

Microsoft Cognitive Services

Give your apps a human side

Cognitive Services API Collection



Computer Vision | Emotion | Face | Video

Speech

Computer Recognition | Speaker Recognition Speech

Language

Bing Spell Check | Language Understanding Linguistic Analysis | Text Analytics | Web Language Model

Knowledge

Academic Knowledge | Entity Linking | Knowledge Exploration | Recommendations

Search

Bing Autosuggest | Bing Image Search | Bing News Search | Bing Video Search | Bing Web Search



Roll your own with REST APIs

Simple to add: just a few lines of code required



TIEXIDIE

Integrate into the language and platform of your choice

Breadth of offerings helps you find the right API for your app



Built by experts in their field from Microsoft Research, Bing, and Azure

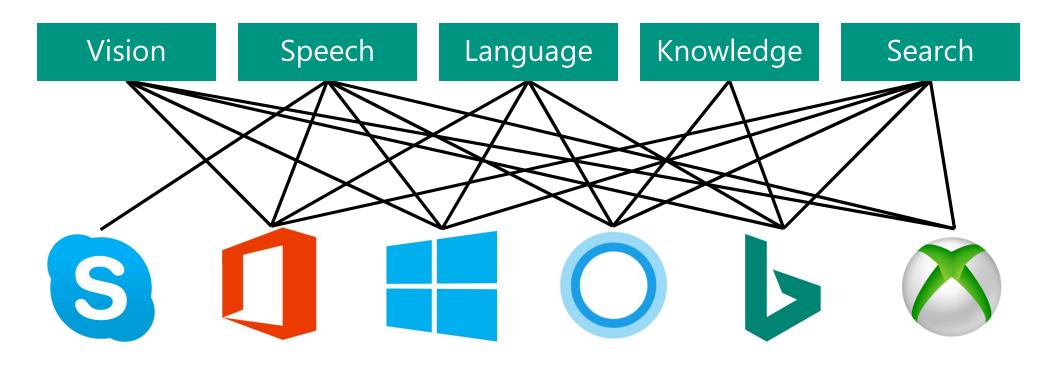
Machine Learning

Quality documentation, sample

code, and community support



Powering products across Microsoft





Vision



Computer Vision API

Distill actionable information from images



Face API

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



Emotion API

Personalize experiences with emotion recognition



Video API

Analyze, edit, and process videos within your app

Computer Vision API



Feature Name	Value	
Description	{ "type": 0, "captions": [{ "text": "a man swimming in a pool	
	of water", "confidence": 0.7850108693093019 }] }	
Tags	[{ "name": "water", "confidence": 0.9996442794799805 }, {	
	"name":	
	"name": "swimming", "confidence": 0.9062818288803101,	
	"hint": "sport" }, { "name": "pool", "confidence": 0.8787588477134705 }, { "name": "water sport", "confidence":	
	0.631849467754364, "hint": "sport" }]	
lmage Format	jpeg	
Image Dimensions	1500 x 1155	
Clip Art Type	0 Non-clipart	
Line Drawing Type	0 Non-LineDrawing	
Black & White Image	False	

 $\underline{https://www.microsoft.com/cognitive-services/en-us/computer-vision-api}$

Computer Vision API



ls Adult Content	False
Adult Score	0.14916780591011047
ls Racy Content	False
Racy Score	0.12426207214593887
Categories	[{ "name": "people_swimming", "score": 0.98046875 }]
Faces	[{ "age": 28, "gender": "Male", "faceRectangle": { "left": 744, "top": 338, "width": 305, "height": 305 } }]
Dominant Color Background	
Dominant Color Foreground	
Dominant Colors	
Accent Color	#19A4B2

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

Computer Vision – celebrity detection

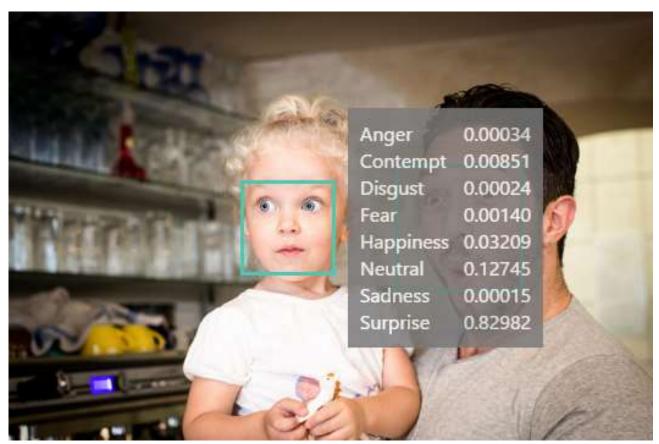


I think it's Satya Nadella, Bill Gates, Steve Ballmer standing next to a building and they seem @@@.



