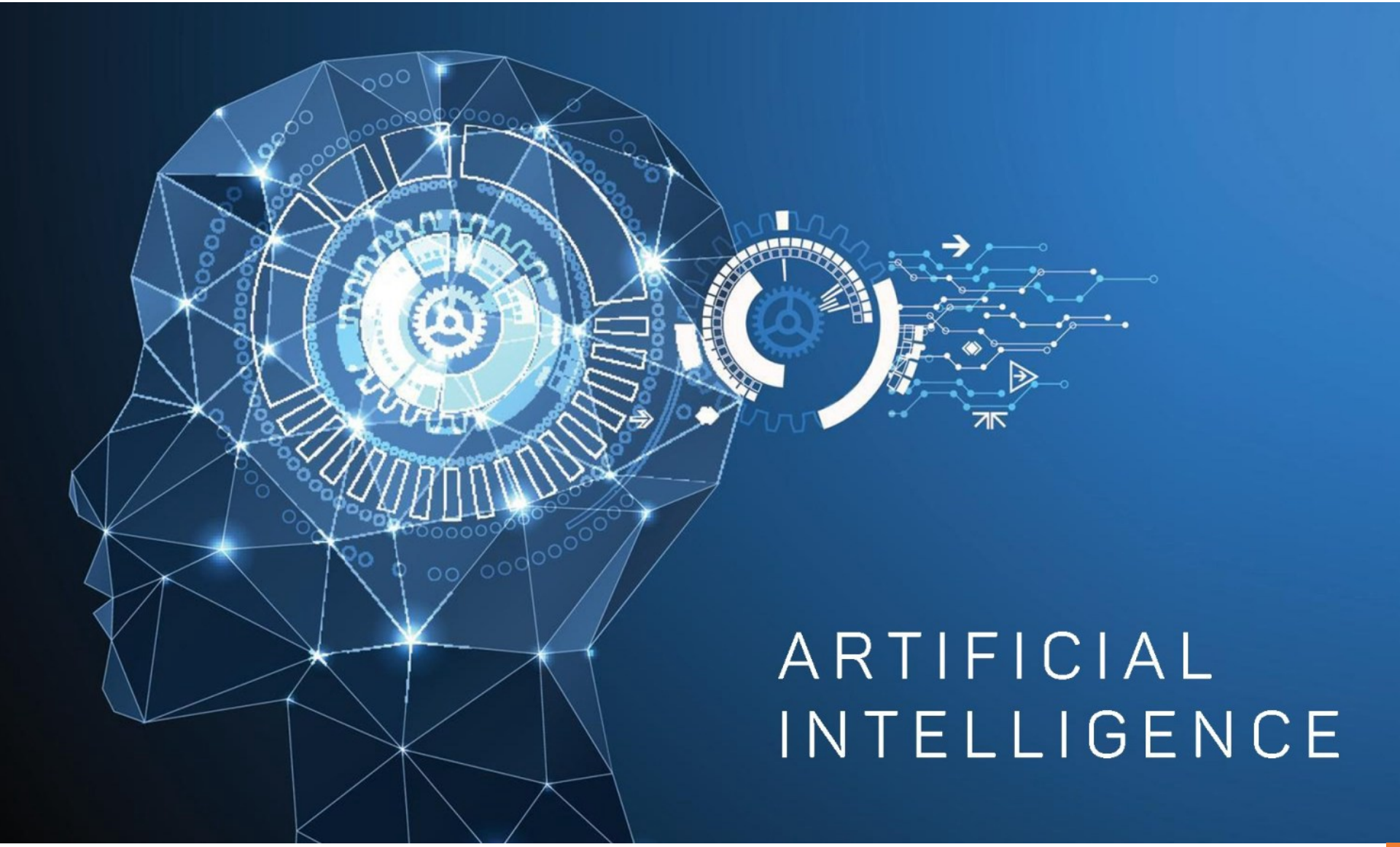
