Exploring the potential of the Web Speech API in

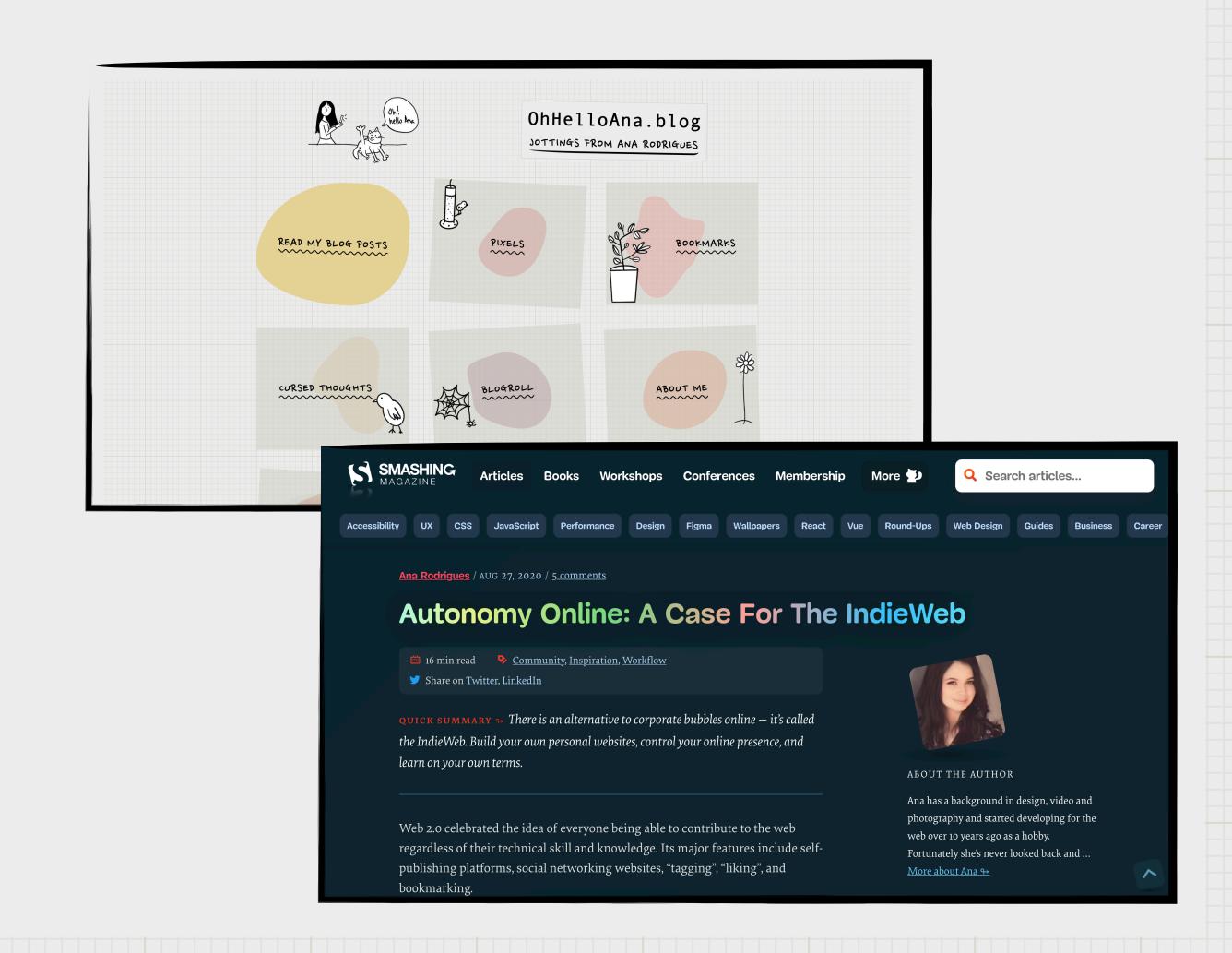


Oh Hello!

I work as a front-end developer at <u>hactar.is</u>.

I spend most of my free time on my blog.

I participate in the IndieWeb community.

