

CHEATSHEET

USING AT&T API IN YOUR UNITY3D GAME

Steps to use AT&T Speech API in your game:

With just 5 lines of code, you can start using AT&T Speech API in your Unity3D game.

1. Copy ATT_MSSDK.dll into the source code. This library is available in the package at: <http://developer.att.com/sdks>

2. Create an instance of RequestFactory class, by passing API Key, Secret, Endpoint and Scope information.

```
List<RequestFactory.ScopeTypes> scopes = new
List<RequestFactory.ScopeTypes>();
scopes.Add(RequestFactory.ScopeTypes.Speech);
RequestFactory requestFactory = new RequestFactory(endpoint, apiKey,
secretKey, scopes, null, null);
```

API Key – API Key of the registered application in AT&T Developer Portal. See [here](#), to get an API Key.

Secret Key – Secret Key of the registered

application. Endpoint – The API gateway end point.

Scopes – List of scopes registered by the application.

3. Capture the audio using Unity 3D functions.

```
audio.clip = Microphone.Start(null, false, 5,
8000); yield return new WaitForSeconds(5);
Microphone.End(null);
```

4. Pass the captured audio to create a wav file. (NOTE: Speech API accepts other formats as well. Please refer [Speech API documentation on AT&T Developer Portal](#).)

```
float[] clipData = new float[audio.samples *
audio.channels]; audio.GetData(clipData, 0);
WaveGen.WaveFormatChunk format = new
WaveGen().MakeFormat(audio); string filename =
"recordedSpeech.wav";
FileStream stream =
File.OpenWrite(filename); new
WaveGen().Write(clipData, format, stream);
stream.Close();
```

WaveGen is a custom class, to create WAV file header.

5. Call the SpeechToText method of requestFactory instance.

```
SpeechResponse response = requestFactory.SpeechToText(filename);
```

6. Capture the response from the API gateway

```
string transcribedText = response.Recognition.NBest[0].ResultText;
```

7. Use the transcribedText to perform your own game activity.