Cloud Application Development

Image Recognition with IBM Cloud Visual Recognition

Phase-4

- Continue building the image recognition system by integrating IBM Cloud Visual Recognition and AI-generated captions.
- Implement the image classification process using the IBM Cloud Visual Recognition API.
- Use natural language generation to create captions for the recognized images.

Login to the IBM account with IBMid.

Enter password to login.

Home page of the IBM account.

Click on the help icon and then click on Docs in the drop-down menu.

Then click the search icon.

Then search for Visual Recignition.

Then open the DocumentAnalytics.VisualRecognitionClassifier actions.

DocumentAnalytics.VisualRecognitionClassifier actions.

IBM Datacap

Change version

9.1.5

Show full table of contents

Filter on titles

DocumentAnalytics.VisualRecognitionClas actions

VisualRecogClassify

VisualRecogSetCredentials

VisualRecogSetMinConfidence

VisualRecogSetURL

VisualRecogTrain

DocumentAnalytics.NaturalLanguageClassifi actions

Email actions

Equalize actions

Ewsmail actions

All products / IBM Datacap / 9.1.5 /

Was this topic helpful?

A newer version of this product documentation is available. You are viewing an older version. View latest

DocumentAnalytics.VisualRecognitionClassifier actions

Last Updated: 2021-03-04

Visual Recognition Classifier is an IBM Watson service, which can be trained to classify image-based documents.

You can use the default classifier to do the classification, or you can first create and train a custom classifier by using some representative set of training data. The uploaded training data must contain at least two compressed (.zip) files, each containing sample images of a particular classes.

Once the classifier has been trained, you can give it other similar documents and classifier attempts to classify them according to its training. The Classifier returns a confidence score that is associated with the classification.

Properties and methods:

- **VisualRecogClassify**
  Classifies image by using IBM Watson Visual Recognition API.
- **VisualRecogSetCredentials**
  Sets the credentials to be used to do the classification.
- **VisualRecogSetMinConfidence**
  Sets the minimum confidence score for classification matching.

Cookie Preferences

IBM Datacap

Change version

9.1.5

Show full table of contents

Filter on titles

VisualRecogSetCredentials

VisualRecogSetMinConfidence

VisualRecogSetURL

VisualRecogTrain

DocumentAnalytics.NaturalLangu actions

NLCClassify

NLCClassifyText

NLCSetCredentials

NLCSetLanguage

NLCSetMinConfidence

NLCTrain

Identifies a page by using the IBM Natural Language technology.

- **NLCClassifyText**
  Classifies the specified text by using the IBM Natural Language technology.
- **NLCSetCredentials**
  Sets the credentials to be used to do the classification.
- **NLCSetLanguage**
  Sets the language of the page to be classified.
- **NLCSetMinConfidence**
  Sets the minimum confidence score for classification matching.
- **NLCTrain**
  Creates or replaces an NLC Classifier.

Parent topic:

→ Global actions

While IBM values the use of inclusive language, terms that are outside of IBM's direct influence, for the sake of maintaining user understanding, are sometimes required. As other industry leaders join IBM in embracing the use of inclusive language, IBM will continue to update the documentation to reflect those changes.

© Copyright IBM Corporation 2018

Contact IBM | Privacy | Terms of use | Accessibility | English

IBM Documentation Help

DocumentAnalytics.NaturalLanguageClassifier actions

IBM Datacap

Change version

9.1.5

Show full table of contents

Filter on titles

VisualRecogSetCredentials
VisualRecogSetMinConfidence
VisualRecogSetURL
VisualRecogTrain
DocumentAnalytics.NaturalLangu actions
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain

All products / IBM Datacap / 9.1.5 /

Was this topic helpful?

DocumentAnalytics.NaturalLanguageClassifier actions

Last Updated: 2021-03-04

Natural Language Classifier is an IBM Watson service, which can be trained to classify documents or sections of documents. That based on the text that is contained in the document or the section of a document. The default instance name: DocumentAnalytics.NaturalLanguageClassifierActions.