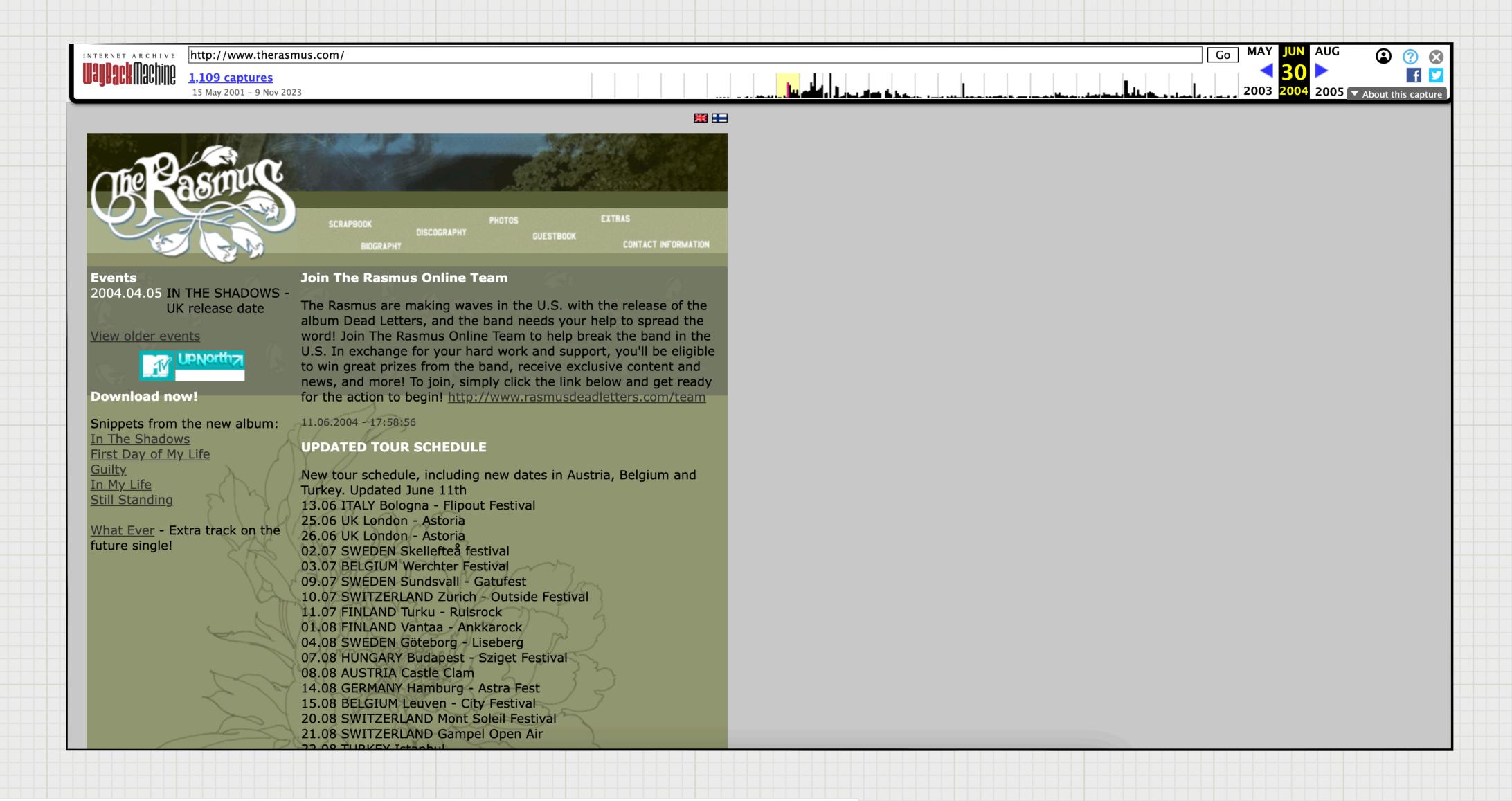


Oh Hello!

I do not represent any browser vendor.

I haven't been to Karaoke since before the pandemic.

I am a big fan of The Rasmus (not a stan).



I had a problem that I needed to fix

Whenever I went karaoke, they only had "In the Shadows" available.

What if we had more than just lyrics on a screen?

What if we could gamify the experience?



Q speech to text

♥ Help Spread DuckDuckGo! ∨

□ All Images □ Videos □ News ○ Maps □ Shopping

Settings

✓ United Kingdom ▼ Safe search: moderate ▼ Any time ▼

Transcription for Teams

Transcribe Your Meeting

Transcription With One Click Easily

notta.ai Report Ad

Notta-speech to text | speech to text |

Efficient and reliable recording transcription tool. Keep your hands free and your mind engaged with our voice-to-text solution

安心のセキュリティ体制・各業界大手の導入事例多数・無料トライアル可能・7日間無料トライアル付

Al Transcription for MP4

Transcription With One Click Easily Transcribe Your Meeting

Transcription for GMeet

Transcription With One Click Easily Transcribe Your Meeting

pega.com Report Ad

Offer Speech to Text Service | Time to Try Conversational Al?

Automate your way to better customer service and improved experiences for your agents. Transform your contact center. Offer streamlined service with voice recognition software.

PegaWorld iNspire Replays · PegaWorld 2023 Replays · Watch a Demo · Al Survey

https://speechnotes.co

Free Speech to Text Online, Voice Typing & Transcription

Speechnotes is a web-based tool that lets you take notes with your voice, or automatically transcribe audio and video recordings. It offers fast, accurate and private transcription, as well as features like voice commands, automatic capitalization, and integration with other apps and services.

Sign in

Speech to Text online notepad. Professional, accurate & free speech...

How to

Automatic Transcription for Recorded Audio, Video & YouTubes - User Guide...

Earn Money From Our Affiliates ...

Speechnotes Files Affiliate Program.

Transcribe

Speechnotes dictation utilizes the builtin speech recognition tools provided b...

New API & Zapier Integration

Webhooks - Hands On Guide. Speechnotes will send transcription..

Extract Audio From Videos

Copy speechnotes_audio_extractor.bat

Speech recognition

Speech recognition is an interdisciplinary subfield of computer science and computational linguistics that develops methodologies and technologies that enable the recognition and translation of spoken language into text by computers. It is also known as automatic speech recognition, computer speech recognition or speech to text. Wikipedia

V

Share Feedback

Windows Speech To Text App | Speak Text Into Any Text Field (AD)

Save Lots of Time by Typing With Your Voice at 99% Accuracy. Works in ALL Applications. Takes Zero Training. 5x Faster than Typing. Install in Seconds. 66 Languages. Try For Free

Share Feedback

So let's talk about the Web Speech API

In particular, the speech recognition.

W3C**

Speech Input API Specification

Editor's Draft 18 October 2010

Latest Editor's Draft:

http://dev.w3.org/...

Editors:

Satish Sampath, Google Inc. Bjorn Bringert, Google Inc.

Copyright © 2010 W3C® (MIT, ERCIM, Keio), All Rights Reserved. W3C liability, trademark and document use rules apply.

Abstract

This specification extends HTML and defines an API that provides speech recognition and input to web pages.

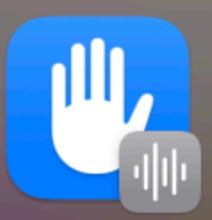
Status of This Document

This section describes the status of this document at the time of its publication. Other documents may supersede this document. A list of current W3C publications and the lates technical report can be found in the W3C technical reports index at http://www.w3.org/TR/.

This document is an API proposal from Google Inc. to the <u>HTML Speech Incubator Group</u>. If you wish to make comments regarding this document, please send them to <u>public-y</u> (<u>subscribe</u>, <u>archives</u>).

All feedback is welcome.

ohhelloana.blog



"Safari" Would Like to Access Speech Recognition.

