thinkrealestate with Google

Winning in an AI first world

Konstantin Schellong, Google

Prepare your mind

Artificial intelligence

This whole grand project

Machine learning

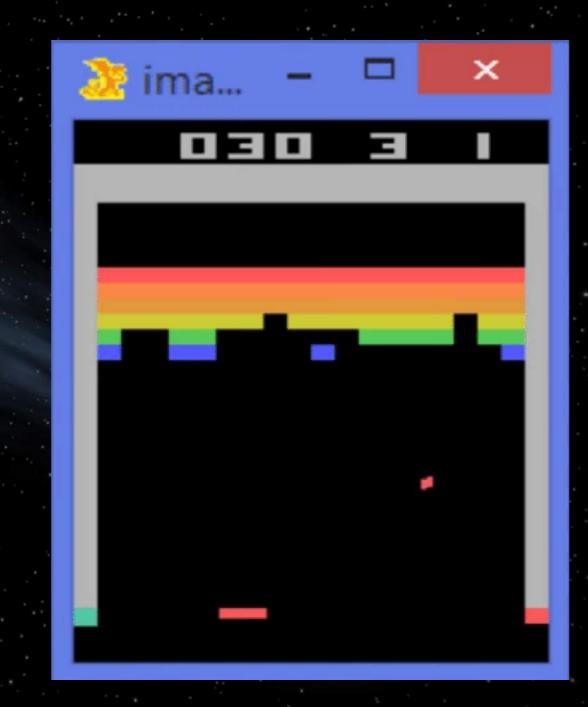
Ability of computers to learn

Deep learning

More powerful and easier to train

Google

10 minutes... Random luck.



120 minutes...

Flawless



240 minutes... Strategy emerges

Chess solved already in 1997

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Deep Blue

IBM

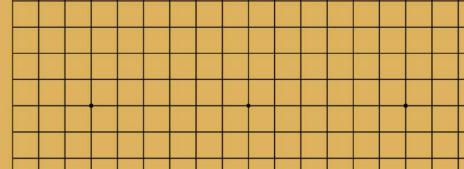
Higher complexity game: GO

8x8



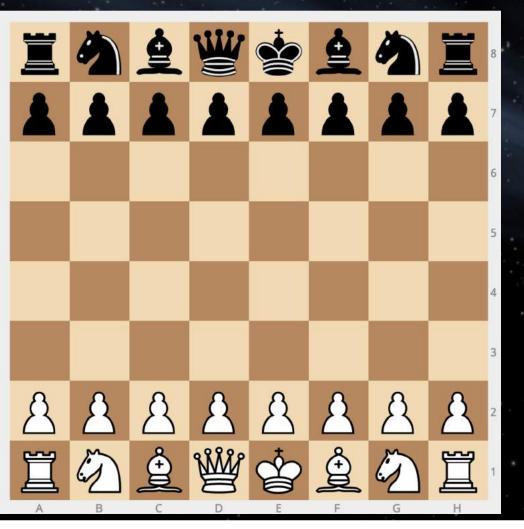


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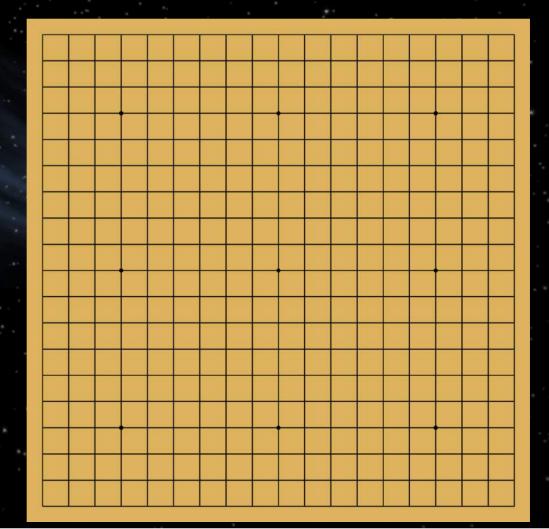


