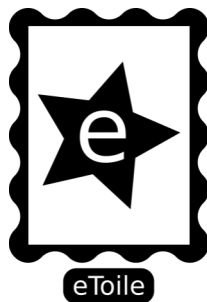


Open WAV Parser

OpenWavParser Class

Cross-platform AudioClip to PCM WAV file codec.



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Introduction

Thanks for downloading [OpenWavParser](#), this class is designed to be simple and lightweight, so you will only need to learn how to use a few methods.

This product is just that: a static class, so you can add it to your project without any risks.

You also can access the full source code.

The sample scene allows testing most of the [OpenWavParser](#) functions, giving also an example of how to record audio from the microphone.

Class Description

[OpenWavParser](#) is a static class. That means that you don't have to create/instantiate an [OpenWavParser](#) object, just write [OpenWavParser](#) dot (.) followed by the method that you need.

There are not any special considerations when exporting to other platforms, neither any special considerations when uploading to digital markets.

Just switch platform from "Build settings" dialog on Unity editor.

Class Integration

To integrate this class to your project you must include the main file only:

- "OpenWavParser.cs".

This file contains the [OpenWavParser](#) class.

Everything else contained in this package can be deleted without risk.

OpenWavParser Public Interfaces

This is the complete definition of `OpenWavParser` public interfaces.

ByteArrayToAudioClip()

```
public static AudioClip ByteArrayToAudioClip(byte[] wavFile, string name = "",  
bool stream = false)
```

The `wavFile` argument must contain a WAV file to be converted into an `AudioClip` (contained into a `byte[]` array).

The `name` and `stream` arguments are parameters assigned to the `AudioClip` at the moment of its creation.

This example reads the sample WAV file:

```
string filePath = Application.persistentDataPath + "/MyFile.wav";  
byte[] wavFile = File.ReadAllBytes(filePath);  
gameObject.GetComponent<AudioSource>().clip = OpenWavParser.ByteArrayToAudioClip(wavFile);
```

AudioClipToByteArray()

```
public static byte[] AudioClipToByteArray(AudioClip clip, Resolution res = Resolution._16bit)
```

The `clip` argument requires an `AudioClip` with some valid data to be converted to a WAV file.

The converted WAV file gets the `AudioClip` properties to assign the audio format (channels, frequency, etc.).

NOTE: A streamed `AudioClip` may not be saved correctly. Make sure that the clip is not streamed before converting.

This example saves an `AudioClip` to a WAV file:

```
AudioSource source = gameObject.GetComponent<AudioSource>();  
byte[] wavFile = OpenWavParser.AudioClipToByteArray(source.clip);  
File.WriteAllBytes(Application.persistentDataPath + "/MyFile.wav", wavFile);
```

IsWAVFile()

```
public static bool IsWAVFile(byte[] wavFile)
```

This method returns true if the provided `wavFile` (contained into a `byte[]` array) is PCM WAV compatible.

This example checks the validity of a WAV file:

```
if(IsWAVFile(wavFile))  
    print("This is a valid PCM WAV file!!");  
else  
    print("This is not a PCM WAV file.");
```

Combine()

```
public static AudioClip Combine(AudioClip[] clips)
```

This method picks an array of clips and combines them into one single `AudioClip`.

It doesn't perform any conversions, so it's preferable to use clips with similar parameters to avoid unwanted results.

Known Issues

- The sample scene is compatible with iOS, Android and standalone platforms. To extend the compatibility please purchase [FileManagement](#) from the AssetStore.
- Every [AudioClip](#) with the stream flag enabled is not warranted to be converted correctly.
- The run-time [AudioClip](#) effects will be not saved (they are not present into the clip content).

Contact

If you need some support or if you find some errors in this documentation or the application, don't hesitate on sending me an email to: jmonsuarez@gmail.com

Please, once you have tested this product, take a minute of your time to write a good review in the Unity Asset Store, so you will help to improve this product:

<https://assetstore.unity.com/packages/slug/90832>

Thanks.