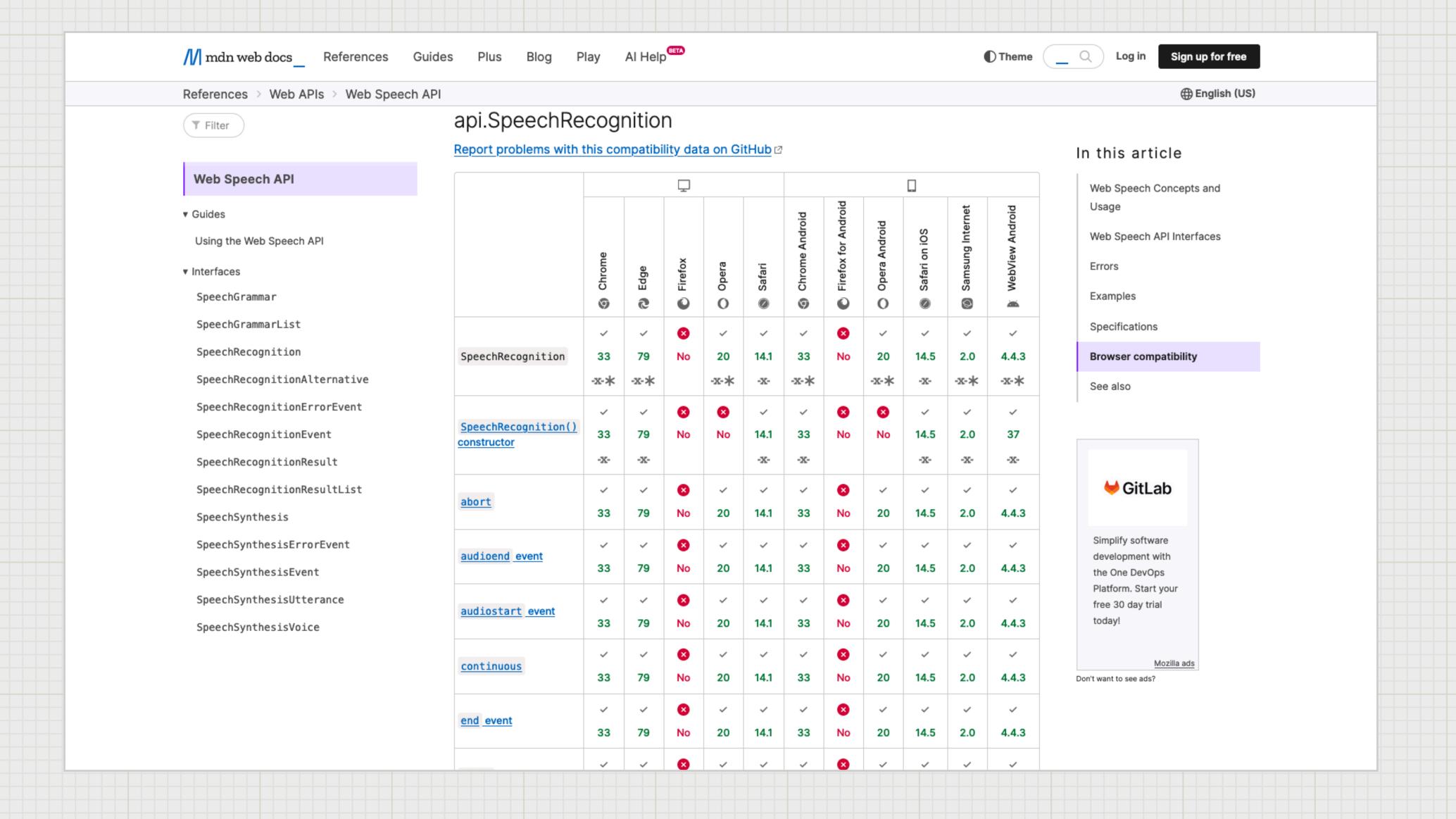
Speech data from this app will be sent to Apple to process your requests. This will also help Apple improve its speech recognition technology.

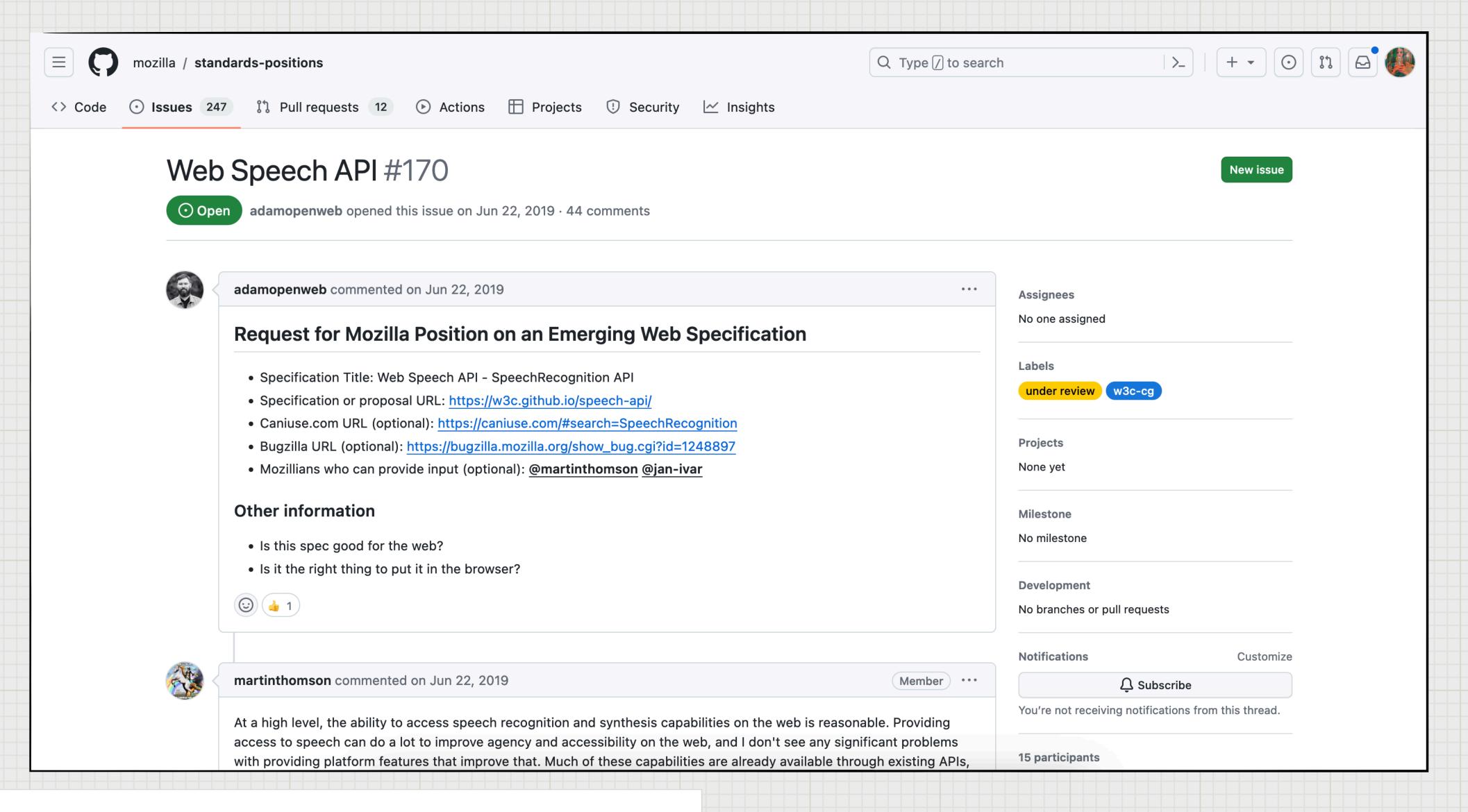
Websites you visit may access speech recognition.

