Convert Text to Speech in Python

There are several APIs available to convert text to speech in python. One of such APIs is the Google Text to Speech API commonly known as the gTTS API. gTTS is a very easy to use tool which converts the text entered, into audio which can be saved as a mp3 file. **gTTS** (Google Text-to-Speech), a **Python library** and CLI tool to interface with Google Translate's text-to-speech API. Writes spoken mp3 data to a file, a file-like object (bytestring) for further audio manipulation, or stdout .

The gTTS API **supports several languages including** English, Hindi, Tamil, French, German and many more. The speech can be delivered in any one of the two available audio speeds, fast or slow. However, as of the latest update, it is not possible to change the voice of the generated audio.

**Installation**

To install the gTTS API, open terminal and write

pip install gTTS

This works for any platform.  
Now we are all set to write a sample program that converts text to speech.

# Import the required module for text to speech conversion

from gtts import gTTS

# This module is imported so that we can play the converted audio

import os

# The text that you want to convert to audio

mytext = 'Welcome to CCNLP Course!'

# Language in which you want to convert

language = 'en'

# Passing the text and language to the engine,here we have marked slow=False. Which tells the module that the converted audio should have a high speed

myobj = gTTS(text=mytext, lang=language, slow=False)

# Saving the converted audio in a mp3 file named welcome

myobj.save("welcome.mp3")

# Playing the converted file

os.system("mpg321 welcome.mp3")

### ****Output****

The output of the above program should be a

voice saying, 'Welcome to CCNLP Course!'

## **What is Text to Speech?**

With Watson Text-to-Speech, you can generate human-like audio from written text.  Improve the customer experience and engagement by interacting with users in multiple languages and tones. Increase content accessibility for users with different abilities, provide audio options to avoid distracted driving, or automate customer service interactions to increase efficiencies.

## **Watson Text to Speech features**

### Enable systems to “speak”

Develop interactive products for education, automate call center interactions, communicate directions hands-free, build engaging toys for children and more.

### Customize pronunciation

Deliver a seamless voice interaction that caters to your audience with control over every word.

### Go across languages and voices

Convert in English, French, German, Italian, Japanese, Spanish and Brazilian Portuguese. Detects different dialects, such as U.S. and UK English and Castilian, Latin American, and North American Spanish.

## **Text to Speech**

The Text to Speech service understands text and natural language to generate synthesized audio output complete with appropriate cadence and intonation. It is available in 27 voices (13 neural and 14 standard) across 7 languages. Select voices now offer Expressive Synthesis and Voice Transformation features.

## **Voice Selection**

For optimal naturalness, select neural voices (V3, enhanced dnn) in the list below.  
Please see [Watson TTS blog](https://medium.com/ibm-watson/ibm-watson-text-to-speech-neural-voices-added-to-service-e562106ff9c7) for more information.