

# RT-Voice PRO

*Hearing is understanding*



Documentation

**crosstales** LLC

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## Table of Contents

1. Overview.....	4
2. Features.....	5
2.1. Convert text to voice.....	5
2.2. Documentation & control.....	5
2.3. Compatibility.....	5
2.4. Supported third-party assets.....	6
2.5. Platform-specific features and limitations.....	6
2.5.1. Windows.....	6
2.5.2. MacOS.....	6
2.5.3. Android.....	7
2.5.4. iOS.....	7
2.5.5. WSA (UWP).....	7
2.5.6. MaryTTS.....	7
2.5.7. eSpeak.....	8
2.5.8. AWS Polly.....	8
3. Demonstration.....	9
3.1. Speech.....	9
3.2. Dialog.....	9
3.3. SimpleNative.....	10
3.4. Simple.....	10
3.5. 3DAudio.....	11
3.6. Loudspeakers.....	11
3.7. SendMessage.....	11
3.8. Sequencer.....	11
3.9. Exact and Exact_Native.....	11
3.10. SpeechText.....	11
3.11. SpeechText.....	11
3.12. AudioFileGenerator.....	11
4. Setup.....	12
4.1. Schema.....	12
4.2. Add RT-Voice.....	13
4.3. Other components.....	13
4.3.1. AudioFileGenerator.....	13
4.3.2. SpeechText.....	14
4.3.3. Sequencer.....	14
4.3.4. TextFileSpeaker.....	14
4.3.5. Loudspeaker.....	15
4.3.6. VoiceInitalizer.....	15
4.4. Differences between standard and native mode.....	15
4.5. Speaker.cs vs. LiveSpeaker.cs.....	16
4.6. MaryTTS.....	16
4.6.1. Important.....	16
4.6.2. Account for our MaryTTS-service.....	16
4.6.3. Installation guide.....	16
5. API.....	17
5.1. Speaker.....	17
5.1.1. Speak.....	17
5.1.2. SpeakNative.....	17
5.1.3. Silence.....	18
5.1.4. Voices.....	18
5.1.5. VoicesForGender.....	18
5.1.6. VoiceForGender.....	18

5.1.7. VoicesForCulture.....	18
5.1.8. VoiceForCulture.....	18
5.1.9. VoiceForName.....	19
5.1.10. Cultures.....	19
5.2. Callbacks.....	20
5.2.1. Voices ready.....	20
5.2.2. Speak start and complete.....	20
5.2.1. Current word (native, Windows and iOS only).....	20
5.2.2. Current phoneme (native, Windows only).....	20
5.2.3. Current viseme (native, Windows only).....	20
5.2.4. Speak audio generation start and complete.....	21
5.2.5. Provider change.....	21
5.2.6. Errors.....	21
5.2.7. Example.....	22
5.3. Complete API.....	22
6. Additional voices.....	23
6.1. Windows.....	23
6.1.1. Important.....	23
6.2. MacOS.....	23
6.3. Android.....	23
6.4. iOS.....	24
6.5. WSA (UWP).....	24
6.6. MaryTTS.....	24
6.7. eSpeak.....	24
7. Setup eSpeak.....	24
7.1. Windows.....	24
7.2. macOS.....	24
7.3. Linux.....	24
7.4. eSpeak-NG.....	24
8. Third-party support (PlayMaker etc.).....	25
9. Verify installation.....	25
10. Upgrade to new version.....	25
11. Important notes.....	25
12. Problems, improvements etc.....	26
13. Release notes.....	26
14. Credits.....	26
15. Contact and further information.....	27
16. Our other assets.....	28

**Thank you for buying our asset "RT-Voice PRO"!**

If you have any questions about this asset, send us an email at [rtvoice@crosstales.com](mailto:rtvoice@crosstales.com). Please don't forget to rate it or write a little review – it would be very much appreciated.

## 1. Overview

Did you ever want to make a game for people with **visual impairments** or **reading difficulties**? Or want your players to **not have to read too much**? Or would you listen to just the dialogues in your game **without consulting a voice-actor** in early stages of development? Then RT-Voice is your **time-saving** solution to do so!

RT-Voice uses TTS-voices already integrated in your system to pronounce any written text at runtime.

All of this happens without intermediate steps: the transformation effects **instantaneously** - and, if needed, **simultaneously**!

## 2. Features

### 2.1. Convert text to voice

- **Instant conversion** from text to speech - generated **during runtime!**
- **Side effect:** the continuous audio generation **saves a lot of memory!**
- **No need for voice actors** during the testing phase of your game!
- Filter voices by **name**, **culture** and/or **gender**
- **Several voices at once** are possible (e.g. for scenes in a public place, where many people are talking at the same time)
- **Fine tuning** for your voices with **speed**, **pitch** and **volume!**
- Support for [SSML](#) and [EmotionML](#)!
- **Current word**, **visemes** and **phomenes** on Windows and iOS - including **marker functions!**
- Generated audio **can be stored** in files reusable within Unity!
- **1-infinite synchronized speakers** for a single AudioSource!
- Simple **sequence** and **dialogue system**
- **No performance drops!**

### 2.2. Documentation & control

- **Test** voices within the editor!
- Powerful [API](#) for **maximum control!**
- Detailed **demo scenes!**
- Comprehensive [documentation](#) and **support!**
- Full **C# source code**

### 2.3. Compatibility

- Supports **all build platforms!**
- **Native providers** for **Windows**, **macOS**, **Android** and **iOS**
- Compatible with:
  - [AWS Polly](#)
  - [MaryTTS](#)
  - [eSpeak](#) and [eSpeak-NG](#)
- Works with **Windows**, **Mac** and **Linux editors!**
- Compatible with **Unity 5.6 – Unity 2019**
- Supports **AR** and **VR!**
- Works with [Online Check](#)
- [PlayMaker](#) actions!

