

Cognitive Services

AI service with serverless data computing

Microsoft Student Partner

구노영

강민수

✓ Introduction

✓ Microsoft Cognitive Services

✓ Example

- Computer Vision API
- Face API
- Emotion API

Introduction

자동 저장 (ON) | 프레젠테이션1 - PowerPoint | 그림 도구

파일 홈 삽입 디자인 전환 애니메이션 슬라이드 쇼 검토 보기 스토리보딩 서식 어떤 작업을 원하시나요?

배경 제거 수정 색 꾸밈 그림 압축 그림 바꾸기 그림 원래대로 조정 그림 스타일 그림 테두리 그림 효과 그림 레이아웃 정렬

크기 높이: 16.95 cm 너비: 25.43 cm

1

대체 텍스트: 해바라기, 식물, 꽃, 하늘이(가) 표시된 사진

대체 텍스트

시각 장애가 있는 사람에게 이 사진 및 해당 컨텍스트를 어떻게 설명하시겠어요?

(1-2 문장 권장)

해바라기, 식물, 꽃, 하늘이(가) 표시된 사진

매우 높은 신뢰도로 생성된 설명

제공: Office 서비스

슬라이드 1/1 | 한국어 | 슬라이드 노트 | 65%

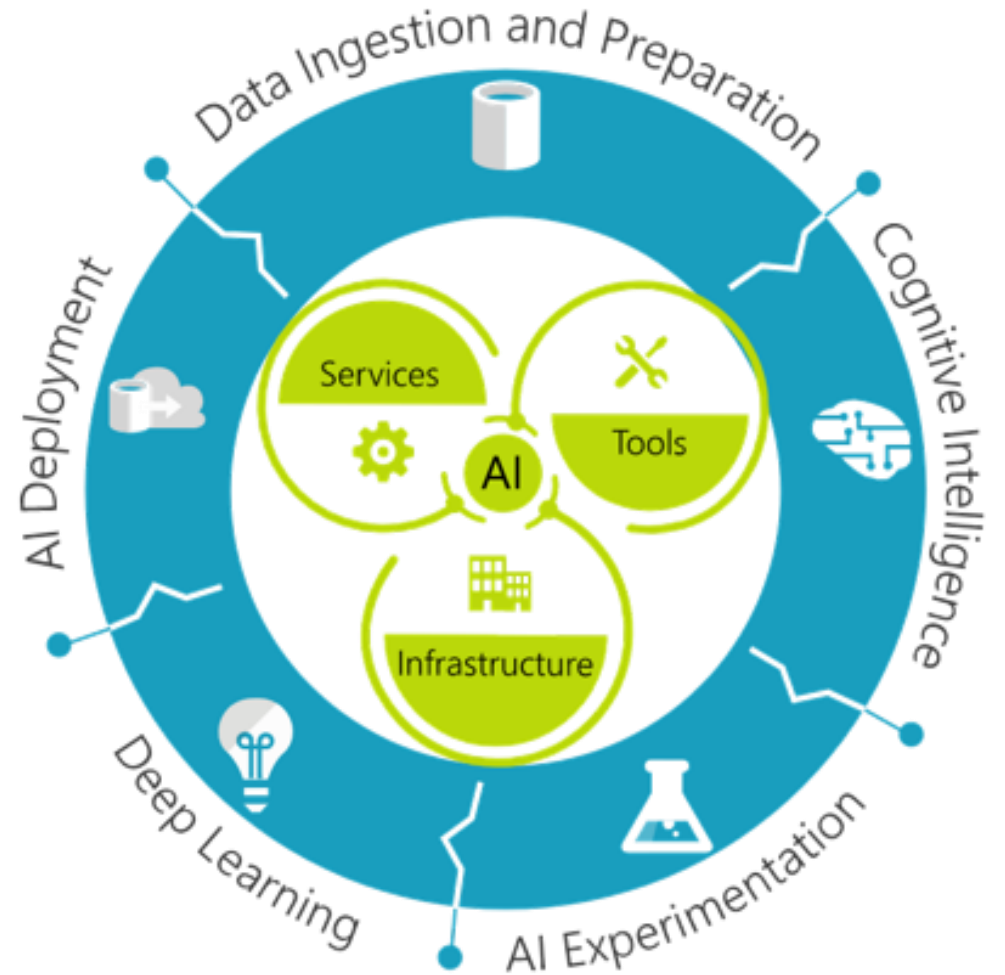
Microsoft Cognitive Services

✓ Microsoft Azure

Microsoft의 클라우드 서비스

✓ Microsoft AI Platform

- AI + Cognitive Services : Machine Learning, Azure Bot Service, Cognitive Services



Microsoft Cognitive Services

Microsoft Azure

영입 080-808-0894 ▼ | 내 계정 | 포털 | Search

Azure가 적합한 이유 | 솔루션 | 제품 | 설명서 | 가격 | 교육 | Marketplace | 파트너 | 블로그 | 리소스 | 지원

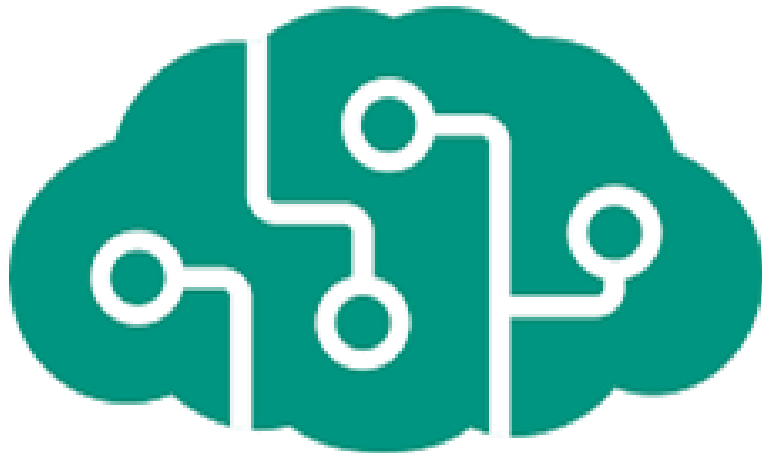
무료 계정 >

Cognitive 서비스

응용 프로그램, 웹사이트 및 봇에 사용자의 요구 사항을 자연스러운 의사 소통 방식으로 보고 듣고 말하고 이해하고 해석하는 지능적인 알고리즘을 제공하세요. 지금 인공 지능으로 비즈니스를 혁신하세요.