https://www.captionbot.ai

Emotion API



https://www.microsoft.com/cognitive-services/en-us/emotion-api

Face API









Bing Speech API

Convert speech to text and back again, and understand its intent



Speaker Recognition API

Give your app the ability to know who's talking



Custom Recognition Intelligent Service

Fine-tune speech recognition for anyone, anywhere

Language



Bing Spell Check API

Detect and correct spelling mistakes within your app



Web Language Model API

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



Linguistic Analysis API

Easily parse complex text with language analysis



Language Understanding Intelligent Service

Teach your apps to understand commands from your users



Text Analytics API

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



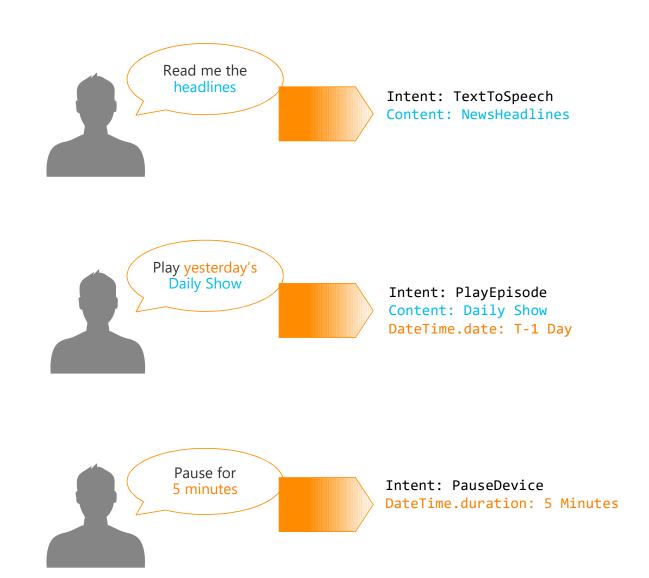
Understand what your users are saying

- Determines intent
- Detects entities

Seamless integration with Speech Recognition

Learns over time

Use pre-built, world class models from Bing and Cortana



Language: 🕕 English (confidence: 100%) I had a wonderful experience! The rooms were wonderful and the staff were Key phrases: 🕕 Example 1: helpful. Sentiment: Language: 📵 English (confidence: 100%) I had a terrible time at the hotel. The staff were rude and the food was awful. Key phrases: 0 Example 2: Sentiment: Language: 📵 English (confidence: 100%) I had an okay stay at this hotel. The rooms were wonderful but the staff was Key phrases: 💿 Example 3: rude. Sentiment:





Academic Knowledge API

Explore relationships among academic papers, journals, and authors



Knowledge Exploration Service

Add interactive search over structured data to your project



Entity Linking Service

Contextually extend knowledge of people, locations, and events



Recommendations API

Provide personalized product recommendations for your customers

Mars is the fourth planet from the Sun and the second smallest planet in the Solar System, after Mercury. Named after the Roman god of war, it is often referred to as the "Red Planet" because the iron oxide prevalent on its surface gives it a reddish appearance.



```
Highlight Content

}],
    "name":"De Graft",
    "wikipediaId":"Mercury (planet)",
    "score":0.999

},
{
    "matches":[{
        "text":"Roman god of war",
        "entries":[{
            "offset":122
        }]
    }],
    "name":"Mars",
    "wikipediaId":"Mars (mythology)",
    "score":0.007
}]
```





Bing Web Search API

Connect powerful search to your apps



Bing Autosuggest API

Give your app intelligent autosuggest options for searches



Bing Image Search API

Bring advanced image and metadata search to your app



Bing Video Search API

Trending videos, detailed metadata, and rich results



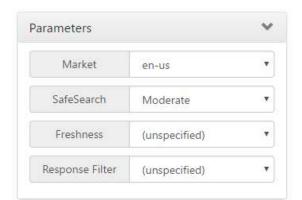
Bing News Search API

Link your users to robust and timely news searches

easy recipes



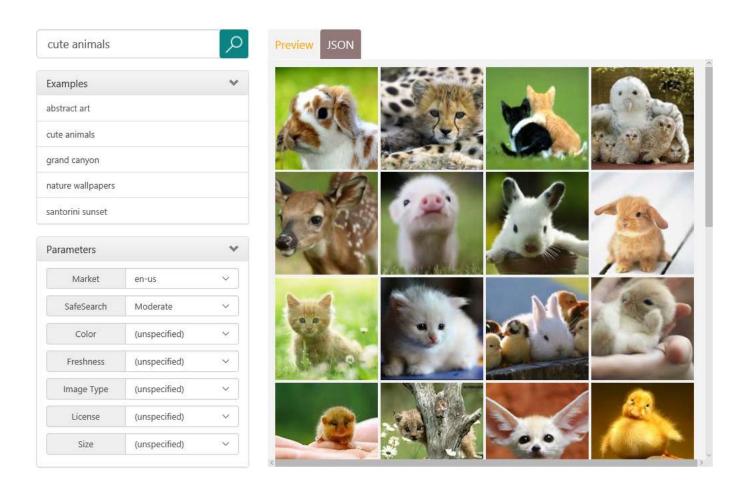
Examples	~
burrito recipes	
new movies	
seattle seahawks	
ted talks	
weather today	



