Artificial Intelligence APIs

Workshop n°1(01)

—

Arlemi Turpault
Developer Advocate

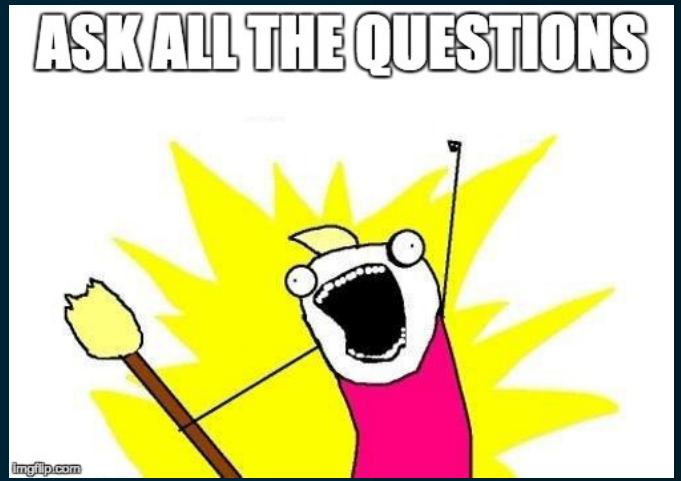
Sean Tracey
Developer Advocate

IBM Cloud


INDEX
SAN FRANCISCO

12th February	–	AI APIs 101
5th March	–	Chatbots
19th March	–	Natural Language Processing
9th April	–	Visual Recognition

Before we start...



