

IBM Watson

Speech to Text customization and recognition GUI tool manual

Watson Service, IBM Japan

2017.08.07

Version 1.0



Reference, prerequisites

- Adding words
 - <https://www.ibm.com/watson/developercloud/doc/speech-to-text/custom.shtml#addWords>
- Adding Corpus
 - <https://www.ibm.com/watson/developercloud/doc/speech-to-text/custom.shtml#addCorpora>
- API reference
 - <https://www.ibm.com/watson/developercloud/speech-to-text/api/v1/>
- API Explorer
 - <https://watson-api-explorer.mybluemix.net/apis/speech-to-text-v1>
- Watson Developer Tools
 - <https://www.ibm.com/watson/developercloud/developer-tools.html>

1. CUSTOM LANGUAGE MODEL



1-1. Create new custom language models (CLM)

Fill in the blanks and click buttons in the order shown in right figure.

The screenshot shows the 'Speech To Text Customize ver.8.1' window. It contains the following elements and numbered steps:

- Endpoint:** A text field containing 'https://stream.watsonplatform.net/speech-to-text/api'.
- Username:** A text field containing a blueed-out username, with a red circle ① next to it.
- Password:** A password field with masked characters.
- Manage custom language models:**
 - name:** A text field containing 'Test', with a red circle ② next to it.
 - Model:** A dropdown menu showing 'ja-JP_BroadbandModel'.
 - Description:** A text field containing 'This is test.', with a red circle ③ next to it.
 - Create:** A button to the right of the description field.
 - List Models:** A button on the left side, with a red circle ④ next to it.
 - Delete:** A button below 'List Models', with a red circle ⑤ next to it.
 - Delete All:** A button below 'Delete'.
- Model List:** A text area displaying the following information:
 - Name: Test , ID: 68a67ab0-65e0-11e7-a2b2-17481cb0c9b8
 - Name: Test , ID: 6dda2190-7b33-11e7-85f6-435b156592c7

1-2. Add and delete Corpora

1. Select your CLM.
2. Select a corpus file.
3. Enter corpus name then add corpus.
4. List up corpora and confirm the status is "ANALYZED" rather "BEING_PROCESSED".

Format of txt :
Only UTF-8 is available

List Models

Delete

Delete All

Name: Test , ID: 68a67ab0-65e0-11e7-a2b2-17481cb0c9b8

Name: Test , ID: 6dda2190-7b33-11e7-85f6-435b156592c7

Select Model

6dda2190-7b33-11e7-85f6-435b156592c7

Get Status

csv File

Add Words

Get Words

Delete Words

Corpus txt File

ation/training data/healthcare.txt

Corpus Name

HealthCare

Add Corpus

HealthCare, BEING_PROCESSED

List Corpora

Delete Corpus

```
1 |Am I at risk for health problems during travel?
2 |Some people are more likely to have health problems when traveling outside the United States.
3 |How Is Coronary Microvascular Disease Treated?
4 |If you're diagnosed with coronary MVD and also have anemia, you may benefit from treatment for that condition.
```

List Models

Delete

Delete All

Name: A new custom model name , ID: b25569e0-443f-11e7-85f6-435b156592

Select Model

b25569e0-443f-11e7-85f6-435b156592c7

Get Status

PENDING

csv File

Words_all_Abbr_num_unit.csv

Corpus txt File

ation/training data/health

Add Words

T&DI,[T. and D. I.]
UIC,[U. I. C]
V,[volt, volts]
VAC,[V. A. C.]
W/m2,[watt per square mete
dB,[decibel, decibels]
hrs,[hours]
kN,[kilonewton, kilonewtons]

Corpus Name

HealthCare

Get Words

Delete Words

Add Corpus

List Corpora

Delete Corpus

HealthCare, BEING_PROCESS

1-4. Training

Select Model

b25569e0-443f-11e7-85f6-435b156592c7

Get Status

PENDING

csv File

Words_all_Abbr_num_unit.csv

Add Words

Get Words

T&DI,[T. and D. I.]
UIC,[U. I. C]
V,[volt, volts]
VAC,[V. A. C.]
W/m2,[watt per square mete
dB,[decibel, decibels]
hrs,[hours]
kN,[kilonewton, kilonewtons]

Delete Words

Corpus txt File

ation/training data/healthcare.txt

Corpus Name

HealthCare

Add Corpus

HealthCare, BEING_PROCESSED

List Corpora

Delete Corpus

① Training

Status

現在 62 個の単語が登録されています。

2. SPEECH RECOGNITION



2-1. Recognize wav file

Fill in the blanks and click buttons in the order shown in right figure.
(5 and 6 are optional)

STT Recognize ver.4.1 smartformat-en-mic

Endpoint:

① Username: Password:

② Model:

☐ Use Customization

⑤ ☒ Time Stamp ☐ Output Text File (only wav file) ⑥

③ wav File Start mic input

④ Upload Stop mic input

[2.6]my greatest strength is that I have a lot of initiative I'm looking for a better way to do things that were

2-2. Recognize mic input

Fill in the blanks and click buttons in the order shown in right figure.
(5 is optional)

STT Recognize ver.4.1 smartformat-en-mic

Endpoint

① Username Password

② Model

⑤ ☐ Use Customization

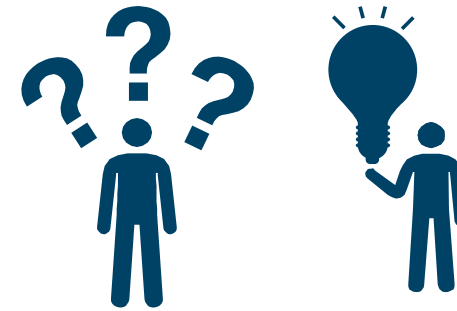
☐ Time Stamp
☐ Output Text File (only wav file)

wav File ③ Start mic input

Upload ④ Stop mic input

[1.3]Mike chick
[7.27]test

3. TROUBLE SHOOTING



3-1. FAQ

- “synchronized error” is shown when adding Words
 - Connection error.
- How can delete a single Word?
 - That function is not supported yet. Delete all the Words and then newly add all Words from csv file.
- Transcription of wave file is interrupted.
 - Issue that should be solved. Please split your wave file using wavFileSplitter_alpha.jar
- Other error
 - Restart the application.