## 2.4. Supported third-party assets

- [SALSA](#)
- [Localized Dialogs & Cutscenes \(LDC\)](#)
- [Dialogue System for Unity](#)
- [THE Dialogue Engine](#)
- [PlayMaker](#)
- [Adventure Creator](#)
- [LipSync](#)
- [SLATE](#)
- [Cinema Director](#)
- [uSequencer](#)
- [Quest System Pro](#)
- [NPC Chat](#)

## 2.5. Platform-specific features and limitations

### 2.5.1. Windows

- Support for SSML
- Native rate is internally limited to 20 logarithmic distributed steps
- .NET 4.0 or higher must be installed
- Minimum Windows version: 7
- Maximal number of characters per speech: 32'000 (>35min)

**Important note:** not all SAPI-voices support SSML! If you experience a wrong voice speaking your text, the selected voice is most likely not SSML-compatible. In this case, remove all SSML-tags from your text and let RTV speak again or you could enable "Auto Clear Tags" on the Speaker-component.

### 2.5.2. MacOS

- Native pitch has no effect
- Native volume has no effect
- No current words, phonemes and visemes
- No support for SSML
- Minimum macOS version: 10.6
- Maximal number of characters per speech: 256'000 (>4h 45min)

**2.5.3. Android**

- Only one native voice at the time (can be solved by generating audio)
- No current words, phonemes and visemes
- No support for SSML
- Minimum Android version: 4.0.3 (API 15)
- Maximal number of characters per speech: 3'999 (>5min)

**2.5.4. iOS**

- Only one active native voice at the time
- No audio file generation
- No support for SSML
- Current word but no phonemes and visemes
- Minimum iOS-version: 9.0
- Maximal number of characters per speech: n/a

**2.5.5. WSA (UWP)**

- Support for SSML
- No native audio (only generated audio files)
- No current words, phonemes and visemes
- Minimum SDK-version: 10.0
- Maximal number of characters per speech: 64'000 (>1h 15min)

**2.5.6. MaryTTS**

- Platforms: all
- Support for RAWMARYXML, SSML and EmotionML
- No native audio (only generated audio files)
- No current words, phonemes and visemes
- Minimum MaryTTS-version: 5.0
- Maximal number of characters per speech: depends on the server request size, but 8'000 (>10min) is realistic. Higher numbers can lead to timeouts.

### 2.5.7. eSpeak

- Windows, macOS, Linux and Android
- Support for SSML
- No current words, phonemes and visemes
- Minimum eSpeak version: 1.4.0
- Maximal number of characters per speech: 32'000 (>30min)

**Important note:** eSpeak must be installed on the target machine.

For more, please see:

<http://espeak.sourceforge.net/>

eSpeak-NG is also supported:

<https://github.com/espeak-ng/espeak-ng>

To use it, change Config.TTS\_LINUX to "speak\_ng".

### 2.5.8. AWS Polly

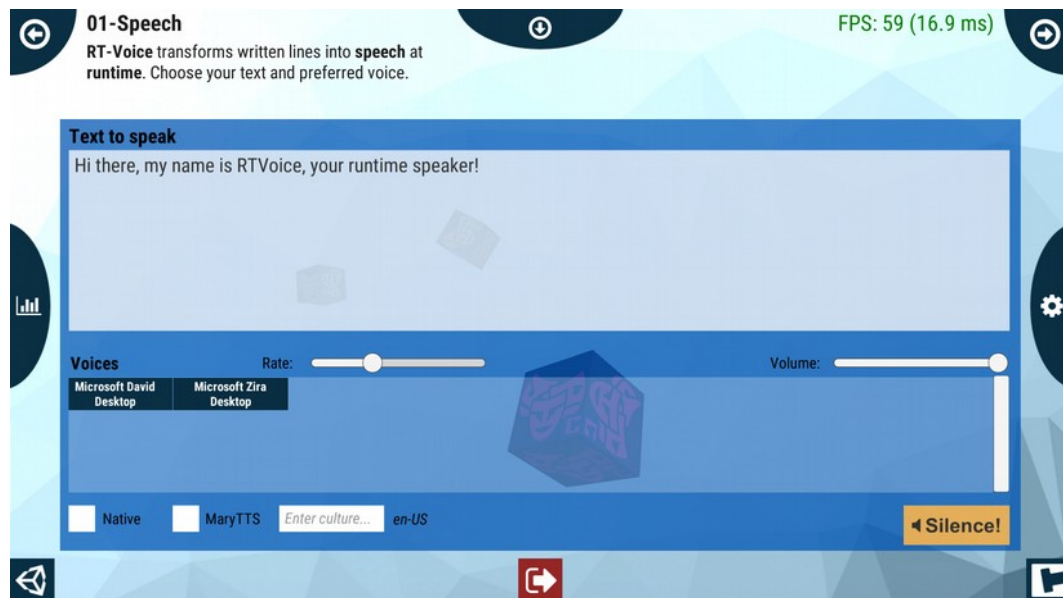
- Platforms: all except WebGL
- Support for SSML
- No native audio (only generated audio files)
- No current words, phonemes and visemes
- Maximal number of characters per speech: depends on the maximal request size, but 16'000 (>20min) is realistic. Higher numbers can lead to timeouts.



