

# *No App, No Setup: Amazon Transcribe in a Box*

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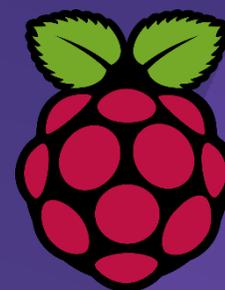
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AWS  
User Groups



# How this started - The challenge

- Live presentations often exclude people due to language or hearing barriers
- Existing solutions are expensive or complicated
- **We wanted:** Something you just plug in between your laptop and screen



# Our Solution

So we developed something!

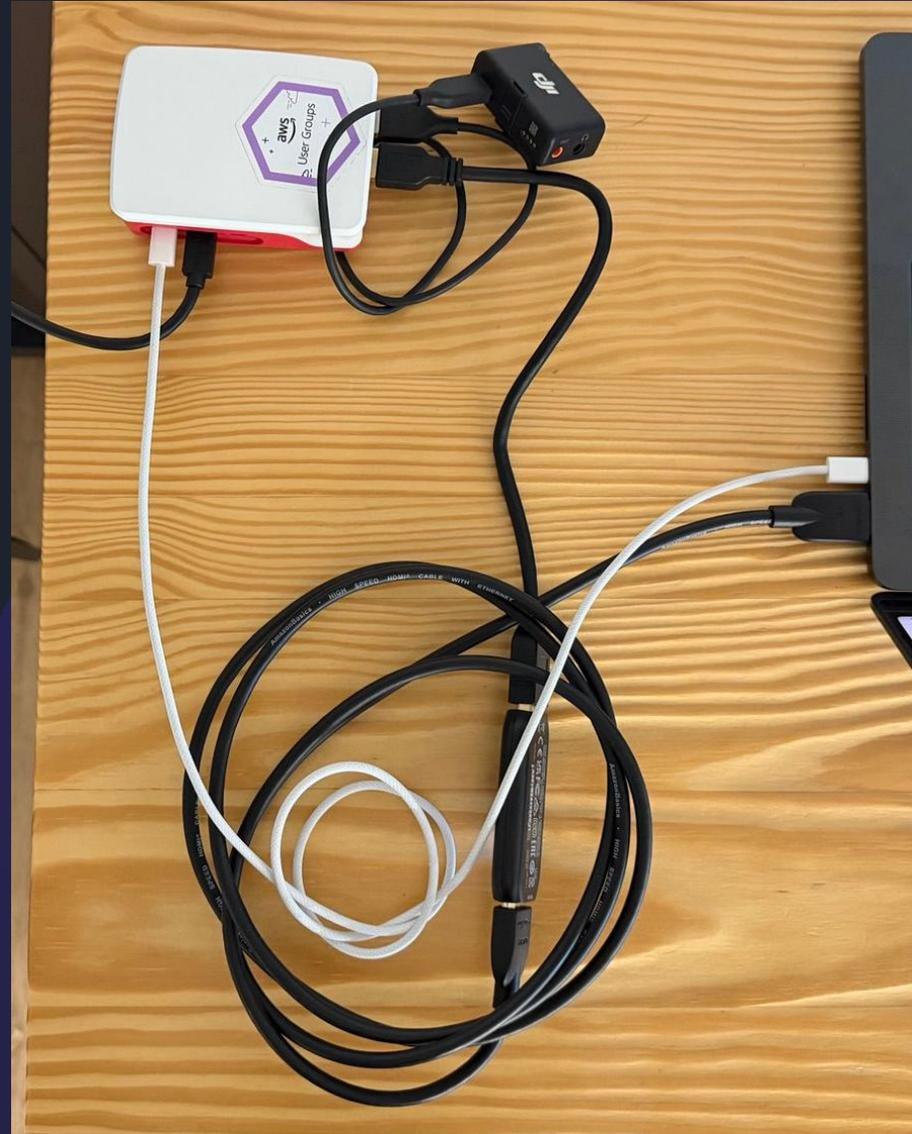


# Our Solution – The concept

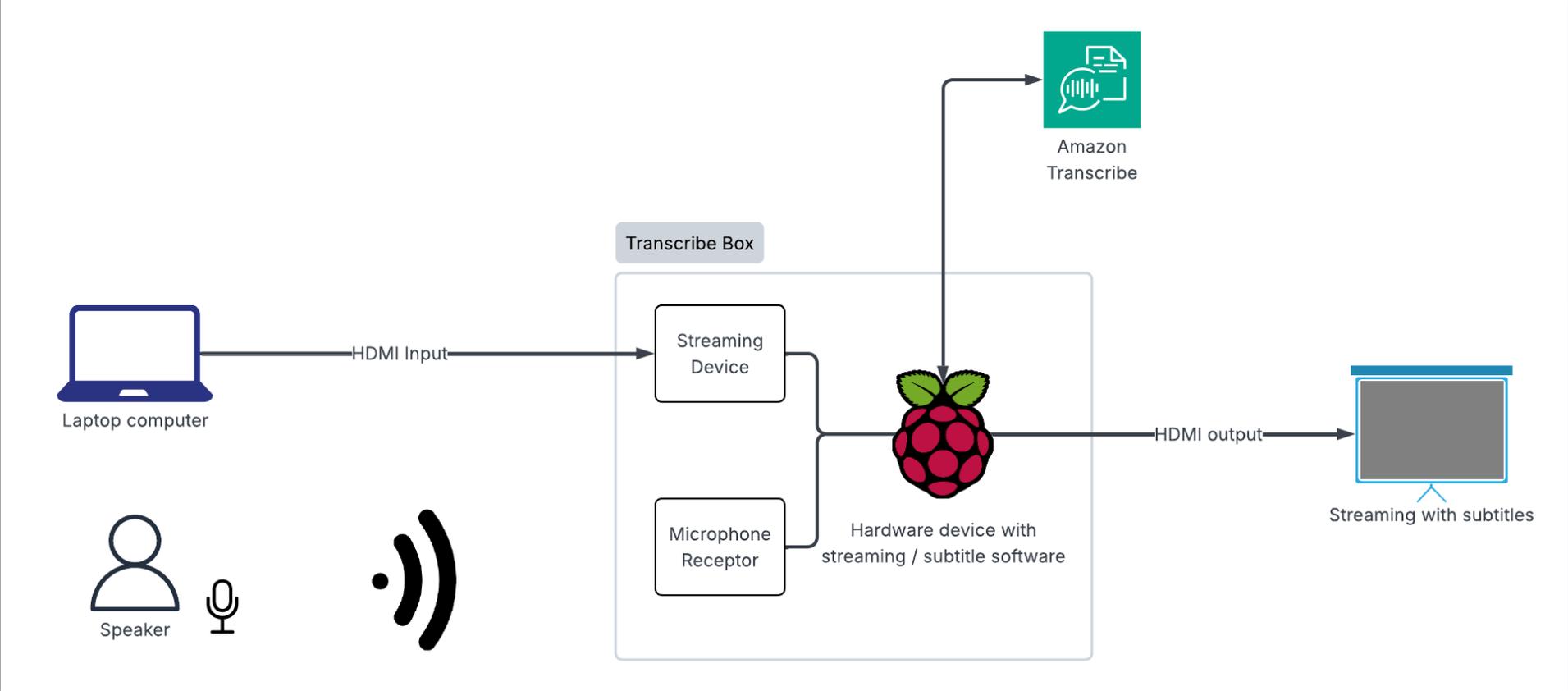
- A box that captures video + audio.
- It adds live subtitles of the transcribed Audio.
- No software or configuration needed on the source computer, just plug and play.



# How it looks



# How it works



# Building It - The Fun Parts

**Little coding experience but the idea can be worked on:**

- Vibe coding gets you there
- Working version in a few days
- But some details needed to be worked on...



# Building It – Some initial problems

## Problems that needed to be solved:

- Concatenating text fragments into readable sentences
- Preventing subtitles overflow the screen
- Hardware compatibility (screen resolutions)



# AWS Transcribe in Action



## Why AWS Transcribe:

- Streaming API perfect for real-time
- High accuracy, handles accents well
- No model training needed

## How we use it:

- Stream audio chunks continuously
- Receive text back in real-time
- Format and display on video
- Partial results for real-time transcription

```
try {  
  // Base transcription parameters  
  const baseParams = {  
    MediaSampleRateHertz: TRANSCRIBE_RATE,  
    MediaEncoding: 'pcm',  
    EnablePartialResultsStabilization: true,  
    PartialResultsStability: 'medium'  
  };  
}
```

# Current Status and Next Steps

## What works now:

- Real-time English transcription 
- Clean subtitle overlay 
- Stable video passthrough 

## What's Next – Short term :

- Add Live translation 
- Multi-language support 
- Multiple speaker detection 

## What's Next – Long term :

- Plug and Play
- Custom enclosure
- Simple controls (power button + language selector)
- Production-ready hardware

# Key Takeaways

## For builders:

- AWS services let us innovate faster
- Vibe Coding let us prototype fast. But humans still decide what to build and how. 😊

## For the community:

- Accessibility tech doesn't have to be expensive
- Combining hardware + cloud opens new possibilities
- Ping us if you want to be part of this project!



# Thank you!

## Q&A Time

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