IBM Watson

Speech to Text customization and recognition GUI tool manual

Watson Service, IBM Japan

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Version 1.0

IBM

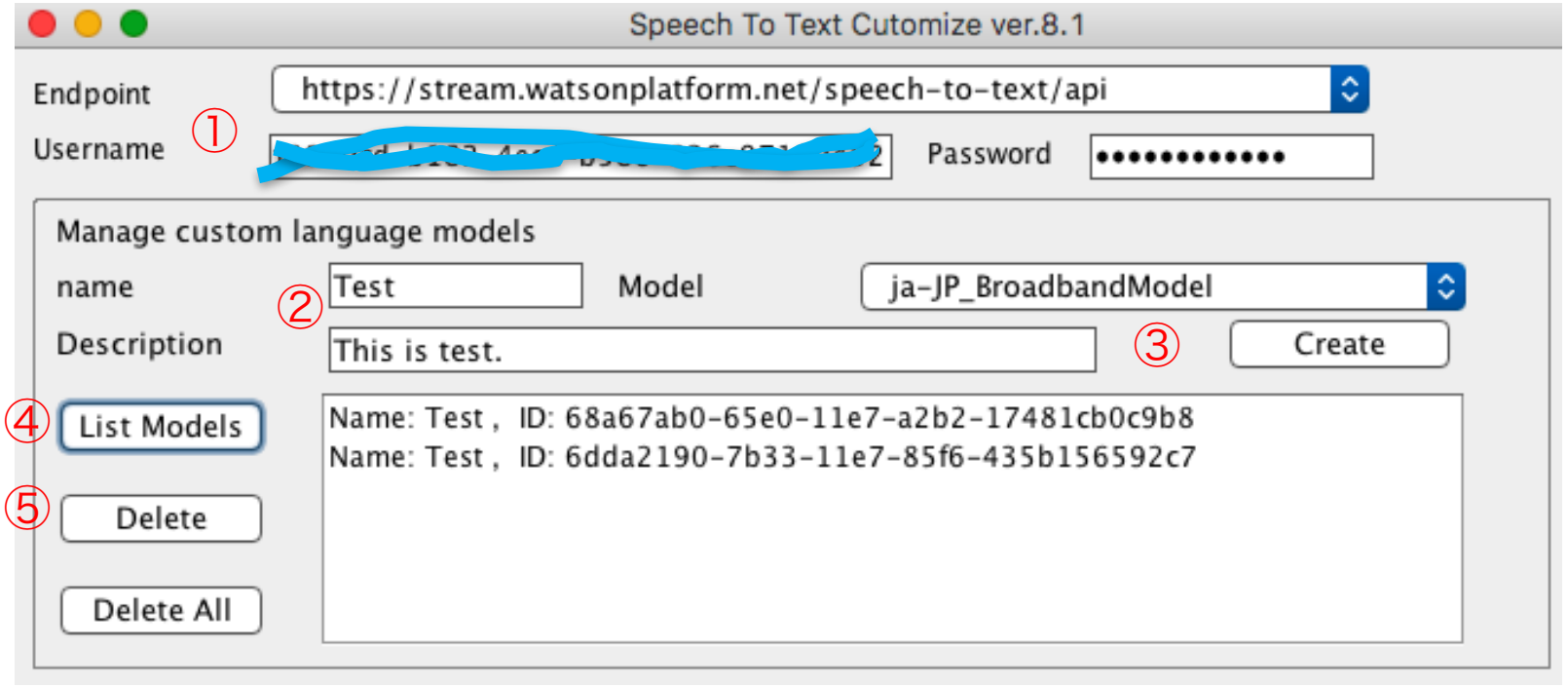
Reference, prerequisites

- 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

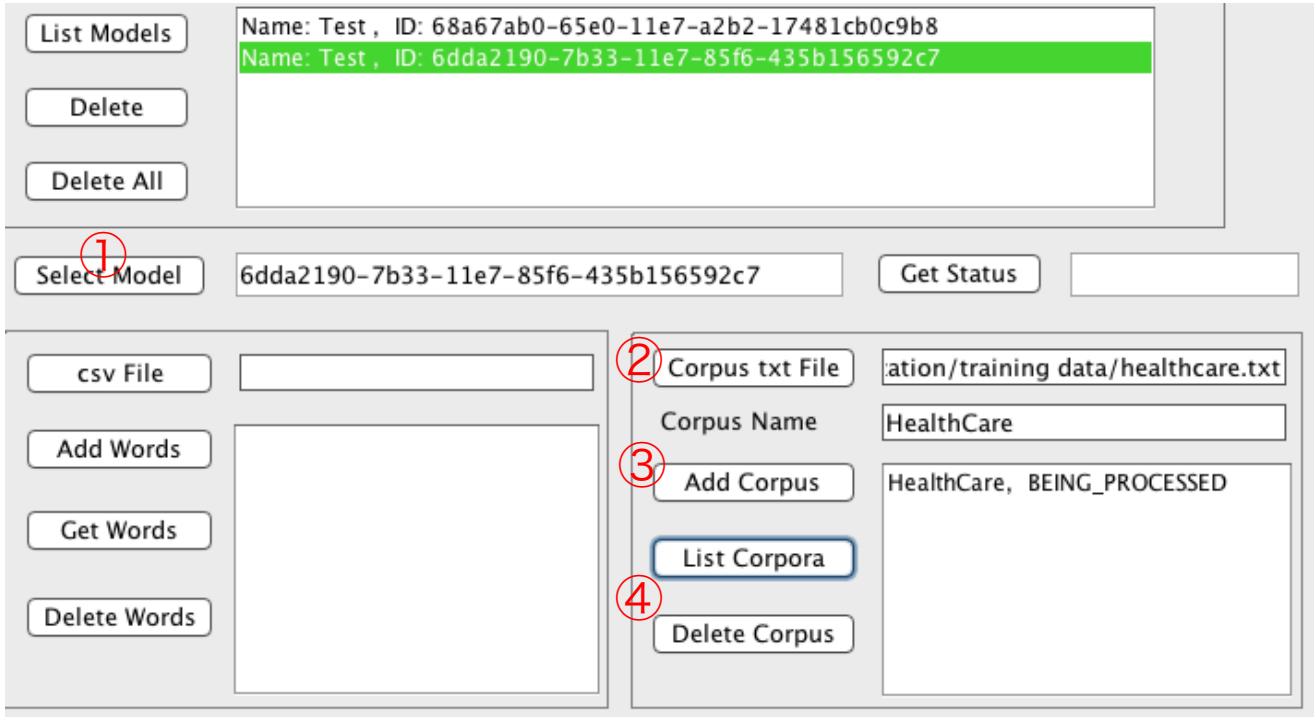
1-1. Create new custom language models (CLM)

