Google Cloud Natural Language

Intro:

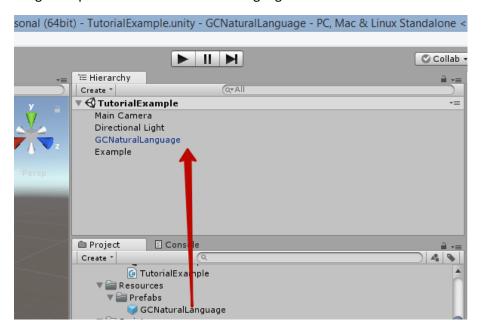
Google Cloud Natural Language API reveals the structure and meaning of text by offering powerful machine learning models in an easy to use REST API. You can use it to **extract information** about people, places, events and much more, mentioned in text documents, news articles or blog posts. You can use it to **understand sentiment** about your product on social media or **parse intent** from customer conversations happening in a call center or a messaging app. You can **analyze text uploaded in your request** or integrate with your document storage on Google Cloud Storage.

How to use:

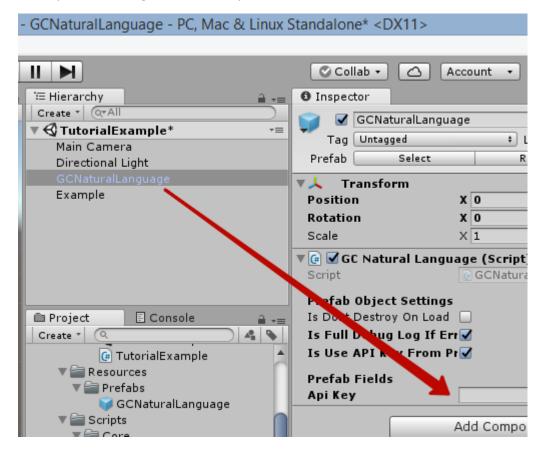
Create you first an app example:

Create the script with and name it 'TutorialExample':

Drag n Drop the Prefab of GCNaturalLanguage into the scene:



Insert your own Google Cloud API Key into this field:



Create the variable for the GCNaturalLanguage and get an instance of an object:

```
□using UnityEngine;
using FrostweepGames.Plugins.GoogleCloud.NaturalLanguage;
using System;

Oreferences
□public class TutorialExample : MonoBehaviour
{
    private GCNaturalLanguage _gcNaturalLanguage;

    Oreferences
□ private void Start()
{
    __gcNaturalLanguage = GCNaturalLanguage.Instance;
```

Then you should subscribe on the events:

```
private void Start()

{
    _gcNaturalLanguage = GCNaturalLanguage.Instance;

    _gcNaturalLanguage.AnnotateTextSuccessEvent += _gcNaturalLanguage_AnnotateTextSuccessEvent;
    _gcNaturalLanguage.AnalyzeEntitySentimentSuccessEvent += _gcNaturalLanguage_AnalyzeEntitySentimentSuccessEvent;
    _gcNaturalLanguage.AnalyzeSentimentSuccessEvent += _gcNaturalLanguage_AnalyzeSentimentSuccessEvent;
    _gcNaturalLanguage.AnalyzeSyntaxSuccessEvent += _gcNaturalLanguage_AnalyzeSyntaxSuccessEvent;
    _gcNaturalLanguage.AnalyzeEntitiesSuccessEvent += _gcNaturalLanguage_AnalyzeEntitiesSuccessEvent;
    _gcNaturalLanguage.ClassifyTextSuccessEvent += _gcNaturalLanguage_ClassifyTextSuccessEvent;

    _gcNaturalLanguage.AnalyzeEntitySentimentFailedEvent += _gcNaturalLanguage_AnalyzeEntitySentimentFailedEvent;
    _gcNaturalLanguage.AnalyzeSentimentFailedEvent += _gcNaturalLanguage_AnalyzeSyntaxFailedEvent;
    _gcNaturalLanguage.AnalyzeSyntaxFailedEvent += _gcNaturalLanguage_AnalyzeSyntaxFailedEvent;
    _gcNaturalLanguage.AnalyzeEntitiesFailedEvent += _gcNaturalLanguage_AnalyzeSyntaxFailedEvent;
    _gcNaturalLanguage.ClassifyTextFailedEvent += _gcNaturalLanguage_AnalyzeEntitiesFailedEvent;
    _gcNaturalLanguage.ClassifyTextFailedEvent += _gcNaturalLanguage_ClassifyTextFailedEvent;
    _gcNaturalLanguage.ClassifyTextFailedEvent += _gcNaturalLanguage_ClassifyTextFailedEvent;
    _gcNaturalLanguage.ClassifyTextFailedEvent += _gcNaturalLanguage_ClassifyTextFailedEvent;
}
```

