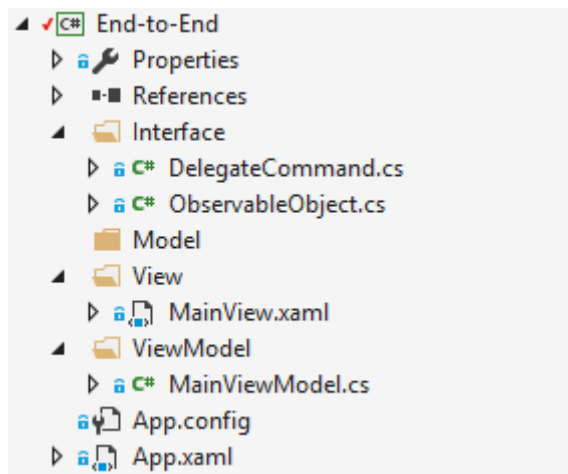
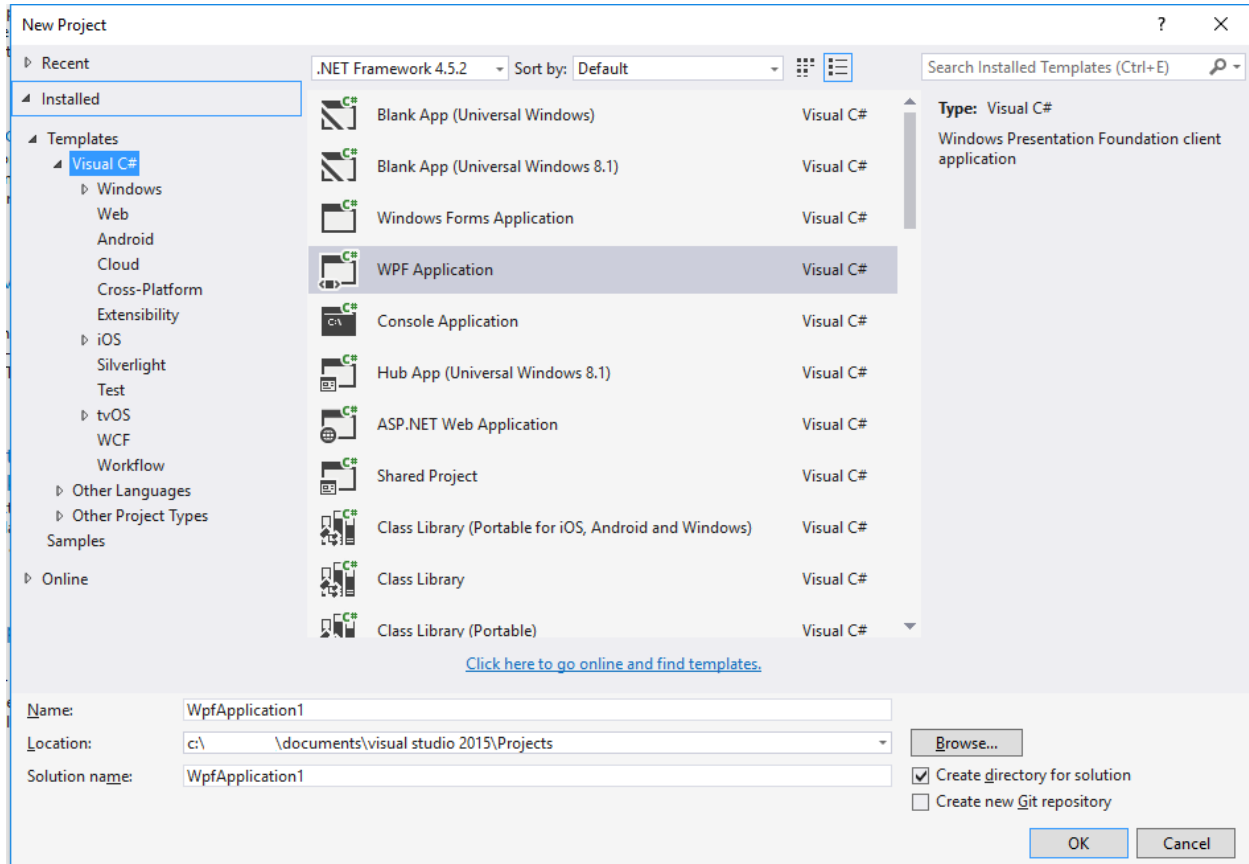


Chapter 1: Getting Started with Microsoft Cognitive Services



**Choose Template Type**

This wizard will allow you to export a project or project item from the current solution to a template which future projects can then be based upon.

Which type of template would you like to create?

Project template

A project template will allow a user to create a new project based on your exported project. A user will be able to utilize your template from the New Project dialog box for client projects and from the New Website dialog box for websites.

Item template

An item template will allow a user to add your item to one of their existing projects. Your template will be available to the user from the Add New Item dialog box.

From which project would you like to create a template?

WpfApplication1


< Previous

Next >

Finish

Cancel

Export Template Wizard ? X



Select Template Options

Template name:

Template description:

Icon Image:
 Browse...

Preview Image:
 Browse...

Output location:

Automatically import the template into Visual Studio

Display an explorer window on the output files folder





< Previous
Next >
Finish
Cancel

Everything ✦ □ X

Filter

face api

Results

| NAME | PUBLISHER | CATEGORY |
|--|-----------|-------------------------|
|  Face API | Microsoft | AI + Cognitive Services |
|  VU Face Recogn | VU LLC | Compute |
|  VU Face Recogn - BYOL | VU LLC | Compute |
|  Bing Maps API for Enterprise | Bing Maps | Web + Mobile |

Create

Face API

* Name

Enter a name

* Subscription

Windows Azure MSDN ? Visual Studio Ulti ... ▾

* Location

West Europe ▾

* Pricing tier (View full pricing details)

▾

All Available Pricing

F0 (You have already created 1 F0 for this subscription.)

S0 (10 Calls per second)

* I confirm I have read and understood the notice below.



FaceApi - Keys

Cognitive Services

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

RESOURCE MANAGEMENT

Keys

Quick start

Pricing tier

Properties

Regenerate Key1 Regenerate Key2

Notice: It may take up to 10 minutes for the newly (re)generated keys to take effect.

NAME

FaceAp

KEY 1

2

KEY 2

4

Browse

Installed

Updates

microsoft.projectoxford.face



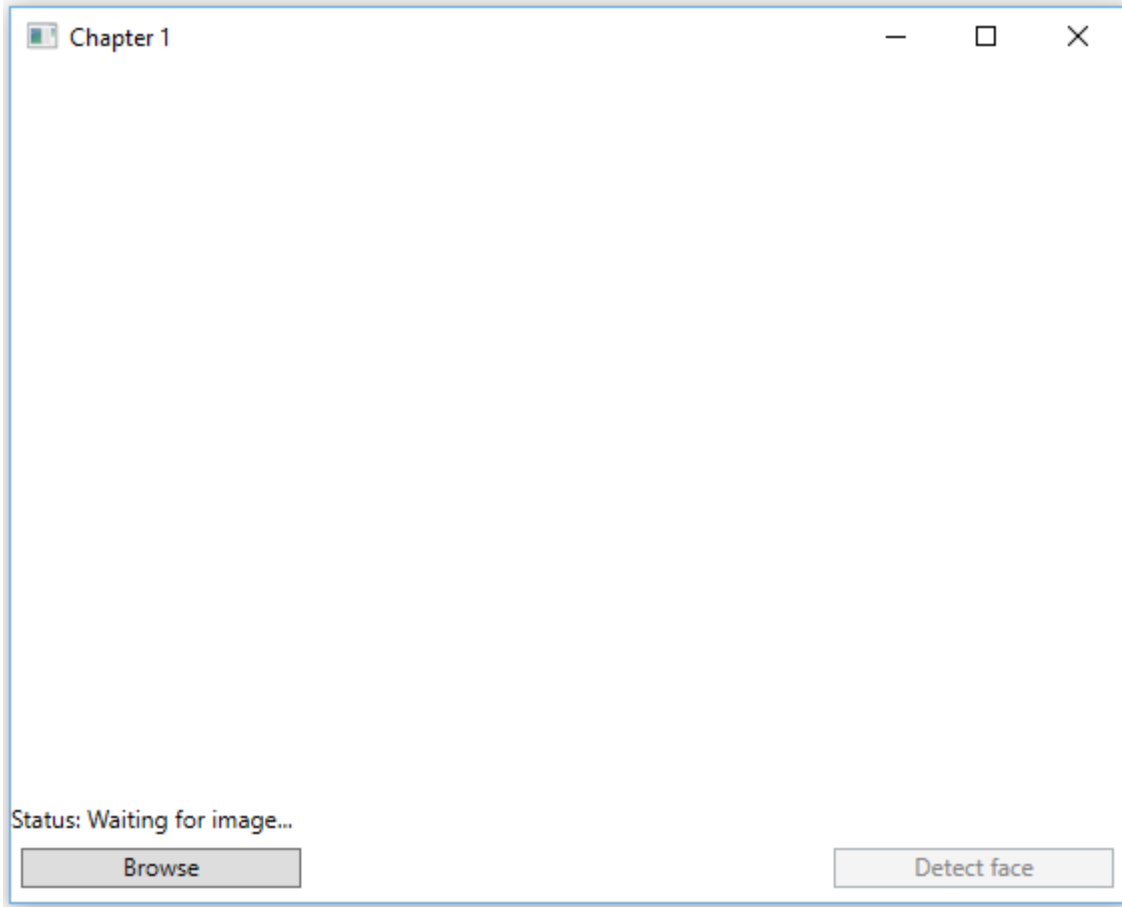
Include prerelease



Microsoft.ProjectOxford.Face by Microsoft, 9,74K downloads

v1.1.0

Detect, identify, analyze, organize, and tag faces in photos with Microsoft Face API client library.