Don't Allow

OK

Note: On some browsers, like Chrome, using Speech Recognition on a web page involves a server-based recognition engine. Your audio is sent to a web service for recognition processing, so it won't work offline.





https://github.com/mozilla/standards-positions/issues/170

ohhelloana.blog

Demo

play>

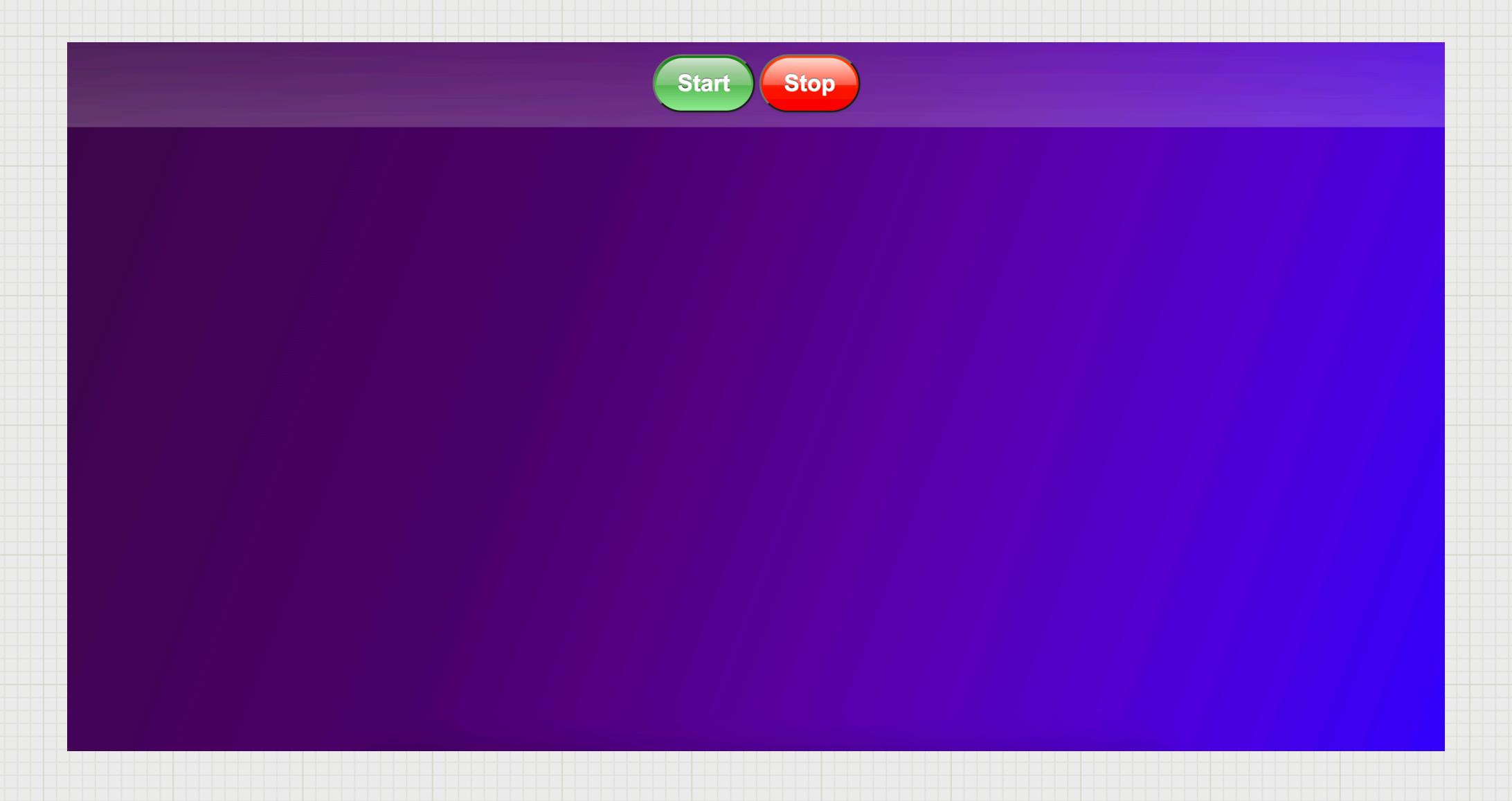
<script type="text/javascript" src="karaoke.js"></script>

```
<div class="controls">
    <button id="play">Start</button>
    <button id="stop">Stop</button>
</div>
<div class="realTimeTranscription">
</div>
                                                               play>
```

<script type="text/javascript" src="karaoke.js"></script>

```
<div class="controls">
   <button id="play">Start</button>
    <button id="stop">Stop</button>
</div>
<div class="realTimeTranscription">
</div>
<audio id="myAudio" class="karaoke__audio" preload="auto" autoplay>
    <source src="song.mp3" type="audio/mpeg"/>
    Your browser does not support the audio element.
</audio>
<script type="text/javascript" src="karaoke.js"></script>
```

```
<div class="controls">
   <button id="play">Start</button>
   <button id="stop">Stop</button>
</div>
<div class="realTimeTranscription">
</div>
<audio id="myAudio" class="karaoke__audio" preload="auto" autoplay>
   <source src="song.mp3" type="audio/mpeg"/>
   Your browser does not support the audio element.
</audio>
<script type="text/javascript" src="karaoke.js"></script>
```



```
ana.blog
window.SpeechRecognition = window.SpeechRecognition || window.webkitSpeechRecognition;
const recognition = new SpeechRecognition();
recognition.interimResults = true;
recognition.lang = 'en-GB';
recognition.continuous = false;
let p = document.createElement('p');
const realTimeTranscription = document.querySelector('.realTimeTranscription');
realTimeTranscription.appendChild(p);
let transcript;
recognition.addEventListener('result', e => {
  transcript = Array.from(e.results)
    .map(result => result[0])
    .map(result => result.transcript)
    .join('');
    p.textContent = transcript;
    if (e.results[0].isFinal) {
      p = document.createElement('p');
      realTimeTranscription.appendChild(p);
});
recognition.addEventListener('end', recognition.start);
```

