Artificial Intelligence APIs

Workshop n°2 – Visual Recognition

—

Arlemi Turpault

Sean Tracey

Mofe Salami

IBM Cloud

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

Before we start...

Source : giphy.com

Source: imgflip.com

I. Computer Vision in a nutshell

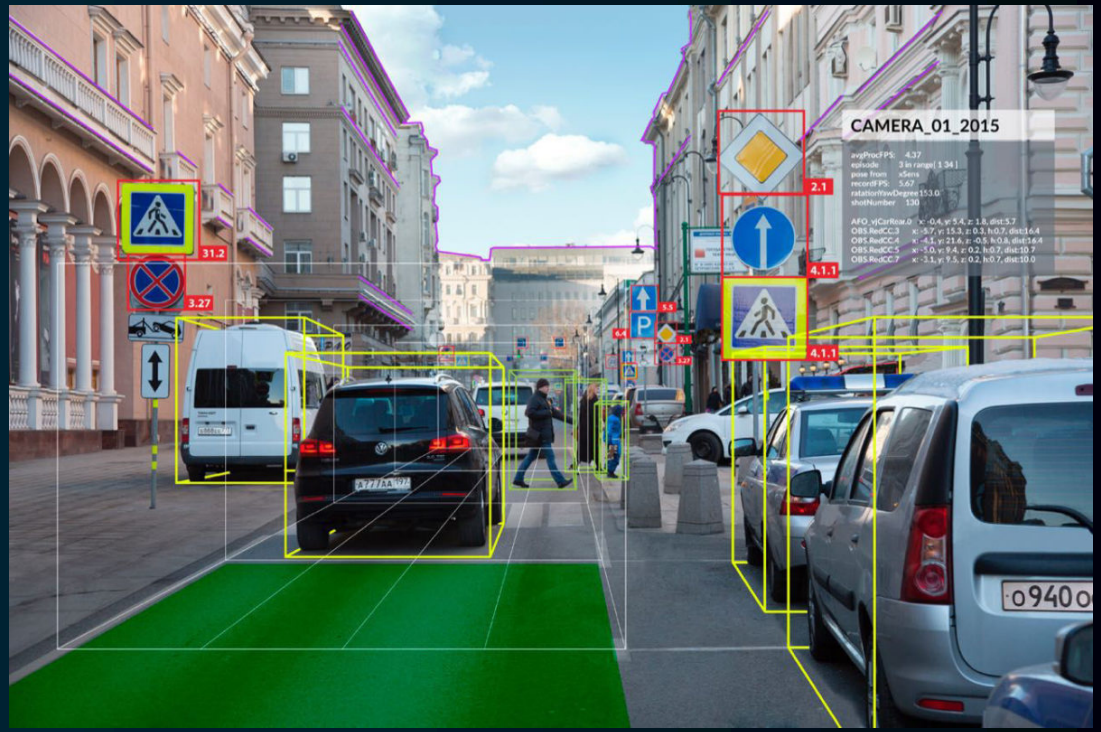
Computer Vision

"Computer vision is an interdisciplinary field that deals with how computers can be made for gaining **high-level understanding from digital images or videos**. From the perspective of engineering, it seeks to **automate tasks** that the human visual system can do."