Cognitive Services 체험 >

<https://azure.microsoft.com/ko-kr/services/cognitive-services/>




 Vision

 Language

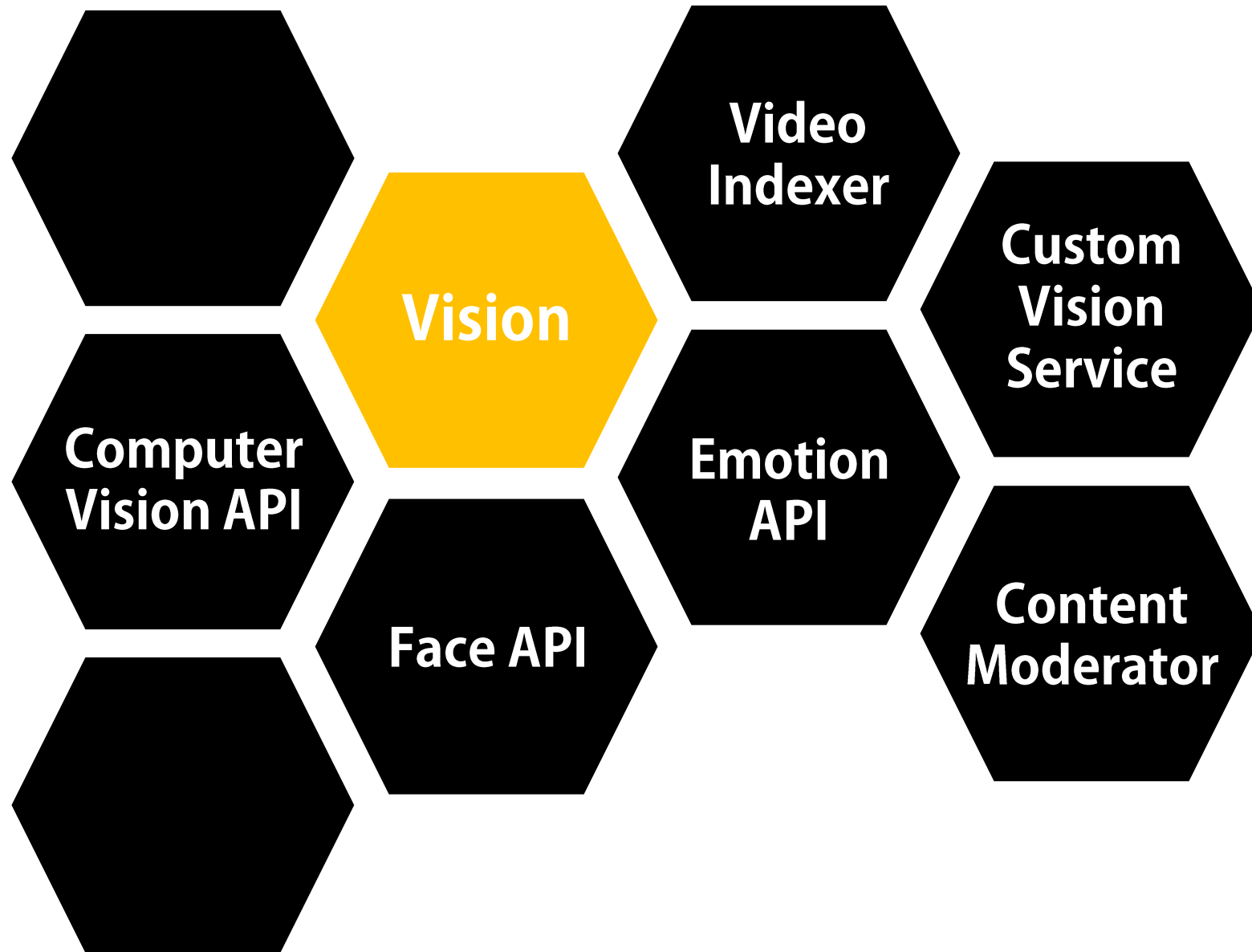
 Speech

 Search

 Knowledge

Microsoft Cognitive Services



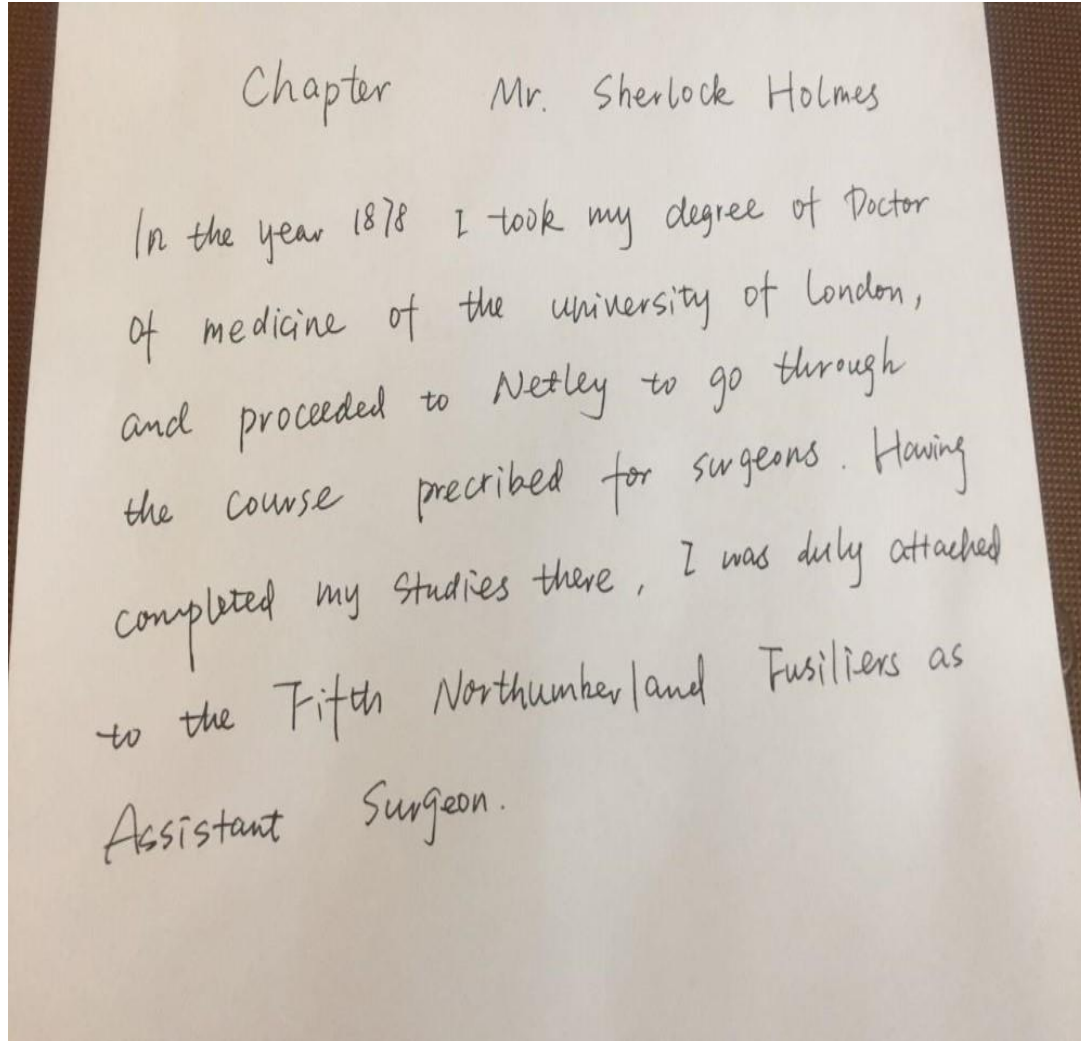


Recognize Landmarks



```
"result": {  
  "landmarks": [  
    {  
      "confidence": 0.976531446,  
      "name": "Parthenon"  
    }  
  ]  
}
```


Recognize Handwritten Text



chapter

Mr. Sherlock Holmes

In the year 1878 I took my degree of Doctor

of medicine of the university of London

and proceeded to Netley to go through

the course precribed for surgeons . Having

completed my studies there . I was duly attacked

to the Fifth Northumberland Fusiliers as

Assistant

Surgeon

Face detect



Unlock video insights

Video Indexer Preview

Account account-avnerl@microsoft.co...

It's actually moving the product, moving your company forward.

00:01:40 / 1:45:41

Ignite 2016 - Keynote

Private Created 1 day ago by Avner Levi > 49 Views

Edit

Cognitive Insights Transcript Search English

People

Scott Guthrie

Show biography Find in Bing

Appears for a total of 24% of the entire duration

Keywords

Office Windows Defender protection Threat protection Microsoft Azure Windows defender advance threat protection Adobe in Microsoft start with Windows cloud platform deployment stage Microsoft Intune Microsoft Advanced Threat Windows 10 office Office 365 advance Advanced multilayer security

