

# PODSTAWY PROGRAMOWANIA W PYTHON

Dzień 14



# AGENDA

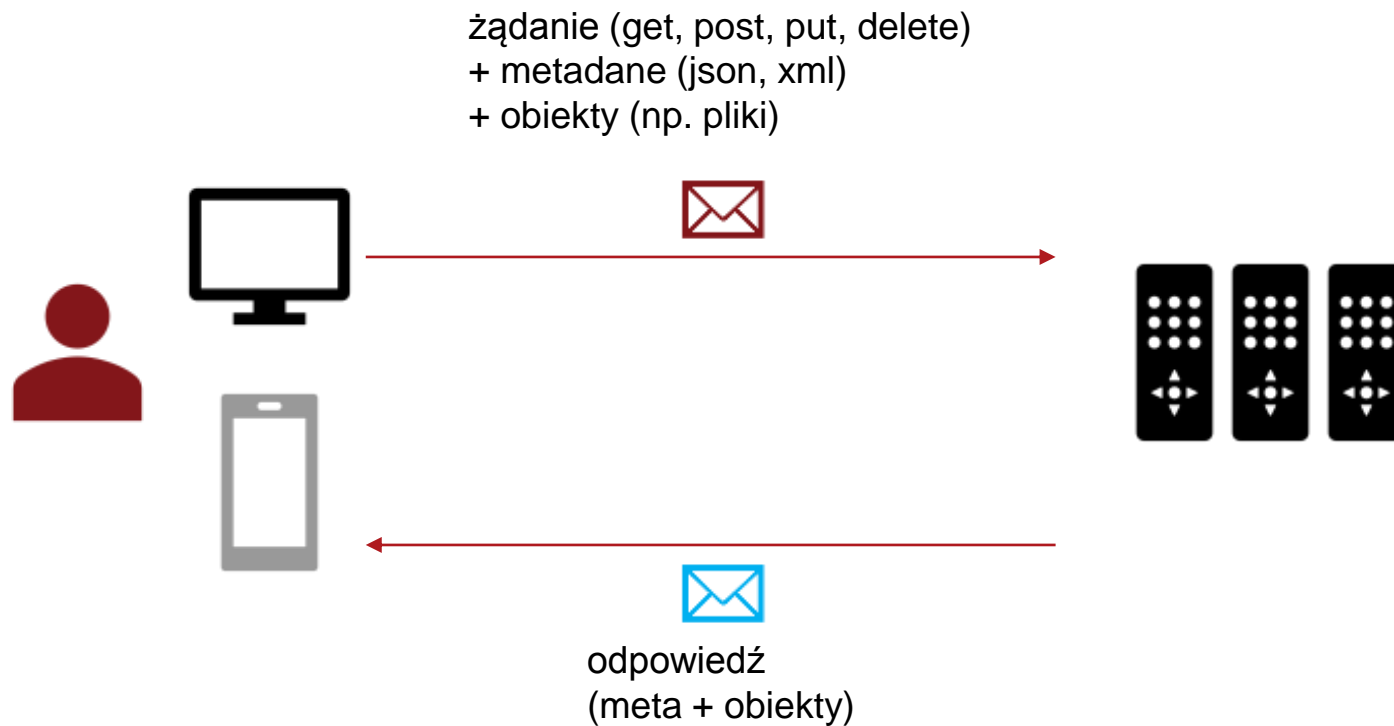
## DAY 14

- egzamin
- json
- API
- Microsoft Cognitive Services API

# API

Application Program Interface

# API



# JSON

## JavaScript Object Notation

```
{  
  "name": "people_",  
  "score": 0.83984375,  
  "detail": {  
    "celebrities": [  
      {  
        "name": "Satya Nadella",  
        "faceRectangle": {  
          "left": 597,  
          "top": 162,  
          "width": 248,  
          "height": 248  
        },  
        "confidence": 0.999028444  
      }  
    ]  
  }  
}
```

# Konsumowanie API

```
import requests  
import json
```

```
requests.get()  
requests.post()  
requests.put()  
requests.delete()
```

**verbs**

```
json.loads()    json.load()  
json.dumps()    json.dump()
```

# Microsoft Cognitive Services API

Przetwarzanie obrazów.

# MSCS

<https://azure.microsoft.com/en-us/services/cognitive-services/>

## Use AI to solve business problems



### Vision

Image-processing algorithms to smartly identify, caption and moderate your pictures.



### Knowledge

Map complex information and data in order to solve tasks such as intelligent recommendations and semantic search.



### Language

Allow your apps to process natural language with pre-built scripts, evaluate sentiment and learn how to recognize what users want.



### Speech

Convert spoken audio into text, use voice for verification, or add speaker recognition to your app.



### Search

Add Bing Search APIs to your apps and harness the ability to comb billions of webpages, images, videos, and news with a single API call.



# Computer Vision API

<https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/>

- Analizowanie obrazów:
  - odnajdywanie twarzy
  - emocje
  - celebryci
  - opis zdjęcia
  - tagi
  - kategorie
  - rasizm
  - adult content
  - odczytywanie tekstów - OCR

# CV API

Dokumentacja:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/home>

Quick start Python:

<https://docs.microsoft.com/en-us/azure/cognitive-services/computer-vision/quickstarts/python>

Dokumentacja API:

<https://westus.dev.cognitive.microsoft.com/docs/services/56f91f2d778daf23d8ec6739/operations/56f91f2e778daf14a499e1fa>

# API settings

Analyze image API adres:

<https://westeurope.api.cognitive.microsoft.com/vision/v1.0/analyze>

OCR API adres:

<https://westeurope.api.cognitive.microsoft.com/vision/v1.0/ocr>





# Thanks!!

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