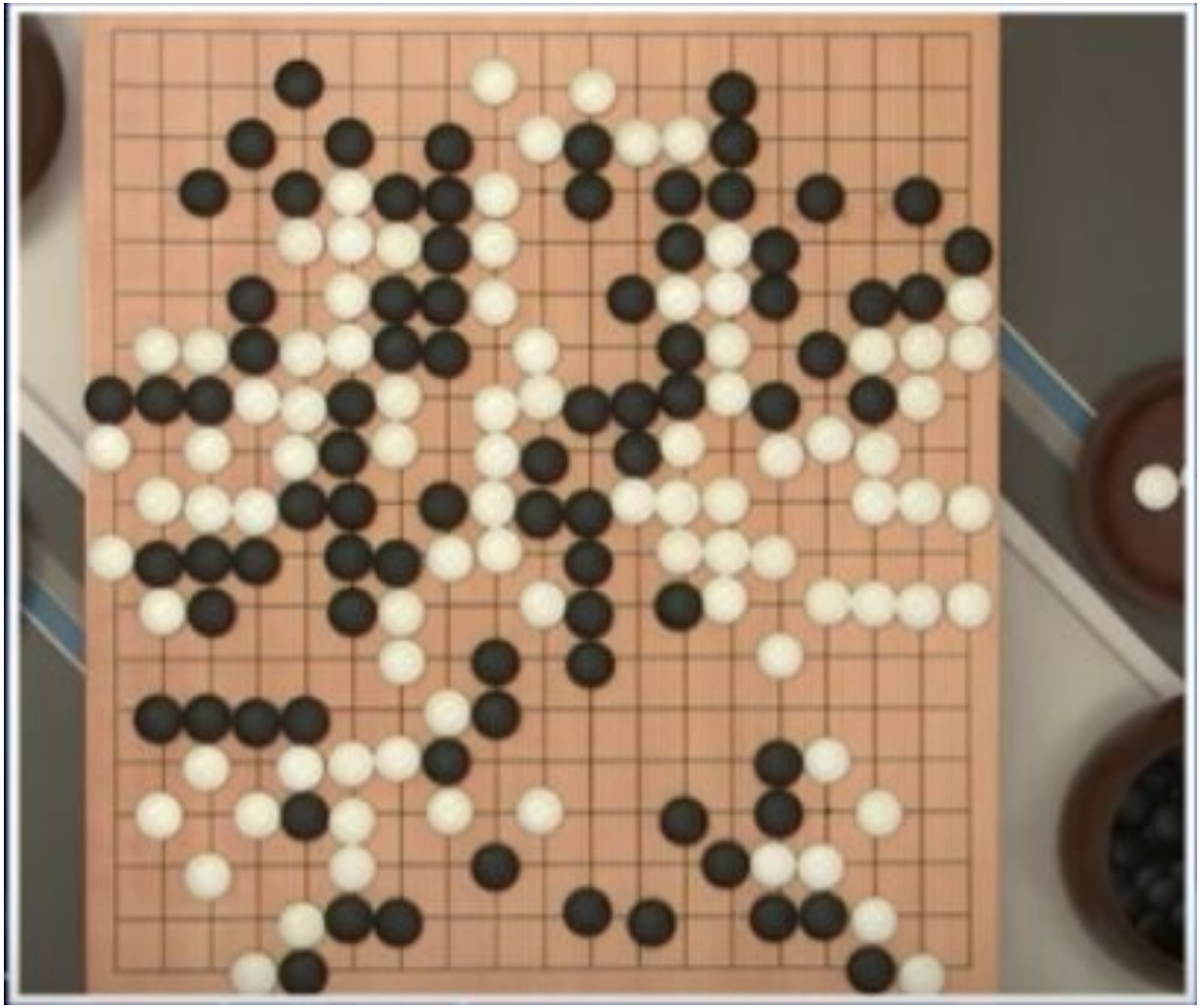
Adónde en el mundo te gustaría viajar?

A Rusia

To Russia


107
km/h
W
N
E
N
course
check your distance
ENHN
0.4s
25m
12m
speeding
104 km/h
calibration
ok
HUD
REC
3.8m
ON
OPT

a b c d e f g h
8 7 6 5 4 3 2 1



SKYNET
NEURAL NET-BASED ARTIFICIAL INTELLIGENCE

Robots threaten 15m UK jobs, says Bank of England's chief economist

Results of the Bank's study, Andy Haldane said, suggested that administrative, clerical and production tasks were most at threat