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



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

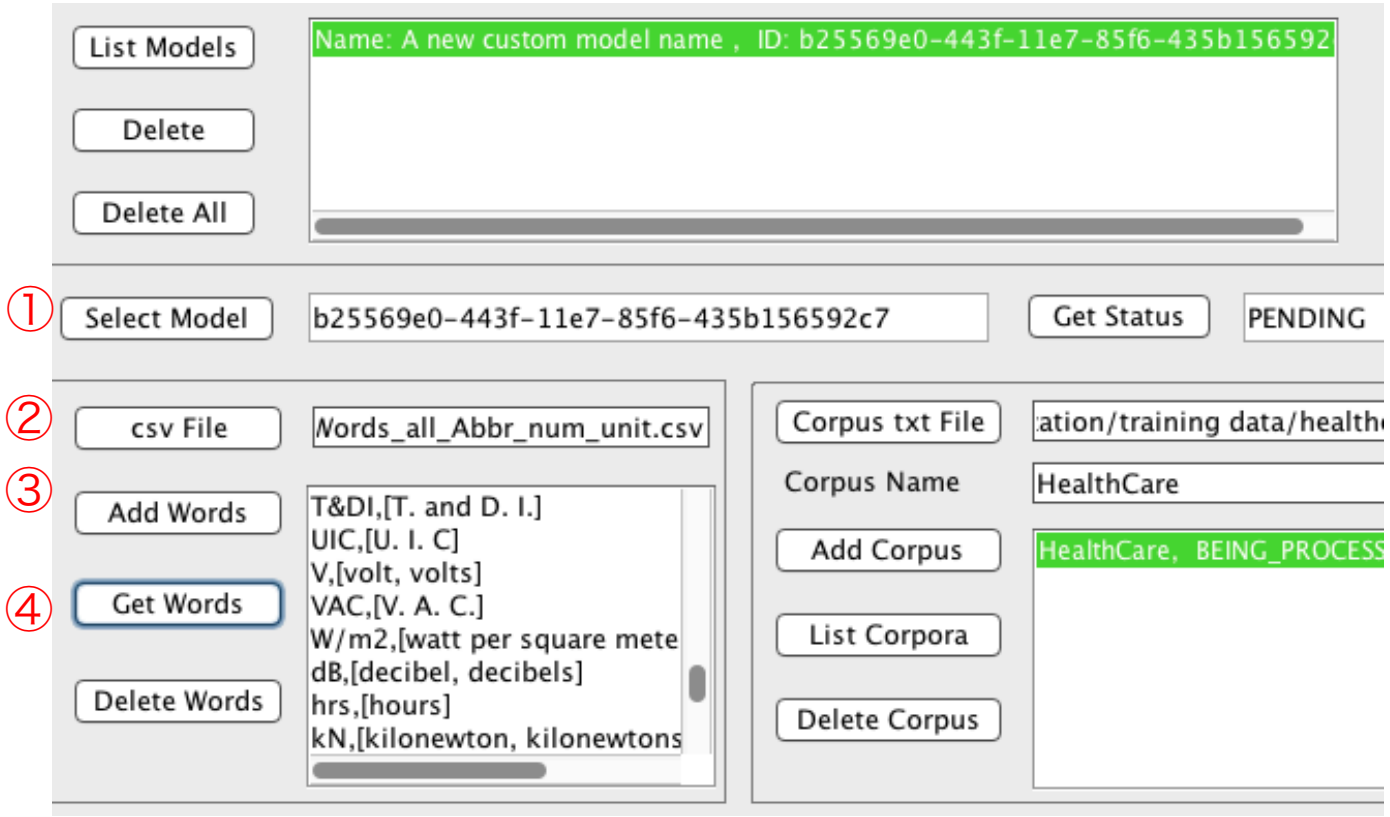
```
1  Am I at risk for health problems during travel?
2  Some people are more likely to have health problems when traveling outside the United States.