Possible combinations first 3 moves

4.352

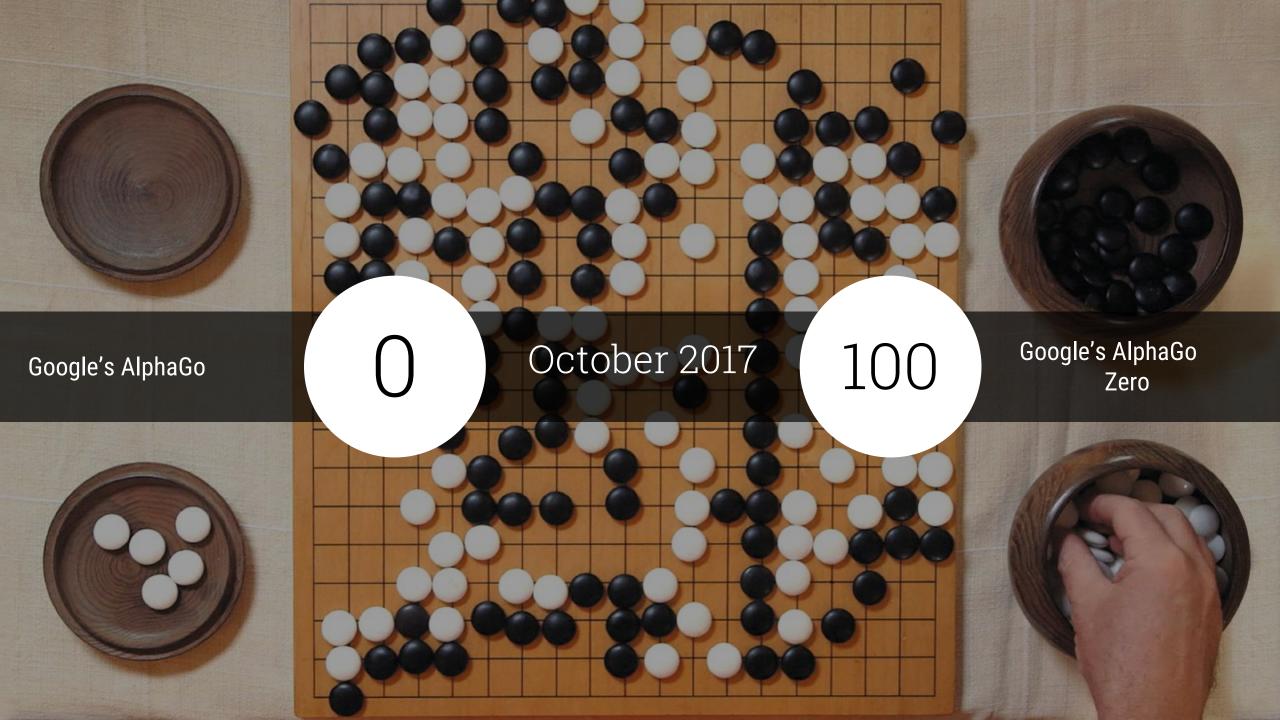


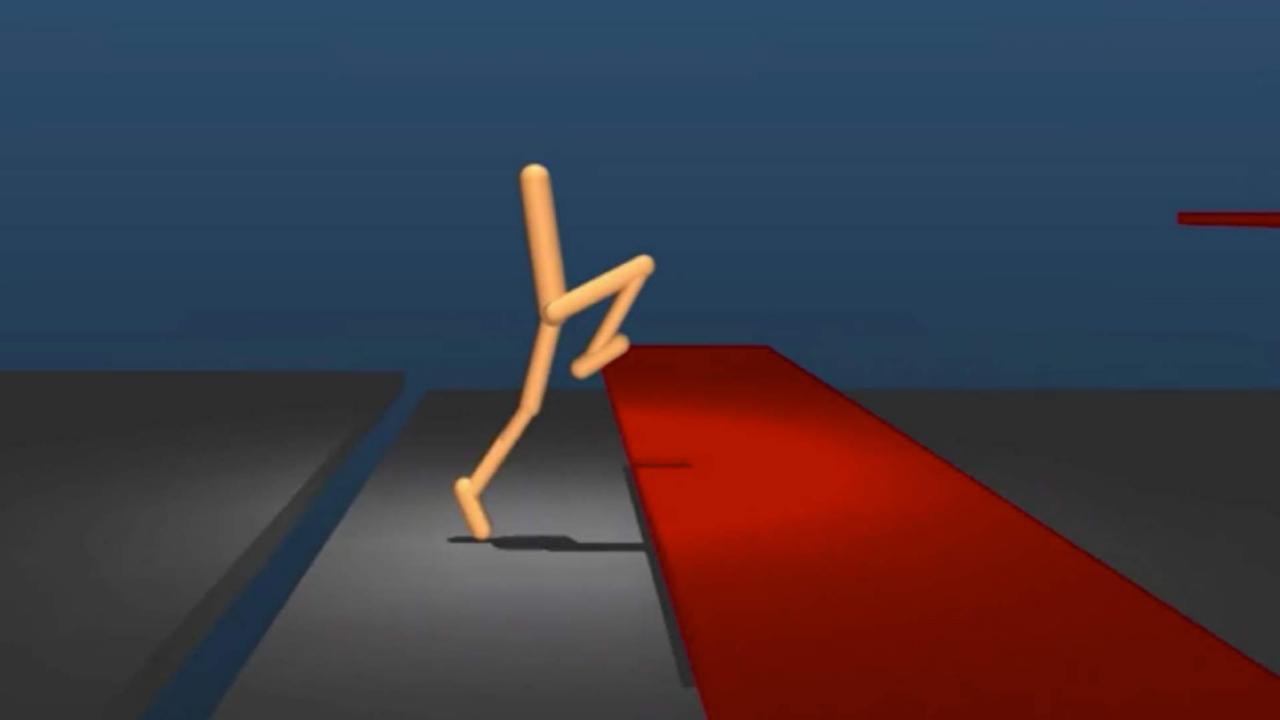
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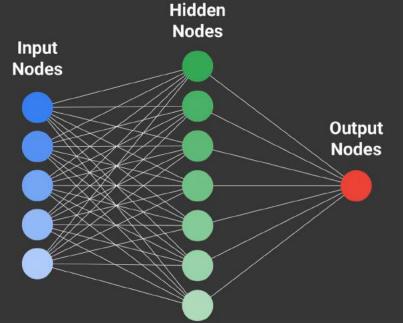


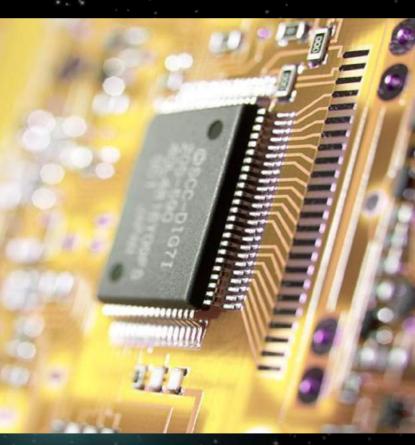




So why all the fuss now?