## 3. Demonstration

The asset comes with many demo scenes to show the main usage.

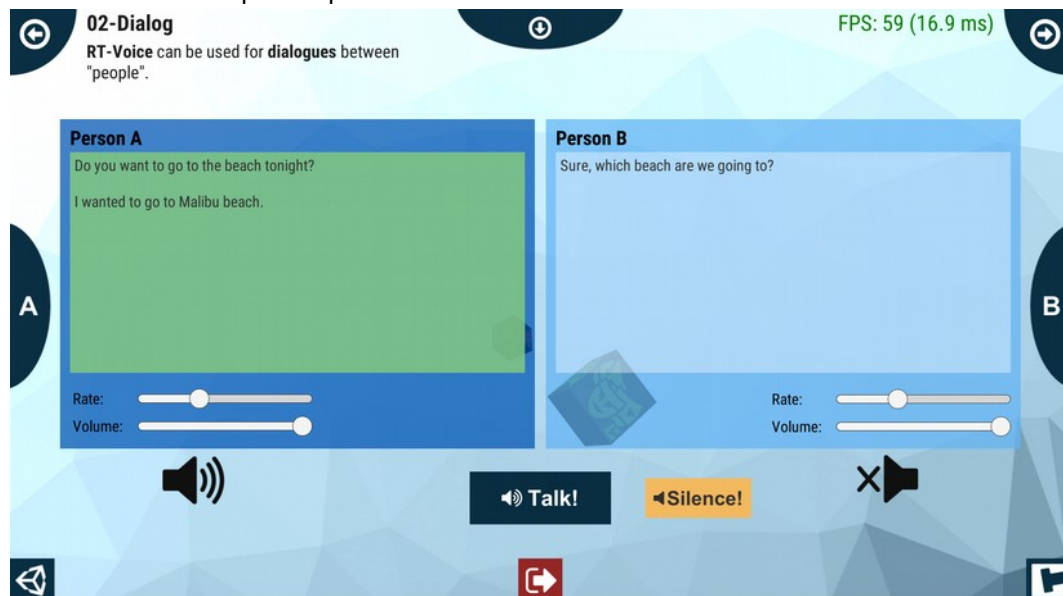
### 3.1. Speech



This demo scene shows how to transform written lines into speech. Choose your preferred voice.

### 3.2. Dialog

In this demo scene you can act out a dialogue between two "people". You can choose a different voice for both participants.



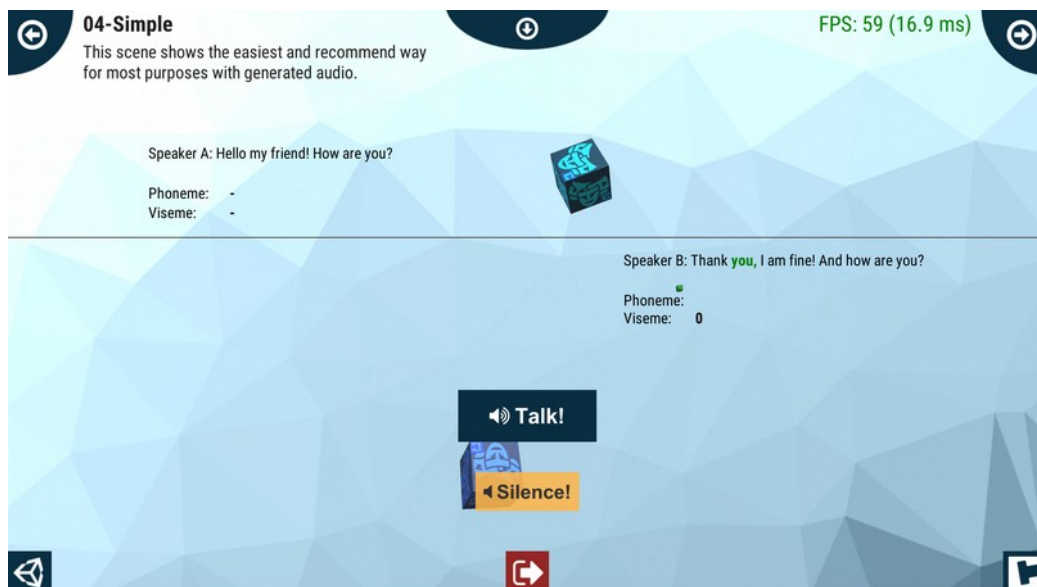
### 3.3. SimpleNative

The “SimpleNative” scene shows the easiest way for native audio.



### 3.4. Simple

The “Simple” scene shows the easiest and recommended way for most purposes with generated audio.



### **3.5. 3DAudio**

This scene demonstrates 3D positioned and looped audio.

Needs the Unity Standard Characters (Assets → Import Packages → Characters).

### **3.6. Loudspeakers**

This scene demonstrates 3D positioned loudspeakers with only one audio origin (looped).

Needs the Unity Standard Characters (Assets → Import Packages → Characters).

### **3.7. SendMessage**

This scene shows the usage of Unity's "SendMessage".