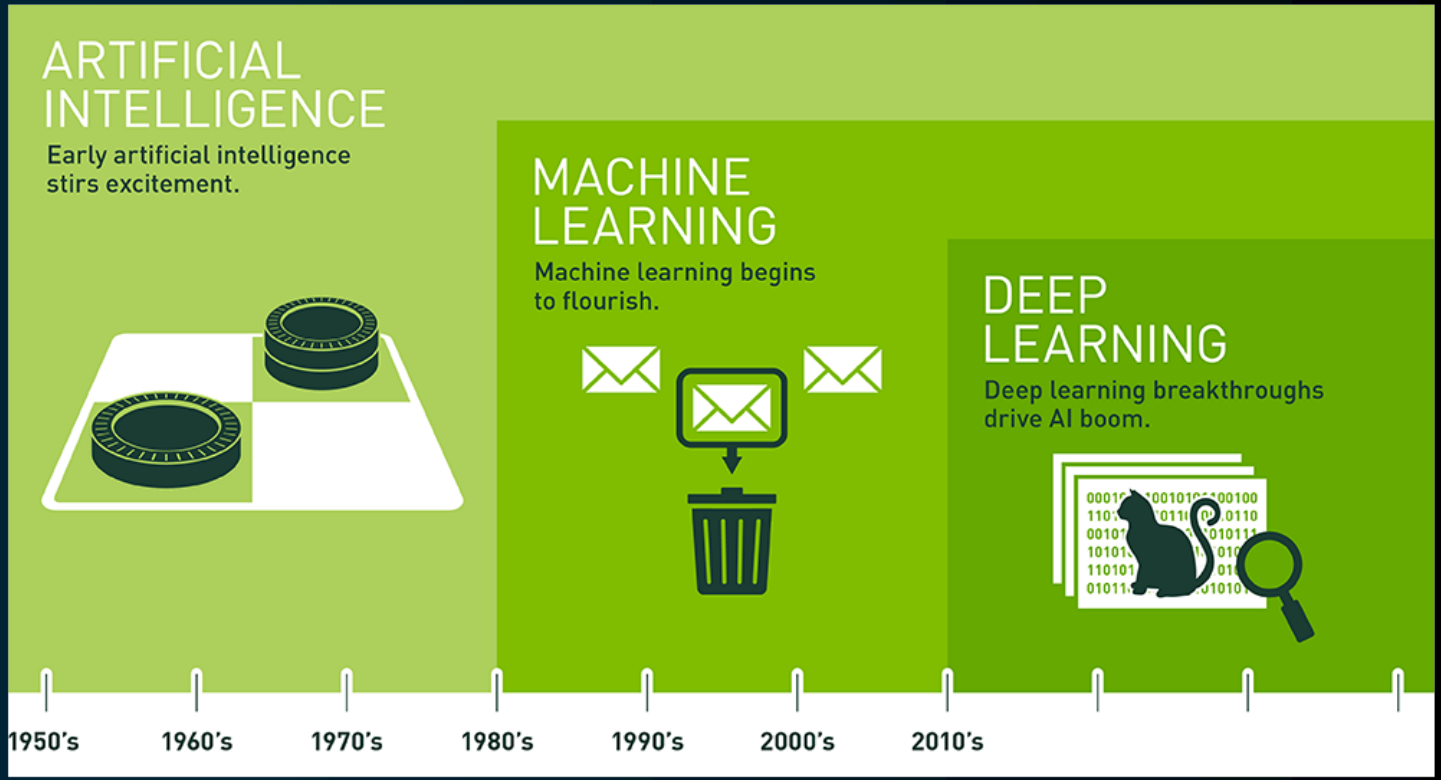
Source: imgflip.com

Source: imgflip.com

I. Why AI?

Source: giphy.com

Know the difference



Source: blogs.nvidia.com

Artificial Intelligence

“The science and engineering of making intelligent machines.”

- John McCarthy

Machine Learning

“A computer program is said to learn from experience E with respect to some class of tasks T and performance measure P if its performance at tasks in T, as measured by P, improves with experience E.”

- Tom Mitchell

Deep Learning

“A field of study that gives computers the ability to learn without being explicitly programmed.”

- Someone on the internet

There’s a reason why it’s called Big Data

102,000,000

wearables shipped in 2016, growing to 237,000,000 by 2021

100,000

new cancer articles published every year

80,000,000

MRIs taken every year, up from 3,000,000 in 1980

2,200,000,000

locations generating hyperlocal weather forecasts across the globe every 15 minutes