3  How Is Coronary Microvascular Disease Treated?
4  If you're diagnosed with coronary MVD and also have anemia, you may benefit from treatment for that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

1-3. Add and delete Words

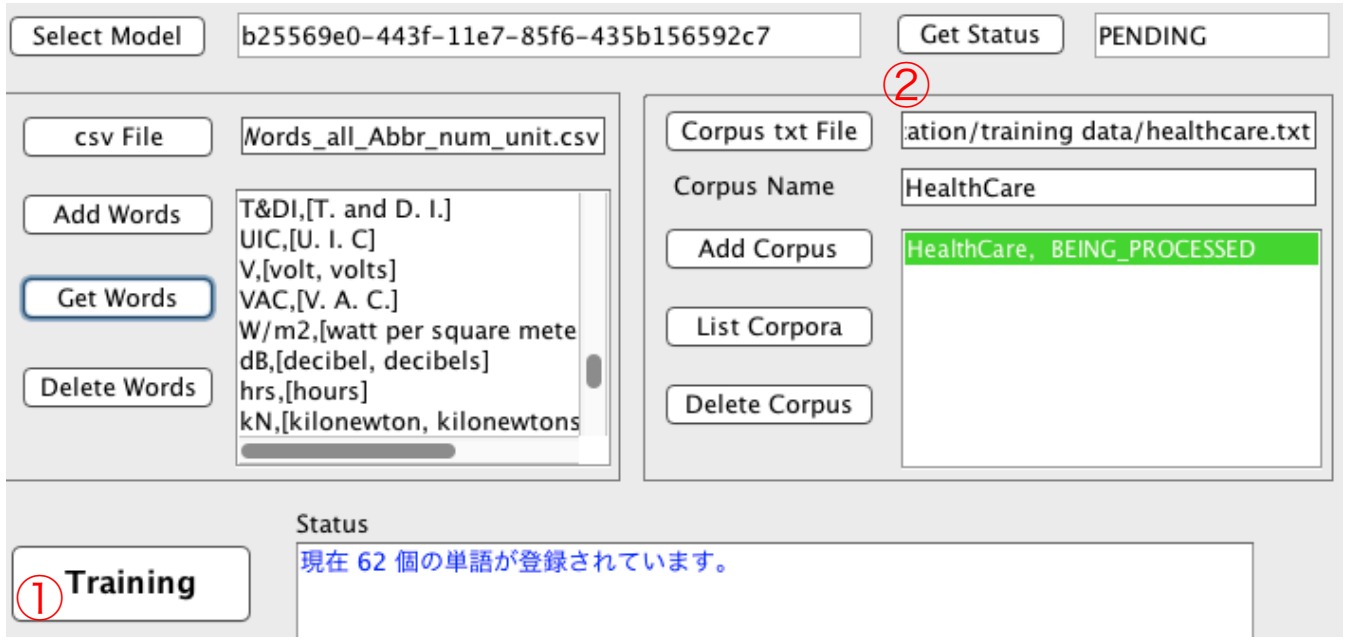
Select csv file and click buttons in the order shown in right.