FaceApi
Cognitive Services

Search (Ctrl+/)

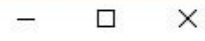
- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Delete

Essentials ^

| | |
|---|---|
| Resource group (change) | API type |
| Book | Face API |
| Status | Pricing tier |
| Active | Standard |
| Location | Endpoint |
| West Europe | https://westeurope.api.cognitive.microsoft.com/face/v1.0 |
| Subscription name (change) | Manage keys |
| Windows Azure MSDN ? Visual Studio Ultimate | Show access keys ... |
| Subscription ID | |

Chapter 1

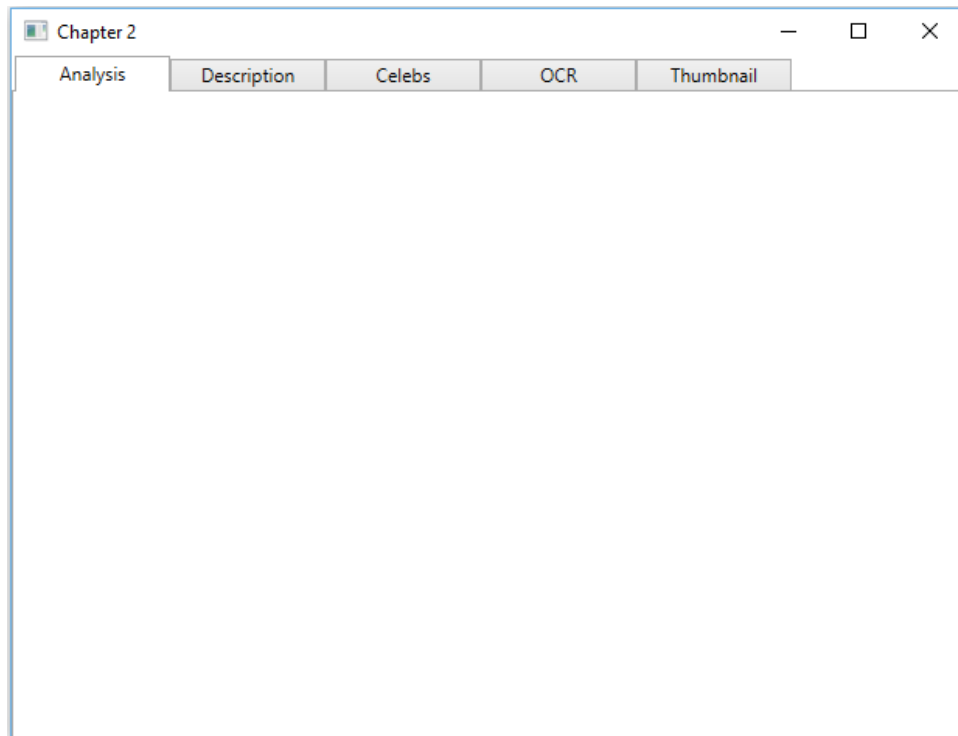
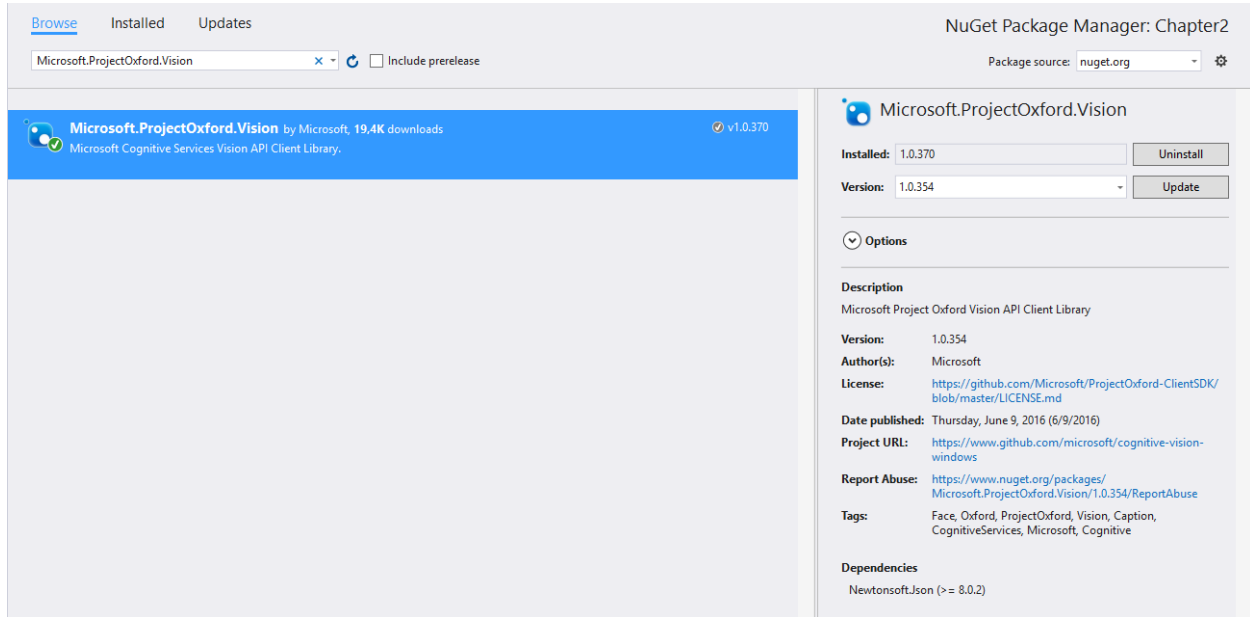


Status: Finished detecting faces...

Browse

Detect face

Chapter 2: Analyzing Images to Recognize a Face



Visual Features:

| |
|-------------|
| ImageType |
| Color |
| Faces |
| Adult |
| Categories |
| Tags |
| Description |

Browse and analyze



Analysis Results:

Description: a harbor with a boat in the water
Probability: 0,75724296883707

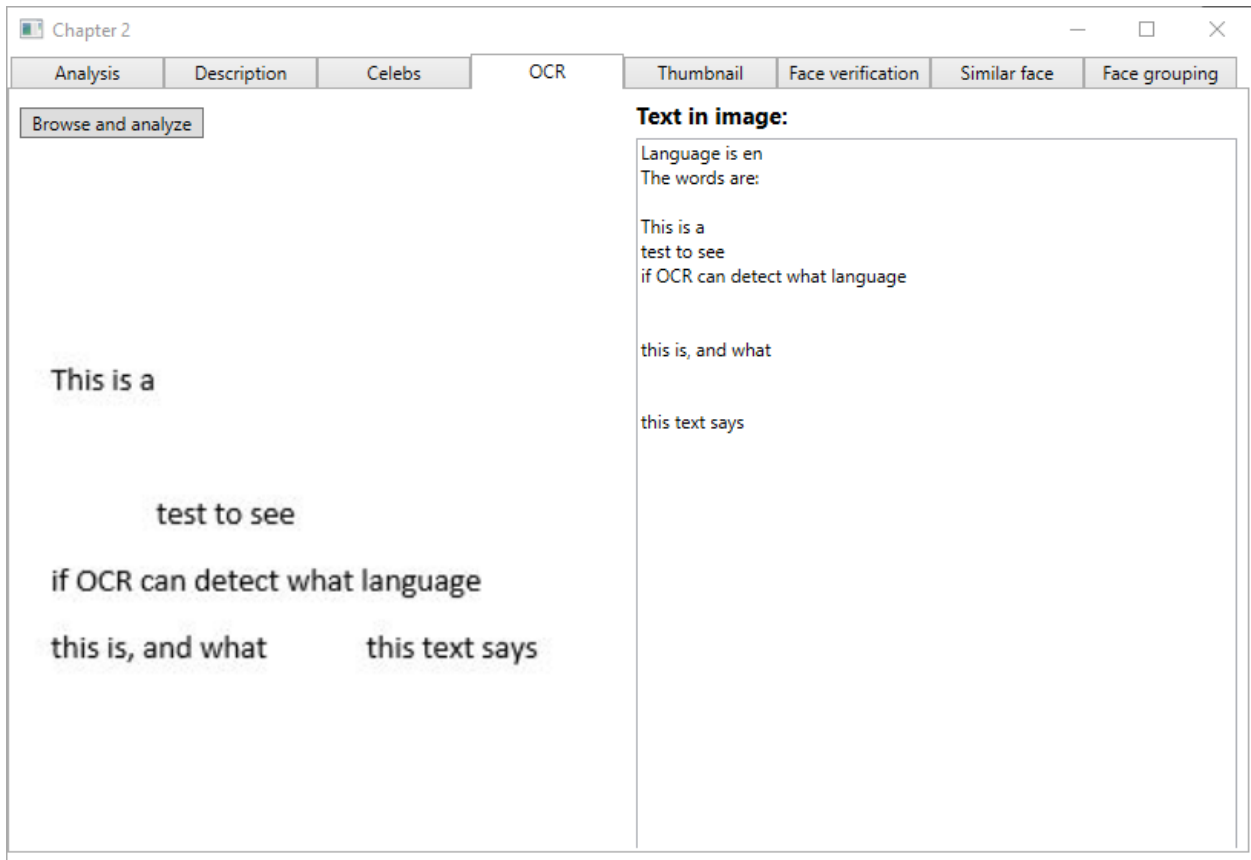
Categories:
 outdoor_
 Probability: 0,0078125

 outdoor_oceanbeach
 Probability: 0,4296875

Image content is adult: False
Image content is racy: False

The image is Jpeg
Image size: 3264 * 2448 px

Request ID is: 5964b01a-9205-49e3-be06-c0b9d45e2548




Chapter 2

Analysis Description Celebs OCR Thumbnail Face verification Similar face Face grouping

Browse for image 1

Browse for image 2



Verify faces

The two provided faces is identical: False, with confidence: 0,10252

Chapter 2

Analysis Description Celebs OCR Thumbnail Face verification Similar face Face grouping


Image 1

 525a88e5-e77b-407c-ba1a-11e3ce162eda


Image 2

 5a1cd2a8-e7e5-41ce-a96a-2fd8cb38c4a5


Image 3

 d35187c4-9fb2-4dc0-90a6-04724e5cbcb0


Image 4

 9fd9df235-2dc5-4b5f-b7e3-561b5e203ace



Image 5

 f4d805ac-0926-4af8-85a5-df86b0d97433

Image 6

 e199a798-38b8-4d1c-b1c4-b946d16048d7

Group images **Face groups:**

There are 2 group(s)
 Groups: Image 4 - Image 6 -
 Image 3 - Image 1 -
 Messy group: Image 2 - Image 5 -

Smart Home

Home Administration

Administration

Person groups

Add new person group | Person group name/id:

 Add

Person groups:
 Administrators
 Family 3
 Delete person group Train person group

Add new person | Person name:

 Add

Persons

Persons:

 Delete person Add face

Status:
 ViewModel initialized

Smart Home

Home Administration


Smart Home

Logon to group:

- Administrators
- Family 3

Image logon

Welcome home, Leif



Create review team

Before you begin, let's create a team to help you collaborate on administering and using the review tool. Optionally, invite others now to join your team.