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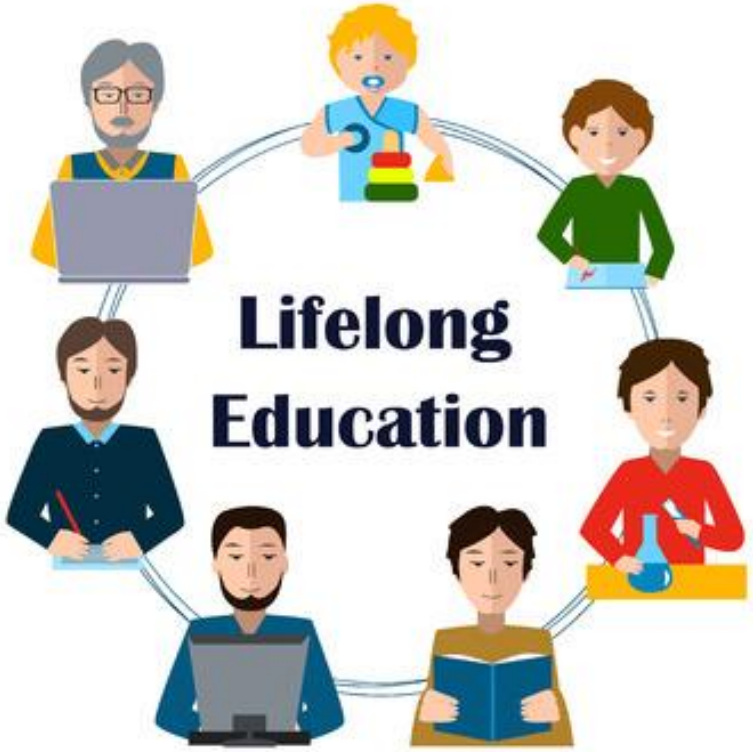
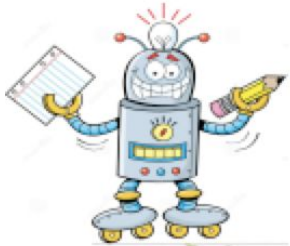
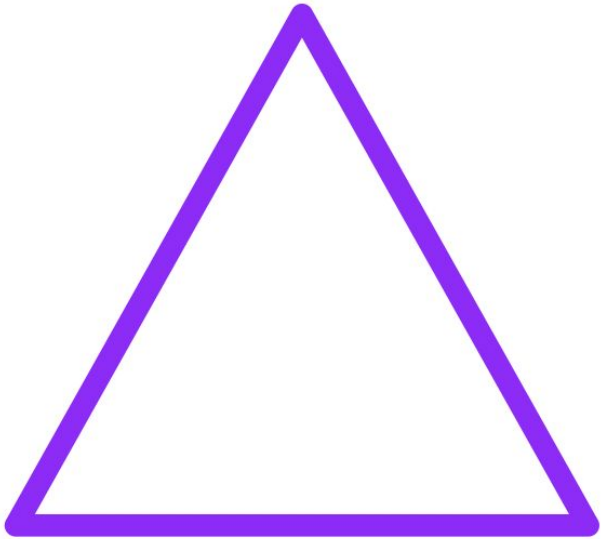
NETWORK SATISFACTION

BICYCLE REPAIRING.
BICYCLE LIVER
SEGARS
CIGARS

UBER
ADVANCED TECHNOLOGIES CENTER


Lifelong
Education





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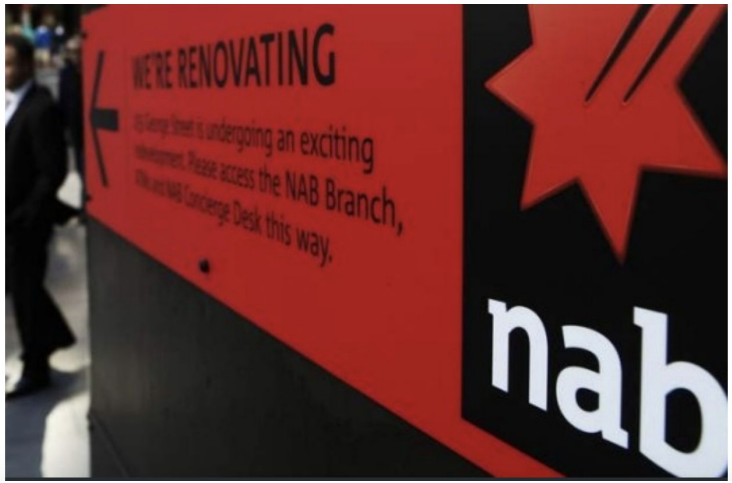