```
1  Hz,heltz
2  hrs,hours
3  kg,kilogram,kilograms
4  Pa,pascal,pascals
5  kPa,kilopascal,kilopascals
6  dB,decibel,decibels
```

Format of csv :
Word, SoundsLike
Only UTF-8 is available



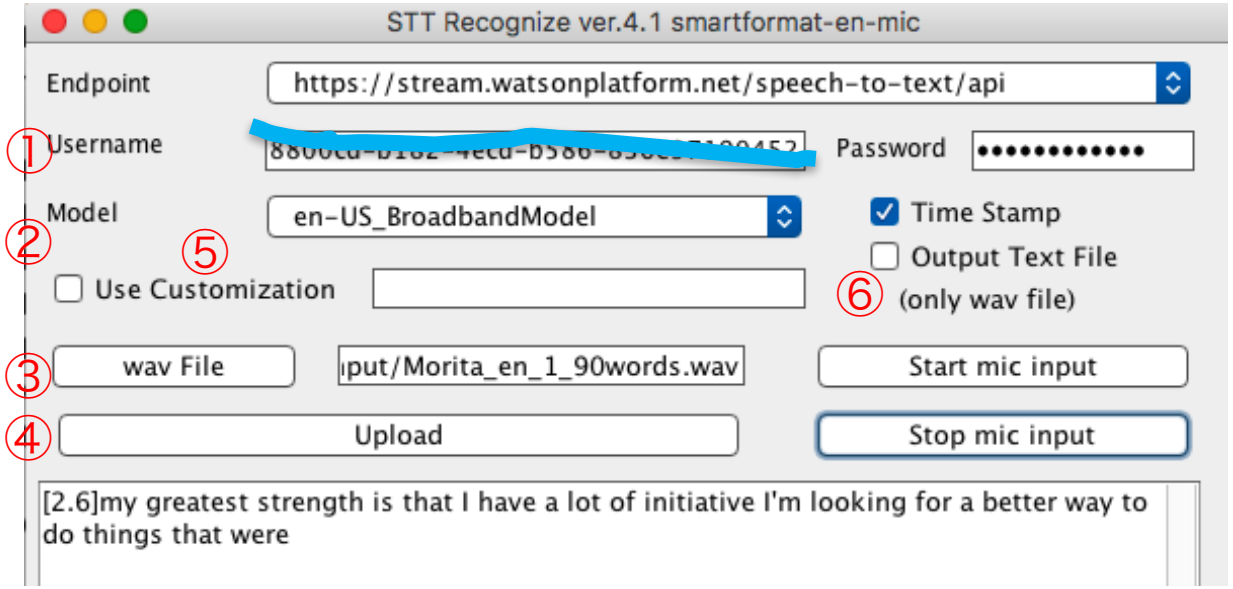
1-4. Training


Select Model
b25569e0-443f-11e7-85f6-435b156592c7
Get Status
PENDING
②
csv File
Words_all_Abbr_num_unit.csv
Add Words
Get Words
Delete 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 txt File
ation/training data/healthcare.txt
Corpus Name
HealthCare
Add Corpus
List Corpora
Delete Corpus
HealthCare, BEING_PROCESSED
Status
①Training
現在 62 個の単語が登録されています。

2. SPEECH RECOGNITION

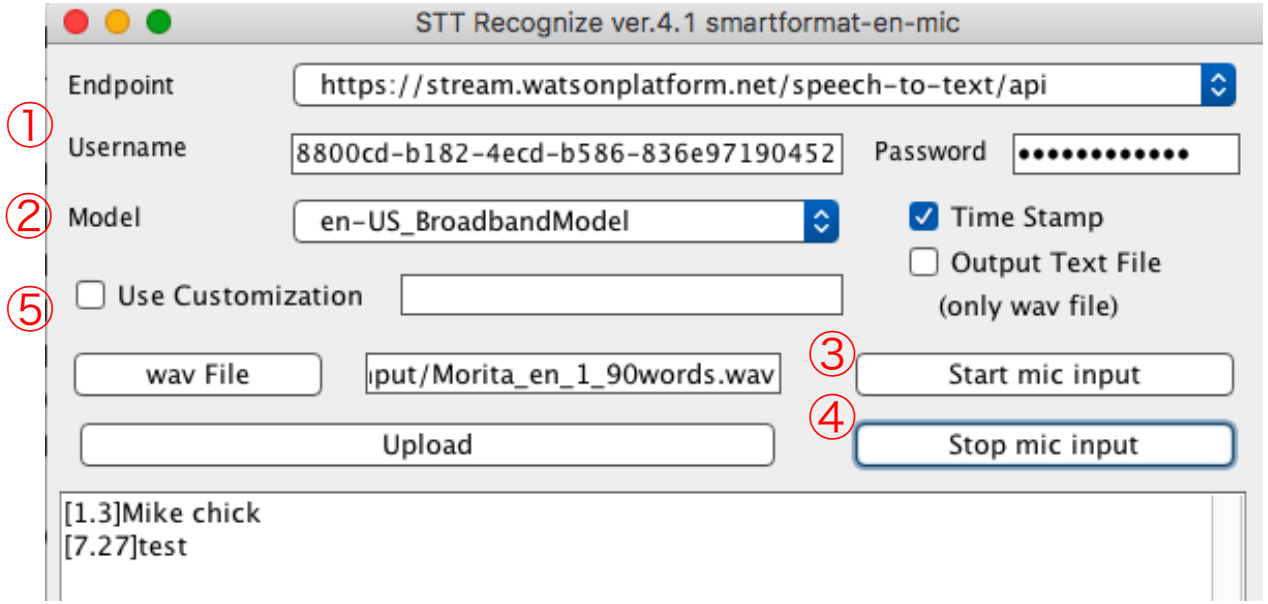
2-1. Recognize wav file

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

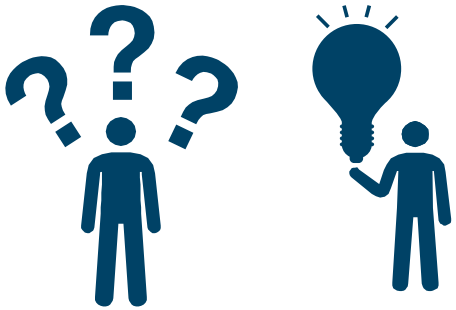


2-2. Recognize mic input

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



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.