1. Audio Prep & Browser Opus Extraction

Why Raw Uploads Bottleneck Transcription

Uploading a 48 MB MP4 or uncompressed WAV stalls cloud transcription before inference even starts.

Browser-Local Ogg/Opus Extraction

- Extract audio track client-side before upload (~90% smaller payloads).
- Example: 24m 04s MP4 (48 MB) shrinks to 3.92 MB Ogg/Opus (-91.8%).
- Parallel Whisper Large-v3-Turbo chunks + timestamp stitching across 20 languages.

Browser Tool: VoceText AI Audio & Video Transcription.

Free tier: 3 files/day up to 30 min each (10 hrs/mo), watermark-free, 7-day auto-delete.

2. Subtitle & Export Formats (SRT / VTT / DOCX)

SRT (SubRip) Standard

```
1
00:00: 01,000 --> 00:00: 04,200
Comma separates millis econds in SRT.
```

WebVTT (HTML5 Players)

```
WEBVTT
00:00: 01.000 --> 00:00: 04.200
Period separates millis econds in VTT
.
```

Export Formats by Use Case

- **SRT / VTT:** Premiere Pro, Final Cut, CapCut, YouTube, HTML5 video.
- **DOCX / TXT:** Show notes, articles, editing, client transcripts.
- **JSON:** Word/segment timestamps for search indexes & RAG pipelines.

Converters: Audio to SRT | MP4 to Text.

Keep subtitle lines under 42 chars and 2 lines max for mobile readability.

3. Real-Audio WER & Speed Benchmark (Nov 2026)

Sample 1: NASA SpaceX Crew-1 Briefing (24m 04s, 48 MB MP4)

- **VoceText (Whisper Large-v3-Turbo):** 3.92 MB upload, 55.9 s (25.8x realtime), 4.17% WER (1.78% at chunk seam).
- **TurboScribe Free (Whale):** 151.6 s, 3.91% WER.
- **Otter.ai Basic:** 203.2 s, truncated at 10:40.

Sample 2: 2-Speaker Reverberant Interview (Lancashire, UK)

- **VoceText Pro (Deepgram Nova-3):** ~18 s (fastest), 18.35% WER, 5.45% speaker error.
- **TurboScribe Whale:** 11.15% WER, 0.18% speaker error.

Full CC BY 4.0 Report: Real-Audio Transcription Benchmark.

Test diarization on accented or reverberant recordings before standardizing a workflow.

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Published 29th November, 2026.
Last updated 29th November, 2026.

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