ana.blog

```
window.SpeechRecognition = window.SpeechRecognition || window.webkitSpeechRecognition;
const recognition = new SpeechRecognition();
recognition.interimResults = true;
recognition.lang = 'en-GB';
recognition.continuous = false;
let p = document.createElement('p');
const realTimeTranscription = document.querySelector('.realTimeTranscription');
realTimeTranscription.appendChild(p);
let transcript;
recognition.addEventListener('result', e => {
  transcript = Array.from(e.results)
    .map(result => result[0])
    .map(result => result.transcript)
    .join('');
    p.textContent = transcript;
    if (e.results[0].isFinal) {
      p = document.createElement('p');
      realTimeTranscription.appendChild(p);
});
recognition.addEventListener('end', recognition.start);
```

```
var lyrics = [
    { text: "Twinkle twinkle little star", start: "5", end: "11.2" },
    { text: "How I wonder what you are", start: "11.9", end: "17" },
    { text: "Up above the world so high", start: "17.7", end: "23.1" },
    { text: "Like a diamond in the sky", start: "23.3", end: "29.2" },
    { text: "Twinkle twinkle little star", start: "30", end: "35.1" },
    { text: "How I wonder what you are", start: "35.5", end: "42" }
];
```

What is happening here?

- When the speech recognition is initiated, the song will also start.
- We'll check if the current time falls between the start and end of that lyric line.
- If yes, let's add a class showing that it is the current lyric line.

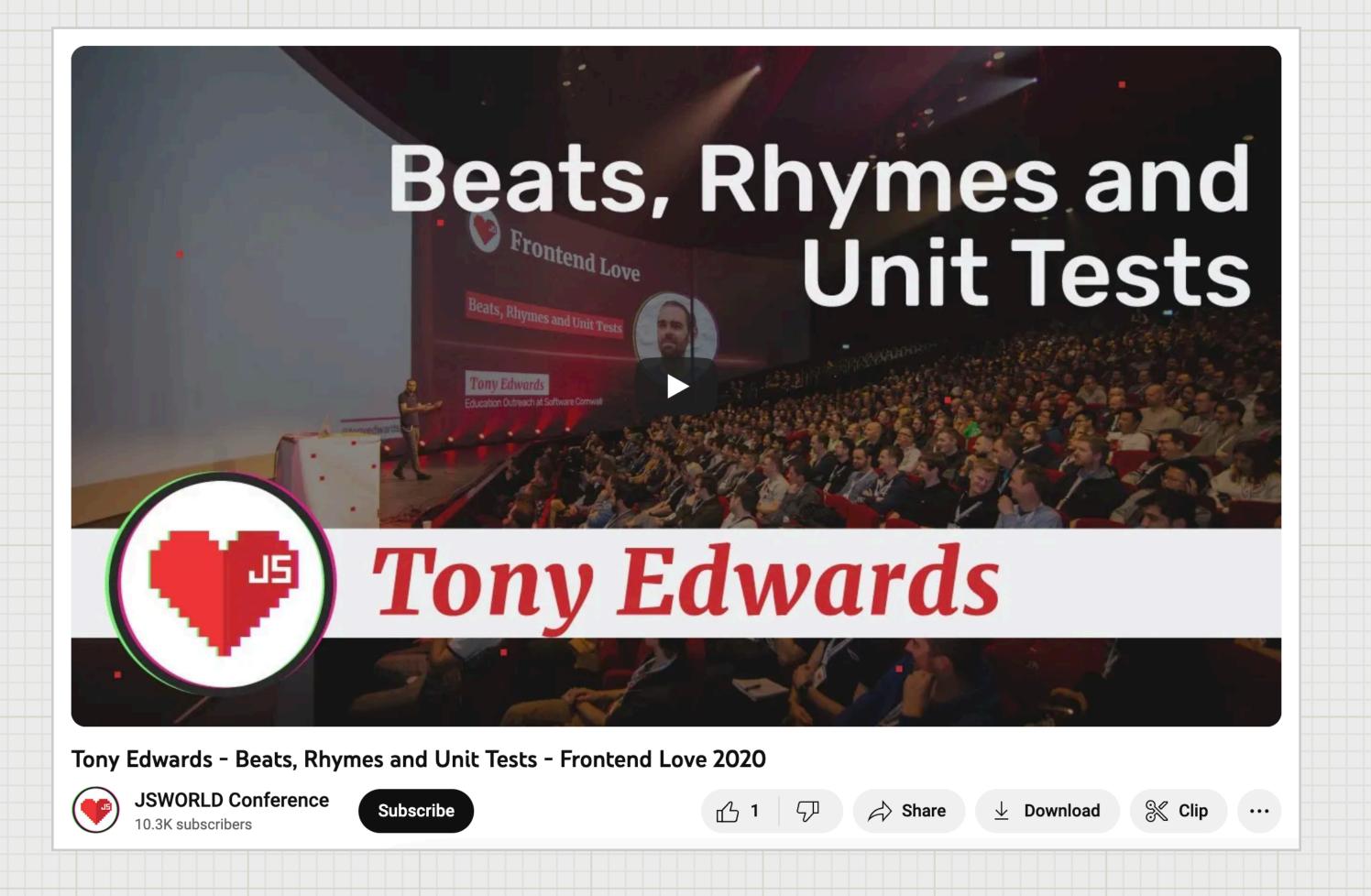
```
startbtn.addEventListener("click", () => {
    recognition.start();
    music.play().then(() => {
        music.addEventListener("timeupdate", (e) => {
            lyrics.forEach((songLine, index) => {
                tempTranscript = transcript;
                var currentLine = lyricsList.children[index].firstChild;
                if (e.target.currentTime >= songLine.start &&
                    e.target.currentTime <= songLine.end) {</pre>
                    currentLine.classList.add("karaoke__lyrics-item--
selected");
                    window['line'+index] = tempTranscript;
```

```
startbtn.addEventListener("click", () => {
    recognition.start();
    music.play().then(() => {
        music.addEventListener("timeupdate", (e) => {
            lyrics.forEach((songLine, index) => {
                tempTranscript = transcript;
                var currentLine = lyricsList.children[index].firstChild;
                if (e.target.currentTime >= songLine.start &&
                    e.target.currentTime <= songLine.end) {</pre>
                    currentLine.classList.add("karaoke__lyrics-item--
selected");
                    window['line'+index] = tempTranscript;
```

- If the current time is bigger than the "end" time of a lyric line, add a class that marks it as the past.
- Once that line is in the "past" let's do some checks.

So what's the verdict?