Computer Vision

1. See
2. Describe
3. Understand

Example



Source: Welkermedia

II. Visual Recognition

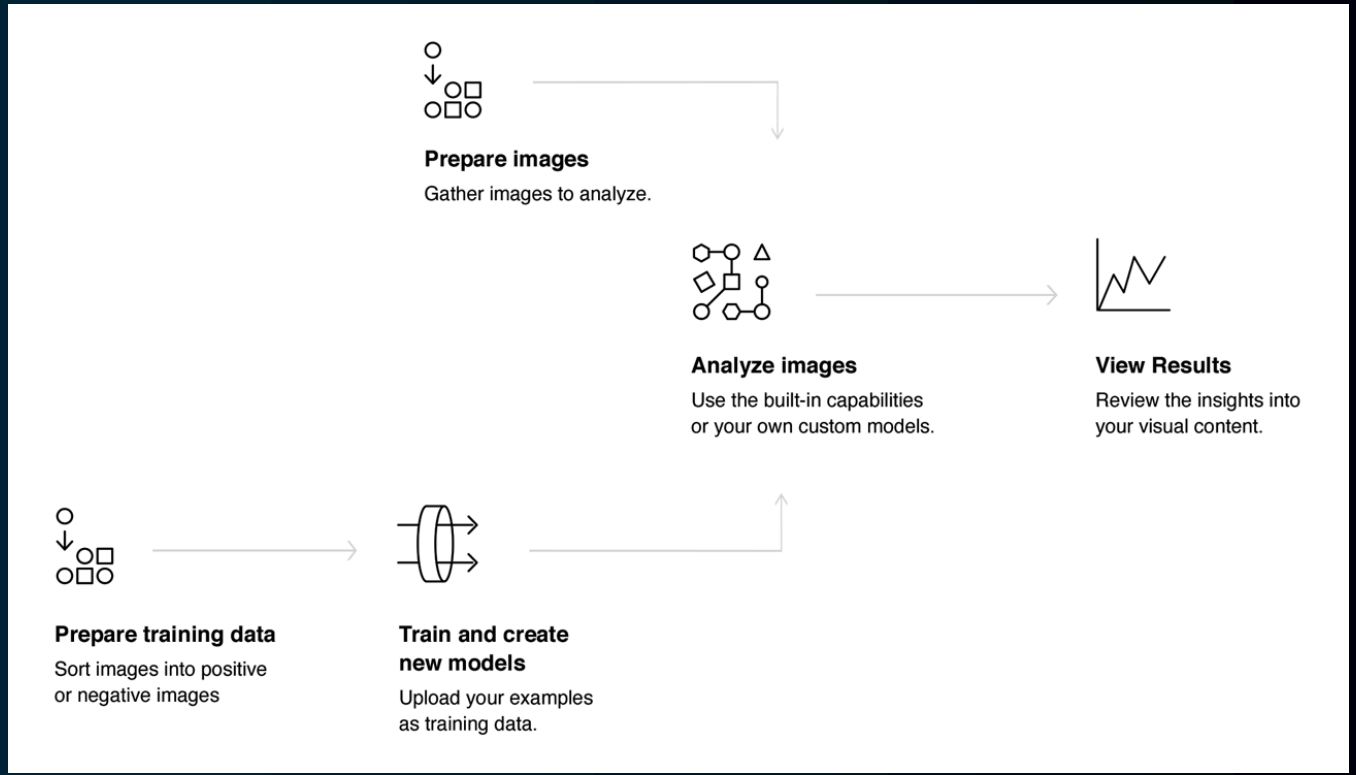
Different options

- Use a pre-trained model
- Create your personally-trained model
- Use or create the Deep Learning algorithms of your choice for object detection

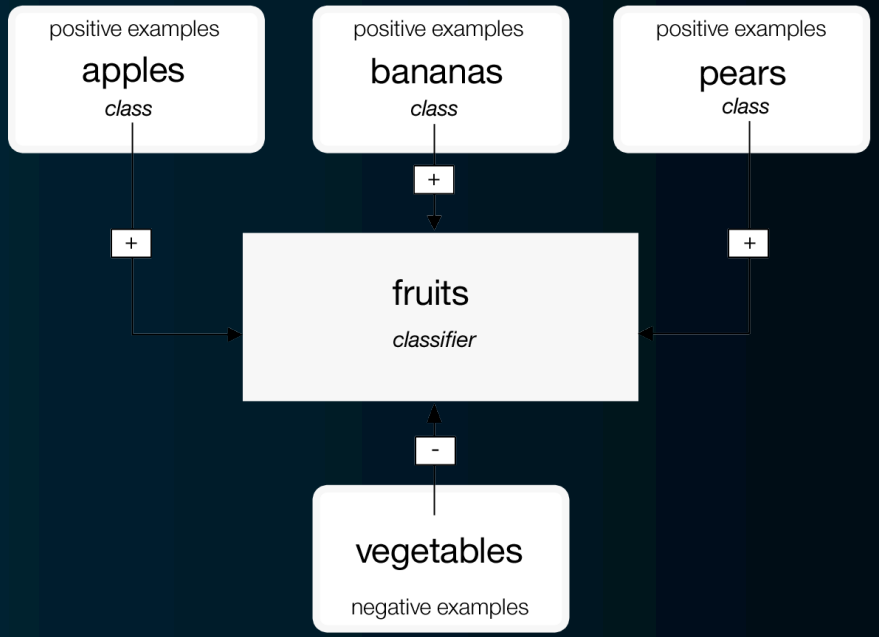
Providers

- Clarifai
- IBM Watson Visual Recognition
- AWS Amazon Rekognition
- Google Cloud Vision API
- Microsoft Computer Vision API
- ...