### **3.8. Sequencer**

This scene shows the usage of our simple sequencer.

### **3.9. Exact and Exact\_Native**

These two scenes are showing how you can build applications with exact timing between audio and animations (e.g. lip sync).

### **3.10. SpeechText**

This scene shows how to speak or store generated audio (see the result inside the folder "\_generatedAudio").

### **3.11. SpeechText**

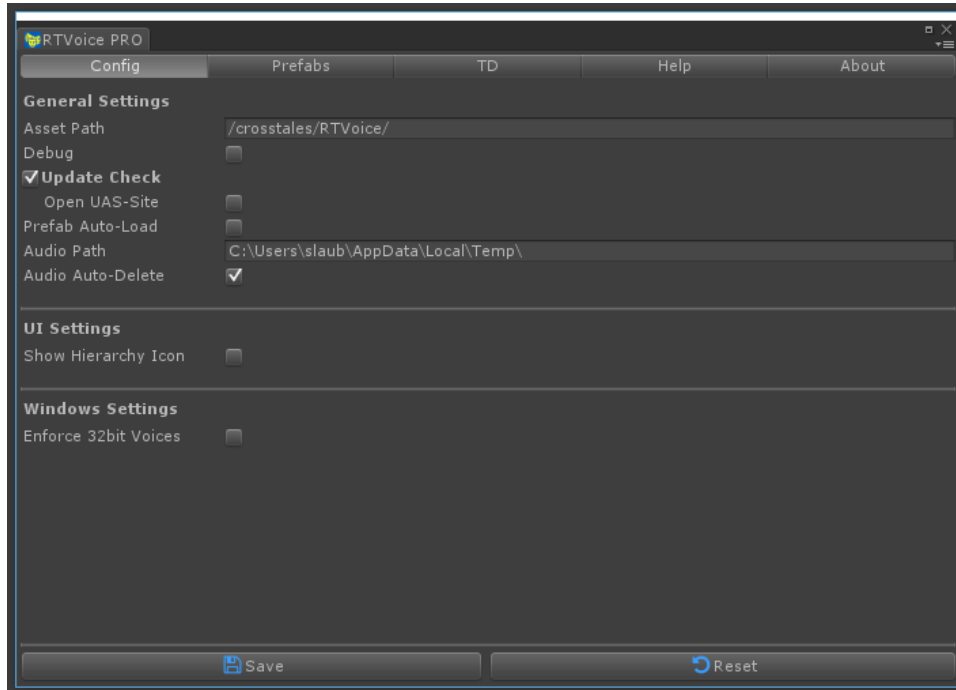
This scene shows how to speak text files with a voice (e.g. random dialogues of NPCs).

### **3.12. AudioFileGenerator**

This scene shows how-to generate audio files from text files.

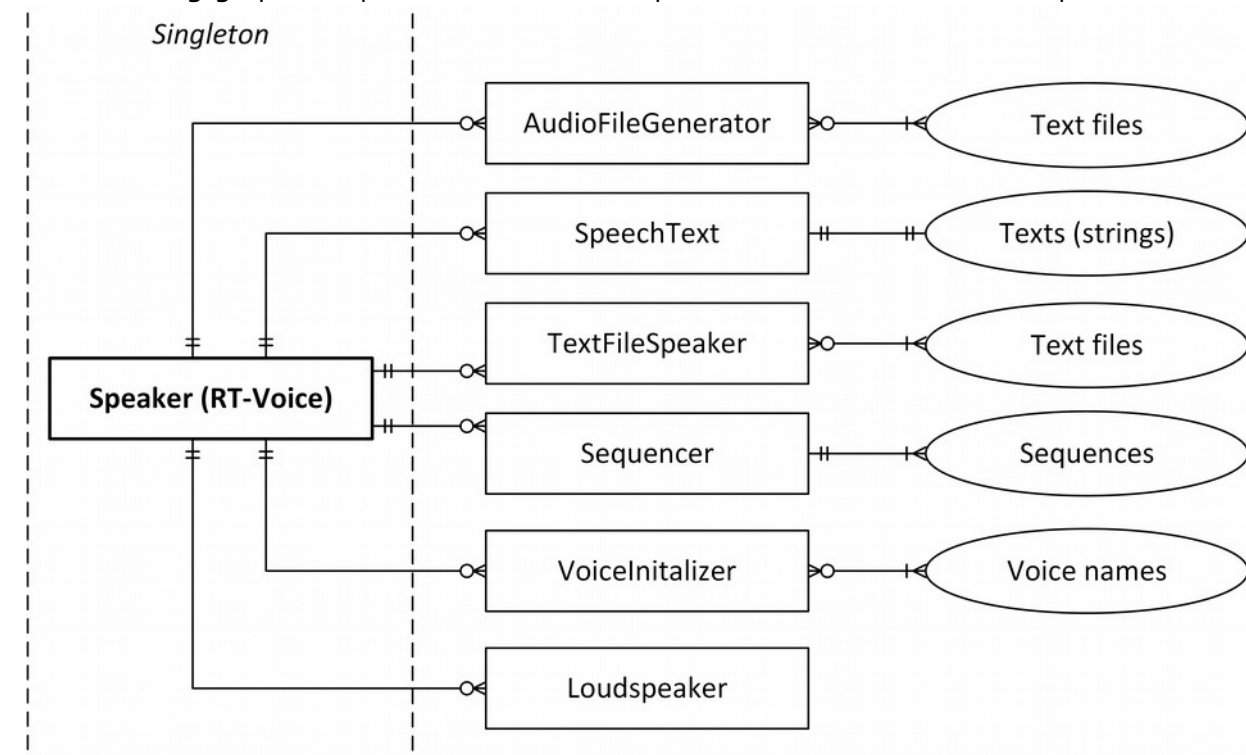
## 4. Setup

RT-Voice has global settings under "Edit\Preferences..." and under "Tools\RTVoice PRO\ Configuration...":