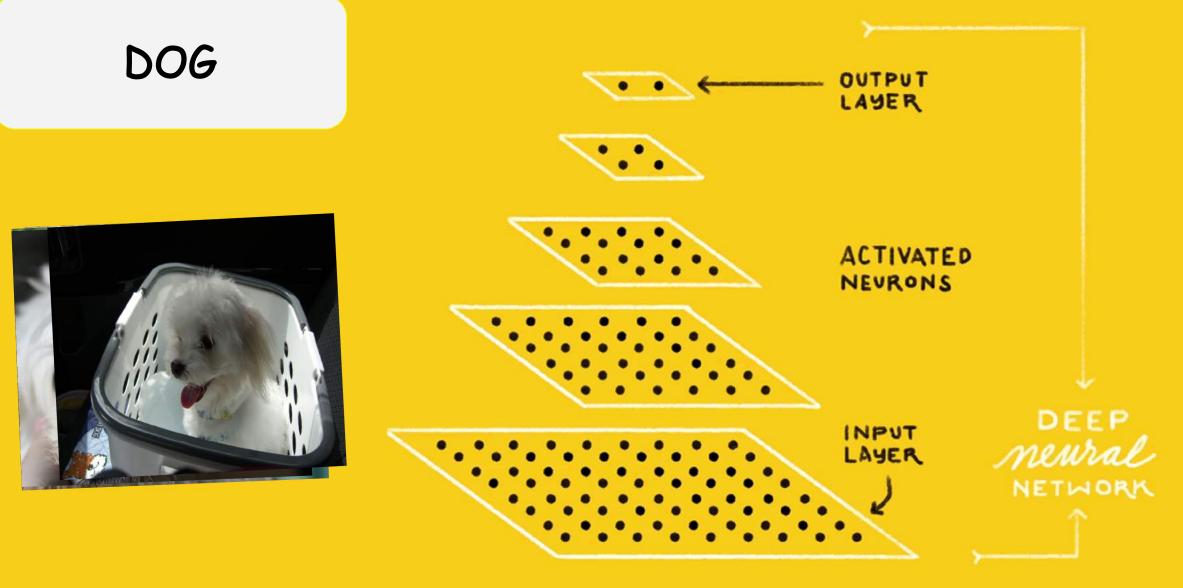


Large Datasets

Good Models

Lots of Computation

CAT DOG



Tom Hanks or Bill Murray?







Machine Learning say's it's... Bill Murray - and it's right!