2,581,586

Emails every second

10,000

new software vulnerabilities recorded in 2016, up 30% since 2011

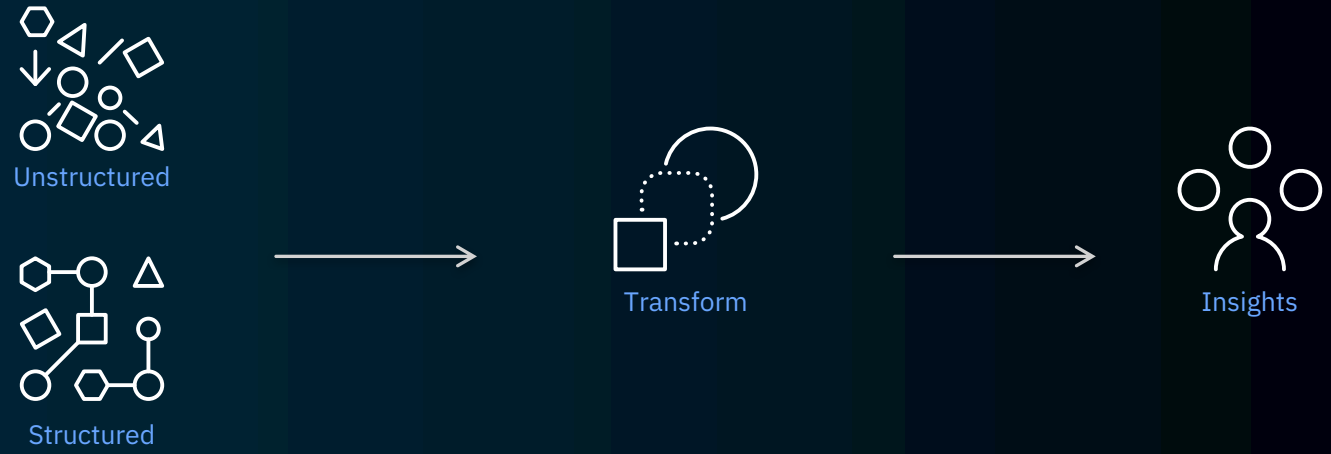
600,000,000

forms of malware - with close to 400k variations introduced daily

500

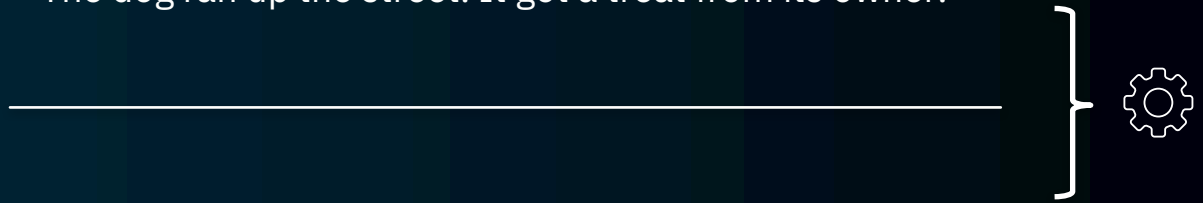
hours of video uploaded to YouTube every minute

The power of AI APIs



Example with Natural Language Understanding

The dog ran up the street. It got a treat from its owner.

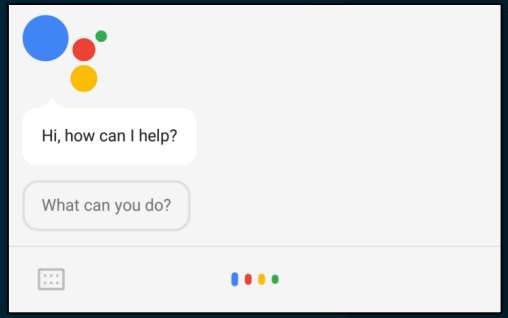


The dog ran up the street. It got a treat from its owner.