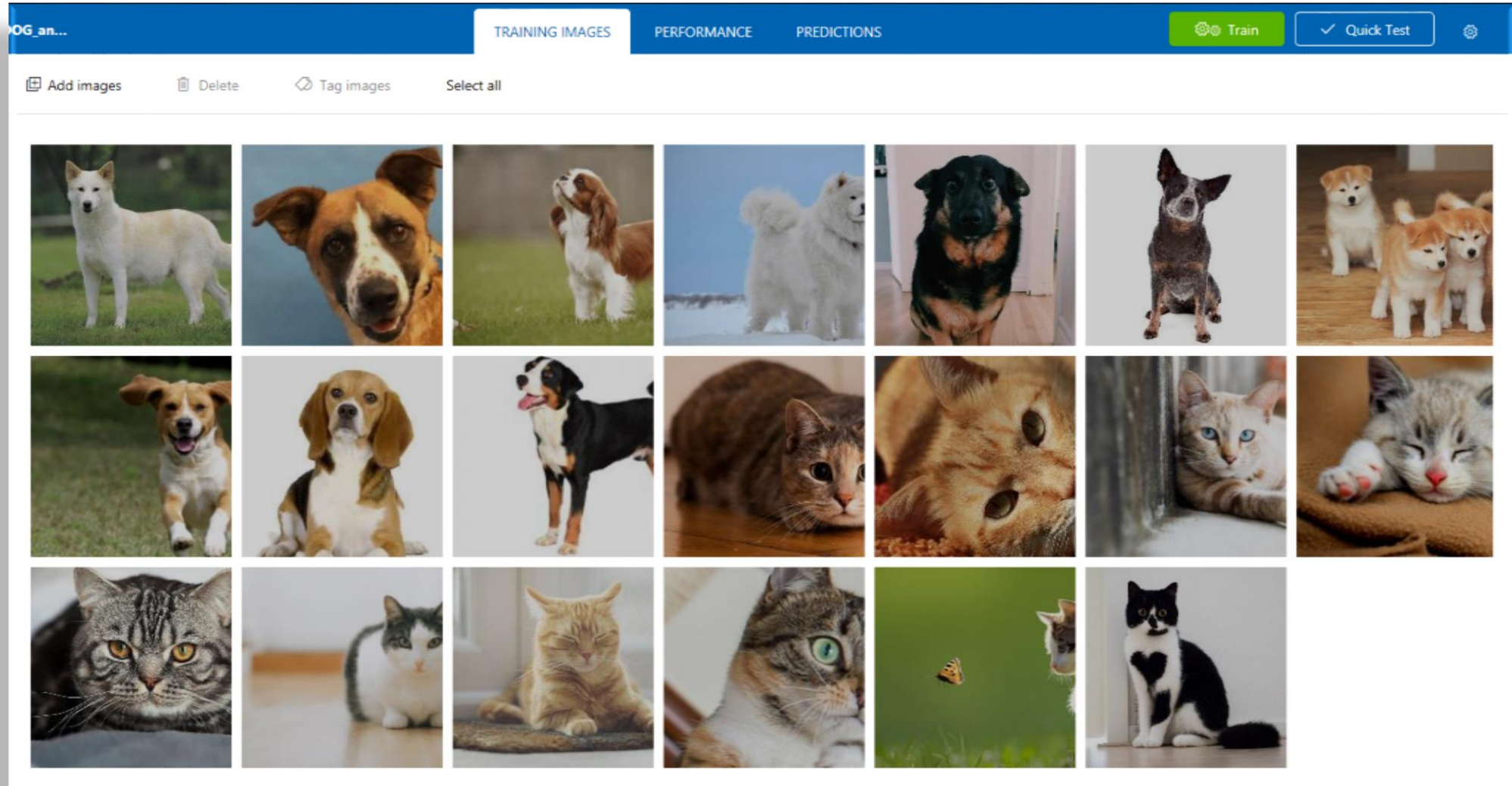
Speech Sentiment

Neutral (19%)

Negative (4%)

Positive (77%)

