CORSEN AI Academy

Text-to-Speech API

Course syllabus

Version 2026-11

Overview

Professional speech synthesis over HTTP and WebSocket: 28 natural voices, expressive tags, streaming, and every audio format.

Learning objectives

- Generate speech through the /v1/tts endpoint, choosing the voice and audio format
- Shape the intonation of a synthetic voice with inline and wrapping expressive tags
- Build a streaming pipeline that feeds an LLM's output into WebSocket speech synthesis
- Manage TTS WebSocket sessions and diagnose the HTTP errors you hit in production
- Keep the API key safe when integrating speech synthesis in the browser

Audience and prerequisites

Developers, engineers, and integrators who want to use Grok through the API in their applications.

Able to read Python or JavaScript and JSON, plus basic command-line skills. An API key from the xAI console to try the examples.

Duration and format

Estimated duration : 1 h. 100% online and self-paced, available 24/7 from any browser. Your progress is saved, so you can pick up where you left off at any time. Estimated time: 1 h.

Content

- HTTP (unary) (4 lessons)
- Expressive tags (4 lessons)
- WebSocket (4 lessons)
- Production (2 lessons)

Assessment

Hands-on exercises throughout the lessons. Each lesson ends with key takeaways for self-assessment. A final quiz of 5 questions with answers, at the end of the last lesson, lets you check what you've learned.

Accessibility

This course is designed to be accessible to people with disabilities: text content compatible with screen readers, keyboard navigation, and compliant color contrast. For any accommodation request, email hello@corsen.ai.

Price and recognition

Free

Certificate of completion issued by Corsen AI.

Access time

Immediate after account creation and email confirmation.

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