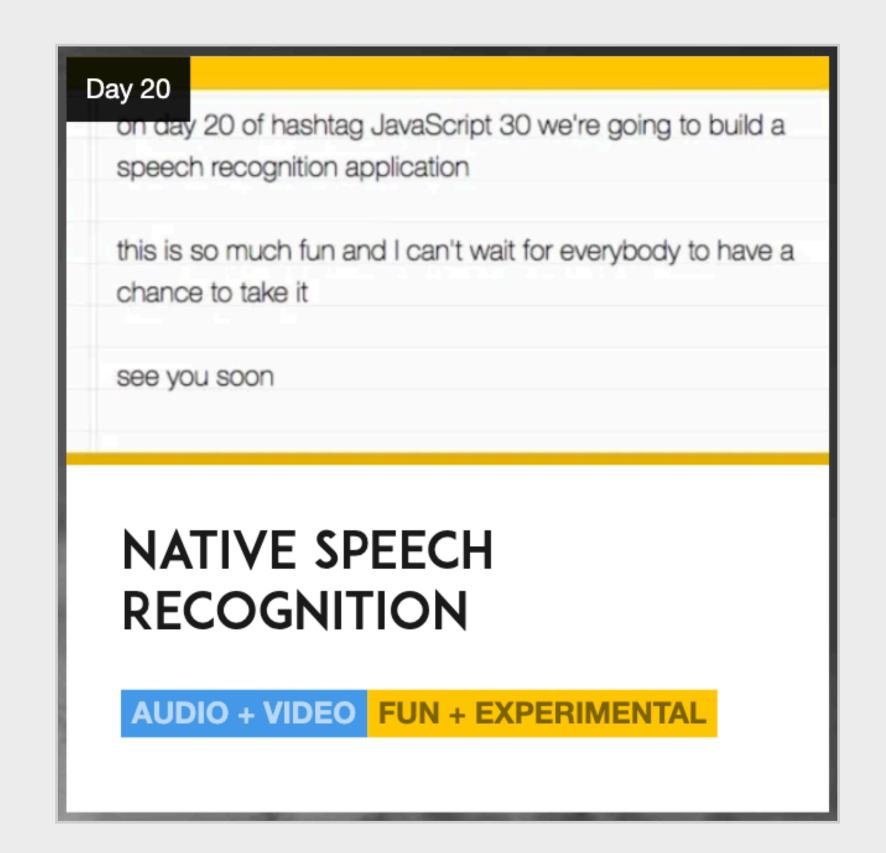
- Okay for small voice notes;
- Not perfect for singing;
- Unlikely to be okay for rap;





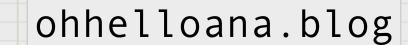
By Stephanie Eckles

https://12daysofweb.dev/2021/speech-api/



By Wes Bos

https://javascript30.com





Web Captioner will sunset and be open sourced on October 31, 2023.

July 26, 2023 By Curt Grimes

Web Captioner will sunset and stop ope continue to access Web Captioner at ht

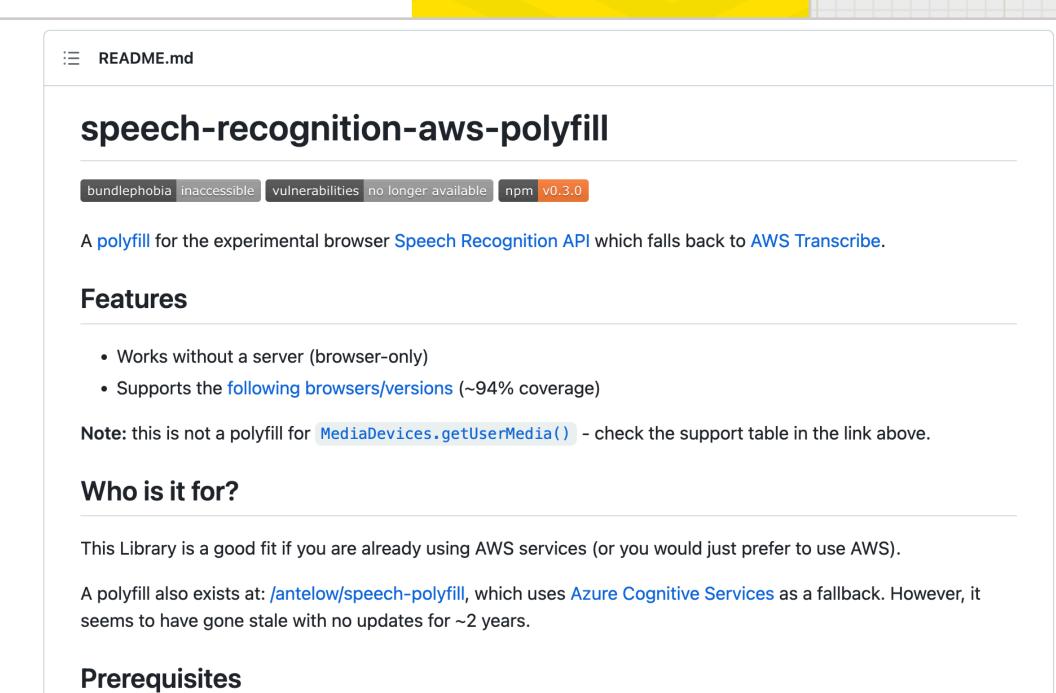
Since its start in 2017, this project has probability and provide some to

As I promised in the past, if I were to su Web Captioner source available on my (31, 2023 after Webcaptioner.com is sun

GO TO WEB CAPTIONER Available

https://github.com/ceuk/speech-recognition-aws-polyfill

https://webcaptioner.com



ceuk CEUK

JamesBrill

Languages

TypeScript 96.3%JavaScript 3.7%

^ \WS account

ognito identity pool (unauthenticated or authenticated) with the TranscribeStreaming permission.