pet | movement | location | food | person

II. Where AI is used today

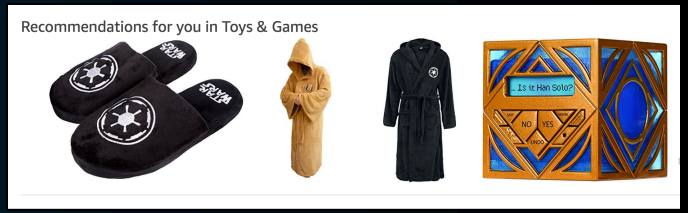
Source: imgflip.com



Source: androidpolice.com

Source: quora.com

Source: netflix.com



Source: amazon.co.uk

III. APIs & Platforms

Services

Vision

Visual Recognition

Speech

Text to Speech

Speech to Text

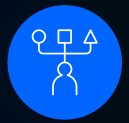
Language

Language Translator

Natural Language Understanding

Empathy

Tone Analyzer



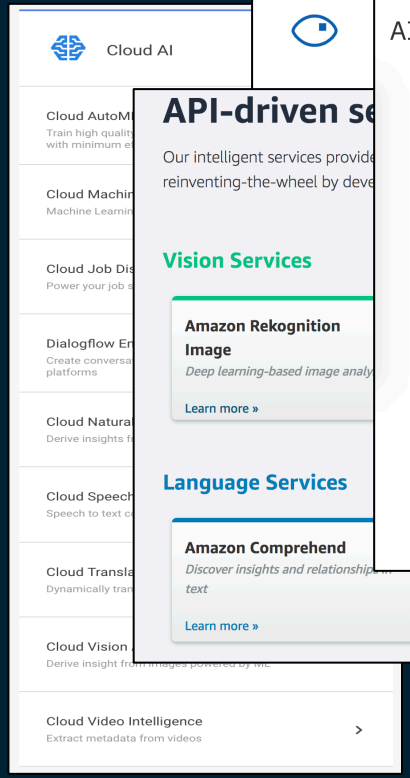
Personality Insights

Conversation

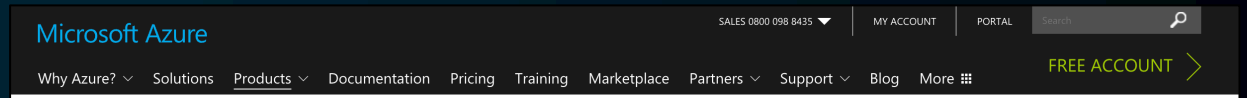
Conversation Service

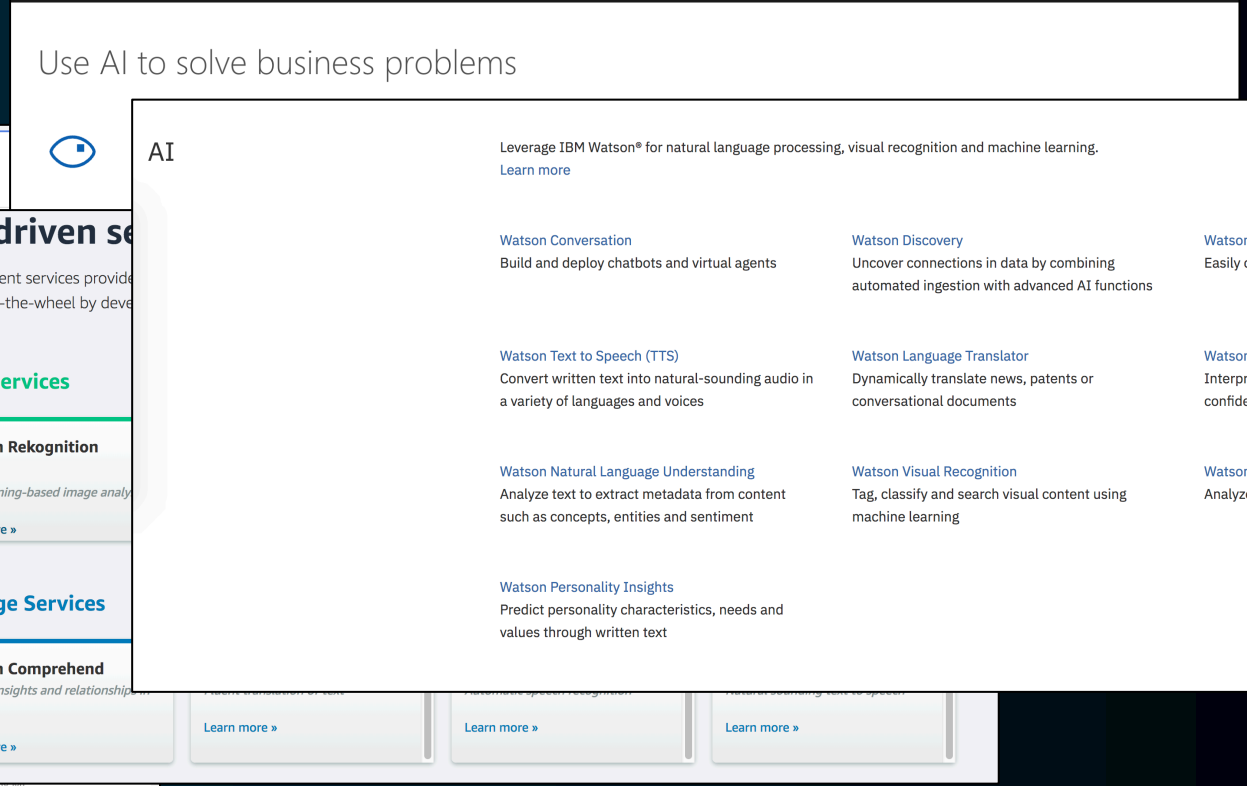
Platforms

Google



Microsoft





AWS

IBM

Calling an API

1. Create the service and retrieve the credentials
2. Call an endpoint with your data and credential as parameters
3. ...
4. Profit!

Source: giphy.com

Hands-on Workshop

ibm.biz/ai-api-session1

Questions?

Source: giphy.com

Thank you

Arlemi Turpault
Developer Advocate

Sean Tracey
Developer Advocate

—

Useful links:
[IBM Code](#)
[London Meetup](#)
[CognitiveClass.ai](#)
[Register to IBM Cloud](#)

http://ibm.biz/slack-code-ldn
arlemi.t@ibm.com
@arlemi