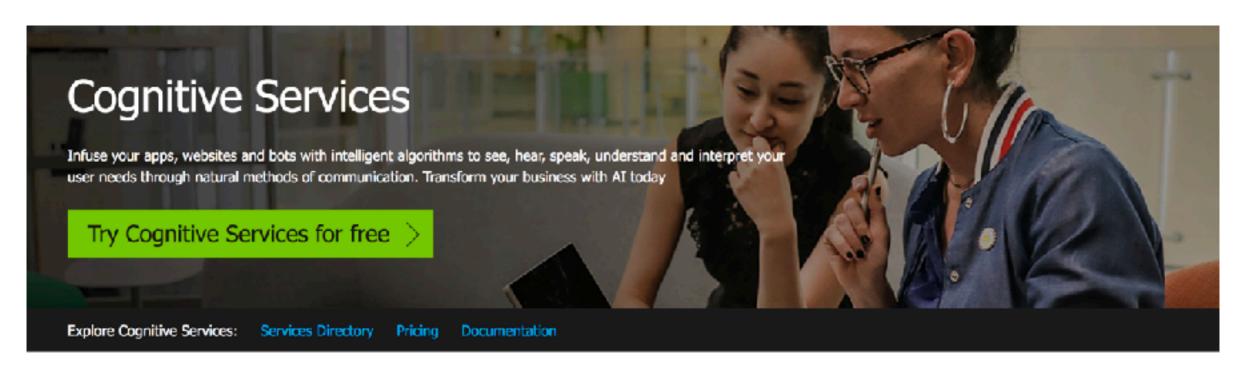
Azure Cognitive Services









Use AI to solve business problems



Vision

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



Speech

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



Knowledge

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



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.



Language

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



Microsoft Cognitive Services





Vision



Computer Vision API

Distillacconable information from images



Face API

Detect, identify, analyze, organize, and tagifaces in photos



Emotion API

Personalize experiences with emotion recognition



Video API

Analyze, edit, and process videas within your app



Language



Bing Spell Check API

Detect and correct spelling mistakes within your app



Web Language Model API

Leverage the power of anguage models trained on web-scale data



Linguistic Analysis API

Easily parse complex text with language analysis.



Language Understanding Text Analytics Intelligent Service

Teach your apps to understand. commands from WOULDSPIS



Detect sentiment, key chrases, topics, and language from your text





Bing Speech API

Convert speech to tax; and back again, and understand its intent



Speaker Recognition API

Give your acc the ability to know whos talking



Custom Recognition Intelligent Service

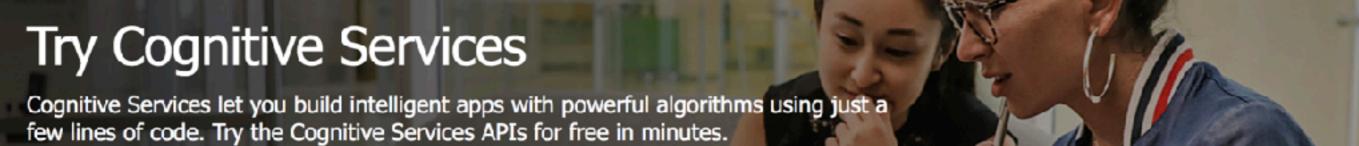
Fine-tune speech recognition for anyone. anywhere



Face API



Get API Key



For long-term use or an increased quota sign-up for a free Azure account. >

 Vision
 Speech
 Language
 Knowledge
 Search

 Computer Vision API
 Distill actionable information from images 5,000 transactions, 20 per minute.
 Get API Key >

 Emotion API PREVIEW
 Personalize user experiences with emotion recognition 30,000 transactions, 20 per minute.
 Get API Key >

https://azure.microsoft.com/en-us/try/cognitive-services/?api=face-api

30,000 transactions, 20 per minute.

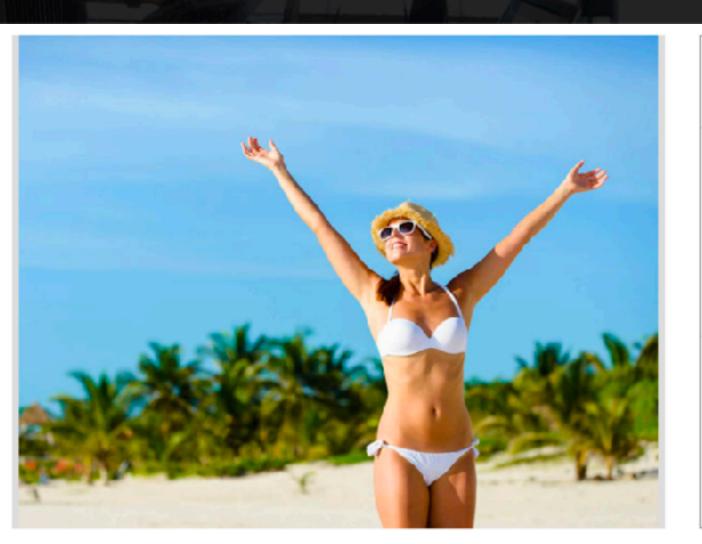
Detect, identify, analyze, organize, and tag faces in photos