### 4.1. Schema

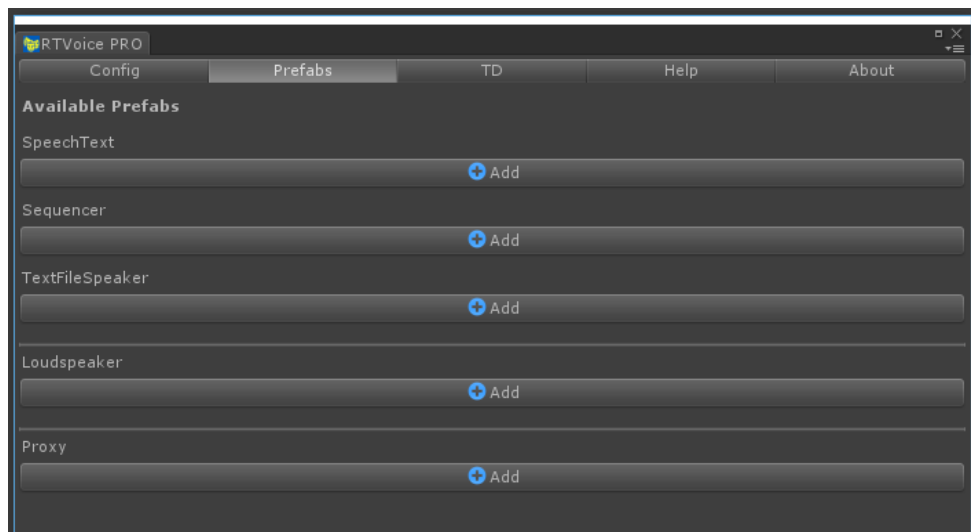
The following graphic explains the relationships between all relevant components:



## 4.2. Add RT-Voice

There are four ways to add RT-Voice to your project:

1. Add the prefab **RTVoice** from Assets/Plugins/crosstales/RTVoice/Prefabs to the scene
2. Or go to *Tools => RTVoice PRO => Prefabs => RTVoice*
3. Right-click in the *hierarchy-window => RTVoice PRO => RTVoice*
4. Add it from the Prefabs-tab:



## 4.3. Other components

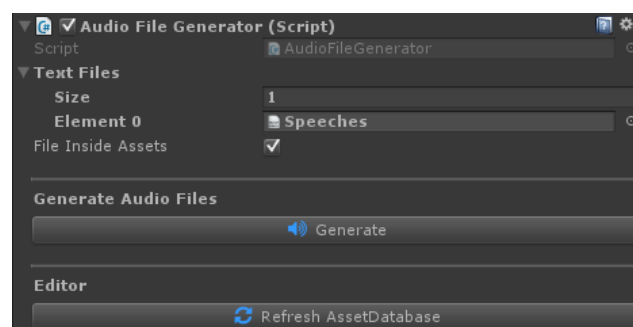
The other components can be added in the same way as "RTVoice".

### 4.3.1. AudioFileGenerator

This scene generates audio files from text files with lines like:

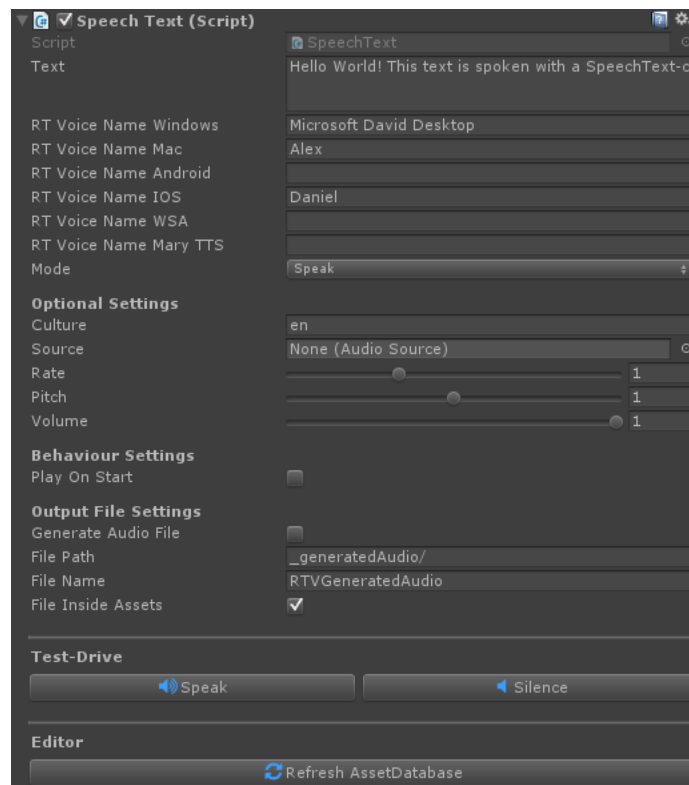
`#Text;Output file (without extension);Voice name;Rate;Pitch;Volume`

`This is a test speech;Speeches\Mary01;cmu-slt-hsmm;1.2;0.85;0.95`



### 4.3.2. SpeechText

Allows to speak and store generated audio.