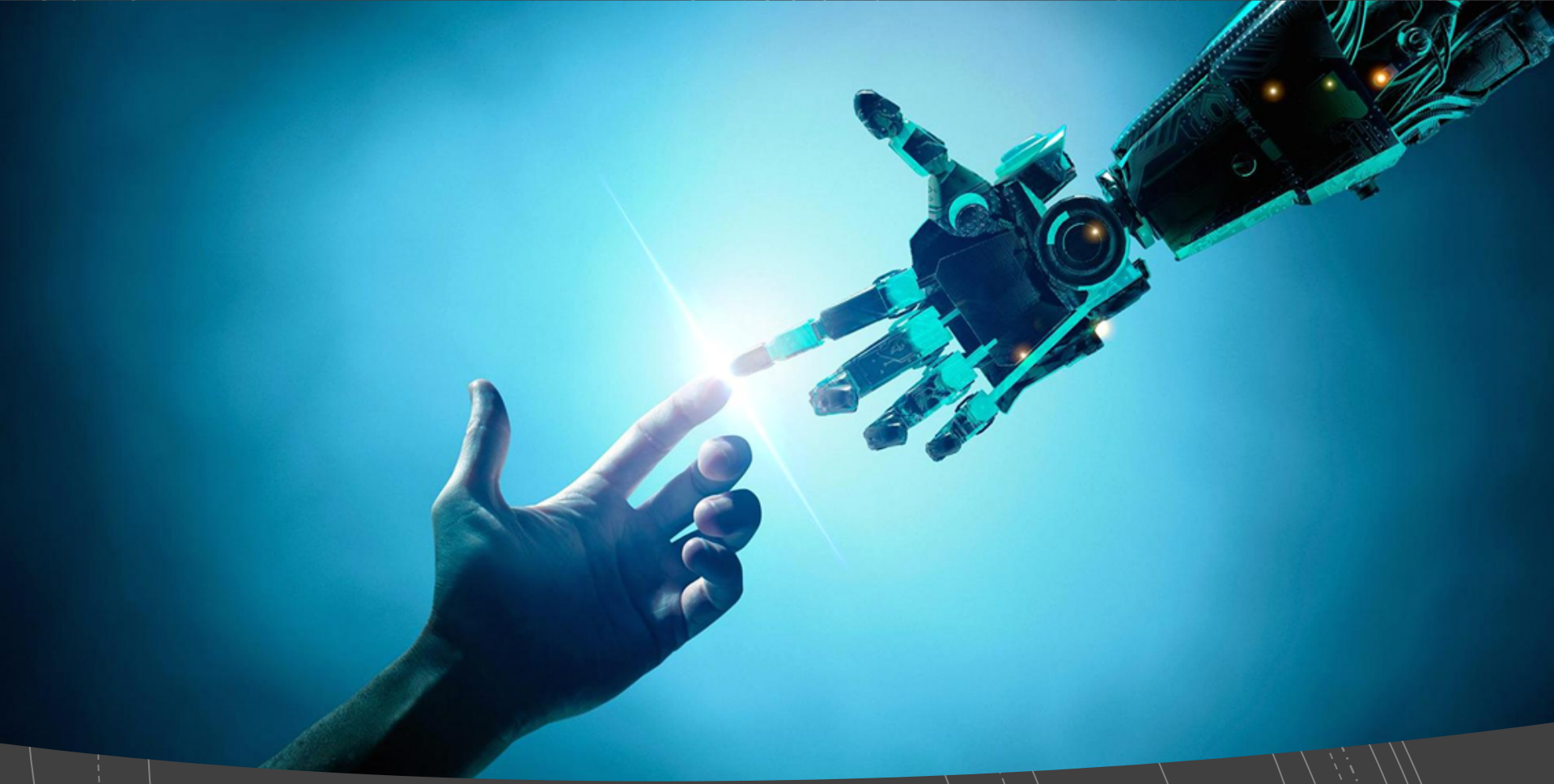