Preview JSON

```
" type": "SearchResponse",
"webPages": {
 "webSearchUrl": "https://www.bing.com/cr?IG=BBBA5F1D16394191AA0628F8976270C6&CID=0ACB457A535
 "totalEstimatedMatches": 73500000,
 "value": [
      "id": "https://bingapis.azure-api.net/api/v5/#WebPages.0",
     "name": "<b>Quick and Easy Recipes</b> - Allrecipes.com",
      "url": "http://www.bing.com/cr?IG=BBBA5F1D16394191AA0628F8976270C6&CID=0ACB457A535464802
      "displayUrl": "all<b>recipes</b>.com/<b>recipes</b>/1947/everyday-cooking/<b>quick-and-&
      "snippet": "Explore hundreds of top-rated <b>quick and easy recipes</b> for breakfast, ]
      "deepLinks": [
         "name": "Quick and Easy Dinners",
         "url": "http://www.bing.com/cr?IG=BBBA5F1D16394191AA0628F8976270C6&CID=0ACB457A53546
         "snippet": "Looking for quick and easy dinner recipes? Allrecipes has more than 2,75
       },
         "name": "Quick and Easy Desserts",
         "url": "http://www.bing.com/cr?IG=BBBA5F1D16394191AA0628F8976270C6&CID=0ACB457A53546
         "snippet": "Easy homemade pies, cookies, cake, and more. Treat yourself with no-bake
     ],
      "dateLastCrawled": "2016-04-25T11:45:00"
      "id": "https://bingapis.azure-api.net/api/v5/#WebPages.1",
      "name": "<b>Easy Recipes</b> - Kraft <b>Recipes</b>",
      "url": "http://www.bing.com/cr?IG=BBBA5F1D16394191AA0628F8976270C6&CID=0ACB457A535464802
      "displayUrl": "www.kraft<b>recipes</b>.com/<b>recipes</b>/dinner/<b>easy-recipes</b>/mai
      "snippet": "Discover <b>easy recipes</b> for chicken, pasta and desserts from Kraft <b>F
      "dateLastCrawled": "2016-04-25T04:55:00"
```

Image Search API

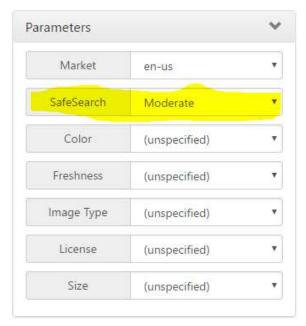


Chicago

santorini sunset

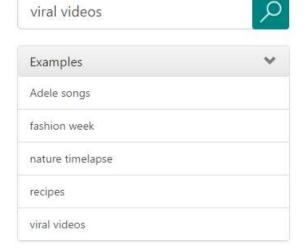


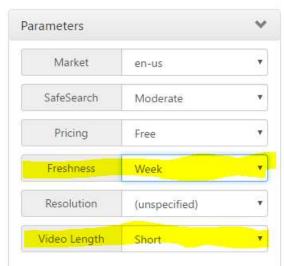
Examples	*
abstract art	
cute animals	
grand canyon	
nature wallpapers	

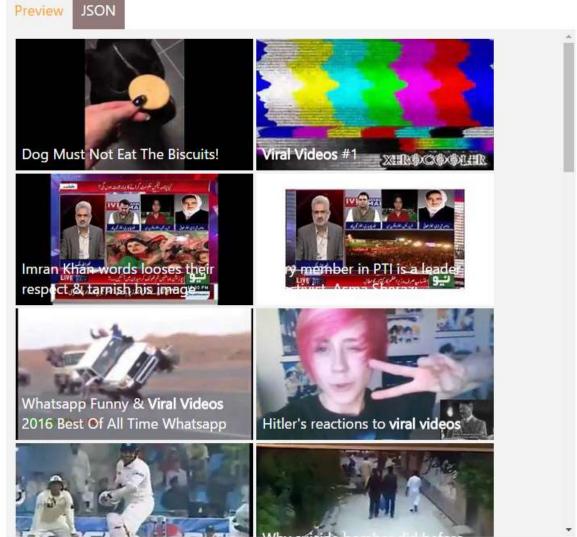


Preview JSON









Developer Resources

Preview Pricing

https://www.microsoft.com/cognitive-services/en-us/pricing

Documentation

https://www.microsoft.com/cognitive-services/en-us/computer-vision-api/documentation

Client SDKs

https://github.com/Microsoft/ProjectOxford-ClientSDK https://github.com/felixrieseberg/project-oxford (nodejs) https://github.com/southwood/project-oxford-python

Example Code

https://github.com/jsturtevant/happy-image-tester-django https://github.com/jsturtevant/happy-image-tester-nodejs

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