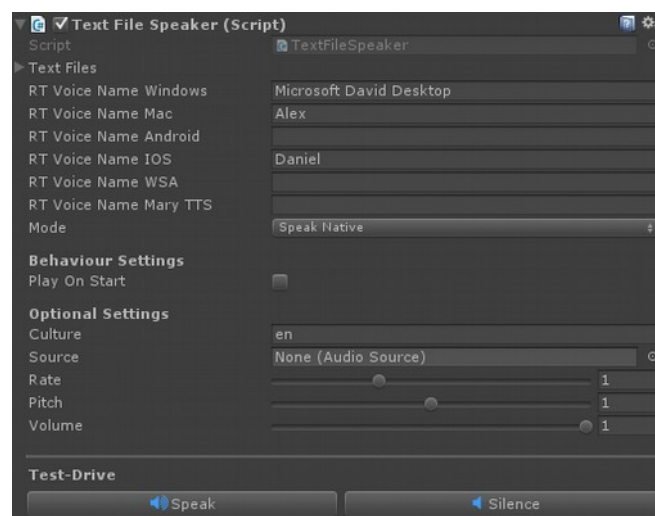


### 4.3.3. Sequencer

Simple sequencer for dialogues.

### 4.3.4. TextFileSpeaker

Allows to speak text files.



#### 4.3.5. Loudspeaker

Loudspeaker for an AudioSource.

This is useful to use a speech on multiple locations in the game.

#### 4.3.6. VoiceInitializer

This component allows to initialize voices to provide lag-free speeches. It's especially useful for Android.

Add it together with RT-Voice to your first scene (e.g. splash screen).

### 4.4. Differences between standard and native mode

In the **standard** mode the TTS-system of your OS will **convert** your text to an **audio** file and return it to **Unity** as an "**AudioSource**" for further use (like changing the volume, pitch etc.).

On the other hand, the **native** mode **delegates** the speech-task **entirely** to the underlying TTS-system (outside of Unity). You are **losing** some **control** but it uses slightly **less performance**.

We clearly **recommend** using the **standard** mode.

## 4.5. Speaker.cs vs. LiveSpeaker.cs

"Speaker.cs" is the main class of "RT-Voice" and presents the API via static methods. "LiveSpeaker.cs" on the other hand is a wrapper for "Speaker.cs" and presents the API as normal C#-instance via public methods. The main usage of "LiveSpeaker.cs" is as a receiver for "SendMessage"-calls.

## 4.6. MaryTTS

MaryTTS is an open-source TTS with a server, client and many voices.

It enables TTS under all Unity platforms.

You can customize everything by yourself, just follow their guides:

<http://mary.dfki.de/>

To enable MaryTTS, simply check "MaryTTS" in the RTVoice-component and configure the URL and port.

### 4.6.1. Important

The default server in RT-Voice is the test server from MaryTTS.

**Never release** a product with the **default configuration** and install your own server (local/remote)!

### 4.6.2. Account for our MaryTTS-service

We offer a service for MaryTTS. It's currently free and in early beta-stage, this means it could be sometimes slow or unavailable.

If you're interested in getting a test account, [contact us](#).

### 4.6.3. Installation guide

We created a guide which should help you install a MaryTTS-server with HTTPS (needed for the WebGL-platform).

You can find it under "Assets/crosstales/RTVoice/Documentation/MaryTTS.pdf".



## 5. API

The asset contains various methods and the most important are explained here.

Make sure to **include** the **name space** in your relevant source files:

```
using Crosstales.RTVoice;
```

### 5.1. Speaker

The "Speaker.cs" is a singleton and contains the following static methods.

#### 5.1.1. Speak

Speaks a text with a given voice and optional AudioSource.

For example:

```
//Immediately speak "hello world" with the first available voice  
Speaker.Speak("hello world", audioSource);
```

```
//Immediately speak "hello world" with the first English voice (if available  
else it uses the first voice on your OS)  
Speaker.Speak("hello world", audioSource, Speaker.VoiceForCulture("en"));
```

```
// Prepare speak "hello world" with the first available voice (without  
AudioSource.Play() - this is up to you). With this technique, you can prepare  
all audio texts of a scene and you can modify the AudioSource as you like!  
Speaker.Speak("hello world", audioSource, null, false);
```

#### 5.1.2. SpeakNative

Speaks a text with a given voice.

For example:

```
//Speak "hello world" with the first available voice  
Speaker.SpeakNative("hello world");
```

```
//Speak "hello world" with the first English voice (if available else it uses  
the first voice on your OS)  
Speaker.SpeakNative("hello world", Speaker.VoiceForCulture("en"));
```

### 5.1.3. Silence

Silence all active TTS-voices.

Example:

```
//Silence all voices  
Speaker.Silence();
```

### 5.1.4. Voices

```
List<Voice> Voices
```

Returns all available voices (alphabetically ordered by 'Name').

### 5.1.5. VoicesForGender

```
List<Voice> VoicesForGender(Model.Enum.Gender gender, string culture)
```

Returns all available voices for a given gender and optional culture (alphabetically ordered by 'Name').