ARTIFICIAL
INTELLIGENCE

Dr. Helen Crompton

- Professor of Instructional Technology at Old Dominion University Virginia USA.
- Director of the Virtual Reality Lab
- Director of the Technology Enhanced Learning Lab (TELL)
- Consultant for the United Nations and ISTE



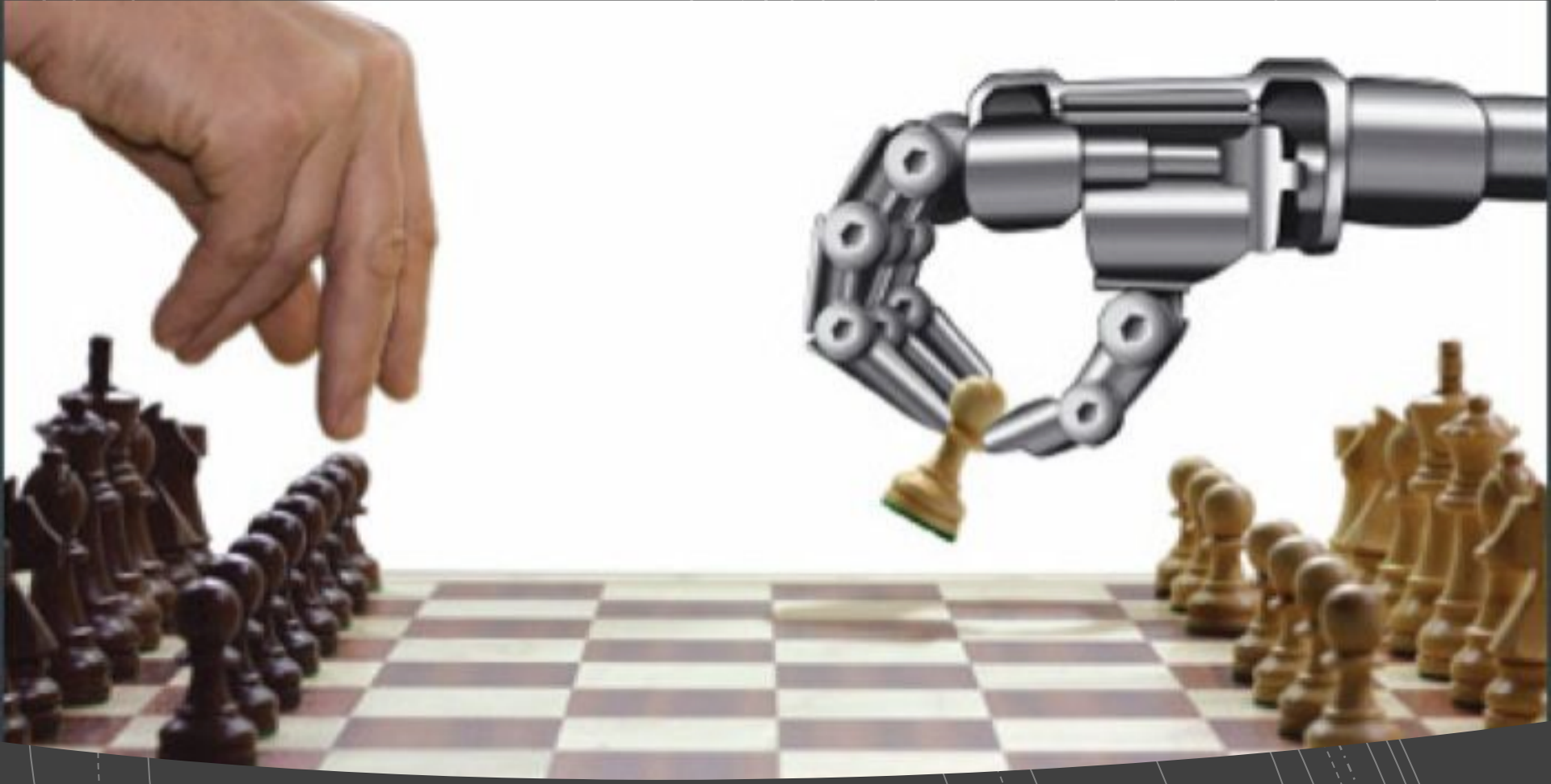
Artificial Intelligence

Artificial Intelligence are technologies that display intelligence as it perceives its environment and takes actions to achieve a goal

(Legg and Hutter, 2007)

Artificial Intelligence Capabilities

1. Learning
2. Reasoning
3. Perception
4. Problem Solving
5. Language intelligence



Exponentially better

In 2016, a computer beat the best Go player in the world, 10 years earlier than expected

AI of the Future

Autonomous vehicles

Health

- Health innovations: The Tricorder X is on the horizon.
- Companies are building a medical device (called the "Tricorder" from Star Trek) that works with your phone, which takes your retina scan, your blood sample, and you can breath into it.
- Image from http://gbmnews.com/wp/archives/254

AI Poop Analysis

AI Today

IBM Watson

- Assists with medical diagnoses
- Provides accurate legal advice
- Beats Jeopardy contestants

Facial Recognition

- Google photos
- Facebook
- Deep Fake

Telephone Systems

"Hello, how can I help you?"

