



Ideas and Code for TTS for mkdocs

Native Browser API (no library needed)

The Web Speech API is built into modern browsers:

```
const utterance = new SpeechSynthesisUtterance("Hello world");
utterance.rate = 1.0;
utterance.pitch = 1.0;
utterance.voice = speechSynthesis.getVoices()[0];
speechSynthesis.speak(utterance);
```

This works in Chrome, Firefox, Safari, and Edge with no dependencies. Voice quality depends on the OS/browser's installed voices.

Libraries

- **meSpeak.js** — A pure JavaScript port of eSpeak. Works entirely offline, ~1MB, produces robotic but functional speech. Good for environments where you can't rely on browser voices.
- **speak.js** — Similar Emscripten-compiled eSpeak port.
- **ResponsiveVoice.js** — Commercial wrapper that falls back gracefully across browsers, but requires their service for some features.

For your Lecture Forge context, if you're generating audio versions of your lectures, the native **SpeechSynthesis** API would be the simplest starting point. Browser voices have improved significantly — macOS and Windows both include high-quality neural voices now. You'd just need to handle the async nature (voices load lazily) and potentially chunk long text to avoid browser limits.

Want me to show a more complete implementation pattern for longer-form content like lectures?

This is a great addition to your learning workflow! Here's a complete implementation for adding TTS to MkDocs:

Project Structure

