

Text-to-Speech Conversion Using JavaScript

This project demonstrates a simple Text-to-Speech (TTS) conversion using JavaScript. The application takes input text from the user and converts it into spoken words using the Web Speech API.

Table of Contents

- Features
- Demo
- Technologies Used
- Getting Started
- Usage
- Customization
- Contributing
- License

Features

- Converts input text to speech.
- Supports multiple languages and voices.
- Adjustable speech rate and pitch.
- Simple and easy-to-use interface.

Demo

You can view a live demo of the project [\[here\]](#) (Link to be added).

Technologies Used

- HTML5: Markup for the structure of the application.
- CSS3: Styling for the user interface.
- JavaScript: Core functionality for text-to-speech conversion using the Web Speech API.

Getting Started

Prerequisites

- A modern web browser that supports the Web Speech API (e.g., Chrome, Firefox).

Installation

1. Clone the repository:

```
git clone https://github.com/yourusername/text-to-speech-js.git
```

2. Navigate to the project directory:

```
cd text-to-speech-js
```

3. Open index.html in your web browser.

```
open index.html
```

No additional installation or setup is required.

Usage

1. Enter Text: Type the text you want to convert into speech in the input box.
2. Select Language and Voice: Choose your preferred language and voice from the dropdown menus.
3. Adjust Settings: Modify the speech rate and pitch using the sliders provided.
4. Click Speak: Hit the "Speak" button to hear the spoken version of your text.

Customization

Modify Available Voices

The list of voices is fetched dynamically from the browser. To customize which voices are available, you can modify the `populateVoiceList` function in `script.js`.

Change Default Settings

The default rate and pitch settings can be adjusted in the `script.js` file:

```
speechSynthesisUtterance.rate = 1; // Default rate
```

```
speechSynthesisUtterance.pitch = 1; // Default pitch
```

Add More Languages

To add more languages, make sure the browser supports them, and include them in the language selection dropdown.

Contributing

Contributions are welcome! Please follow these steps:

1. Fork the repository.
2. Create a new branch with your feature or bug fix: `git checkout -b feature-name`.
3. Commit your changes: `git commit -m 'Add some feature'`.
4. Push to the branch: `git push origin feature-name`.
5. Open a pull request.

License

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