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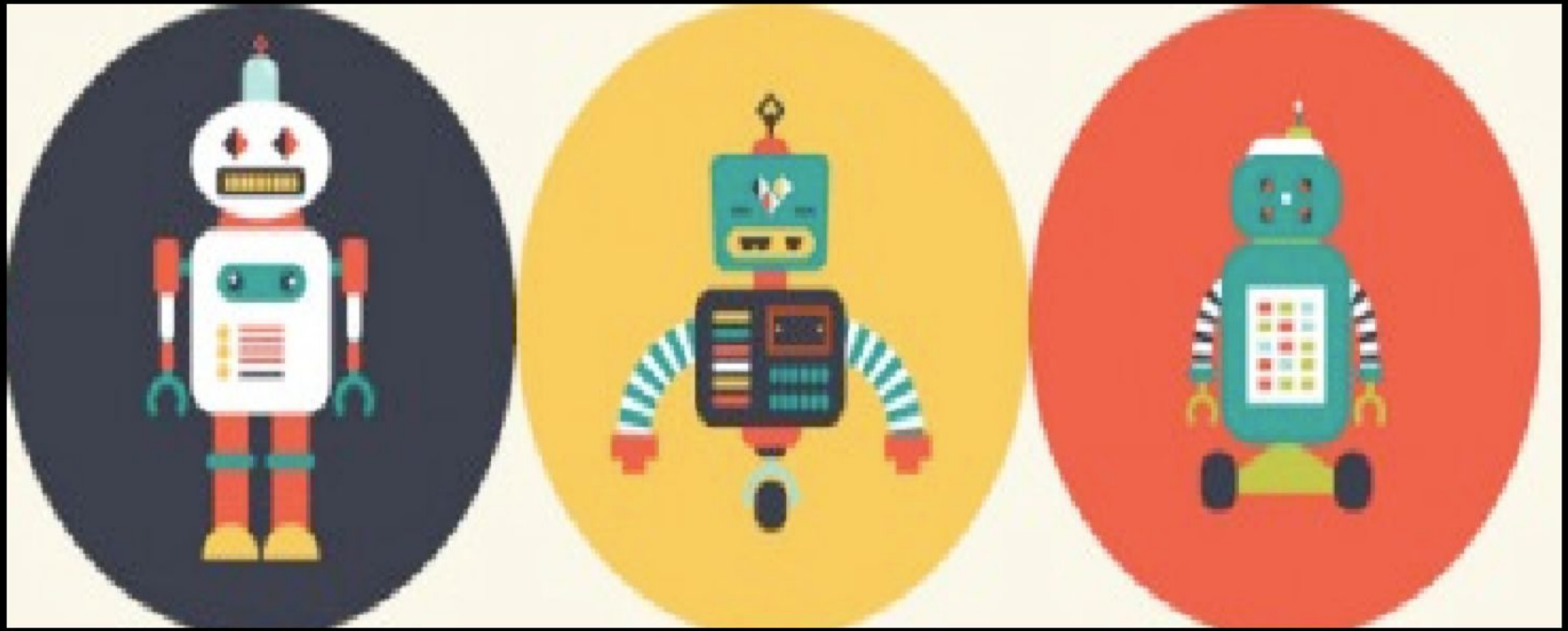
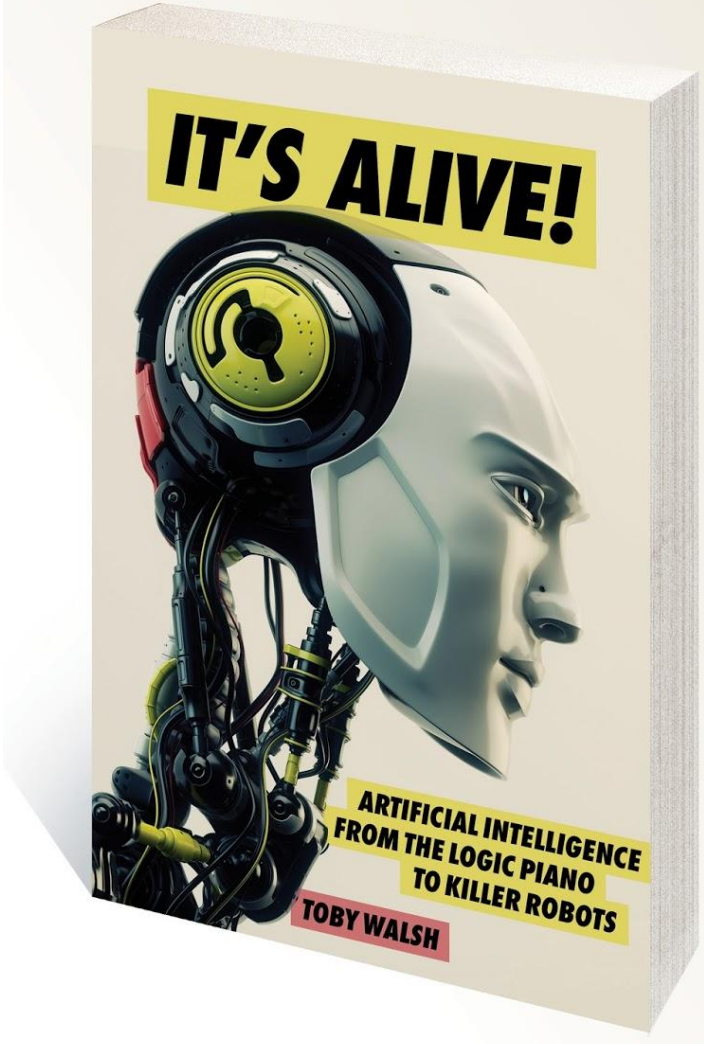


Healthier Wealthier Happier



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