### 5.1.6. VoiceForGender

```
Voice VoiceForGender(Model.Enum.Gender gender, string culture, int index,  
string fallbackCulture)
```

Returns a voice for the given gender and optional culture/index/fallbackCulture.

### 5.1.7. VoicesForCulture

```
List<Voice> VoicesForCulture(string culture)
```

Returns all available voices for a given culture (alphabetically ordered by 'Name').

### 5.1.8. VoiceForCulture

```
Voice VoiceForCulture(string culture, int index, string fallbackCulture)
```

Returns a voice for the given culture and optional index/fallbackCulture.

### **5.1.9. VoiceForName**

voice VoiceForName(string name)

Returns the voice for the given name or null if not found.

### **5.1.10. Cultures**

List<string> Cultures

Returns all available cultures (alphabetically ordered by 'Culture').

## 5.2. Callbacks

There are various callbacks available. Subscribe them in the "OnEnable"-method and unsubscribe in "OnDisable".

### 5.2.1. Voices ready

```
VoicesReady();
```

```
VoicesReady OnVoicesReady;
```

Triggered as soon as the voices of a provider are ready to use.

### 5.2.2. Speak start and complete

```
SpeakStart(wrapper wrapper);
```

```
SpeakStart OnSpeakStart;
```

Triggered whenever a speak is started.

```
SpeakComplete(wrapper wrapper);
```

```
SpeakComplete OnSpeakComplete;
```

Triggered whenever a native speak is completed.

### 5.2.1. Current word (native, Windows and iOS only)

```
SpeakCurrentWord(wrapper wrapper, string[] speechTextArray, int wordIndex);
```

```
SpeakCurrentWord OnSpeakCurrentWord;
```

Triggered whenever a new word is spoken (native, Windows and iOS only).

### 5.2.2. Current phoneme (native, Windows only)

```
SpeakCurrentPhoneme(wrapper wrapper, string phoneme);
```

```
SpeakCurrentPhoneme OnSpeakCurrentPhoneme;
```

Triggered whenever a new phoneme is spoken (native mode, Windows only).

### 5.2.3. Current viseme (native, Windows only)

```
SpeakCurrentViseme(wrapper wrapper, string viseme);
```

```
SpeakCurrentViseme OnSpeakCurrentViseme;
```

Triggered whenever a new viseme is spoken (native mode, Windows only).

#### 5.2.4. Speak audio generation start and complete

`SpeakAudioGenerationStart(wrapper wrapper);`

`SpeakAudioGenerationStart` **`OnSpeakAudioGenerationStart`**;

Triggered whenever a speak audio generation is started.

`SpeakAudioGenerationComplete(wrapper wrapper);`

`SpeakAudioGenerationComplete` **`OnSpeakAudioGenerationComplete`**;

Triggered whenever a speak audio generation is completed.

#### 5.2.5. Provider change

`ProviderChange(string provider);`

`ProviderChange` **`OnProviderChange`**;

Triggered whenever a provider changes (e.g. from Windows to MaryTTS).

#### 5.2.6. Errors

`ErrorInfo(string info);`

`ErrorInfo` **`OnErrorInfo`**;

Triggered whenever an error occurs.

### 5.2.7. Example

Get informed when a speak starts and completes:

```
public void OnEnable() {  
    // Subscribe event listeners  
    Speaker.OnSpeakStart += speakStartMethod;  
    Speaker.OnSpeakComplete += speakCompleteMethod;  
}  
  
public void OnDisable() {  
    // Unsubscribe event listeners  
    Speaker.OnSpeakStart -= speakStartMethod;  
    Speaker.OnSpeakComplete -= speakCompleteMethod;  
}  
  
public void Start() {  
    Speaker.SpeakNative("Hello world!");  
}  
  
private void speakStartMethod(Model.Wrapper wrapper) {  
    Debug.Log("speakStartMethod: " + wrapper);  
}  
  
private void speakCompleteMethod(Model.Wrapper wrapper) {  
    Debug.LogWarning("speakCompleteMethod: " + wrapper);  
}
```

## 5.3. Complete API

For more details, please see the [RTVoice-api.pdf](#)

## 6. Additional voices

RT-Voice works great with third-party voices (e.g. [IVONA](#), [Cereproc](#) etc.).

### 6.1. Windows

All SAPI5-compatible voices are supported. Microsoft also provides a wide range of voices for different languages:

<https://www.microsoft.com/en-us/download/details.aspx?id=27224>

To install and use those voices follow this manual:

<http://superuser.com/a/872573>

To verify the voices, go to the path "C:\Windows\System32\Speech\SpeechUX" and double-click on "sapi.cpl". You should see the voices in the "Voice selection".

#### 6.1.1. Important

**Don't install** those Microsoft voices or RTVoice won't work:

- hui hui
- hun yee
- han han

### 6.2. MacOS

Apple delivers many voices for different languages. To add or customize them, follow the tutorial below:

<http://osxdaily.com/2011/07/25/how-to-add-new-voices-to-mac-os-x/>

### 6.3. Android

You can add various voices on your Android phone:

<http://www.geoffsimons.com/2012/06/7-best-android-text-to-speech-engines.html>

There is also a possibility to download high quality voices:

<http://www.androidauthority.com/google-text-to-speech-engine-659528/>

## 6.4. iOS

You can only change the quality of the installed voices:

<https://support.apple.com/en-us/HT202362>

## 6.5. WSA (UWP)

No information so far. If you know a working guide, please let us know.