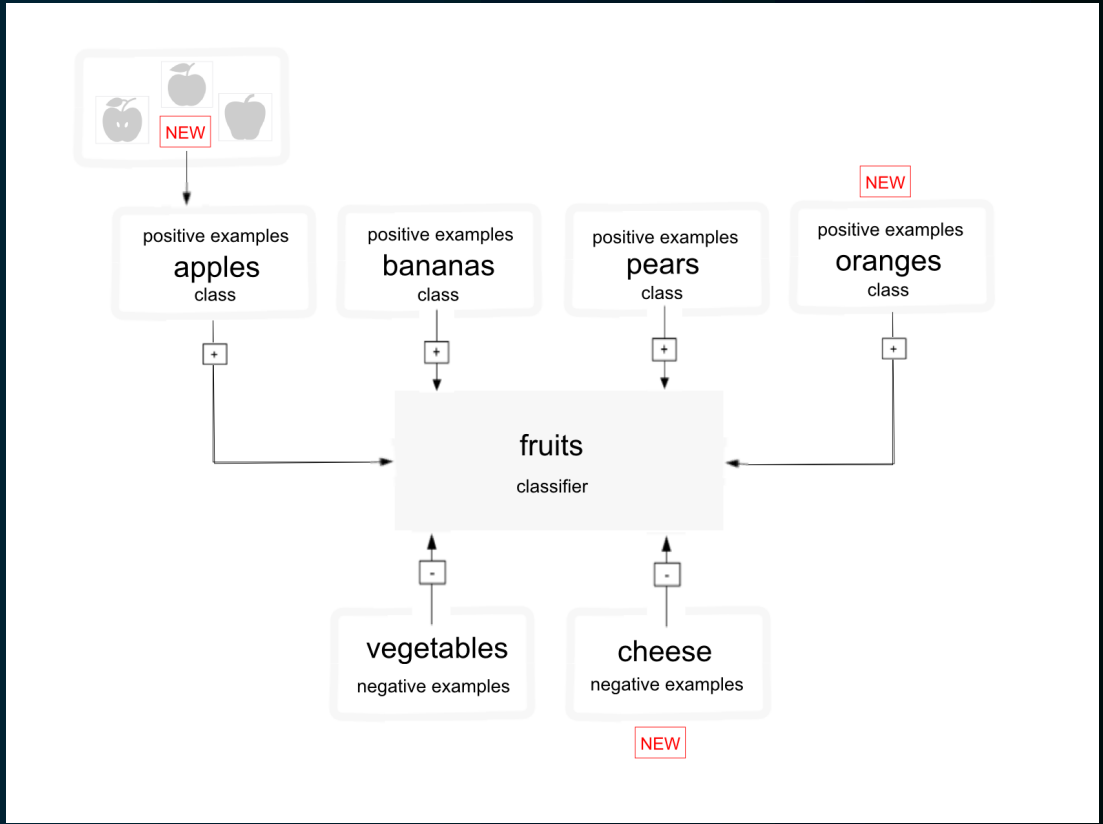
Use pre-trained models



Create your own model



Update your own model



Choose your deep-learning algorithm

Frameworks:

- TensorFlow
- Caffe
- Keras
- PyTorch...

Asset exchanges:

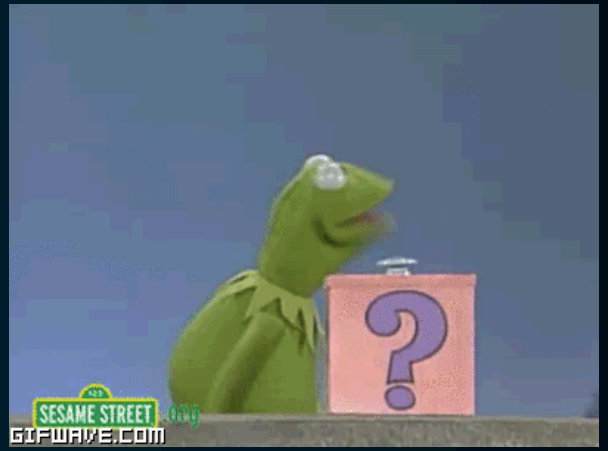
- Model Asset Exchange (MAX) - https://developer.ibm.com/code/exchanges/models/
- TensorFlow Hub - https://www.tensorflow.org/hub/

Demo

Hands-on Workshop

https://ibm.biz/ai-api-workshops

Questions?



Source: giphy.com

A link to remember

ibm.biz/code-london

Thank you

Useful links:
IBM Code
London Meetup
CognitiveClass.ai
Register to IBM Cloud

Arlemi Turpault
arlemi.t@ibm.com
@arlemi

Sean Tracey
sean.tracey@ibm.com
@seanmtracey

Mofe Salami
tsalami@uk.ibm.com

—

http://ibm.biz/slack-code-ldn