To do this, you must first create and train a classifier using some representative set of training data containing text from a set of sample documents. Once the classifier has been trained, you can give it other similar documents and classifier attempts to classify them according to its training. The Classifier returns a confidence score that is associated with the classification.

Because Natural Language Classifier works on the text of the document, you must first perform OCR on the document before calling the Classify action to do the classification.

Properties and methods:

- **NLCClassify**
  Identifies a page by using the IBM Natural Language technology.
- **NLCClassifyText**
  Classifies the specified text by using the IBM Natural Language technology.
- **NLCSetCredentials**
  Sets the credentials to be used to do the classification

IBM Datacap

Change version

9.1.5

Show full table of contents

Filter on titles

VisualRecogSetCredentials
VisualRecogSetMinConfidence
VisualRecogSetURL
VisualRecogTrain
DocumentAnalytics.NaturalLangu actions
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain

Natural Language Classifier is an IBM Watson service, which can be trained to classify documents or sections of documents. That based on the text that is contained in the document or the section of a document. The default instance name: DocumentAnalytics.NaturalLanguageClassifierActions.

To do this, you must first create and train a classifier using some representative set of training data containing text from a set of sample documents. Once the classifier has been trained, you can give it other similar documents and classifier attempts to classify them according to its training. The Classifier returns a confidence score that is associated with the classification.

Because Natural Language Classifier works on the text of the document, you must first perform OCR on the document before calling the Classify action to do the classification.

Properties and methods:

- **NLCClassify**
  Identifies a page by using the IBM Natural Language technology.
- **NLCClassifyText**
  Classifies the specified text by using the IBM Natural Language technology.
- **NLCSetCredentials**
  Sets the credentials to be used to do the classification.
- **NLCSetLanguage**
  Sets the language of the page to be classified.
- **NLCSetMinConfidence**
  Sets the minimum confidence score for classification matching.
- **NLCTrain**
  Creates or replaces an NLC Classifier.

NLCClassify

Identifies a page by using the IBM Natural Language technology.

NLCClassifyText

Classifies the specified text by using the IBM Natural Language technology.

[NLCSetCredentials]

Sets the credentials to be used to do the classification.

[NLCSetLanguage]

Sets the language of the page to be classified.

IBM Datacap
Change version
9.1.5
Show full table of contents
Filter on titles
VisualRecogSetCredentials
VisualRecogSetMinConfidence
VisualRecogSetURL
VisualRecogTrain
DocumentAnalytics.NaturalLangu actions
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain

```
bool NLCSetLanguage (string LanguageCode)
```

Parameters

string **LanguageCode** - The two-letter code associate with the language of the page to be classified

Returns

True, if the action succeeds. Otherwise, **False**.

Level

All level.

Details

This action sets the language of the page to be classified. The LanguageCode can be a smart parameter. The possible values for the Language code are:

- 'en' : English
- 'ar' : Arabic
- 'fr' : French
- 'de' : German
- 'it' : Italian
- 'ja' : Japanese
- 'ko' : Korean
- 'pt' : Portuguese (Brazilian)

ibm cloud login - Search | IBM Cloud | NLCSetLanguage - IBM Docume | IBM Cloud Docs
https://www.ibm.com/docs/en/datacap/9.1.5?topic=actions-nlcsetlanguage
IBM Documentation Announcements IBM Redbooks
IBM Datacap
Change version
9.1.5
Show full table of contents
Filter on titles
VisualRecogSetCredentials
VisualRecogSetMinConfidence
VisualRecogSetURL
VisualRecogTrain
DocumentAnalytics.NaturalLangu actions
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain

- 'ja' : Japanese
- 'ko' : Korean
- 'pt' : Portuguese (Brazilian)
- 'es' :Spanish

This action must be called before the Classify action.