## 6.6. MaryTTS

<http://mary.dfki.de/>

## 6.7. eSpeak

<http://espeak.sourceforge.net/languages.html>

# 7. Setup eSpeak

eSpeak and esSpeak-NG are open-source TTS solutions that work under Windows, macOS, Linux and Android.

To take advantage of it, please install it on your PC.

## 7.1. Windows

[http://sourceforge.net/projects/espeak/files/espeak/espeak-1.48/setup\\_espeak-1.48.04.exe](http://sourceforge.net/projects/espeak/files/espeak/espeak-1.48/setup_espeak-1.48.04.exe)

## 7.2. macOS

<http://sourceforge.net/projects/espeak/files/espeak/espeak-1.45/espeak-1.45.04-OSX.zip>

## 7.3. Linux

```
sudo apt-get install espeak
```

## 7.4. eSpeak-NG

Please see the installation details:

<https://github.com/espeak-ng/espeak-ng#binaries>



## 8. Third-party support (PlayMaker etc.)

„RT-Voice“ supports various assets from other publishers. Please import the desired packages from the „3rd party“-folder.

## 9. Verify installation

Check if RT-Voice is installed:

```
#if CT_RTV
    Debug.Log("RTV installed: " + Util.Constants.ASSET_VERSION);
#else
    Debug.LogWarning("RTV NOT installed!");
#endif
```

## 10. Upgrade to new version

Follow this steps to upgrade your version of "RT-Voice PRO":

1. Update "RT-Voice PRO" to the latest version from the "Unity AssetStore"
2. Inside your project in Unity, go to menu "File" => "New Scene"
3. Delete the "Assets/Plugins/crosstales/RTVoice" folder from the Project-view<sup>1</sup>
4. Import the latest version downloaded from the "Unity AssetStore"

## 11.Important notes

After this setup, the "RT-Voice" is ready to use. It is important to know that it uses the **singleton**-pattern, which means that **once instantiated**, the "RT-Voice" will **live until** the application is **terminated**.

**Remember:** it must be instantiated before you try to access it! Otherwise it's not possible to use it.

<sup>1</sup> Before 2.9.3: Assets/crosstales/RTVoice

## 12. Problems, improvements etc.

If you encounter any problems with this asset, just [send us an email](#) with a problem description and the invoice number and we will try to solve it.

## 13. Release notes

See "VERSIONS.txt" under "Assets/crosstales/RTVoice/Documentation".

## 14. Credits

The icons are based on [Font Awesome](#).

## 15. Contact and further information

**crosstales** LLC

Schanzeneggstrasse 1

CH-8002 Zürich

Homepage: <https://www.crosstales.com/en/portfolio/rtvoice/>

Email: [rtvoice@crosstales.com](mailto:rtvoice@crosstales.com)

AssetStore: <https://goo.gl/qwtXyb>

Forum: <http://goo.gl/Z6MZMI>

Documentation: <https://www.crosstales.com/media/data/assets/rtvoice/RTVoice-doc.pdf>

API: <http://goo.gl/6w4FyO>










WebGL-Demo: <https://www.crosstales.com/media/data/assets/rtvoice/webgl/>

Windows-Demo: [https://www.crosstales.com/media/data/assets/rtvoice/downloads/RTVoice\\_demo\\_win.zip](https://www.crosstales.com/media/data/assets/rtvoice/downloads/RTVoice_demo_win.zip)

Mac-Demo: [https://www.crosstales.com/media/data/assets/rtvoice/downloads/RTVoice\\_demo\\_mac.zip](https://www.crosstales.com/media/data/assets/rtvoice/downloads/RTVoice_demo_mac.zip)

Android-Demo: <https://www.crosstales.com/media/rtvoice/RTVoice.apk>

## 16. Our other assets

 <p><a href="#">Bad Word Filter</a></p>	<p>The "Bad Word Filter" (aka profanity or obscenity filter) is exactly what the title suggests: a tool to filter swearwords and other "bad sentences".</p>
 <p><a href="#">DJ</a></p>	<p>DJ is a player for external music-files. It allows a user to play his own sound inside any Unity-app. It can also read ID3-tags.</p>
 <p><a href="#">File Browser</a></p>	<p>File Browser is a simple, free wrapper for native file dialogs on Windows and macOS.</p>
 <p><a href="#">Online Check</a></p>	<p>You need a reliable solution to check for <b>Internet availability</b>? Here it is!</p>
 <p><a href="#">Radio</a></p>	<p>Radio allows implementing free music from Internet radio stations into your project.</p>
 <p><a href="#">RSockpol</a></p>	<p>Reliable Socket Policy Server which acts as replacement for Unitys own „sockpol.exe“.</p>
 <p><a href="#">TPS</a></p>	<p>Turbo Platform Switch is a Unity editor extension to reduce the time for assets to import during platform switches. We measured speed improvements up to 100x faster than the built-in switch in Unity.</p>
 <p><a href="#">True Random</a></p>	<p>True Random can generate "true random" numbers for you and your application. The randomness comes from atmospheric noise, which for many purposes is better than the pseudo-random number algorithms typically used in computer programs.</p>
 <p><a href="#">Turbo Backup</a></p>	<p>Turbo Backup is the fastest and safest way to backup your Unity project. It only stores the difference between the last backup, this makes it incredible fast.</p>