



VOCTRO
LABS

**Presentation for
Singing & AI Group**
November 2020

www.voiceful.io



1. Company background
2. Choir singing project (TROMPA)

Team



**JORDI
JANER**


CEO & cofounder



**OSCAR
MAYOR**


CTO & cofounder



**JORDI
BONADA**


Sci. advisor & cofounder



**MERLIJN
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Sci. advisor & cofounder



**OLGA
SLIZOVSKAIA**


Researcher



**HÈCTOR
PARRA**


Full-stack web developer



**MATAN
GOVER**


Researcher



We build
AI voice solutions
*for **creative media** applications*

Spin-off of the Music Technology Group in UPF



Research collaboration with **Yamaha R&D (Japan)**
on Singing Voice Synthesis (1999-2019)

VOCALOID™  YAMAHA



Oscar Mayor
Jordi Bonada
Merlijn Blaauw
Jordi Janer

Voctro Labs spin-off company (2011)



SINGING



SINGING SYNTHESIS

You can write new lyrics or customize existing ones; our incredible technology will sing it for you.

Use cases:

- [Advertising](#)
- [Social apps](#)
- [Music production](#)
- ...

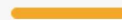


VOCAL CORRECTION

If your users want to sing like pros, Voiceful will correct their voices so they can share it with their friends. Everyone is gifted with a hidden talent!

Use cases:

- [Music production](#)
- [Social apps](#)
- ...



BRAND VOICES

Create your favorite voice! Whether it's a famous personality, a beloved one, or a voice for a brand.

Use cases:

- [Advertising](#)
- [Social apps](#)
- [Music production](#)
- ...



SINGING ANALYSIS

We can extract acoustic and musical information from a voice recording. Data can be sent in real-time, or exported in a readable format to be used in applications such as visualization, classification, monitoring or singing rating.

Use cases:

- Automatic rating
- Rehearsal tools

SPEECH



REAL-TIME VOICE CHANGER

You now can sound like a robot, your son, fasten your speech speed, or shorten it in order to sound chill, now in real time. Options are infinite!

Use cases:

- [Social apps](#)
- [Games / VR](#)
- ...



EMOTIONAL TTS

Give your words expressive voices! Do you need to integrate voices in your videogames, VR games, voice assistants? Then check our applications and demos.

Use cases:

- [Games / VR](#)
- [Voice assistants](#)
- [Social apps](#)
- ...



BRAND VOICES

Create your favorite voice! Whether it's a famous personality, a beloved one, or a voice for a brand.

Use cases:

- [Advertising](#)
- [Social apps](#)
- [Video production](#)
- Deep fakes
- ...



SPEECH ANALYSIS

Real time vocal data to be used in applications such as visualization, lip sync, classification monitoring.

Use cases:

- [Games / VR](#)
- [Social apps](#)
- [Music production](#)



Core Algorithms (DSP)

VoSyn

speech/singing
generation

VoTrans

morphing /
transformation

VoDesc

analysis /
description

VoAlign

alignment
pitch-correction

VoScale

time-scaling/
pitch-shifting

API (Integration)

Standalone SDK

(Mobile, Desktop libraries)

Cloud SDK

(Web Service)

Products & Services





voiceful



Our **Cloud API** is a RESTful API that can be easily integrated into web sites, mobile apps and other SaaS platforms.



Our **Standalone SDK** can be integrated as cross-platform C++ libraries for Mobile (iOS/Android), Desktop or Server applications.



We offer **Custom Services** to extend and customize our technologies for the specific needs of your project idea.

PRICING

*Pay-per-use
subscription*

*Yearly license
(MAU-based tiers)*

Service fee

References



Advertising



Mobile Apps



Games / VR



Voice Assistants



Music Production



Video Production

Some of the current licensing clients:

Tech software corporations

(—) Soundtrap®



Creative media start-ups



Singing synthesis - pop



Singing synthesis - choir

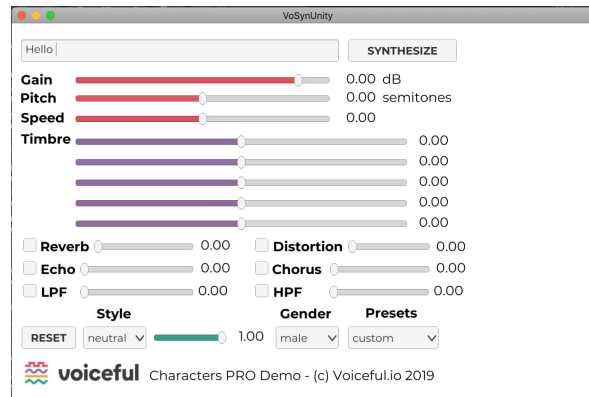


Voices Start bar: 1 End bar: 72 Listen Practice
Soprano
Ros - si - nyol que vas a Fran - ça Ros - si - nyol, en - co - ma - na'm a la ma - re Ros - si - nyol d'un bell bo -
Alto
Ros - si - nyol Ros - si - nyol, en - co - ma - na'm, Ros - si - nyol d'un bell bo -
Tenor
Ros - si - nyol a Fran - ça Ros - si - nyol, en - co - ma - na'm, Ros - si - nyol d'un bell bo -
Bass
Ros - si - nyol, Ros - si - nyol, en - co - ma - na'm, Ros - si - nyol

Emotional Text-to-Speech





Emotional Speech Synthesis



The screenshot shows the VoSynUnity interface with the following controls:

- Text input: "Hello" and a "SYNTHESIZE" button.
- Gain: 0.00 dB
- Pitch: 0.00 semitones
- Speed: 0.00
- Timbre: Four sliders, all at 0.00.
- Reverb: 0.00
- Echo: 0.00
- LPF: 0.00
- Distortion: 0.00
- Chorus: 0.00
- HPF: 0.00
- Style: "neutral" (dropdown)
- Gender: "male" (dropdown)
- Presets: "custom" (dropdown)
- Buttons: "RESET", "neutral", "male", "custom"
- Footer: "voiceful Characters PRO Demo - (c) Voiceful.io 2019"

Voice Conversion

	<i>input</i>	<i>output</i>
Female2Male		
Male2Cartoon		

Voiceful Characters





voiceful

GIVE VOICE TO YOUR IDEAS

Thank you

www.voiceful.io

Powered by **Voctro Labs** - Barcelona

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