Region : * ⓘ

Team Name : * ⓘ

Team Id : * ⓘ

Invite others :

I agree to the [Microsoft Cognitive Services Terms](#) and [Microsoft Privacy Statement](#).

Overall Stats

| | | | | | | | | | | | |
|-------|---|---|---|----------|---|---|---|---------|---|---|---|
| Total | 1 | 1 | 0 | Complete | 0 | 0 | 0 | Pending | 1 | 1 | 0 |
|-------|---|---|---|----------|---|---|---|---------|---|---|---|

By User

No Data Available

By Tags

No Data Available

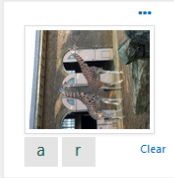
Image Text

Default

12

0

1



Next >>

API

Endpoint : **https://westeurope.api.cognitive.microsoft.com/contentmoderator/review/v1.0**

Reference : [API Reference](#)

Id : **book**

Trial Ocp-Apim-Subscription-Key : **3 6**

Whitelisted Resource Id(s) ⓘ

Id



Workflow Settings ⓘ

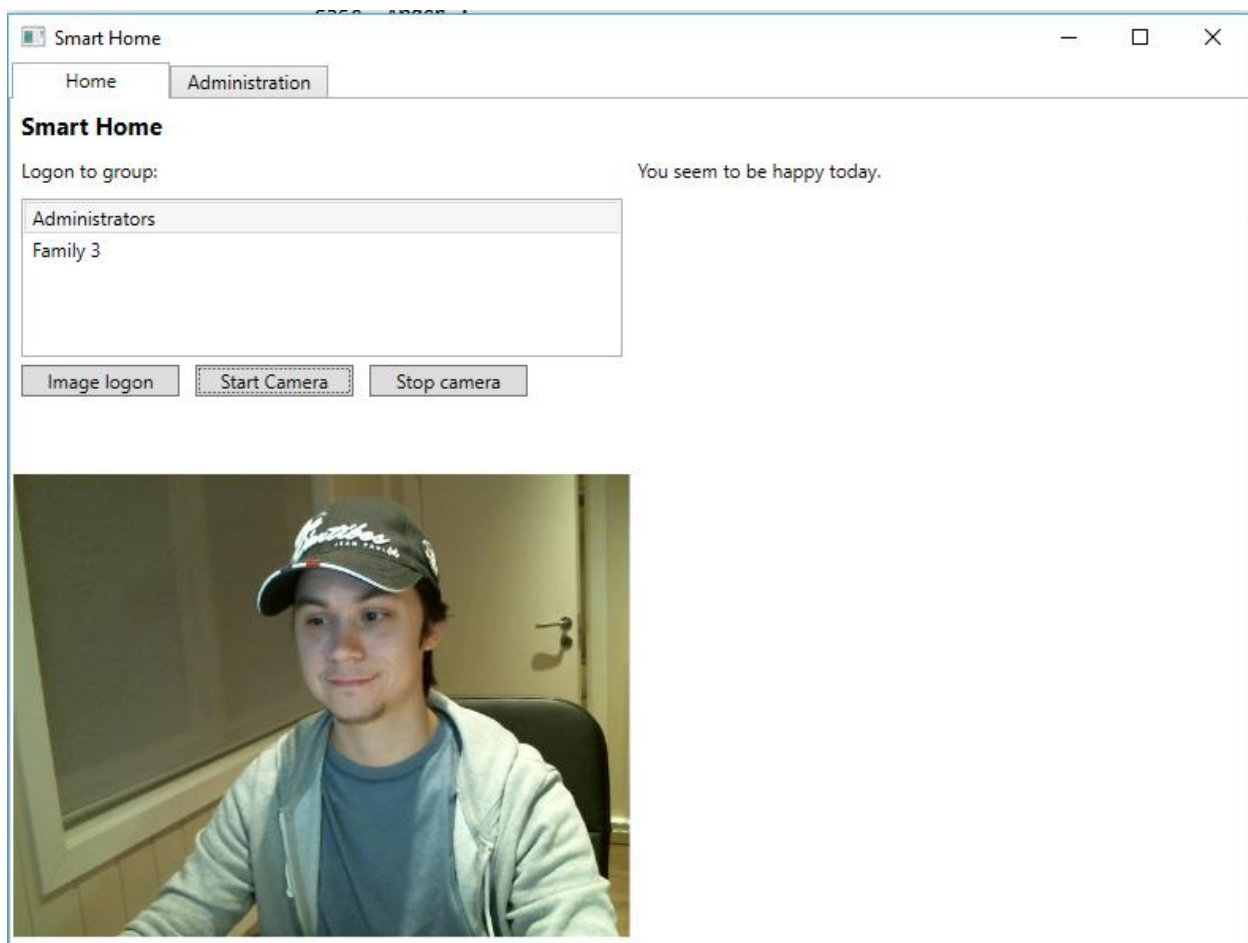
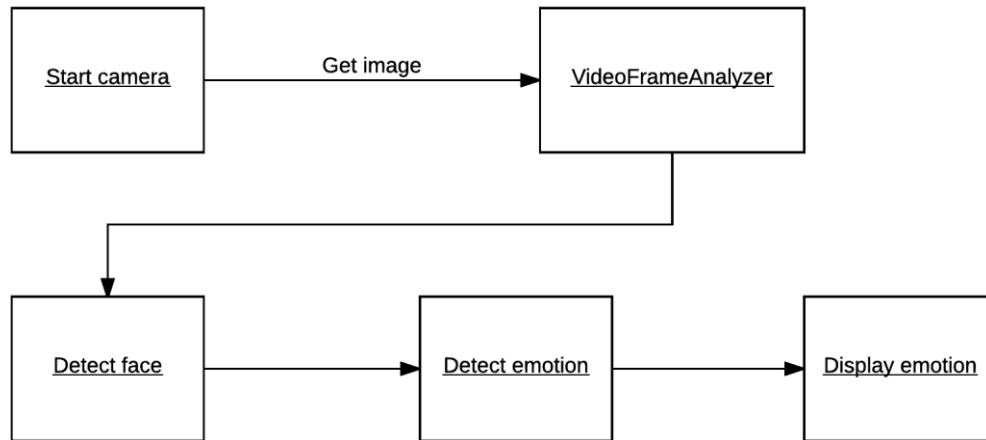
Ocp-Apim-Subscription-Key: *

Term List Ids:

Base Url:

Edit

Chapter 3: Analyzing Videos



Smart Home

Login to group:

You seem to be neutral today.

- Administrators
- Family 3

Image logon Start Camera Stop camera



Video Operations

Browse video:

Video Operation:

Operation result

Video Operations

Browse video:

Browse

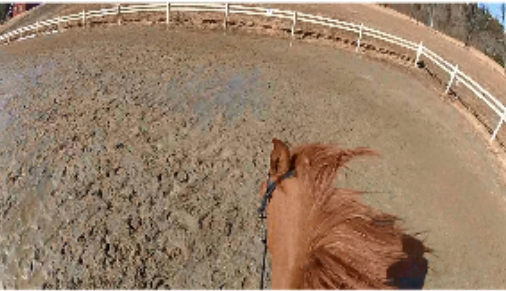
Video Operation:

Thumbnail

Execute operation

Operation result

Running
Video operation is running



Video Operations

Browse video:

Browse

Video Operation:

Thumbnail ▾

Execute operation

Operation result

Succeeded
Video operation completed successfully
Video can be fetched at: <https://api.projectoxford.ai/video/v1.0/operation>



Video Operations

Browse video:

Browse

Video Operation:

FaceDetection

Execute operation



Operation result

```
Succeeded
Video operation completed successfully
Results:
{
  "version": 1,
  "timescale": 12800,
  "offset": 0,
  "framerate": 25,
  "width": 640,
  "height": 480,
  "fragments": [
    {
      "start": 0,
      "end": 1000000000,
      "keyframe": true
    }
  ]
}
```

Video Operations

Browse video:

Browse

Video Operation:

MotionDetection

Execute operation



Operation result

Succeeded

Video operation completed successfully

Results:


```
{  
  "version": 2,  
  "timescale": 12800,  
  "offset": 0,  
  "framerate": 25,  
  "width": 640,  
  "height": 480,  
  "regions": [  
    {  
      "x": 0,  
      "y": 0,  
      "x2": 640,  
      "y2": 480,  
      "confidence": 1.0,  
      "label": "background"  
    }  
  ]  
}
```

Chapter3

Video Operations

Browse video:

Video Operation:



Operation result

Succeeded

Video operation completed successfully

Emotion results:

- Emotion: Anger / Score: 0
- Emotion: Contempt / Score: 0
- Emotion: Disgust / Score: 0
- Emotion: Fear / Score: 0
- Emotion: Happiness / Score: 0
- Emotion: Neutral / Score: 0
- Emotion: Sadness / Score: 0
- Emotion: Surprise / Score: 0

Video Indexer API

HOME APIS PRODUCTS ISSUES SIGN IN

Sign up

Already a member? [Sign in now](#)

Create a new API Management account

To complete your registration fill out the form below.