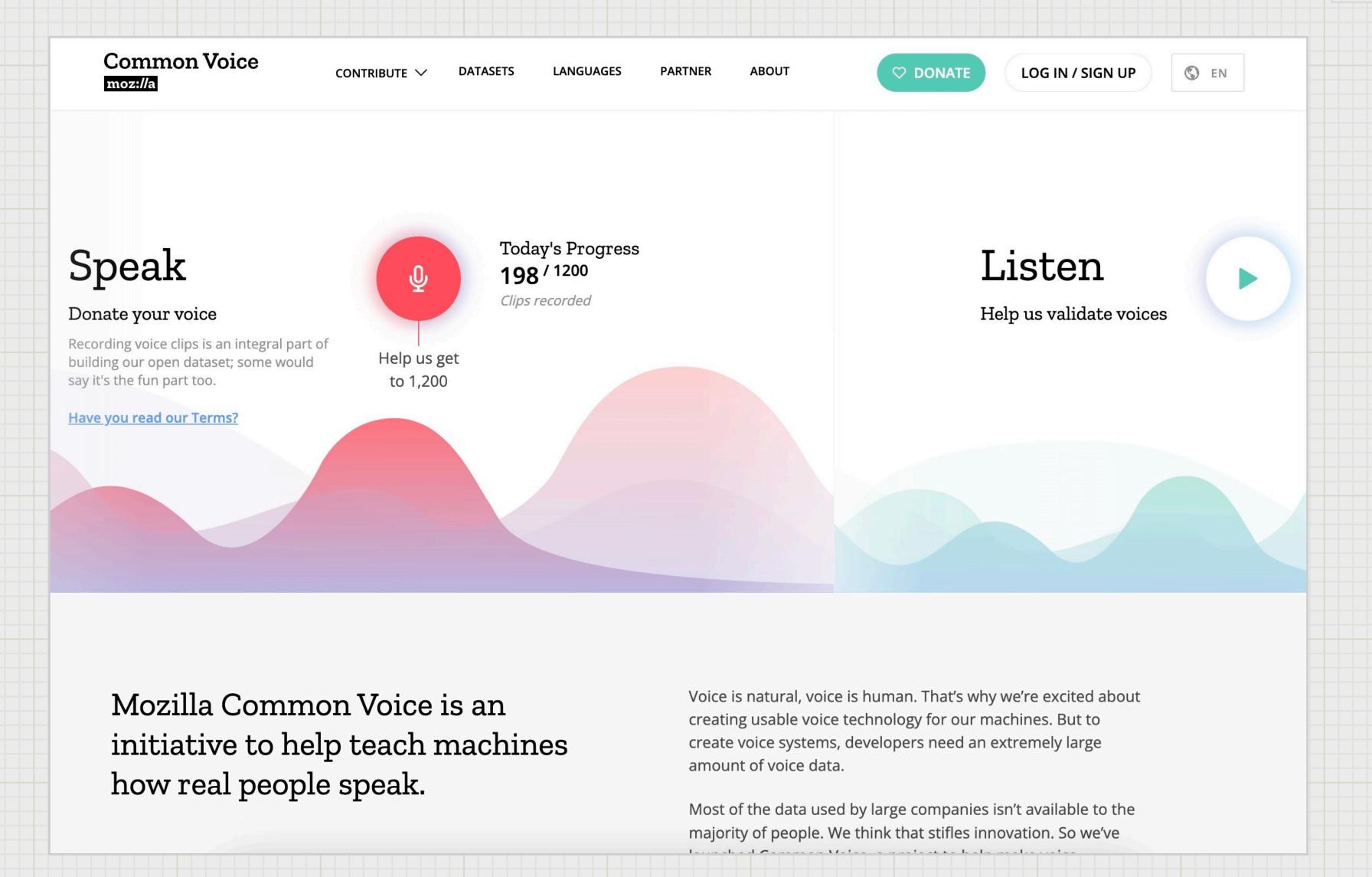
Setup Guide

1 In the AWS console visit the Cognita section and click Manage Identity Dools

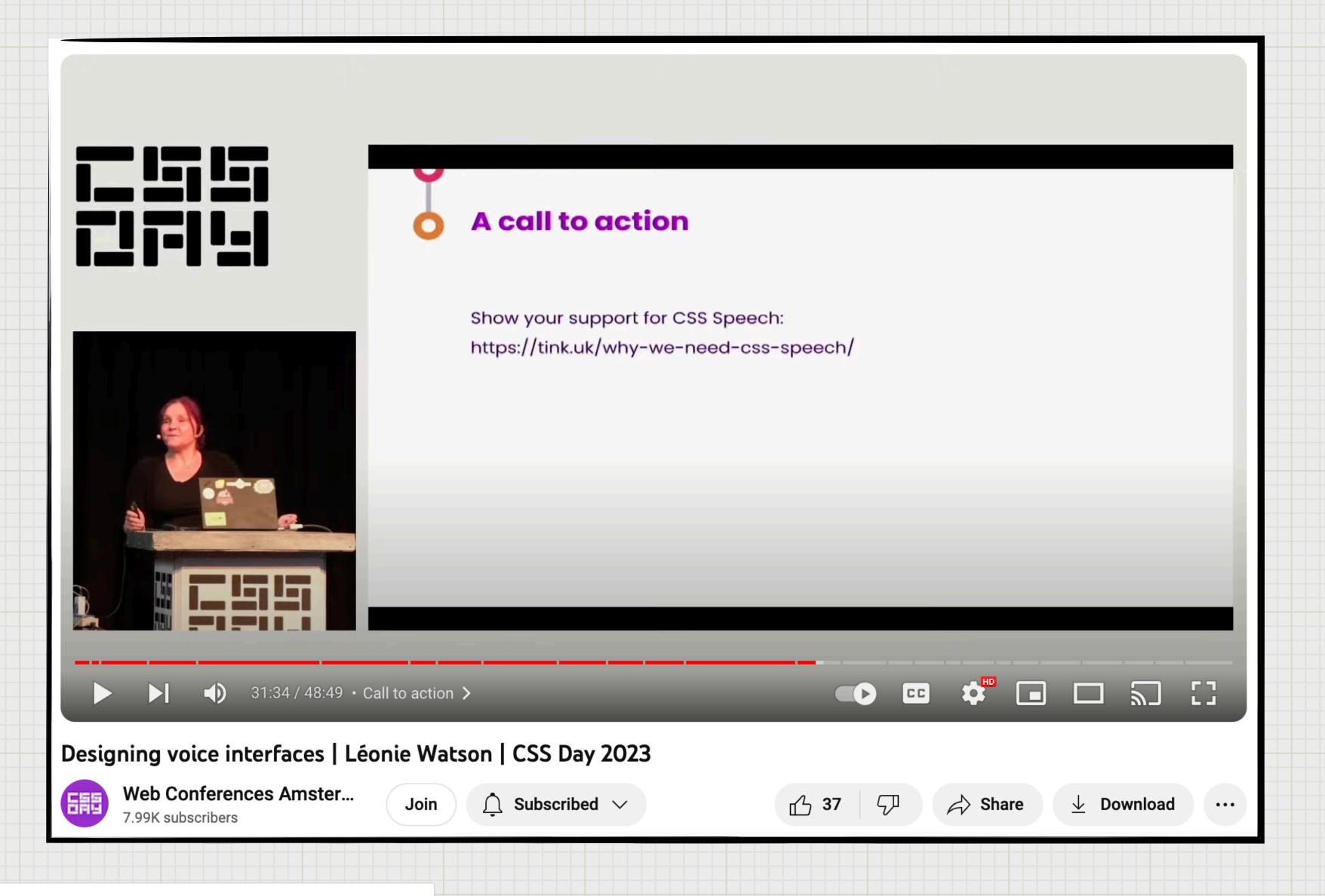
What's next?