Computer Vision API

Extract rich information from images to categorize and process visual data – and machine-assisted moderation of images to help curate your services.



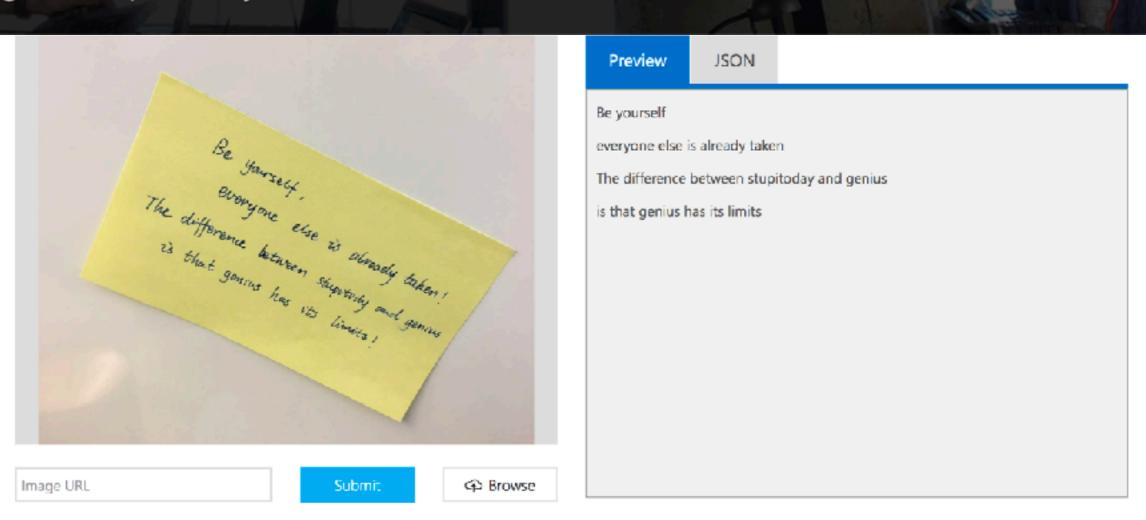
| FEATURE NAME: | VALUE |
|------------------|--|
| Description | { "tags": ["outdoor", "woman", "clothing", "beach", "person", "surfing", "water", "beautiful", "standing", "board", "lady", "holding", "suit", "white", "female", "young", "posing", "carrying", "girl", "top", "black", "wearing", "walking", "sand", "frisbee", "playing", "court", "wave", "blue"], "captions": [{ "text": "a woman standing on a beach posing for the camera", "confidence": 0.956892669 }] } |
| Tags | [{ "name": "sky", "confidence": 0.9999175 }, { "name": "outdoor", "confidence": 0.9947078 }, { "name": "woman", "confidence": 0.9892105 }, { "name": "clothing", "confidence": 0.9290029 }, { "name": "beach", "confidence": 0.925322056 }, { "name": "person", "confidence": 0.9188145 }, { "name": "beautiful", "confidence": 0.655149341 }, { "name": "swimsuit", "confidence": 0.647359967 }, { "name": "female", "confidence": 0.301760763 }] |





Computer Vision API

Extract rich information from images to categorize and process visual data – and machine-assisted moderation of images to help curate your services.

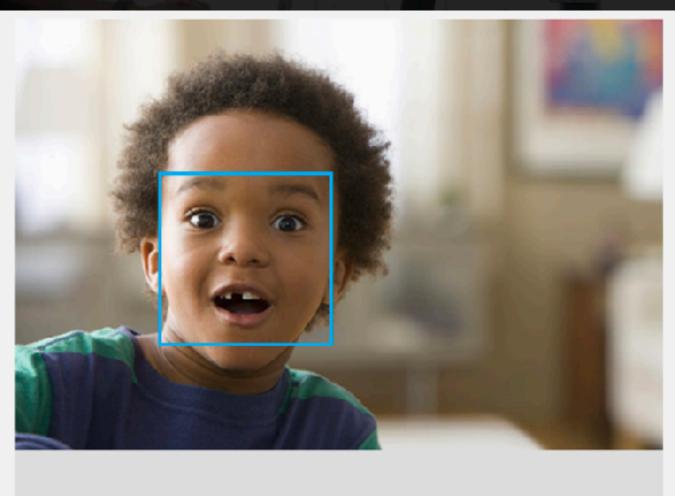


https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/





Emotion API PREVIEW Analyze faces to detect a range of feelings and personalize your app's responses.