Email

First name

Last name

Video Indexer Preview Account leifh89-25193d

Find exact moments within the videos


Search & filter per the following categories

Text or topic (in transcript or any visual content) People and Celebrities (per name)

Search

[Show more filters](#) Clear search

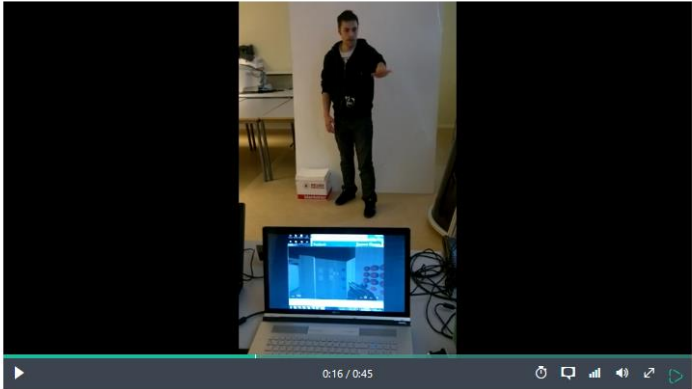
Account Videos Sample Videos Upload Refresh



Upload your first video

Upload

Video Indexer Preview Account leifh89-25193d



Kinect

Private Created 2 minutes ago by Leif Henning Larsen 0 Views

Edit

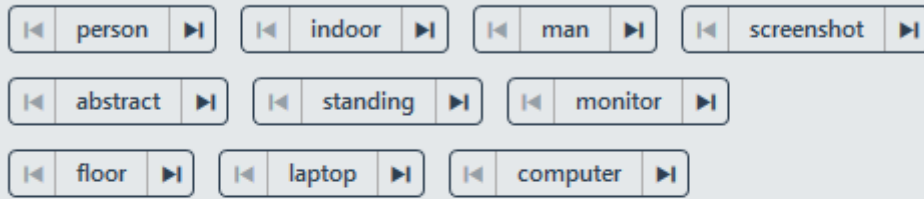
Insights Transcript Search... English

Edit

Annotations

indoor laptop electronics computer

Annotations



Speech sentiment

- Positive (76%)
- Neutral (19%)
- Negative (5%)



Autoscroll On

You know

it's so cold

to get excited about technology
and um.

In fact, my daughter saw this
picture and said,

who is that and um.

In

all a lot has changed uh in fact,

one of the developers as I was
prepping for it and said Hey there's

Video Indexer API

[HOME](#) [APIS](#) [PRODUCTS](#) [ISSUES](#)

Free Preview

This is the Free Preview tier for Video Indexer

This product contains 1 API:

- [Video Indexer APIs - Production](#)

[Subscribe](#)

You have successfully subscribed to the **Free Preview** product. Try the [APIs](#) in this product now.

[Change account information](#)

Profile

Email leif_h_89@hotmail.com
First name Leif Henning
Last name Larsen

Your subscriptions

[Analytics reports](#)

| Subscription details | | Product | State | Action |
|--------------------------|--------------------------------------|---|---------------|------------------------|
| Subscription name | Free Preview | Free Preview | Active | Cancel |
| Started on | 09/05/2017 | Rename | | |
| Primary key | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Show Regenerate | | |
| Secondary key | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | Show Regenerate | | |

Your applications

[+ Register application](#)




| Name | Category | State |
|-------------------|----------|-------|
| No results found. | | |

Looking to close your account?

[Close account](#)

Chapter 4: Letting Applications Understand Commands

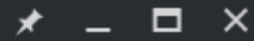
The screenshot shows the Microsoft Azure Marketplace interface. The search bar contains the text "language understanding intelligent service". The results are displayed in a table with the following columns: NAME, PUBLISHER, and CATEGORY.

| NAME | PUBLISHER | CATEGORY |
|--|-----------|-------------------------|
|  Language Understanding Intelligent Service (preview) | Microsoft | AI + Cognitive Services |
|  Cognitive Services | Microsoft | Data + Analytics |
|  Bing Speech API | Microsoft | AI + Cognitive Services |



LearningLuisService - Keys

Cognitive Services account - PREVIEW



Regenerate Key1

Regenerate Key2

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

RESOURCE MANAGEMENT

Keys

Pricing tier

Properties

Locks

Automation script

HELP

Quick start

ACCOUNT NAME

LearningLuisService



KEY 1

4[REDACTED]3



KEY 2

a[REDACTED]5



My Keys





Here you can set up the keys of your LUIS account; the programmatic API, Azure endpoint, and other external services keys ... [Learn more](#)

Programmatic API Key: `afb8dd68c6fb45759ade13ce946b1634`

[Reset Programmatic Api Key](#)

Endpoint Keys External Keys

[Add a new key](#) [Buy key on Azure](#)

| Key Name | Key | Actions |
|----------|-----|---|
| | | SmartHouseApplication   |
| | | POC   |

Add a new key ✕

Key Value (REQUIRED)

Key Name (OPTIONAL)

[Save](#) [Cancel](#)

Create a new app



Name (REQUIRED)

Culture (REQUIRED)

* App culture is the language that your app understands and speaks, not the interface language.

Description (OPTIONAL)

Key to use (OPTIONAL)

Create

SmartHouseA...

Version: 0.1

Settings

Dashboard

Intents

Entities

Prebuilt domains PREVIEW

Features

Train & Test

Publish App

← Back to App list

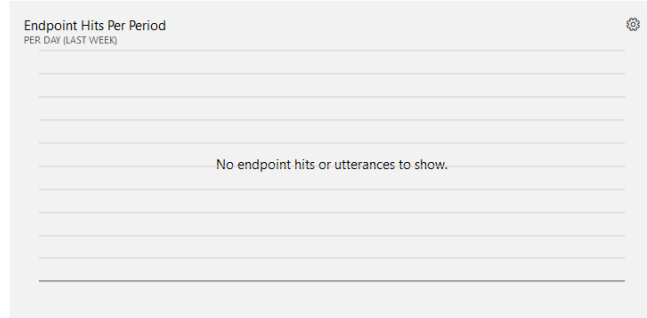
Overview

Facts & statistics about the app's data and the received endpoint hits at any period of time ... [Learn more](#)

Dashboard Suggested utterances

App Id: 6 3

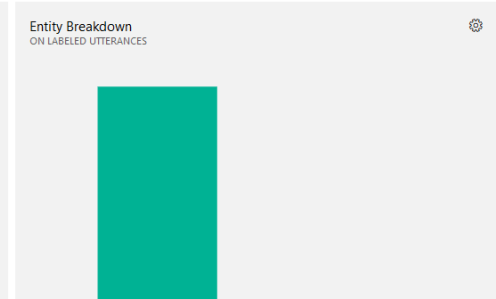
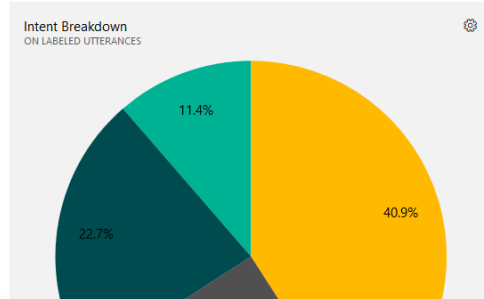
| | | | |
|--------------------------------------|--------------|---|--------------------------|
| App status | | | |
| Last train: Jan 12, 2017, 9:55:08 PM | | Last published: Jan 10, 2017, 10:23:14 PM | |
| Intent Count | Entity Count | List Entity Count | Labeled Utterances Count |
| 4 / 80 | 2 / 30 | 0 / 50 | 44 |



Total Endpoint Hits
SINCE APP CREATION

90

Key Usage



Add Entity ✕

Entity name (REQUIRED)

Entity type (REQUIRED)

Save
Cancel

Add Entity ✕

Entity name (REQUIRED)

Entity type (REQUIRED)

Hierarchical ▾

Child # 1 🗑️

Child # 2 🗑️

[+ Add child](#)

Save Cancel

Edit Phrase list ✕

Phrase list name (REQUIRED)

Value (REQUIRED)

Hide related values

Phrase list values (REQUIRED)

Kitchen × living room × bathroom × bedroom × office ×
hallway × garage ×

Related Values 🔗 Recommend

Add values and click 'Recommend' to get suggestions

Is exchangeable?
 Is active?

Save Cancel

Add Intent ✕

Intent name (REQUIRED)

Save
Cancel

GetRoomTemperature

Here you are in full control of this intent; you can manage its utterances, used entities and suggested utterances ... [Learn more](#)

Utterances (17) Entities in use (1) Suggested utterances

| Save ✕ Discard 🗑 Delete Reassign Intent | Labels view (Ctrl+E): Entities |
|---|---|
| <input type="checkbox"/> Utterance text | Suggested Intent |
| <input type="checkbox"/> get me the latest [\$NewsCategory] news . | 1 GetNews |

SetRoomTemperature


Here you are in full control of this intent; you can manage its utterances, used entities and suggested utterances ... [Learn more](#)

Utterances (11) Entities in use (1) Suggested utterances

Type a new utterance & press Enter ... ✕

| Save ✕ Discard 🗑 Delete Reassign Intent | Labels view (Ctrl+E): Entities |
|---|---|
| <input type="checkbox"/> Utterance text | Predicted Intent |
| <input checked="" type="checkbox"/> set the temperature in the [\$Rooms] to [\$temperature] | 0.98 SetRoomTempera... |


- Intents
 - Entities
 - PREVIEW
 - Prebuilt domains
 - Features
 - Train & Test
 - Publish App
-
- ← Back to App list



Calendar

The Calendar domain provides intents and entities related to calendar
... [Learn more](#)


Added



Camera

The Camera domain provides intents and entities related to using a ... [Learn more](#)

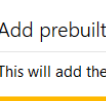
Not added



Communication

The Communication domain provides intents and entities related to ... [Learn more](#)

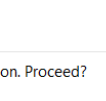
Not added



Entertainment

The Entertainment domain provides intents and entities related to ... [Learn more](#)


Not added



Events

The Events domain provides intents and entities related to booking ... [Learn more](#)

Not added



Fitness

The Fitness domain provides intents and entities related to tracking ... [Learn more](#)

Not added

Add prebuilt domain
✕

This will add the "Events" domain to the application. Proceed?