AI and Your Learning

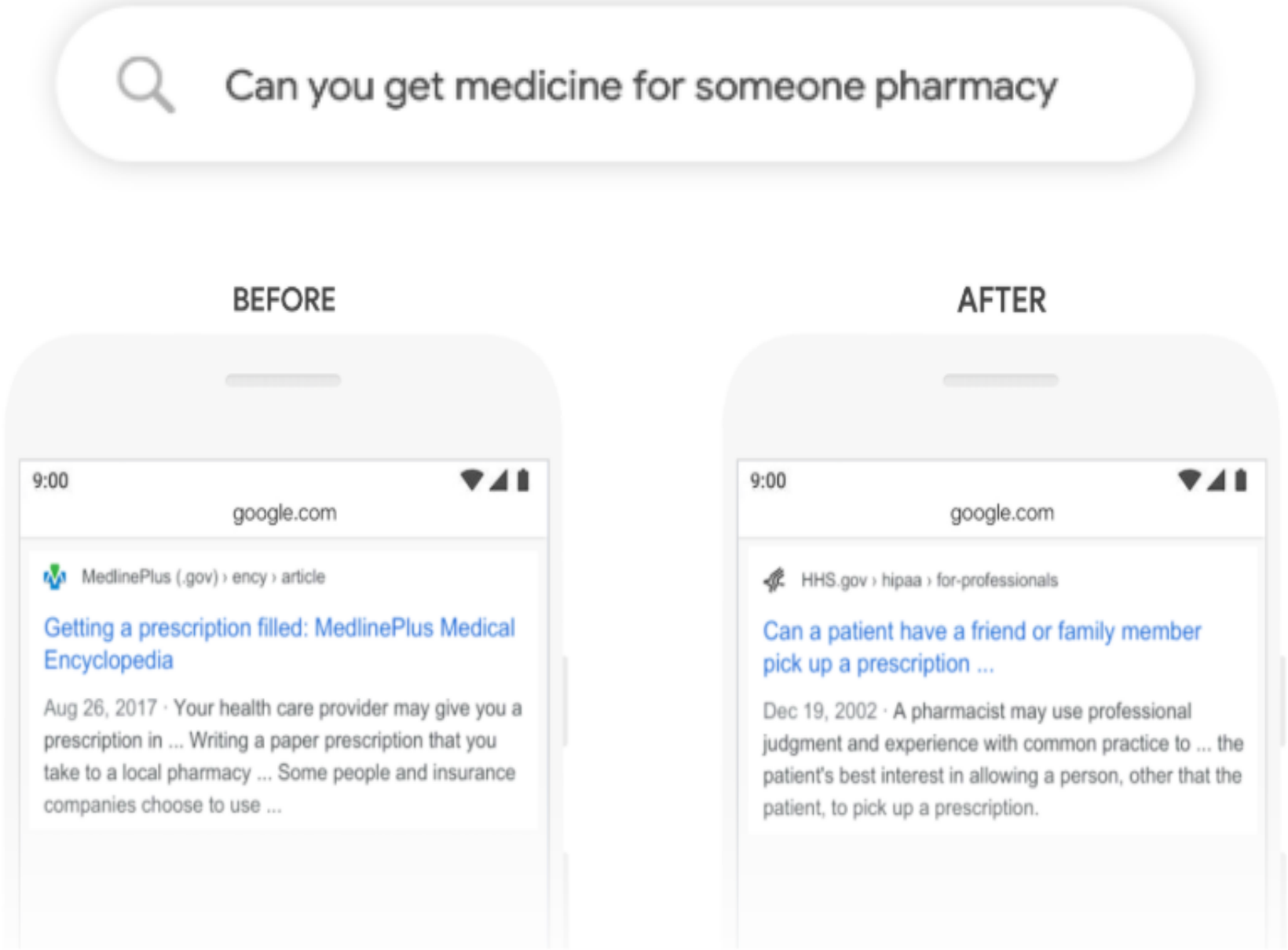
Google

- Search
- Translate

Google Search

RANK BRAIN

BERT


Can you get medicine for someone pharmacy
BEFORE
9:00
google.com
MedlinePlus (.gov) › ency › article
Getting a prescription filled: MedlinePlus Medical Encyclopedia
Aug 26, 2017 · Your health care provider may give you a prescription in ... Writing a paper prescription that you take to a local pharmacy ... Some people and insurance companies choose to use ...
AFTER
9:00
google.com
HHS.gov › hipaa › for-professionals
Can a patient have a friend or family member pick up a prescription ...
Dec 19, 2002 · A pharmacist may use professional judgment and experience with common practice to ... the patient's best interest in allowing a person, other that the patient, to pick up a prescription.

Original	Early Translations	Today's AI Translations
"Uno no es lo que es por lo que escribe, sino por lo que ha leído."	One is not what is for what he writes, but for what he has read."	"You are not what you write, but what you have read."