I don't know but I would like to see these types of APIs grow as they open a world of FREE creative opportunities.

ohhelloana.blog



https://commonvoice.mozilla.org/en

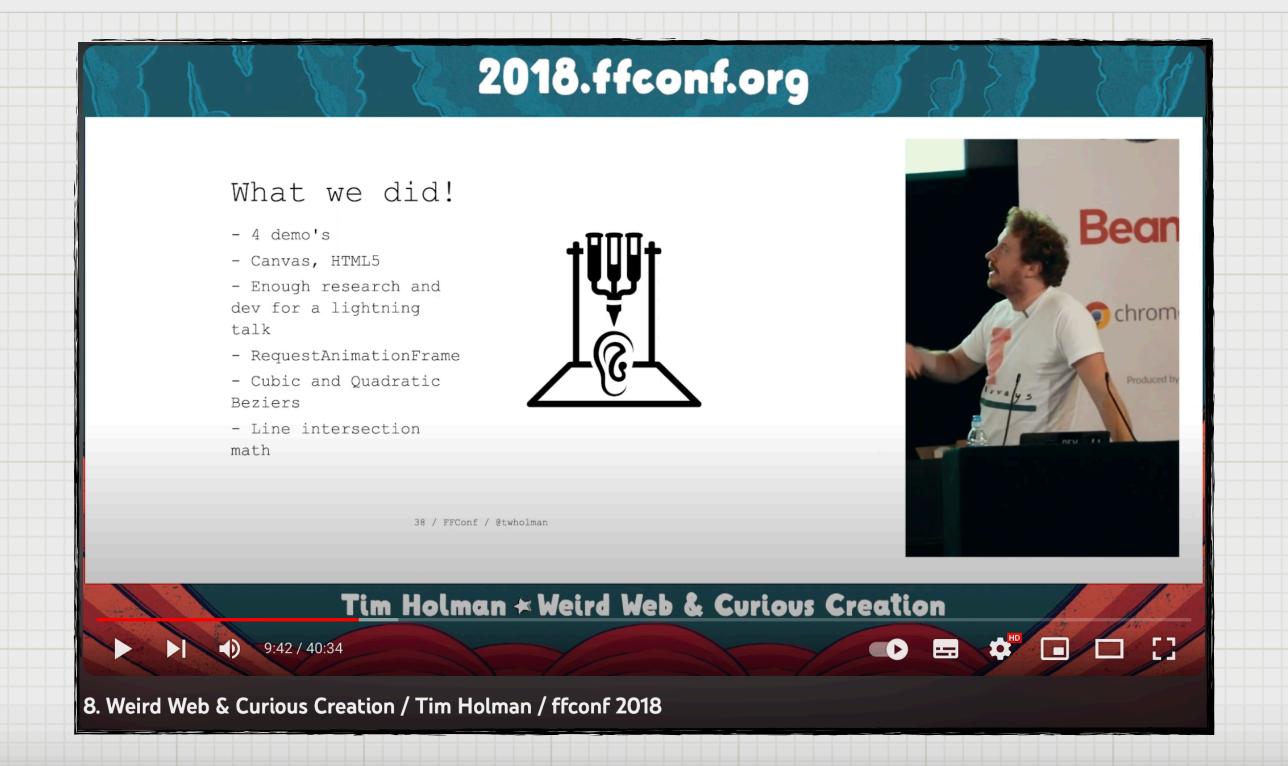


Are you going to use the Web Speech API at work?

Probably not.

"Look at what inspires you"

- Tim Holman, FFConf 2018



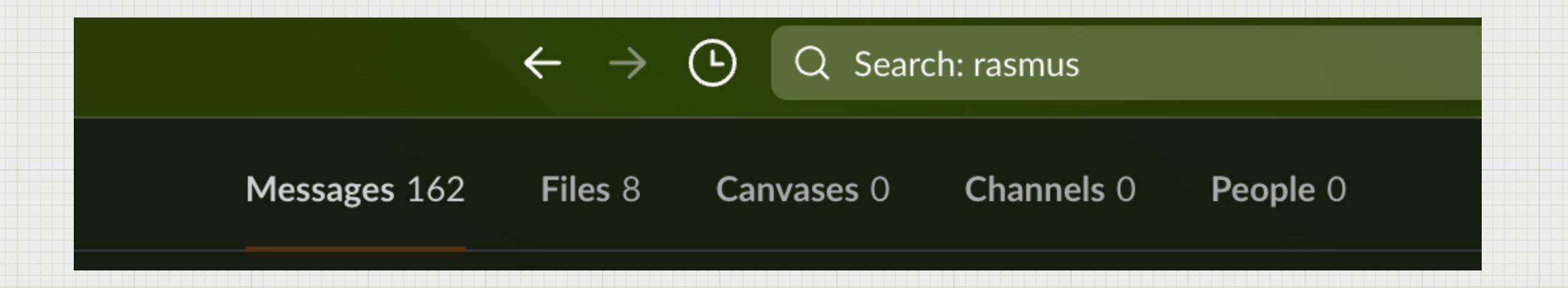
What we did!

- One working demo!
- Experiment with a browser API: WebSpeechApi and HTMLMediaElement
- Lots of javascript
- Content for a talk
- CSS animations
- Read and understand API Specifications

ohhelloana.blog

You can learn by building "useless" things.

ohhelloana.blog



alright let's do this

hello everyone i'm so happy to be here

truly feels like the first day of my life

today is about exploring the potential of the web speech api in karaoke

hello my name is anna kendrick

front-end developer at factor you can find them in websites where i also have a cancer via my personal website

spend as much time as possible turning to my blog

i also participated in the indian community and i've

Thank you!

Find me on my website: ohhelloana.blog



THE RASMUS AND I

MY RASMUS PLAYLIST