Custom Vision Service : Training



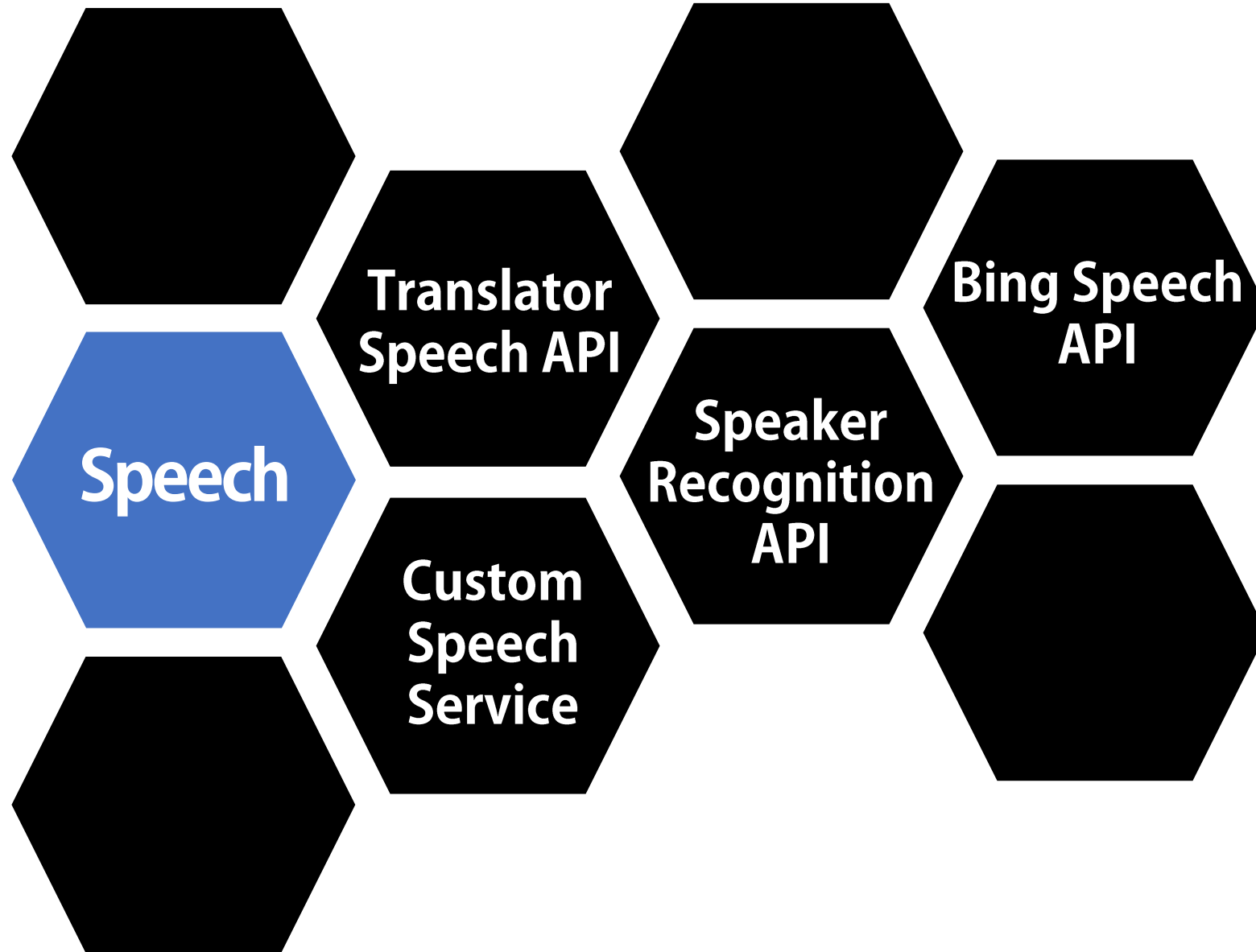
Custom Vision Service : Performance



Results

Tag	Probability
dog	100%
cat	0%

Microsoft Cognitive Services



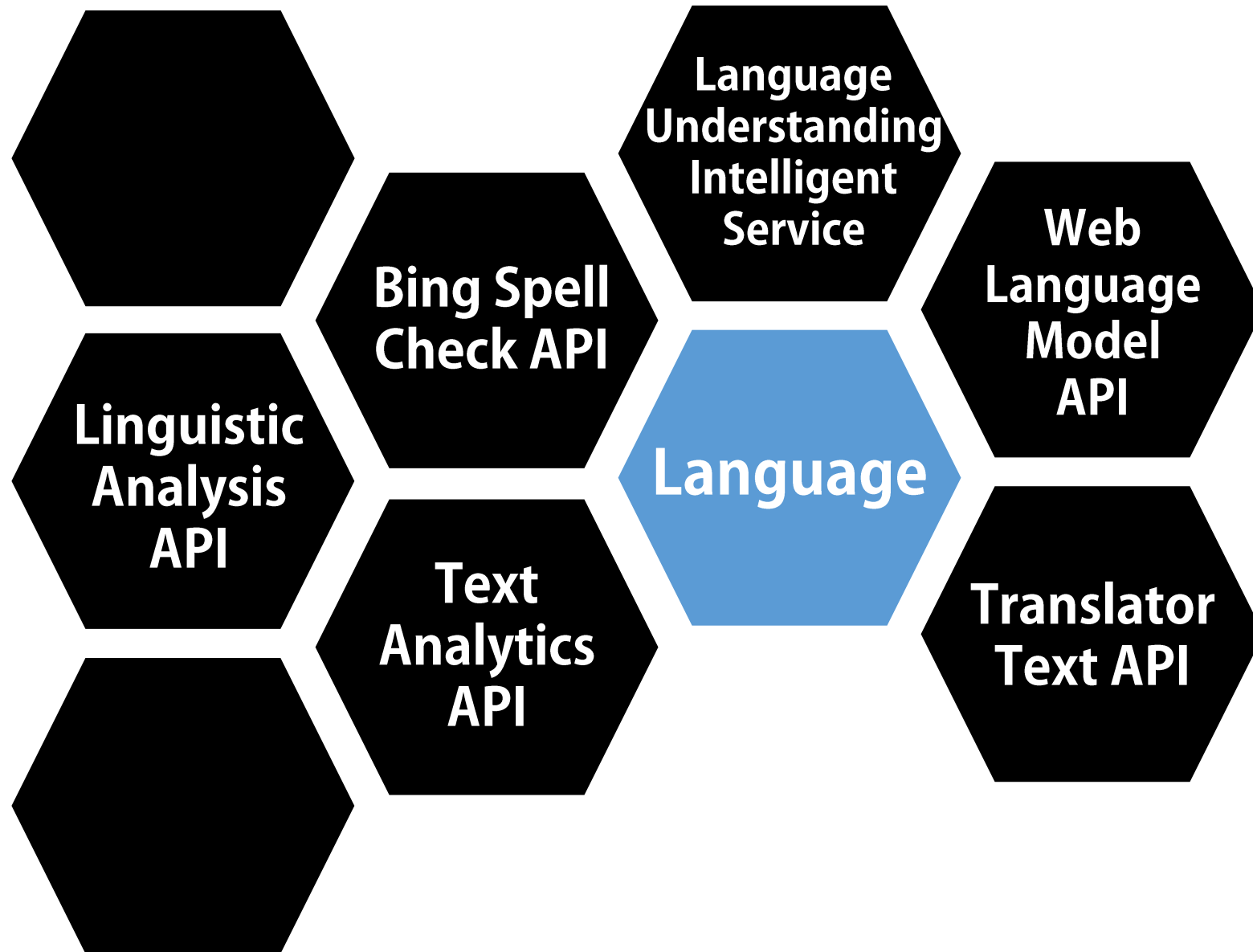
Microsoft Cognitive Services



```
{  
  "Result": "Reject",  
  "Confidence": "Normal",  
  "Phrase": ""  
}
```



```
{  
  "Result": "Accept",  
  "Confidence": "Normal",  
  "Phrase": "apple juice tastes funny after toothpaste"  
}
```



