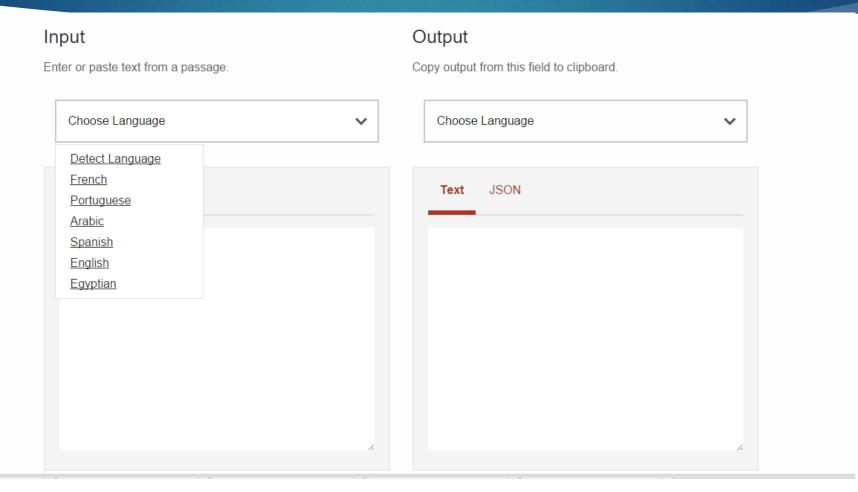# Language Translation by IbmWatsons

http://jodanchua.github.io/language-translation/

Language Translation

- Converts text input in one language into a target language
- Created using REST API
  - "**RE**presentational **S**tate **T**ransfer"
  - The Watson Content Analytics REST application programming interfaces (APIs) enable you to create applications to search, explore, and administer collections.
- Can translate text using these three business domains:
  - The News Domain
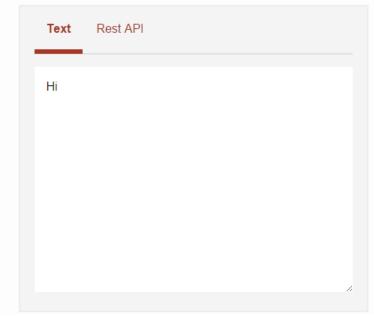 - The Conversational Domain
  - The Patent Domain

Demo

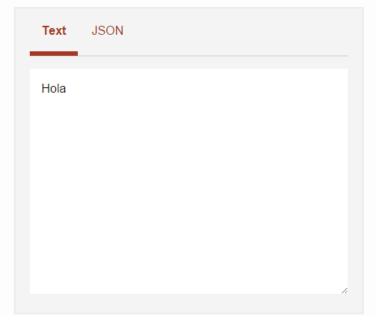## Input

Enter or paste text from a passage.

Choose Language ⌄

Detect Language
French
Portuguese
Arabic
Spanish
English
Egyptian

Output

Copy output from this field to clipboard.

Choose Language ⌄

Text   JSON

Demo

Input

Enter or paste text from a passage.

English ▾

Text   Rest API

Hi

Output

Copy output from this field to clipboard.

Spanish ▾

Text   JSON

Hola

Demo

Input

Enter or paste text from a passage.

English detected ⌄

| Text | **Rest API** |

```
{
  "model_id": "en-es-conversational",
  "text": "hello"
}
```

Output

Copy output from this field to clipboard.

Spanish ⌄

| Text | **JSON** |

```
{
  "translations": [
    {
      "translation": "Hola"
    }
  ],
  "word_count": 1,
  "character_count": 5
}
```

How does it work?

- Build.gradle
  - Dependencoes

  {

      compile 'com.ibm.Watson developer_cloud:java-wrapper:1.1.0'

  }

How does it work?

▶ LanguageTranslationServlet.java

```java
//connect using VCAP_SERVICES
LanguageTranslatorConnector connector = new LanguageTranslatorConnector();

LanguageTranslation languageTranslation = new LanguageTranslation();

//set username and password
languageTranslation.setUsernameAndPassword(connector.getUsername(),connector.getPassword());

//Translate Input from English to Spanish
TranslationResult translated = languageTranslation.translate(request.getParameter("inputText"), "en", "es");

String translatedText = translated.toString();

request.setAttribute("outputText",translatedText);
```

Example Usage of the Service

▶ To provide domain-relevant translations

▶ English-speaking help desk could assist a Spanish-speaking customer through a chat session that can be translated in real time

▶ A West African news website can curate English news from across the globe and present it in French to its constituents.