Yes
No

Intents

A listing of intents in the application. Click an intent to view/edit its details, or add a new intent ... [Learn more](#)

Add Intent
Add prebuilt domain intents

🔍

| Intent Name ↓ | Utterances | |
|----------------------------|------------|--------------------------------------|
| Calendar.Add | 18 | ✎ 🗑️ |
| Calendar.CheckAvailability | 10 | ✎ 🗑️ |
| Calendar.Delete | 9 | ✎ 🗑️ |
| Calendar.Edit | 11 | ✎ 🗑️ |
| Calendar.Find | 10 | ✎ 🗑️ |

Test your application

Use this tool to test the current and published versions of your application, to check if you are progressing on the right track ... [Learn more](#)

Train Application

Last train: Sep 11, 2017, 6:33:21 AM | Last publish: Sep 11, 2017, 6:39:00 AM

Interactive Testing Batch Testing

Enable published model

Labels view (Ctrl+E)

Entities

[Reset console](#)

Type a test utterance & press Enter →

show me the temperature in the [\$Rooms]

Current version results

Top scoring intent
None (0.2)

Other intents
SetRoomTemperature (0.12) GetRoomTemperature (0.08)
GetRoomTemperature2 (0) GetNews (0)
Calendar.CheckAvailability (-1) Calendar.Delete (-1)
Calendar.Edit (-1) Calendar.Add (-1) Calendar.Find (-1)

Publish App

Publish your app as a web service or as a chat bot. You can publish a new app or an updated version of a published app ... [Learn more](#)

Essentials

Latest publish: Approximately 8 month(s) ago

Endpoint Key^(REQUIRED)

[Add a new key to your account](#)

Publish settings

Endpoint slot

Slot info

Published version Id: 0.1

Published date: Jan 10, 2017, 10:23:14 PM

Endpoint url

<https://westus.api.cognitive.microsoft.com/luis/v2.0/apps/6erbose=true&q=>

[3?subscription-key=-](#)

[&timezoneOffset=0&v](#)

Add verbose flag

Enable Bing spell checker

Timezone

(GMT) Western Europe Time, London, Lisbon, Casat

Train

Publish

External Key Associations

[Add Key Association](#)

| | | |
|------|----------|---------|
| JSON | Raw Data | Headers |
| Save | Copy | |

```

query: "get the bedroom temperature"
topScoringIntent:
  intent: "GetRoomTemperature"
  score: 0.981855154
  actions:
    0:
      triggered: true
      name: "GetRoomTemperature"
      parameters:
        0:
          name: "Room"
          type: "Rooms"
          required: true
          value:
            0:
              entity: "bedroom"
              type: "Rooms"
              resolution:
intents:
  0:
    intent: "GetRoomTemperature"
    score: 0.981855154
    actions:
      0:
        triggered: true
        name: "GetRoomTemperature"
        parameters:
          0:
            name: "Room"
            type: "Rooms"
            required: true
            value:
              0:
                entity: "bedroom"
                type: "Rooms"
                resolution: Object
  1:
    intent: "None"
    score: 0.106256679
  2:
    intent: "SetRoomTemperature"
    score: 0.00191827933

```

Overview

Facts & statistics about the app's data and the received endpoint hits at any period of time ... [Learn more](#)

Dashboard Suggested utterances

App Id: 6

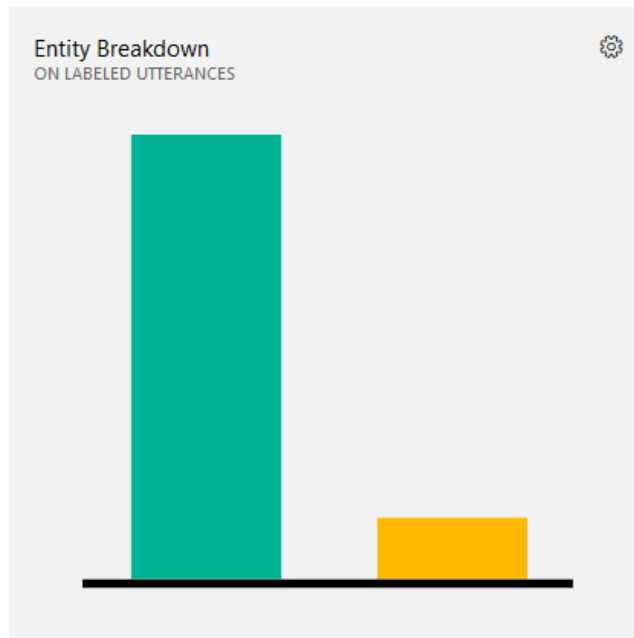
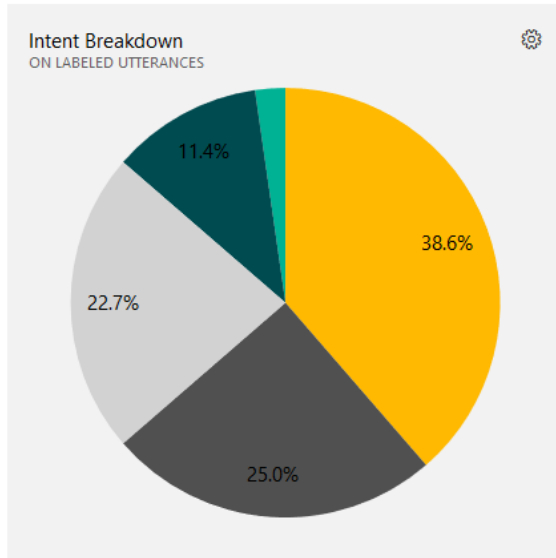
3

The screenshot shows a web application window titled "Smart Home" with three tabs: "Home", "LUIS", and "Administration". The "LUIS" tab is active. The interface is split into two main sections: "Input text" and "Results".

Input text: A text area containing the query "what is the bedroom temperature?".

Results: A text area displaying the following information:
Status: Succeeded
Summary: Top intent is GetRoomTemperature with score 0,8229306. Found 1 entities.
Entities found: 1
Entities:
Name: Rooms Value: bedroom

At the bottom left of the interface is a button labeled "Execute utterance".



| Watch 1 | |
|------------------|---|
| Name | Value |
| result | {Microsoft.Cognitive.LUIS.LuisResult} |
| DialogResponse | null |
| Entities | Count = 0 |
| Raw View | |
| Intents | {Microsoft.Cognitive.LUIS.Intent[3]} |
| [0] | {Microsoft.Cognitive.LUIS.Intent} |
| [1] | {Microsoft.Cognitive.LUIS.Intent} |
| [2] | {Microsoft.Cognitive.LUIS.Intent} |
| OriginalQuery | "can you tell me the bedroom temperature?" |
| Reply | {Method = {Microsoft.Cognitive.LUIS.LuisResult <.ctor> b_0(System.String)}} |
| TopScoringIntent | {Microsoft.Cognitive.LUIS.Intent} |
| Actions | {Microsoft.Cognitive.LUIS.Action[0]} |
| Name | "None" |
| Score | 0.6122963 |

GetRoomTemperature

Here you are in full control of this intent; you can manage its utterances, used entities and suggested utterances ... [Learn more](#)

Utterances (17) Entities in use (1) Suggested utterances

| <input type="button" value="Save"/> <input type="button" value="Discard"/> <input type="button" value="Delete"/> <input type="button" value="Reassign Intent"/> | | Labels view (Ctrl+E): |
|---|--|-----------------------|
| | | Entities |
| <input type="text" value="Search in utterances ..."/> <input type="button" value="Filter"/> | | |
| Utterance text | | Suggested Intent |
| <input type="checkbox"/> get me the latest [\$NewsCategory] news . | | 1 GetNews |

| Watch 1 | |
|----------------------|---|
| Name | Value |
| ▲ result | {Microsoft.Cognitive.LUIS.LuisResult} |
| DialogResponse | null |
| ▲ Entities | Count = 1 |
| ▲ [0] | {{Rooms, System.Collections.Generic.List`1[Microsoft.Cognitive.LUIS.Entity]}} |
| Key | "Rooms" |
| ▲ Value | Count = 1 |
| ▲ [0] | {Microsoft.Cognitive.LUIS.Entity} |
| EndIndex | 26 |
| Name | "Rooms" |
| ▶ Resolution | Count = 0 |
| Score | 0.8959288 |
| StartIndex | 20 |
| Value | "bedroom" |
| ▶ Raw View | |
| ▶ Non-Public members | |
| ▶ Raw View | |
| ▶ Intents | {Microsoft.Cognitive.LUIS.Intent[3]} |
| OriginalQuery | "can you tell me the bedroom temperature?" |
| ▶ Reply | {Method = {Microsoft.Cognitive.LUIS.LuisResult <.ctor> b_0(System.String)}} |
| ▲ TopScoringIntent | {Microsoft.Cognitive.LUIS.Intent} |
| ▶ Actions | {Microsoft.Cognitive.LUIS.Action[1]} |
| Name | "GetRoomTemperature" |
| Score | 0.491344 |

Chapter 5: Speaking with Your Application

Speaker profiles

Add new speaker profile

Add

Speaker profiles:

be4d3d7b-9b50-4b12-9180-ad0ba926b844

Delete speaker Start enrollment rec. Stop recording Reset enrollment

Status:
Enrollment finished. Enrollment status: Enrolled

Smart Home

Home LUIS Administration

Smart Home

Logon to group: Hi there, be4d3d7b-9b50-4b12-9180-ad0ba926b844

Image logon Start Camera Stop camera

Start Recording Stop Recording

Speaker profiles

Add new speaker profile

Add

Verification phrases:

i am going to make him an offer he cannot refuse
houston we have had a problem
my voice is my passport verify me
apple juice tastes funny after toothpaste
you can get in without your password
you can activate security system now
my voice is stronger than passwords

Speaker profiles:

f365b19e-3ada-4fa3-a72f-7ba3e513ad9b

Delete speaker Start enrollment rec. Stop recording Reset enrollment
Start verification Stop verification

Status

Enrollment status: Enrolled

Speaker profiles

Add new speaker profile

Add

Verification phrases:

i am going to make him an offer he cannot refuse
houston we have had a problem
my voice is my passport verify me
apple juice tastes funny after toothpaste
you can get in without your password
you can activate security system now
my voice is stronger than passwords

Speaker profiles:

f365b19e-3ada-4fa3-a72f-7ba3e513ad9b

Delete speaker Start enrollment rec. Stop recording Reset enrollment
Start verification Stop verification

Status

Verification result: Accept with High confidence.
Phrase used: houston we have had a problem

Speaker profiles

Add new speaker profile

Add

Verification phrases:

i am going to make him an offer he cannot refuse
houston we have had a problem
my voice is my passport verify me
apple juice tastes funny after toothpaste
you can get in without your password
you can activate security system now
my voice is stronger than passwords

Speaker profiles:

f365b19e-3ada-4fa3-a72f-7ba3e513ad9b

Delete speaker Start enrollment rec. Stop recording Reset enrollment
Start verification Stop verification

Status

Verification result: Reject with High confidence.

