



[微软自然语言理解 LUIS 服务实验手册]

[www.luis.ai]

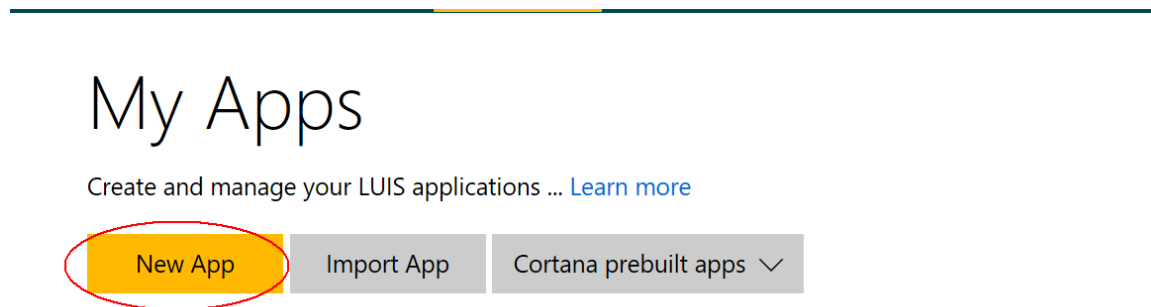
Abstract

微软语言理解智能服务 (LUIS) 提供了一些简单工具，可让用户构建自己包括意图和实体的语义模型，并在此基础上快速部署成在线 API 服务接口，通过 Http 请求的方式解析用户自然语言背后的意图和关键信息。

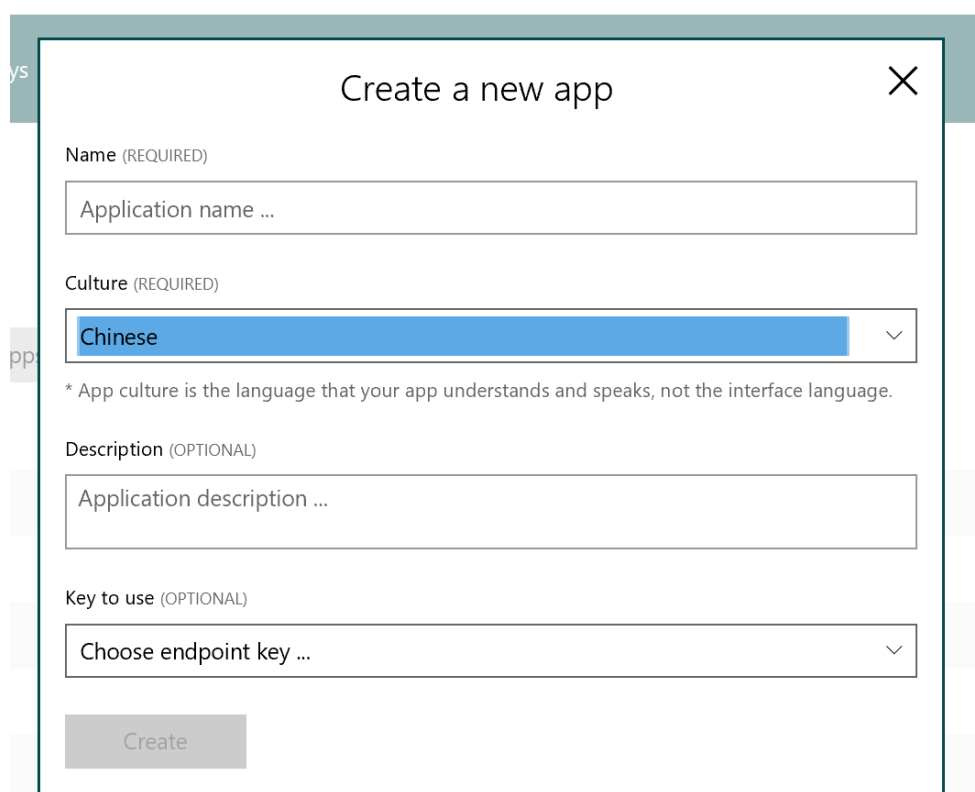
Yuheng Ding (CSE)

