

Podcast Transcription Tool – Full Overview

Introduction

The **Podcast Transcription Tool** is a powerful, user-friendly utility built directly into a WordPress website using shortcodes. Designed for podcasters, content creators, educators, and professionals, it allows easy transcription of audio and video content into readable text.

It supports:

- YouTube video links
- Direct audio URLs
- Uploaded media files

All content is transcribed using the powerful **AssemblyAI** speech-to-text API. The tool provides a beautiful, emoji-rich UI and is optimized for mobile and desktop users.

Key Features

1. Transcribe MP3 URLs

Users can paste a direct audio link (e.g., ,) and get it transcribed instantly.

2. Transcribe YouTube Videos

Paste a YouTube URL. The tool extracts the video ID, converts it to MP3 using **RapidAPI** and sends it to AssemblyAI for transcription.

3. Upload Media Files

Users can upload their own audio or video file. The file is uploaded to the server and processed.

4. Language Selection

Transcriptions can be generated in multiple languages.

5. Modern UI with Emojis

Designed to look elegant and clean.

- Box layout with padding and shadow
- Emojis to guide users
- Responsive styling

6. Secure API Key Handling

AssemblyAI key is securely saved in the WP admin settings page, only visible to site admins.

7. AJAX Based Workflow

The entire transcription process runs without reloading the page, using secure AJAX calls.


8. Error Handling

Full error support: invalid URLs, API errors, and user input warnings are shown clearly.

Technical Stack

- **PHP:** WordPress shortcode & AJAX handling
 - **JavaScript:** AJAX frontend logic
 - **CSS:** Custom styling for tool box and output
 - **AssemblyAI API:** Speech-to-text transcription
 - **RapidAPI:** YouTube-to-MP3 conversion API
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How It Works (Flow)

1. User pastes a YouTube or MP3 URL OR uploads a media file.
 2. Selects desired transcription language (optional).
 3. Clicks on " Transcribe Now".
 4. The tool:
 5. If YouTube: uses RapidAPI to get MP3
 6. Sends audio URL to AssemblyAI
 7. Waits for response using polling
 8. Once ready, shows transcript in a box below with emojis.
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Who Can Use This?

- Podcasters
 - YouTubers
 - Bloggers
 - Educators
 - Accessibility teams
 - Journalists
 - SEO & content marketers
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Admin Guide

1. Install **Insert PHP Code Snippet** plugin.
 2. Paste the full PHP code into a new snippet.
 3. Save and copy the auto-generated shortcode.
 4. Go to Admin → Settings → Podcast Transcription
 5. Add your **AssemblyAI API Key**.
 6. Add the shortcode `[podcast_transcription_tool]` to any page/post.
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Output Example

URL: `https://www.youtube.com/watch?v=HTcL9wkB_wg`

Output:

```
 Transcription Complete:  
Welcome to our podcast. Today we dive into the power of AI tools for  
productivity...
```

Final Thoughts

This tool brings together modern UI, useful APIs, and simple UX to help users generate podcast transcripts in seconds. With responsive design and secure backend, it's the perfect solution for any website focused on content creation or education.