Phrase used:

Chapter 6: Understanding Text

MainView

Spell check | Text analysis | Linguistic analysis | Web LM

Input query:

petal

Pre context:

bike

Post context:

Execute spell check

Results:

Spell checking results:

Token is: petal
Suggestion: pedal - with score: 1

MainView

Spell check | Text analysis | Linguistic analysis | Web LM

Input query:

thisisalongwordineedtobreakup

Break words | Cond. Prob | Joint Prob | Next words

Results:

Candidate: this is a long word i need to break up, with probability: -19,081
Candidate: thisisalongword i need to break up, with probability: -20,153
Candidate: this is a long word i need to breakup, with probability: -20,297
Candidate: this is a longword i need to break up, with probability: -20,615
Candidate: thisisalongword i need to breakup, with probability: -21,369

MainView

Spell check Text analysis Linguistic analysis Web LM

Input query:

my name;is

Break words Cond. Prob Joint Prob Next words

Results:

Probability of 'is' being the next word in 'my name' is -0,262

MainView

Spell check Text analysis Linguistic analysis Web LM

Input query:

this, this is, my name is

Break words Cond. Prob Joint Prob Next words

Results:

Probability of 'this' to appear together is -2,282
Probability of 'this is' to appear together is -3,541
Probability of 'my name is' to appear together is -5,213

MainView

Spell check Text analysis Linguistic analysis Web LM

Input query:

Dette er en test på om jeg får norsk språk som resultat

Detect language Detect key phrases Detect sentiment

Results:

Detected language: Norwegian with score 1

MainView

Spell check Text analysis Linguistic analysis Web LM

Input query:

this is probably the coolest technology I have worked with

Detect language Detect key phrases Detect sentiment

Results:

Document ID: FirstId
Sentiment is positive, with a score of 0,8326857

MainView

Spell check Text analysis Linguistic analysis Web LM

Analyzers:

- POS_Tags
- Constituency_Tree
- Tokens

Input query:

given sentences of text, we can do linguistic analysis on this.

Analyse linguistics

Results:

```
"IN",
"DT",
"."
]
]
["(TOP (S (PP (VBN given) (NP (NP (NNS sentences)) (PP (IN of) (NN text)))) (, .) (NP (PRP
```

MainView

Spell check Text analysis Linguistic analysis Web LM

Input query:

what is the next big

Break words Cond. Prob Joint Prob Next words

Results:

Candidate: storm, with probability: -0,103
Candidate: thing, with probability: -0,926
Candidate: step, with probability: -2,029
Candidate: sports, with probability: -2,235
Candidate: move, with probability: -2,366

Chapter 7: Extending Knowledge Based on Context

Smart Home

Home LUIS Entity Linking Administration

Input text

For months, the four scientific instruments at the heart of the James Webb Space Telescope have been sealed in what looks like a huge pressure cooker. It's a test chamber that simulates the grueling operating conditions they will face after Webb is launched into orbit in 2018. But in fact, "pressure cooker" is an apt metaphor for the whole project. The infrared Webb observatory is the biggest, most complex, and most expensive science mission that NASA has ever attempted. Like that of its predecessor, the Hubble Space Telescope, Webb's construction has been plagued by redesigns, schedule slips, and cost overruns that have strained relationships with contractors, international partners, and supporters in the U.S. Congress. Lately the project has largely stuck to its schedule and its \$8 billion budget. But plenty could still go wrong, and the stakes are high: Both the future of space-based astronomy and NASA's ability to build complex science missions depend on its success.

Entity: Offset:

Results

Entities found: 5

Entity 'James Webb Space Telescope'
Score 0,993
Wikipedia ID 'James Webb Space Telescope'
Matches in text: 2

Text match: 'James Webb Space Telescope'
Found at position: 64

Text match: 'Webb'
Found at position: 241 364 534

Smart Home

Home LUIS Entity Linking Administration

Input text

For months, the four scientific instruments at the heart of the James Webb Space Telescope have been sealed in what looks like a huge pressure cooker. It's a test chamber that simulates the grueling operating conditions they will face after Webb is launched into orbit in 2018. But in fact, "pressure cooker" is an apt metaphor for the whole project. The infrared Webb observatory is the biggest, most complex, and most expensive science mission that NASA has ever attempted. Like that of its predecessor, the Hubble Space Telescope, Webb's construction has been plagued by redesigns, schedule slips, and cost overruns that have strained relationships with contractors, international partners, and supporters in the U.S. Congress. Lately the project has largely stuck to its schedule and its \$8 billion budget. But plenty could still go wrong, and the stakes are high: Both the future of space-based astronomy and NASA's ability to build complex science missions depend on its success.

Entity: Offset:

Results

Entities found: 1

Entity 'James Webb Space Telescope'
Score 1
Wikipedia ID 'James Webb Space Telescope'
Matches in text: 1

Text match: 'Webb'
Found at position: 241

Cognitive Services Recommendations UI-(Beta)

Projects Sample Code Documentat

Projects

Please make sure you are subscribed for the Recom

Already signed up?

Not signed up?

[Sign up for Recommendations by Azure Machine Learning](#)

Projects

FBTCogServices

+ ADD PROJECT



Projects > FBTCogServices


FBTCogServices

Model ID:

BUILDS


RULES

Step 1: Add a catalog file (schema)

 BROWSE FOR FILE...

Catalog uploaded

Step 2: Add usage files (schema)

 BROWSE FOR FILE...

Uploaded files

usage1.csv



Step 3: Create a build

NEW BUILD

×

FBTCogServices

Build Type

FBT

Description

Frequently Bought Together build definition, with default values

[Hide Advanced](#)

FBT Support Threshold

6

FBT Maximum Item Set Size

2

FBT Minimal Score

0

FBT Similarity Function

Jaccard (Balanced)

Enable Modeling Insights

False

RESET BUILD

Step 3: Create a build

NEW BUILD

| ACTIVE BUILD | BUILD ID | TYPE | STATUS | DATE CREATED | |
|----------------------------------|----------|------|---------|------------------------|--------------------|
| <input checked="" type="radio"/> | 1590442 | FBT | Success | 11/30/2016, 4:41:19 AM | SCORE |

Select seed items below, or search by name.

Search

| | | | | | |
|--|--|--|---|--|---|
| Disney Interactive Studios Infinity Figure-francesco | Word 2013 32/64 ES PKL Online DwnLd C2R NonCmcl NR | Windows Server CAL 2012 English MLP 5 User CAL | HP Stream 7 Tablet Case - Black #K2N05AA#ABL | 3D Systems Cube Cartridge Gen3 PLA White #391146 | HP ENVY 15 TouchSmart Silver |
| Ubisoft Assassin's Creed IV:Black Flag PC | Her Interactive Nancy Drew: #22 Trail of the Twister PC Game ESD | Take 2 Nickelodeon Dance Xbox 360 | Trina Turk Printed Sleeve for Surface Pro 3 - Fall 2 Floral #TTRKSP-001-F2F | Belkin Mini Displayport to HDMI 6' Cable | ADONIT Jot Mini Fine Point Stylus- Turquoise #ADJMT |
| Disney Interactive Studios Infinity Figure - Rapunzel | HP Pavilion TouchSmart 11 Silver | OfficePro 2013 32/64 ES PKL Online NaOnly DwnLd C2R NR | GOPRO LCD Touch BacPac #ALCDB-303 | Nokia Micro USB Car Charger DC-15 | EA FIFA World Cup 2014 Brazil Xbox 360 |

Page 1

Cart

Nokia Micro USB Car
Charger DC-15

Recommendations

Microsoft Online Coupon
SKU
(0.00953)



I2ICogServices

Build Type

Recommendation

Description

I2I Default Build

Hide Advanced

Number of model iterations

40

Number of Model Dimension

20

Item Cut-off Lower Bound

2

Item Cut-off Upper Bound

User Cut-off Lower Bound

2

User Cut-off Upper Bound

Enable Modeling Insights

False

Enable U2I

True

RESET

BUILD

Model

I2ICogServices

Products

Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr

Recommend items

Recommendations

Recommended items:

Score: 0,7226764

Reason: People who like 'Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr' also like 'Cmplt Warranty USD Surface Pro2/Pro3'
Item ID: DQF-00248

Item Name: Cmplt Warranty USD Surface Pro2/Pro3

Score: 0,7202604

Reason: People who like 'Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr' also like 'Type Cover 3 SC English Hdwr Black'
Item ID: RD2-00080