1. 新建 LUIS 服务

打开链接 <https://www.luis.ai/> 并注册一个新账号，然后点击“New App”创建新应用：



在“Add a new application”对话框中，输入应用程序名称、用途等基本信息，然后在“Choose Application Culture”中选择中文，然后点击“Create”



在界面左侧的 Tab 中，点击“Entities”，并为新建的 Add custom entity 起名为“地点”，然后点击 Save，如下图

天气查询

Dashboard

Intents

Entities

Features

Train & Test

Publish App

Dashboard

(App id: f4675141-9af5-4aea-b293-1434df885022)

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

App status

Last train: Not trained yet

Last published: Not published yet

Intent Count

1 / 80

Entity Count

0 / 30

Prebuilt Entity Count

0 / 8

Labeled Utterances Count

0

Endpoint Hits Per Period

Total Endpoint Hits

Add Entity

Entity name (REQUIRED)

地点

Entity type (REQUIRED)

Simple

Save

Cancel

点击“Intents”，在 Add Intent 界面中，输入“查询天气”作为 Intent 名称，然后输入例句，如下图所示：

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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

Search for intent ...

Intent Name

Utterances

None

0

No custom intents yet. Add your first intent now.

← Back to App list

Add Intent

Intent name (REQUIRED)

查询天气

Save

Cancel

点击 **Save** 之后，在出现的 **Utterance** 里面输入北京天气如何，点击回车，用鼠标选择例句中的“北京”二字，并将其标注为“地点”，然后点击“**Save**”，如下图所示：

<input type="checkbox"/>	Utterance text	Predicted Intent
<input checked="" type="checkbox"/>	[北京] 天气如何	Not trained

Search/Add entity ...

地点

1

点击左边的“**Train & Test**”按钮，完成训练

天气查询

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← Back to App list

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 Please train your application before testing.

Interactive Testing Batch Testing

☐ Enable published model Labels view (Ctrl+E) Entities Reset console

Please train your application before testing.

Train

训练完成之后，就可以测试了

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: Apr 13, 2017 10:47:19 AM | Last publish: **Not published yet.**

Interactive Testing Batch Testing

☐ Enable published model

Labels view (Ctrl+E) Entities [Reset console](#)

Type a test utterance & press Enter →

[地点] 天气怎么样

Current version results

Top scoring intent
查询天气 (1)

Other intents
None (0.09)

对于最终程序中使用需要“Publish”，点击“Publish App”

“

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: You haven't published your application yet

Endpoint Key (REQUIRED)

~~3da16973cc744b50b06e7251d9-1146d~~

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

Publish settings

Endpoint slot

Production

This slot has no published application.

Train

Publish

这里的 Endpoint Key 可以使用免费测试的 1000 条

点击上图中“[Add a new key to your account](#)”，打开之后复制 Programmatic API Key,点击下面 Add A NEW KEY，粘贴刚刚复制的那个 key 到 key value 这一行，点击 save。

Language Understanding My apps My keys Docs Pricing Support About

My Keys

Here you can set up the keys of your LUIS account; the programmatic API key is used to access the LUIS API.

Programmatic API Key: 781479ab342a42f88c...

Reset Programmatic Api Key

Endpoint Keys External Keys

Add a new key Buy key on Azure

Add a new key

Key Value (REQUIRED)

Type Key here ...

Key Name (OPTIONAL)

Type optional name here ...

Save Cancel

Key Name	Key	Assigned apps
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然后回到 Publish App 页面，endpoint key 就可以选了，选好之后就可以 publish 了。将 URL 中的 ID 和 subscription-key 记下来，后面需要用到

Publish settings

Endpoint slot

Production

Slot info

Published version Id: 0.1

Published date: Apr 14, 2017 9:43:33 AM

Endpoint url

<https://westus.api.cognitive.microsoft.com/luis/v2.0/apps/5f2b1e1e-152b-4b11-8b11-152b1e1e152b?subscription-key=al...&timezoneOffset=0.0&verbose=true&q=>

注意 ID 和 Key 的位置分别为：

<https://westus.api.cognitive.microsoft.com/luis/v2.0/apps/ID?subscription-key=KEY&timezoneOffset=0.0&verbose=true&q=>

For more Info : <https://docs.microsoft.com/en-us/azure/cognitive-services/luis/home>