Create the Annotate Text request:

Where encoding type if UTF8, with all features, and LocalDocument:

content is the text data

language is the text data language

type is the text data type

Then you can call the method with text data and text data language:

```
string content = "Religious texts (also known as scripture, or scriptures, from the Latin scriptura, meaning a writing)";
AnnotateText(content, Enumerators.Language.en);
```

When the Annotation Text request will be successful, will be fire the AnnotateTextSuccessEvent.

Handle the Text Detection:

```
private void _gcNaturalLanguage_AnnotateTextSuccessEvent(AnnotateTextResponse obj)
{
    string result = string.Empty;

    foreach (var sentence in obj.sentences)
        result += sentence.text.content + Environment.NewLine;

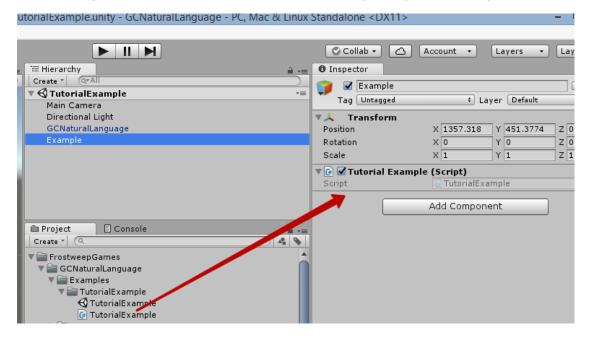
    Debug.Log("sentences :" + result);
}
```

When the Annotation request will be failed, will be fire the AnnotateTextFailedEvent.

Handle the event:

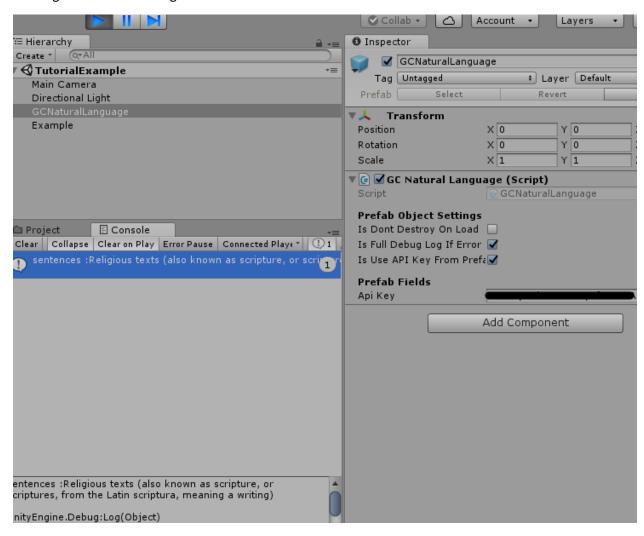
```
private void _gcNaturalLanguage_AnnotateTextFailedEvent(string obj)
{
    Debug.Log(obj);
}
```

Create an object in the scene and attach the TutorialExample script into this object:



Then click on the Play button.

Waiting for the result and get:



That's all! So you can make your own text analyze using our plugin!

• Note:

- 1) The plugin does not cover the cost of the Google Cloud Service
- 2) Be sure to read the terms of service of Google Cloud Natural Language API

• Versions changes:

1.0 – Implemented Google Cloud Natural Language API