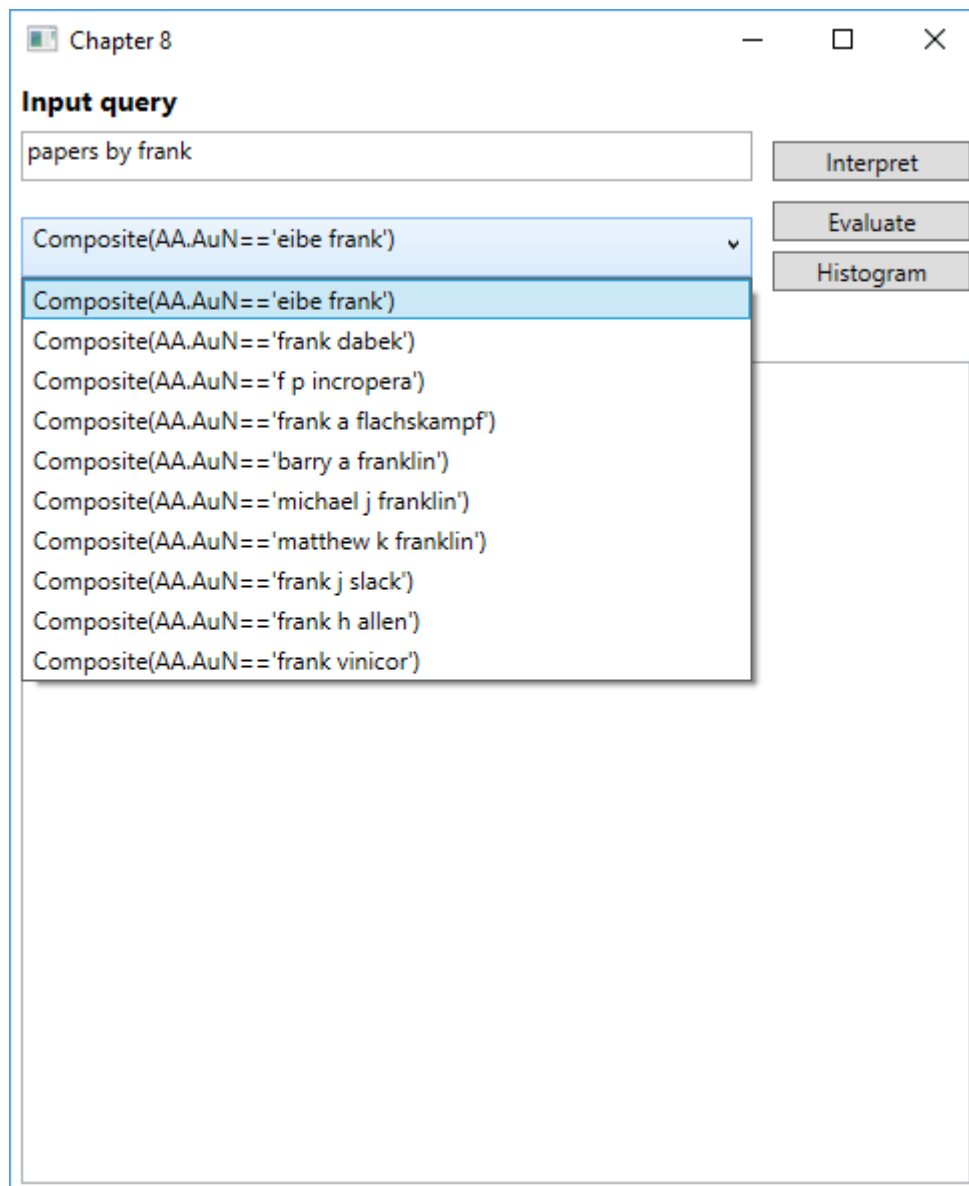
Item Name: Type Cover 3 SC English Hdwr Black

Score: 0,7189347

Reason: People who like 'Wedge Touch Mouse Bluetooth Surface Edition EN/XD/ES Hdwr' also like 'DckngStn-SrfPro3'
Item ID: 3Q9-00001

Item Name: DckngStn-SrfPro3-SC EN/XD/ES Hdwr

Chapter 8: Querying Structured Data in a Natural Way



Input query

papers by frank

Interpret

Composite(AA.AuN=='frank dabek')

Evaluate

Histogram

Results

Expression Composite(AA.AuN=='frank dabek') returned 10 entities

Paper title: chord a scalable peer to peer lookup protocol for internet applications
Date: 2003-02-01
Authors:
ion stoica
r morris
david libennowell
david r karger
m f kaashoek
frank dabek
hari balakrishnan

Paper title: wide area cooperative storage with cfs
Date: 2001-10-21
Authors:
frank dabek
m frans kaashoek
david r karger
robert morris
ion stoica

Paper title: vivaldi a decentralized network coordinate system
Date: 2004-08-30
Authors:
frank dabek

Input query

papers by frank

Interpret

Composite(AA.AuN='frank dabek')

Evaluate

Histogram

Results

Total number of matching entities: 19

Attribute: Y

- Value '2003' was found 5 times
- Value '2001' was found 2 times
- Value '2004' was found 4 times
- Value '2010' was found 1 times
- Value '2006' was found 4 times
- Value '2002' was found 2 times
- Value '1998' was found 1 times

Attribute: F.FN

- Value 'computer science' was found 15 times
- Value 'distributed computing' was found 11 times
- Value 'computer network' was found 6 times
- Value 'world wide web' was found 5 times
- Value 'chord' was found 4 times
- Value 'routing' was found 2 times
- Value 'the internet' was found 2 times
- Value 'steady state' was found 1 times
- Value 'application software' was found 1 times
- Value 'routing protocol' was found 1 times

Click [here](#) to see details about the web service

Enter a query below to see interpretations. After 1 second, entities and histograms will be fetched for the first interpretation. You can click on other interpretations to fetch objects and histograms for them.

papers by

Interpret URL: <interpret?complete=1&results=0&query=papers by>

| |
|---|
| papers by james r bergen |
| papers by hugh r wilson |
| papers by paramvir bahl |
| papers by bishnu s atal |
| papers by suzanne l hanauer |
| papers by andrew blake |
| papers by zhengyou zhang |
| papers by hugues hoppe |

Evaluate URL:

[evaluate?attributes=*&expr=Composite\(Author.Name=='james r bergen'\)](evaluate?attributes=*&expr=Composite(Author.Name=='james r bergen'))

```
{
  "logprob": -13.963,
  "Title": [
    "a four mechanism model for threshold spatial vision"
  ],
  "Year": [
    1979
  ],
  "Keyword": [],
  "Author": [
    {
      "id": [
        2225066386
      ],
      "Name": [
        "hugh r wilson"
      ],
      "Affiliation": [
        "microsoft"
      ]
    }
  ]
}
```

CalcHistogram URL:

[histogram?attributes=*&expr=Composite\(Author.Name=='james r bergen'\)](histogram?attributes=*&expr=Composite(Author.Name=='james r bergen'))

```
{
  "attribute": "Title",
  "distinct_values": 1,
  "total_count": 1,
  "histogram": [
    {
      "value": "a four mechanism model for threshold spatial vision",
      "logprob": -13.963,
      "count": 1
    }
  ]
}




{
  "attribute": "Year",
  "distinct_values": 1,
  "total_count": 1,
  "histogram": [
    {
      "value": 1979,

```

Chapter 8

Endpoint:

Input query

| QnA Maker <small>PREVIEW</small> | | | | |
|---|-----------------------|-----------------------|---------------------------|---|
| My services | Create new service | Documentation | Feedback | |
| My QnA services | | | | |
| Service Name | Last modified | Last published | Sample Code | |
|  Learning Cognitive Services | Feb 07, 2017 05:29 AM | Feb 07, 2017 05:28 AM | View Code |   |

Creating a QnA service

Add sources which contain question and answer pairs you would like to include in your knowledge base.

What would you like to name your service?

The service name is for your reference and you can change it at anytime.

SERVICE NAME

Learning Cognitive Services

What is the URL of your company FAQ page?

This will help us gather relevant data about your business and extract QnA pairs that you can later use in your bot. Here is an [example](#) of a page that would work.

FAQ URL(S)

<https://www.microsoft.com/en-us/software-download/faq>

[+ Add another](#)

No FAQ URL? No worries. Upload files containing your question and answer pairs.

Supported formats are .tsv, .pdf, .doc, .docx, each under 2MB. Upload up to five files containing questions and answers in sequence. [See an example](#).

FAQ FILES

Select file...

Would you prefer to enter questions and answers manually? No problem.

You will be able to do it in the next step.

STARTING FROM SCRATCH

Learning Cognitive Services

[Download Knowledge Base](#) | [Replace Knowledge Base](#)

[Save and retrain](#)

[Publish](#)

Retrained a few seconds ago

| Knowledge Base | KNOWLEDGE BASE 27 QnA pairs | | + Add new QnA pair |
|----------------|--|--|------------------------------------|
| Test | Question | Answer | |
| Settings | ^ Original source: Editorial | | |
| | 1 Hi | Hello | |
| | ^ Original source: https://www.microsoft.com/en-us/software-download/faq | | |
| | 1 How do I find my Windows product key? | Windows 8.1 and Windows 10The product key is located inside the product packaging, on the receipt or confirmation page for a digital purchase or in a confirmation e-mail that shows you purchased Windows. If you purchased a digital copy from [Microsoft Store](http://www.microsoftstore.com/store/msusa/en_US/home), you can locate your product key in your Account under Digital Content. Windows 7The product key is located inside the box that the Windows DVD came in, on the DVD, on the receipt or confirmation page for a digital purchase or in a | |

| KNOWLEDGE BASE 28 QnA pairs | | + Add new QnA pair |
|--|--------------------|---------------------------------|
| Question | Answer | |
| ^ Original source: Editorial | | |
| 1 | Hi | Hello |
| 2 | How are you doing? | I'm doing great, how about you? |
| ^ Original source: https://www.micr... d/faq | | |

Knowledge Base

TEST

Test

Settings

Chat

Manufacturer or Reseller may be removed during installation.

Windows 8.1 & 10: The product key may be embedded on the motherboard or may be on the Certificate of Authenticity sticker on the bottom of the device.

Windows 7: For devices that came with Windows 7 pre-installed, the product key may be on the Certificate of Authenticity sticker on the bottom of the device.

For more information about Windows product keys and genuine Microsoft products, see [What is a product key](#) and [How to Tell](#) site.

Learning Cognitive Services - 1 min ago

what is wrong with my iso download? You - Now

If you become disconnected while files are being downloaded through your web browser, reconnect to the internet and retry your download.

[Download chat logs](#) | [Upload chat logs](#)

Type your message... ➤

Choose the most appropriate answer from these alternatives.

The media creation tool (...)

You can use the ISO file ...

If you become disconnecte...

None of the above

Provide multiple alternative phrasings to the question, to broaden the knowledge base.

Add alternative here +

what is wrong with my iso... X

Learning Cognitive Services

Your service has never been deployed.

Review your changes

| Source | QnA in production | QnA in current draft | QnA added | QnA deleted |
|---|-------------------|----------------------|-----------|-------------|
| https://www.microsoft.com/en-us/software-download/... | 0 | 27 | 27 | 0 |
| Editorial | 0 | 2 | 2 | 0 |

[Download Diff File](#)

Cancel

Publish

Success! Your service has been deployed. What's next?