Build Custom Language Model

turn the right light on

switch all lights to green

switch floor lamp to green

turn the table light off

실행 중인 스마트 조명 응용 프로그램 ⓘ



Build Custom Language Model

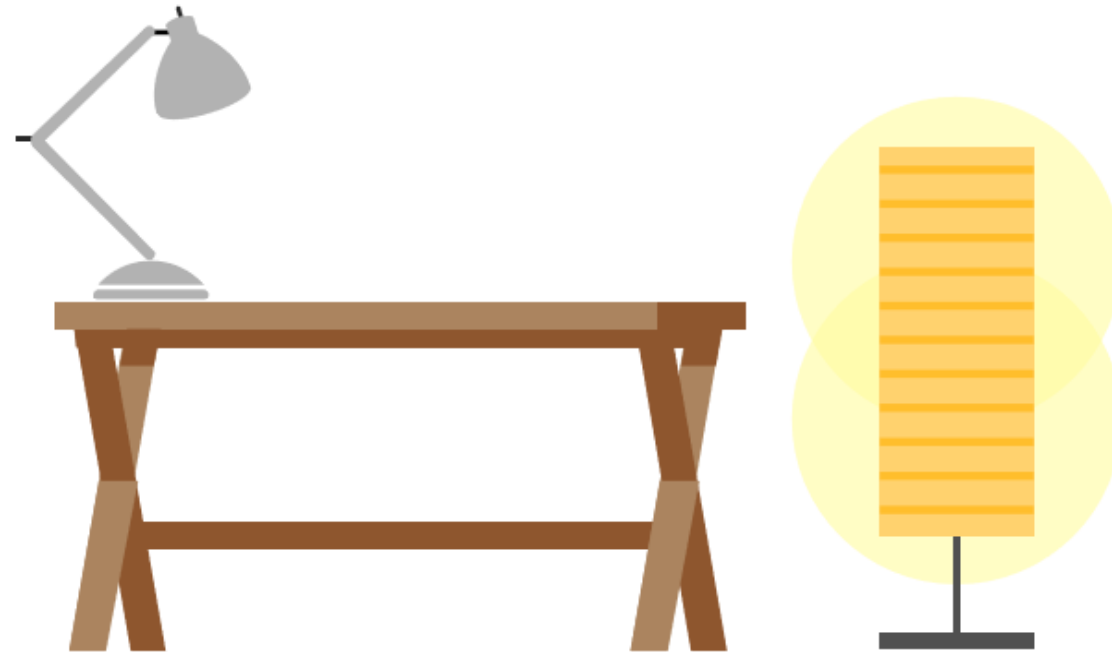
turn the right light on

switch all lights to green

switch floor lamp to green

turn the table light off

실행 중인 스마트 조명 응용 프로그램 ⓘ



Build Custom Language Model

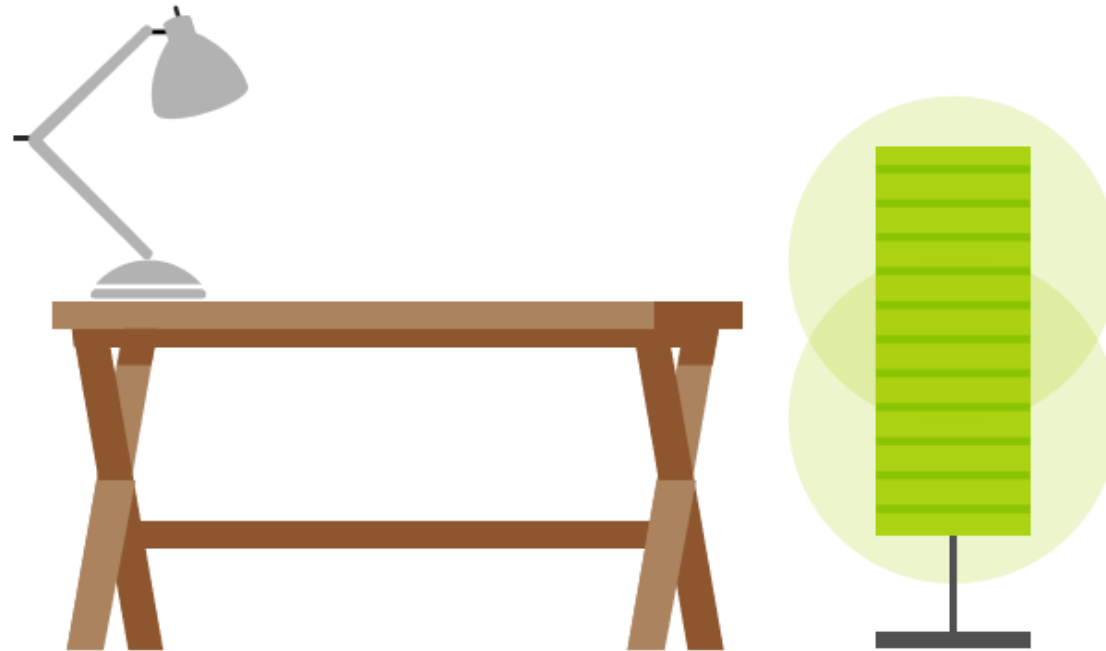
turn the right light on

switch all lights to green

switch floor lamp to green

turn the table light off

실행 중인 스마트 조명 응용 프로그램 ⓘ



Extract information from your text

I had a wonderful experience!
The rooms were wonderful
and the staff was helpful.

분석된 텍스트

JSON

i 언어:	English (신뢰도: 100 %)
i 핵심 문구:	wonderful experience, staff, rooms
i 감정:	100 %

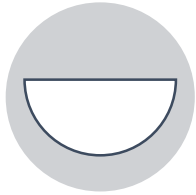
I had a terrible time at the
hotel. The staff was rude and
the food was awful.

분석된 텍스트

JSON

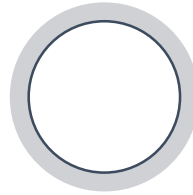
i 언어:	English (신뢰도: 100 %)
i 핵심 문구:	food, terrible time, hotel, staff
i 감정:	1 %

