**Notes of “Getting started with Swift”**

**Type**

Web Article

**Topic**

Swift

# 

# Speech Recognition

## API’s

## Google Speech API

[**https://cloud.google.com/speech/?utm\_source=google&utm\_medium=cpc&utm\_campaign=2017-q1-cloud-emea-gcp-bkws-freetrial&gclid=CL3-qcWJytICFUWeGwodTRYKbQ**](https://cloud.google.com/speech/?utm_source=google&utm_medium=cpc&utm_campaign=2017-q1-cloud-emea-gcp-bkws-freetrial&gclid=CL3-qcWJytICFUWeGwodTRYKbQ)

**Pros:**

Widely Used

High Success Rates

Can be integrated with other cloud services such as App Engine

Documentation for assisting with implementation

**Cons:**

Not Free To Use

Requires Internet

## IOS Speech API

<https://developer.apple.com/documentation/speech>

**Pros:**

Documentation for assisting with implementation

Free to use

**Cons:**

Platform Dependant

Requires Internet

## Nexmo API

[**https://www.nexmo.com/products/voice/?utm\_source=google\_search&utm\_medium=paid&utm\_campaign=voice\_eu\_voiceapi&gclid=CJDope2RytICFUy3Gwod4mwIjw**](https://www.nexmo.com/products/voice/?utm_source=google_search&utm_medium=paid&utm_campaign=voice_eu_voiceapi&gclid=CJDope2RytICFUy3Gwod4mwIjw)

**Pros:**

Documentation for assisting with implementation

Used by many applications and companies

**Cons:**

Not free to use

Requires Internet

## Language Support

**Python**

**Modules**

SpeechRecognition

PyAudio

PortAudio

**Websites**

**Speech to Text**

<https://pythonspot.com/speech-recognition-using-google-speech-api/>

<https://gist.github.com/alotaiba/1730160>

**Java**

**Packages**

Javax.speech

java.io.FileReader

**Websites**

<https://github.com/lkuza2/java-speech-api>

<http://half-wit4u.blogspot.co.uk/2011/02/speech-to-text-using-java-api.html>

<http://www.ling.helsinki.fi/~gwilcock/Tartu-2003/L7-Speech/JSAPI/Recognition.html>

# Translate

## API’s

## Google Translate API

[**https://cloud.google.com/translate/**](https://cloud.google.com/translate/)

### Microsoft Translate API

<https://www.microsoft.com/en-us/translator/translatorapi.aspx>

## Language Support

**Java**

**Websites**

<http://stackoverflow.com/questions/8147284/how-to-use-google-translate-api-in-my-java-application>

<https://developers.google.com/api-client-library/java/apis/translate/v2>

**Python**

**Websites**

[**https://developers.google.com/api-client-library/python/apis/translate/v2**](https://developers.google.com/api-client-library/python/apis/translate/v2)

[**http://stackoverflow.com/questions/22587001/best-way-of-using-google-translation-by-python**](http://stackoverflow.com/questions/22587001/best-way-of-using-google-translation-by-python)

# Speech Synthesis

## Google Text to Speech API

[**http://stackoverflow.com/questions/9893175/google-text-to-speech-api**](http://stackoverflow.com/questions/9893175/google-text-to-speech-api)

## Responsive Voice API

<https://responsivevoice.org/>

## IOS Speech Synthesis API

https://developer.apple.com/documentation/avfoundation/speech\_synthesis

## Nexmo API

[**https://www.nexmo.com/products/voice/?utm\_source=google\_search&utm\_medium=paid&utm\_campaign=voice\_eu\_voiceapi&gclid=CJDope2RytICFUy3Gwod4mwIjw**](https://www.nexmo.com/products/voice/?utm_source=google_search&utm_medium=paid&utm_campaign=voice_eu_voiceapi&gclid=CJDope2RytICFUy3Gwod4mwIjw)

**Python**

<https://pythonprogramminglanguage.com/text-to-speech/>

**Java**

<https://www.ling.helsinki.fi/~gwilcock/Tartu-2003/L7-Speech/JSAPI/Synthesis.html>