You can always find the deployment details in your service's settings.

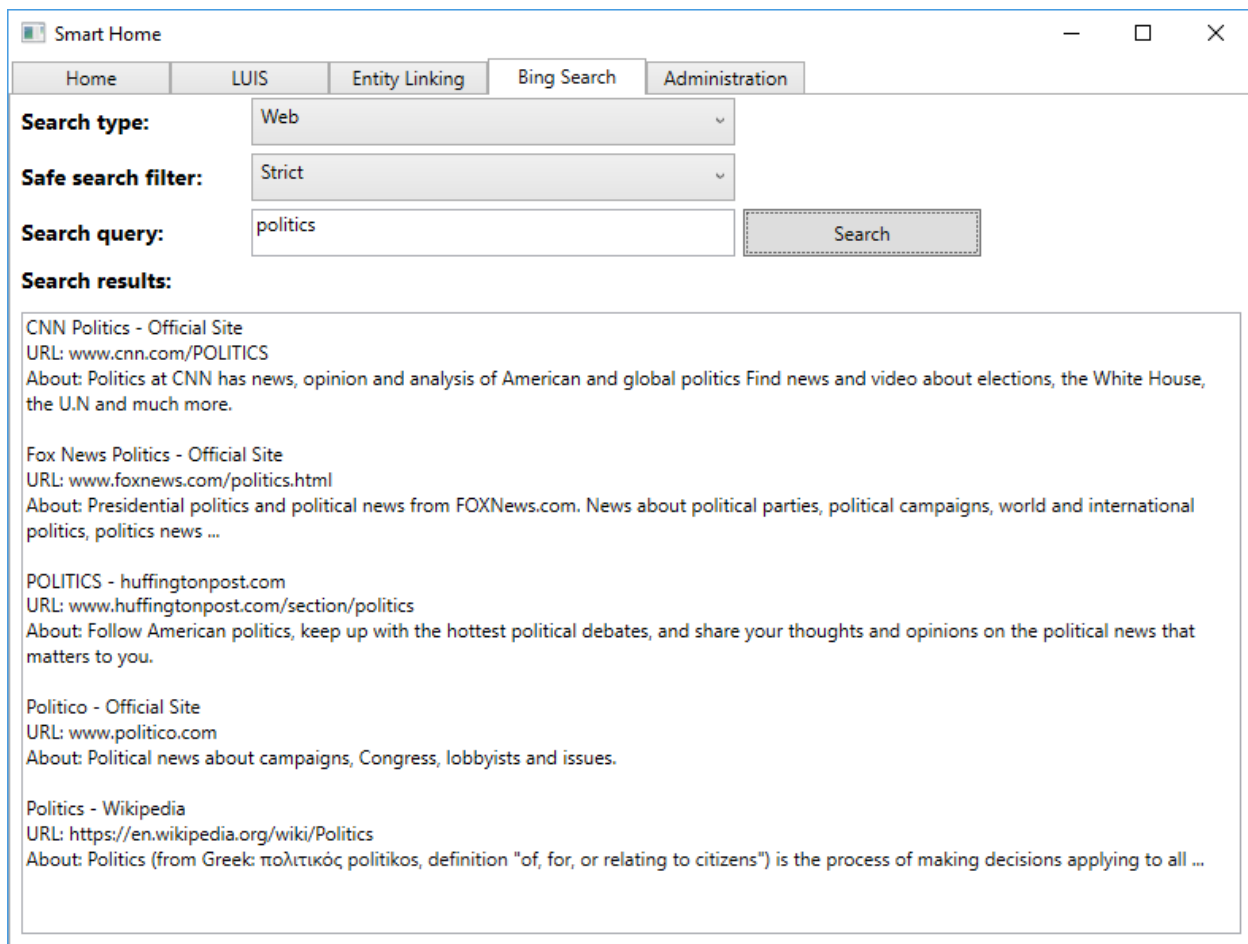
Use the below HTTP request to build your bot. [Learn how.](#)

| | |
|---------------------|--|
| Sample HTTP request | POST /knowledgebases/ft 55/generateAnswer Host: https://westus.api.cognitive.microsoft.com/qnamaker/v1.0 Ocp-Apim-Subscription-Key: c3 ;744 Content-Type: application/json {"question":"hi"} |
|---------------------|--|

Need to fine-tune and refine? Go back and keep editing your service.

[Edit Service](#)

Chapter 9: Adding Specialized Searches



The screenshot shows a web application window titled "Smart Home" with a navigation bar containing "Home", "LUIS", "Entity Linking", "Bing Search", and "Administration". The "Bing Search" tab is active. The search interface includes a "Search type" dropdown set to "Web", a "Safe search filter" dropdown set to "Strict", and a search query input field containing "politics". A "Search" button is positioned to the right of the input field. Below the search controls, the "Search results:" section displays five search results, each with a title, URL, and a brief description:

- CNN Politics - Official Site**
URL: www.cnn.com/POLITICS
About: Politics at CNN has news, opinion and analysis of American and global politics Find news and video about elections, the White House, the U.N and much more.
- Fox News Politics - Official Site**
URL: www.foxnews.com/politics.html
About: Presidential politics and political news from FOXNews.com. News about political parties, political campaigns, world and international politics, politics news ...
- POLITICS - huffingtonpost.com**
URL: www.huffingtonpost.com/section/politics
About: Follow American politics, keep up with the hottest political debates, and share your thoughts and opinions on the political news that matters to you.
- Politico - Official Site**
URL: www.politico.com
About: Political news about campaigns, Congress, lobbyists and issues.
- Politics - Wikipedia**
URL: <https://en.wikipedia.org/wiki/Politics>
About: Politics (from Greek: πολιτικός politikos, definition "of, for, or relating to citizens") is the process of making decisions applying to all ...

Smart Home

Home LUIS Entity Linking Bing Search Administration

Search type: News

Safe search filter: Moderate

Search query: manchester united

Search results:

Manchester United Transfer News: Latest Rumours on Nelson Semedo Before January
Published: 28.12.2016 09.45.00
Manchester United are reportedly planning a £35 million move for Benfica right-back Nelson Semedo to be a long-term replacement for Antonio Valencia. According to the Mirror, talks have already begun over a move to Old Trafford for the Portugal ...

Manchester United shun Benfica's Victor Lindelof after defence improves
Published: 28.12.2016 20.07.00
• Talks over Sweden defender were in progress for several weeks • United have conceded only two goals in a winning run of five games
Manchester United have opted against making a move for the Benfica defender Victor Lindelof after José Mourinho ...

Manchester United target Leon Bailey could leave Genk in January
Published: 28.12.2016 19.44.00
Leon Bailey has been linked with Manchester United and Leicester. Leon Bailey, a reported target for Manchester United and Leicester City, has said he could follow in Wilfred Ndidi's footsteps by leaving Genk. With Ndidi set to wrap up a move to Leicester ...

Victor Lindelof: Manchester United will not bid for Benfica centre-back
Published: 28.12.2016 19.01.00
Victor Lindelof made his debut for Benfica during the 2013-14 season and has 11 caps for Sweden Manchester United will not make a move for Benfica defender Victor Lindelof during the January transfer window. United manager Jose Mourinho was reported to be ...

Chapter 9

Search type: ImageSearch Search query: soccer Search

Image search results:

of results: 933

Image name: How I got Fired from my sons soccer team | Children's Directory
Image size: 1829573 B
Image host: childrensdirectory.net/2014/10/how-i-got-fired-from-my-sons-soccer...
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32

Image name: Pics Photos - About Soccer About Soccer
Image size: 269084 B
Image host: funny-quotes.picphotos.net/about-soccer-about-soccer/data3.whicdn...
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32

Image name: Barcelona Needs Depth, but It's Losing It Every Day - NYTimes.com
Image size: 396765 B
Image host: www.nytimes.com/2013/07/17/sports/soccer/barcelona-needs-depth-but...
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32

Image name: Soccer Images | Crazy Gallery
Image size: 5941362 B
Image host: www.crazygallery.info/soccer.html
Image URL: http://www.bing.com/cr?IG=871E010D672D402DBFCA2B584314AB58&CID=32

Chapter 9

Search type: VideoSearch Search query: cats Search

Video search results:

of results: 1000

Video name: Cats the Musical: Jellicle Songs
Video duration: PT3M20S
Video URL: <https://www.youtube.com/watch?v=tLvMjWHMniU>
Publisher: YouTube

Video name: Cats Meowing and Talking Compilation Video
Video duration: PT3M31S
Video URL: <https://www.youtube.com/watch?v=fiAIQA8-Yks>
Publisher: YouTube

Video name: Funny Cats Compilation 2016 - Best Funny Cat Videos Ever ...
Video duration: PT3M48S
Video URL: <https://www.youtube.com/watch?v=njSyHmcEdkw>
Publisher: YouTube

Video name: TALKING CATS - COMPILATION, CHATTERING CATS, TICKYUL
Video duration: PT6M20S
Video URL: <https://www.youtube.com/watch?v=57zOdS9pB38>
Publisher: YouTube

Chapter 10: Connecting the Pieces

Add Entity ✕

Entity name (REQUIRED)

Entity type (REQUIRED)

Save Cancel

Add Intent ✕

Intent name (REQUIRED)

Save Cancel

GetNews

Here you are in full control of this intent; you can manage its utterances, used entities and suggested utterances ... [Learn more](#)

Utterances (5) Entities in use (1) Suggested utterances

| Type a new utterance & press Enter ... | | × |
|--|--|----------------------------|
| Save Discard Delete Reassign Intent ▾ | | |
| Labels view (Ctrl+E): Entities ▾ | | Search in utterances ... 🔍 |
| <input type="checkbox"/> | Utterance text | Predicted Intent |
| <input type="checkbox"/> | what is the latest from [\$NewsCategory] ? | 0.92 GetNews |

Smart Home

Home LUIS Entity Linking Bing Search Administration

Input text

Results

Result message: STT completed with status: RecognitionSuccess

Retrieved the following results:
Read me the latest Sports News.

Calling LUIS with the top result

Status: Succeeded
Summary: Top intent is GetNews with score 0,9797508. Found 1 entities.

Action: GetNews
Action triggered: True

Record command Execute utterance