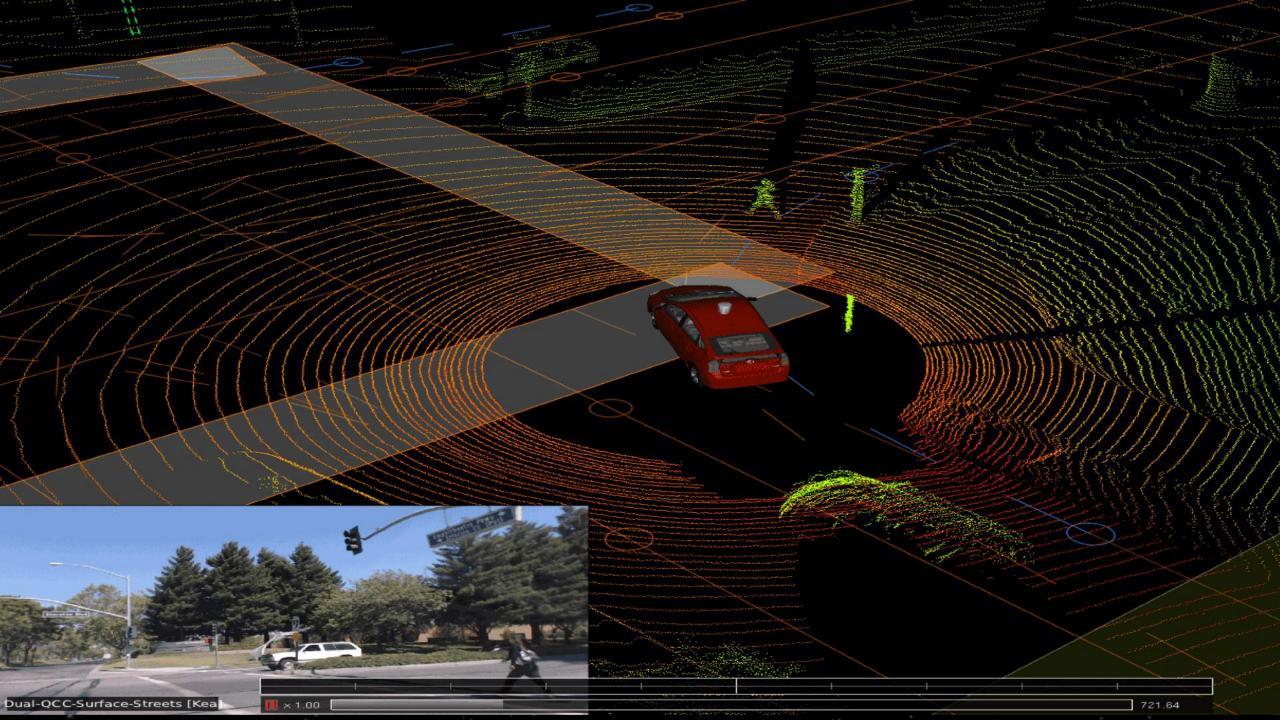




Potentially remove to save time

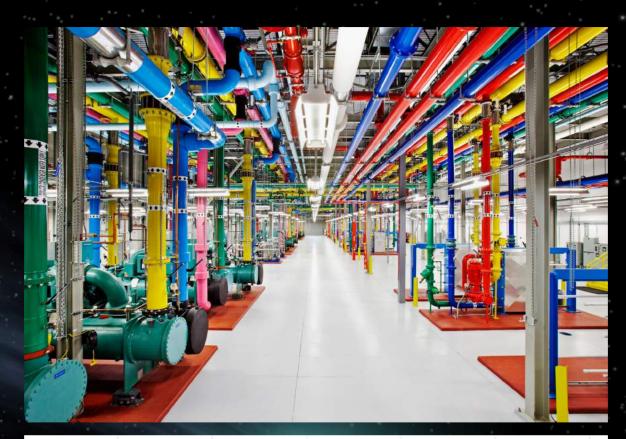
there is no one else in the world. there is no one else in sight. they were the only ones who mattered. they were the only ones left. he had to be with me. she had to be with him. i had to do this. i wanted to kill him. i started to cry. i turned to him.

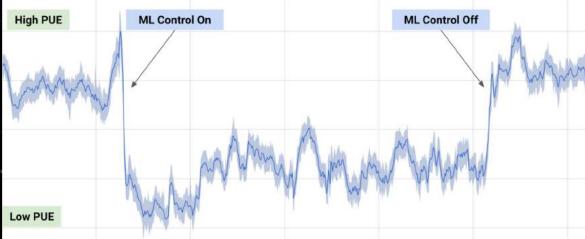
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Using machine learning, a 40% reduction in the amount of energy used for cooling was consistently achieved





Automated Retinal Disease Assessment

A. HEALTHY B. DISEASED Hemorrhages