Word Breaking



document

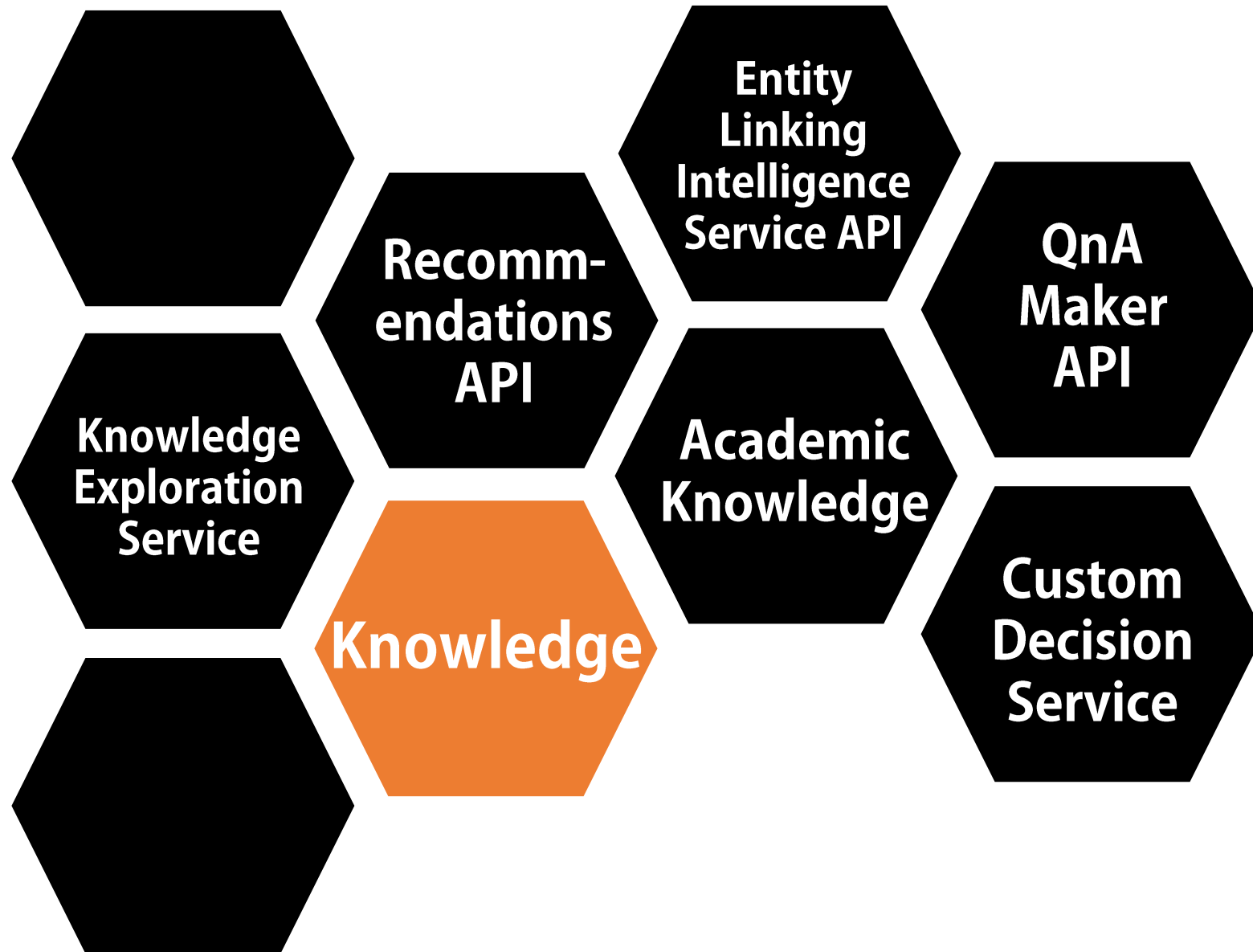
Itisnotthatlamsosmartitisjustth
atlstaywithproblemslonger



JSON

```
{ "candidates":  
  [  
    { "words": "it is not that i am so smart it is just that i stay  
with problems longer", "probability": -30.252 },  
    { "words": "it is not that iam so smart it is just that i stay  
with problems longer", "probability": -33.521 },  
    { "words": "it is not that i am so smart i t is just that i stay  
with problems longer", "probability": -33.723 },  
    { "words": "it is not that i am so smart i t i s just that i sta  
y with problems longer", "probability": -34.289 },  
    { "words": "itis not that i am so smart it is just that i stay  
with problems longer", "probability": -34.534 }  
  ]  
}
```

Microsoft Cognitive Services



Create a FAQ service from existing content

Connecting a Microsoft Bluetooth® device

Connectivity between your Microsoft Bluetooth device and your computer depends on your Bluetooth transceiver.

- If your device did not include a Microsoft Bluetooth transceiver, you must pair the device by using your computer's built-in (non-Microsoft transceiver) and the computer's Bluetooth software configuration program.
- If your device included a Microsoft Bluetooth transceiver that has a First Connect button on it, you can use the First Connect button to start the Microsoft Connection Wizard. This will help you establish the Bluetooth pairing.
- If your device included a Microsoft Bluetooth transceiver without a First Connect button, you must plug in the transceiver and then pair the device by using your computer's Bluetooth software configuration program.
- If your computer has a built-in, non-Microsoft transceiver, you can pair the device directly to the computer by using your computer's Bluetooth software configuration program but without using the Microsoft Bluetooth transceiver.
- Note: The power button on new Bluetooth devices like Wedge Touch Mouse and Sculpt Touch Mouse need to be pressed for about 5 seconds to start pairing it to the computer.