GOOGLE TRANSLATE

Explore more on how AI works

Teachable Machine

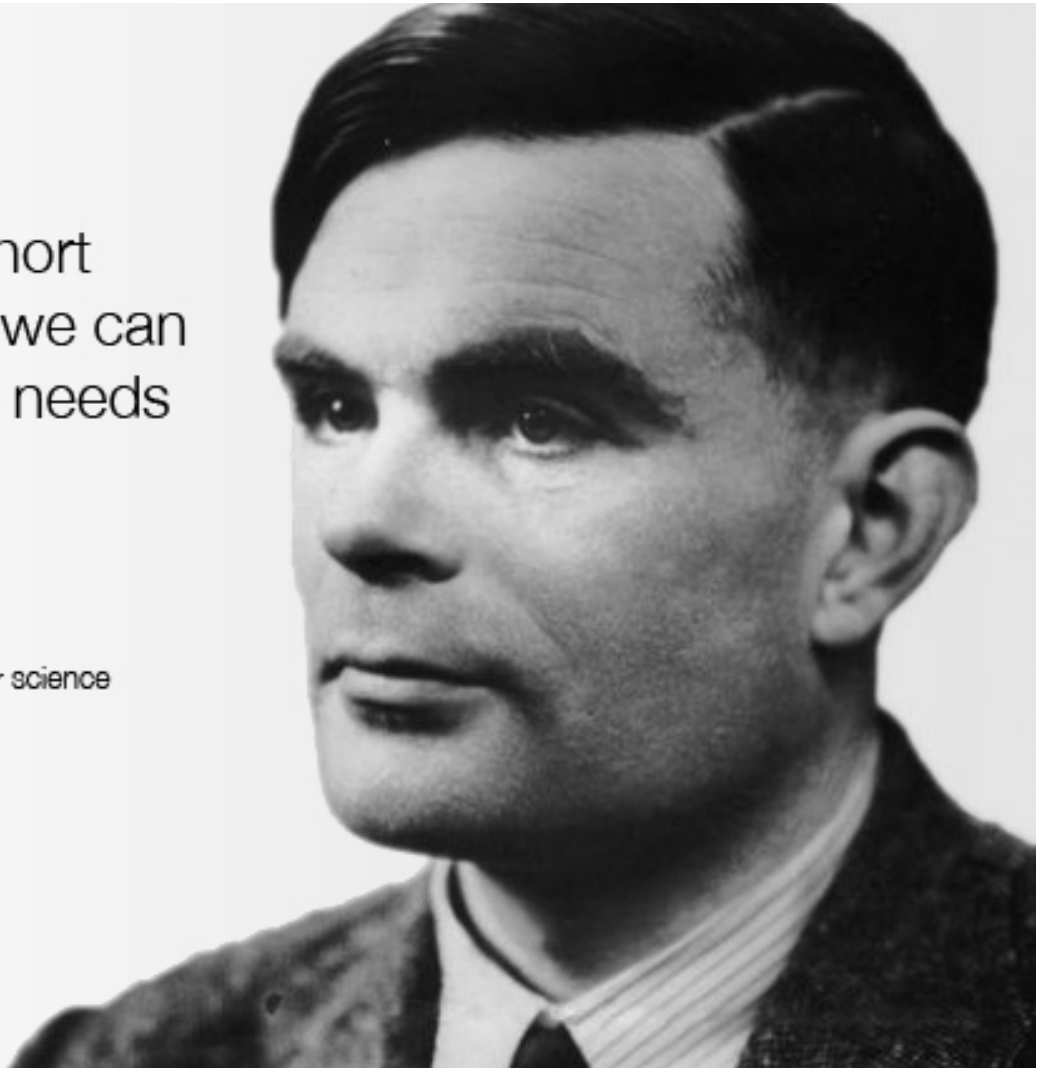
Mixlab

AI Duet

"We can only see a short distance ahead, but we can see plenty there that needs to be done."

~ Alan Turing

the father of modern computer science



Questions?

Links:

Video to explain how Search works with AI
https://www.youtube.com/watch?v=10lks_EqyLk&t=19s

Video to explain AI perception
https://www.youtube.com/watch?v=r1V1HV4tfcI

AI tools to try out:

Google Experiments for Learning
https://experiments.withgoogle.com/collection/experimentsforlearning

Teachable machine https://teachablemachine.withgoogle.com/

Mixlab https://mixlab.withgoogle.com/

AI Duet https://experiments.withgoogle.com/ai-duet

For more advanced work, look at:

KidsCodeJeunesse https://kidscodejeunesse.org/events

Scratch Programs https://scratch.mit.edu/search/projects?q=AI