Example

```
NLCSetLanguage("en")
NLCSetCredentials("@APPVAR(values/gen/NLCUserName)","@APPVAR(values/adv/NLCPassword)")
NLCSetMinConfidence(0.9)
Recognize()
NLCClassify("@APPVAR(values/gen/NLCClassifierName)")
```

Parent topic:

→ DocumentAnalytics.NaturalLanguageClassifier actions

While IBM values the use of inclusive language, terms that are outside of IBM's direct influence, for the sake of maintaining user understanding, are sometimes required. As other industry leaders join IBM in embracing the use of inclusive language, IBM will continue to update the documentation to reflect those changes.

© Copyright IBM Corporation 2018

NLCSetMinConfidence

Sets the minimum confidence score for classification matching.

NLCTrain

Creates or replaces an NLC Classifier.

IBM Datacap
Change version
9.1.5
Show full table of contents
Filter on titles
VisualRecogSetCredentials
VisualRecogSetMinConfidence
VisualRecogSetURL
VisualRecogTrain
DocumentAnalytics.NaturalLanguactions
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain

Syntax

```
bool NLCTrain (string CSVDirectory,string Name, string deleteExisting, string appendToCSV)
```

Parameters

string CSVDirectory - Directory where this action stores the csv file with the training data. CSV file has the name of the classifier. This parameter supports SmartParameters.

string Name - Name to give the classifier. This name is used when you later try to classify a page. This parameter supports SmartParameters.

string deleteExisting - Delete the classifier of the same name if it exists. If this flag is set to true, it deletes the classifier of the same name, if it exists. If this flag is set to false and a classifier with the same name exists, this action returns false. This parameter supports SmartParameters. The type of this parameter is string only to support SmartParameters. Internally, it is treated as a boolean. Specify '1' for true and '0' for false. Any other value is ignored and the action is default to false.

string appendToCSV - If an existing csv file found, this parameter indicates whether the training data from this batch should be appended to it or that it should be overwritten. If true, the classifier is trained with the data in the csv file and the new data from this batch. If false, the existing data in the csv file is overwritten and the classifier is trained with just the data in this batch. This parameter supports SmartParameters. The type of the parameter is string only to support SmartParameters. Internally, it is treated as a boolean. Specify '1' for true and '0' for false. Any other value is ignored and the action is default to true.

Returns

True, action is successful. Otherwise, False.

Level

ibm cloud login - Search | IBM Cloud | NLCTrain - IBM Documentation | IBM Cloud Docs
https://www.ibm.com/docs/en/datacap/9.1.5?topic=actions-nlctrain
IBM Documentation Announcements IBM Redbooks
IBM Datacap
Change version
9.1.5
Show full table of contents
Filter on titles
VisualRecogSetCredentials
VisualRecogSetMinConfidence
VisualRecogSetURL
VisualRecogTrain
DocumentAnalytics.NaturalLanguactions
NLCClassify
NLCClassifyText
NLCSetCredentials
NLCSetLanguage
NLCSetMinConfidence
NLCTrain

Returns

True, action is successful. Otherwise, False.

Level

Batch level.

Details

This action creates or replaces an NLC Classifier. Pages of the batch are used as the training data. It is expected that the batch is in a certain format. In particular, the batch needs to be divided into set documents where the 'Type' associated with the document is class that is created in NLC. All of pages in that document are treated as training data for that class. So, for example, if you wanted to train the classifier to recognize the main page and the trailing pages of a mortgage application, you would create a batch with two documents: Main_Page and Trailing_Page. Put all of the training page for the main page under the Main_Page document and the trailing pages under Trailing_Page document.

Example

```
NLCSetLanguage("en")
NLCSetCredentials("@APPVAR(values/gen/NLCUserName)","@APPVAR(values/adv/NLCPassword)")
NLCTrain("@APPPATH(runtime)+\+..+\+CSV","@APPVAR(values/gen/NLCClassifierName)",0,1)
```

Parent topic:

→ DocumentAnalytics.NaturalLanguageClassifier actions