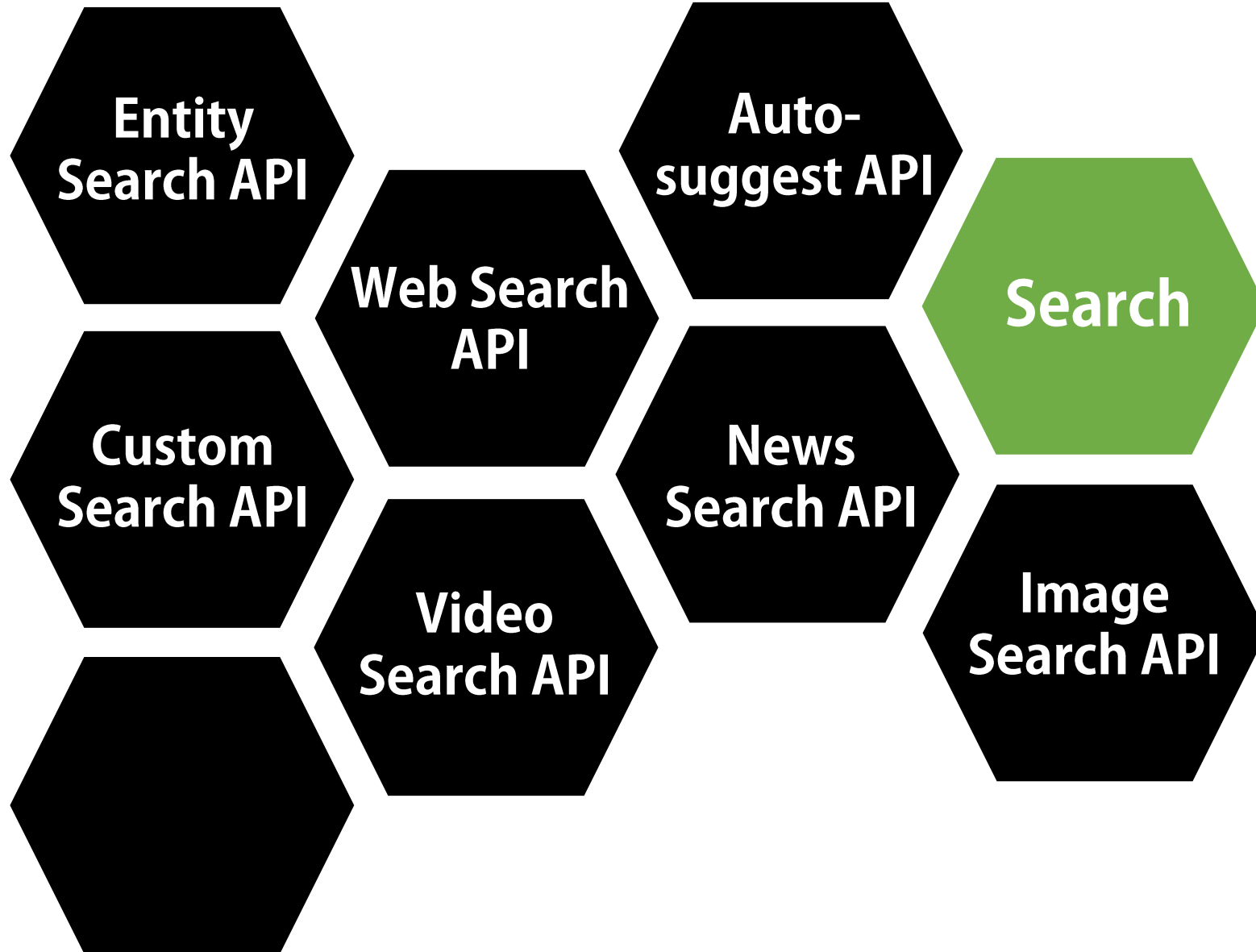
Using a passkey

You do not need to configure a passkey when pairing a mouse to a computer. However, you must always configure a passkey when pairing a keyboard or number pad to a computer. The way that you specify a passkey depends on the Bluetooth program on your computer. If your Bluetooth program gives you a choice about how to create the passkey, let the program create one for you rather than creating your own or not using a passkey. When you type the passkey, you will not see feedback on the screen. After typing the passkey, you must press Enter on the keyboard or number pad to complete the pairing.

Create a FAQ service from existing content

QUESTION	ANSWER
How do I install Microsoft Mouse and Keyboard Center?	Download Microsoft Mouse and Keyboard Center from [Microsoft Mouse and Keyboard Center.] To complete installing the app: Users need to tap Accept button on the setup wizard.
How to Pair Microsoft Arc Mouse?	Make sure your Surface or Windows 10 PC is Bluetooth 4.0 Compatible. Microsoft Arc Mouse requires Windows 10 on a Bluetooth 4.0 Host to connect. If you are unsure whether or not your Host is Bluetooth 4.0 compatible, you may need to work with your Original Equipment Manufacturer. Make sure Bluetooth is Turned On.
How do I use ClickLock while highlighting an object?	If you have difficulty with holding down the mouse button or a key while at the same time dragging the mouse to highlight an object, you can assign a mouse button or shortcut key to ClickLock.

Microsoft Cognitive Services



Bing Autosuggest API

마이크로소 

Market

ko-kr (Korean) ▼

Preview

JSON

마이크로소프트

마이크로소프트 다운로드센터

마이크로소프트 엣지

마이크로소프트 툴킷

마이크로소프트 워드

마이크로소프트 다운로드

마이크로소프트오피스

마이크로소프트 엑셀

 Bing Autosuggest API

 Bing Image Search API

 Bing News Search API

 Bing Video Search API

 Bing Web Search API

 Bing Custom Search API

 Bing Entity Search API

Bing Image Search API

윈도우 

Examples

abstract art

cute animals

grand canyons

nature wallpapers

santorini sunset

Market

ko-kr (Korean) ▼



 Bing Autosuggest API

 Bing Image Search API

 Bing News Search API

 Bing Video Search API

 Bing Web Search API

 Bing Custom Search API

 Bing Entity Search API

Bing News Search API



Examples

europaan football

financial markets

Hollywood updates

science updates

top stories

world news

Market

ko-kr (Korean)

Preview

JSON



[KS] '시구부터 눈물까지' 한국시리즈 명장면 BEST 5
[OSEN=이종서 기자] KBO리그 역사상 처음으로 성사
다. KIA는 30일 치러진 2017 타이거뱅크 KBO리그 포스
5차전에서 7-6으로 ...



[한국시리즈]KIA, '호랑이 군단' KS 불패 신화 지켰다
[잠실=스포츠투데이 이상필 기자]KIA 타이거즈의 '한국
30일 오후 서울 잠실구장에서 열린 2017 타이거뱅크 K
스를 7-6으로 ...



반전드라마 같던 한국시리즈 MVP 선정 뒷이야기
2017 한국시리즈 MVP로 KIA 타이거즈 좌완 에이스 양현
30일 잠실구장에서 열린 두산 베어스와의 5차전 세이브
하다. 하지만 ...



한국시리즈 MVP 양현종, 2017 시즌 MVP도 거머쥔다
(서울=연합뉴스) 최인영 기자 = 정규시즌은 물론 한국
이 특훈을 수상한 양현종의 MVP 수상은 ...

 Bing Autosuggest API

 Bing Image Search API

 Bing News Search API

 Bing Video Search API

 Bing Web Search API

 Bing Custom Search API

 Bing Entity Search API

Microsoft Cognitive Services



Bing Video Search API

김연아



Examples

Adele songs

fashion week

nature timelapse

recipes

viral videos

Market

ko-kr (Korean)

Preview

JSON



[Bing Autosuggest API](#)

[Bing Image Search API](#)

[Bing News Search API](#)

[Bing Video Search API](#)

[Bing Web Search API](#)

[Bing Custom Search API](#)

[Bing Entity Search API](#)

Example

 Computer Vision API

 Face API

 Emotion API