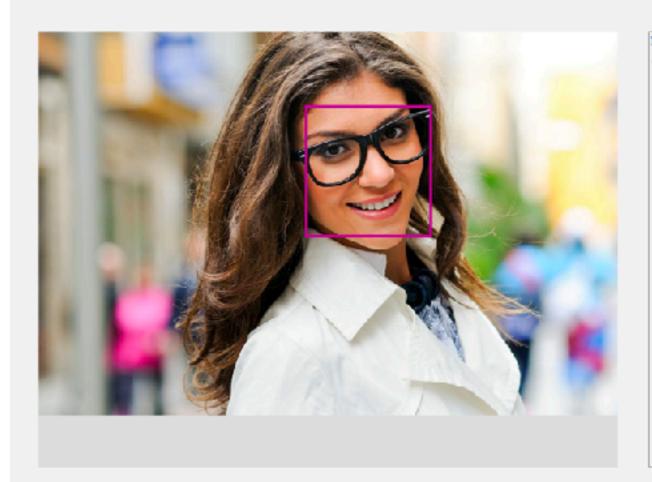


```
Detection result:
1 faces detected
 JSON:
    "faceRectangle": {
      "top": 141,
      "left": 130,
      "width": 162,
      "height": 162
    "scores": {
      "anger": 9.29041E-06,
      "contempt": 0.000118981574,
      "disgust": 3.15619363E-05,
      "fear": 0.000589638,
      "happiness": 0.06630574,
      "neutral": 0.00555004273,
      "sadness": 7.44669524E-06,
      "surprise": 0.9273863
```





Face API Detect human faces and compare similar ones Organize images into groups based on similarity



Identify previously tagged people in images

```
Detection result:
JSON:
    "faceId": "9a6d3b06-8404-4ebf-b715-71c8c285b4c8",
    "faceRectangle": {
     "top": 128,
     "left": 459,
      "width": 224,
      "height": 224
    "faceAttributes": [
      "hair": {
       "bald": 0.0,
        "invisible": false,
        "hairColor"
            "color": "brown",
            "confidence": 1.0
            "color": "blond",
            "confidence": 0.69
```

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





Face API Documentation

The cloud-based Face API provides developers with access to advanced face algorithms. Microsoft Face algorithms enable face attribute detection and face recognition. Learn how to analyze content in different ways with our quickstarts, tutorials, and samples.

5-Minute Quickstarts

Detect and identify faces using:



curl://

cURL

\$



JavaScript



PHP

P



Python



Ruby

Step-by-Step Tutorials

Develop applications using the Face API:

- 1. C# Tutorial
- 2. Java for Android Tutorial
- 3. Python Tutorial

https://docs.microsoft.com/en-us/azure/cognitive-services/face/



Cognitive Services

33 34

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def main():

faceDetector = FaceAPI()

print(response.content)

response = faceDetector.face_detect(body)

Microsoft



```
import requests, urllib
   class FaceAPI :
                                         Example Code
5
       def __init__(self):
6
           self.headers_json = {
8
              # Request headers
9
              'Content-Type': "application/json",
              'cache-control': "no-cache",
10
              # NOTE: Replace the "Ocp-Apim-Subscription-Key" value with a valid subscription key.
11
              12
13
           }
14
           self.ParamsDetect = urllib.urlencode({
15
              # Request parameters
16
17
               'returnFaceId': 'true',
              'returnFaceLandmarks': 'false',
18
              'returnFaceAttributes': 'age,gender',
19
20
           3)
21
22
       def face_detect(self, img_data):
23
           headers = self.headers_json
           params = self.ParamsDetect
24
25
           try:
26
              url = 'https://southeastasia.api.cognitive.microsoft.com/face/v1.0/detect?%s' % params
27
28
              response - requests.post(url, headers-headers, data-img_data)
29
              return response
30
31
           except Exception as e:
32
              print("[Errno {0}] {1}".format(e.errno, e.strerror))
```

body = '{"url":"https://s.isanook.com/ca/0/ud/277/1386521/21371968_1694227690601056_830.jpg"}'