

[]:	from ibm_watson_import_LanguageTranslatorV3
	The service endpoint is based on the location of the service instance, we store the information in the variable URL. To find out which URL to use, view the service credentials.
[]:	<pre>url_lt='https://gateway.watsonplatform.net/language-translator/api'</pre>
	You require an API key, and you can obtain the key on the Dashboard.
[]:	apikey_lt=
	API requests require a version parameter that takes a date in the format version=YYYY-MM-DD. This lab describes the current version of Language Translator, 2018-05-01
[]:	version_lt=' <u>2018-05-01'</u>
	we create a Language Translator object language_translator:
[]:	authenticator = IAMAuthenticator(apikey_lt) language_translator = LanguageTranslatorV3(version=version_lt_authenticator_authenticator_) language_translator.set_service_url(url_lt) language_translator
	We can get a Lists the languages that the service can identify. The method Returns the language code. For example English (en) to Spanis (es) and name of each language.
[]:	from pandas.io.json import json_normalize
	<pre>json_normalize(language_translator.list_identifiable_languages().get_result(), "languages")</pre>
	We can use the method translate this will translate the text. The parameter text is the text. Model_id is the type of model we would like to use use we use list the language . In this case, we set it to 'en-es' or English to Spanish. We get a Detailed Response object translation_response
[]:	<pre>translation_response = language_translator.translate(\square\tag{text-recognized_text, model_id='en-es')} translation_response</pre>
	The result is a dictionary.
[]:	<pre>translation_translation_response.get_result() translation</pre>
	We can obtain the actual translation as a string as follows:
[]:	<pre>spanish_translation = translation['translations'][0]['translation'] spanish_translation.</pre>
	We can translate back to English
[]:	<pre>translation_new = language_translator.translate(text=spanish_translationmodel_id='es-en').get_result()</pre>
	We can obtain the actual translation as a string as follows:
[]:	<pre>translation_eng=translation_new['translations'][0]['translation'] translation_eng</pre>
	We can convert it to French as well:
[]:	<pre>French_translation_language_translator_translate(    text=translation_engmodel_id='en-fr').get_result()</pre>
f 1:	French translation['translations'][0]['translation']

## Language Translator

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References

https://cloud.ibm.com/apidocs/speech-to-text?code=python

https://cloud.ibm.com/apidocs/language-translator?code=python

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Joseph Santarcangelo has a PhD in Electrical Engineering, his research focused on using machine learning, signal processing, and computer vision to determine how videos impact human cognition. Joseph has been working for IBM since he completed his PhD.

## Other Contributor(s)

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## **Change Log**

Date (YYYY-MM-DD)	Version	Changed By	Change Description
2020-08-26	2.0	Lavanya	Moved lab to course repo in GitLab