ML now embedded in customer service



TensorFlow powered cucumber sorter





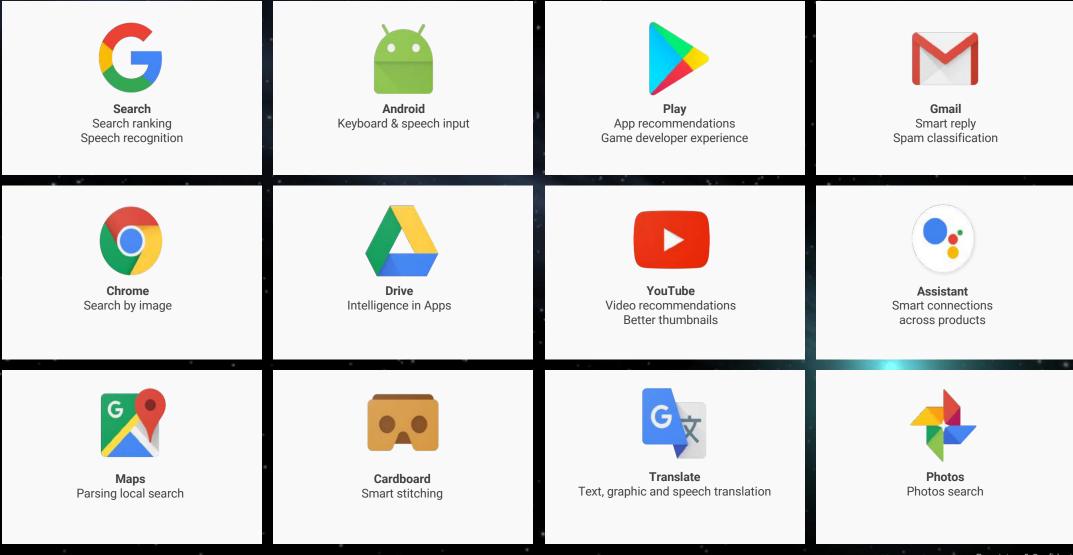
We will move from mobile first to an AI first world. We see huge opportunities to dramatically

improve.

Google CEO, Sundar Pichai

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Machine learning is already improving many of our products



Today

Artificial Intelligence

demonstrates early versions of what many of us do, all day, every day

Progress

Humar

Time

We speak, write, think, analyze, and react

Very soon

We are at the precipice of incredible change: the time to start applying Artificial Intelligence is now

rogress

B

Time

Prepare your mind

