




Happy Birth Day to Seven Brother

# Use AI to Add Subtitle to Videos

## An application of Auto Speech Recognition (ASR)


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GETTR |  |  |   
We Are the Citizens of the New Federal State of China  
Our Mission is to Take Down the EVIL Chinese Communist Party

 **In 2017**  
**Mr. Miles Guo exposed**  
the CCP's BGY and 3F Plans for the US.  
He Exposed the evil plan of 13579 from CCP,  
including the biological and chemical weapon  
to attack the US.

 **BGY** Plans  
**Blue** Network surveillance and information control, influencing  
and controlling Internet public opinion and overseas media  
orientation.  
**Golden** Bribe dignitaries and interest group controllers around  
the world with money and benefits.  
**Yellow** Sexual bribery of celebrities and politicians in various countries  
in order to manipulate and extort through their sex scandals.

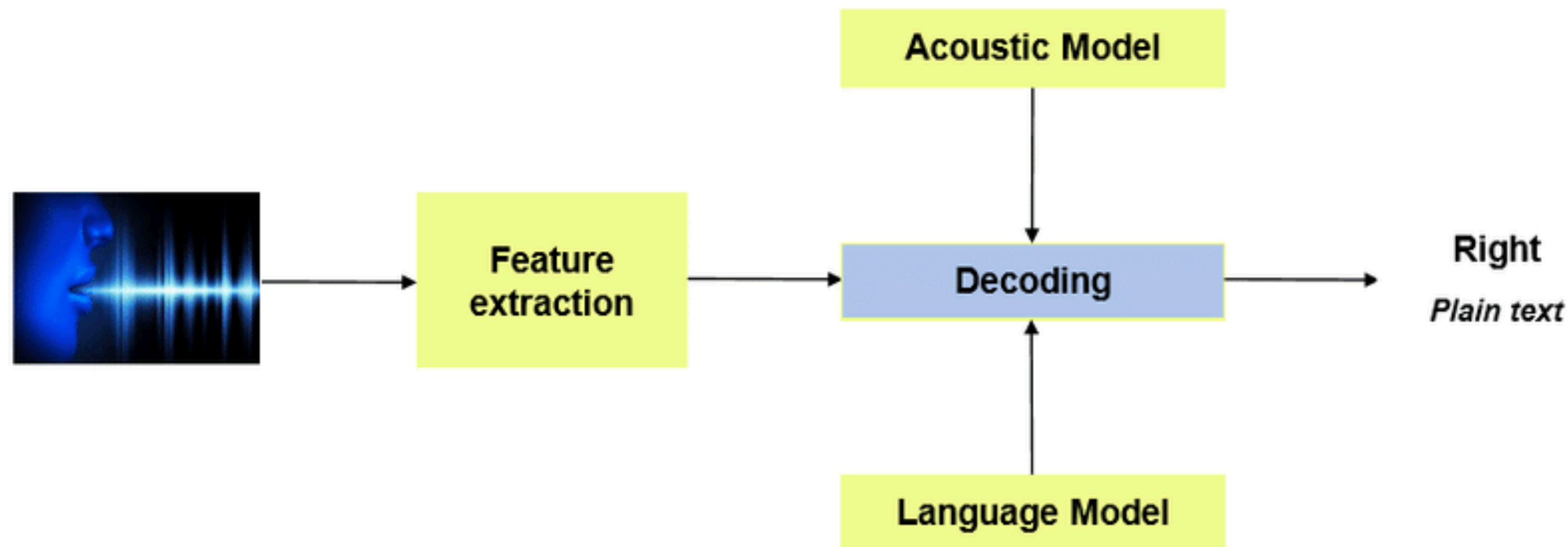
 **3F** Plans  
The "3F" plan is the Chinese Communist Party takes advantage of the  
freedom and openness of the United States and the Western world to  
infiltrate American society on all fronts, and ultimately to ferment  
weakness, to ferment chaos, and to ferment destruction of the US using  
Americans!

 **13579** Plans  
The CCP's ambition to conquer the whole world and enslave all mankind  
has never changed for almost 100 years. In order to achieve this goal,  
it has been pretending to be peaceful externally and enslaving internally  
for nearly forty years, but secretly it has devised the evil "13579" plan to  
wipe out the world's elderly population and enslave all mankind!

   
Who is  
**Miles Guo**



# Introduction of Auto Speech Recognition (ASR)



- **Acoustic Model**
  - modelling the relationship between the audio signal and the phonetic units in the language.
- **Language Model**
  - modelling the word sequences in the language.

# Popular ASR



- OpenAI-Whisper
  - <https://github.com/openai/whisper>
- Vosk (Able to run mobile)
  - <https://alphacephei.com/vosk/>
- Nvidia NeMo
  - <https://github.com/NVIDIA/NeMo>

# Subtitler - Demo

## Setup



- Repo: <https://github.com/redbeardnz/subtitler>
- Hardware Requirement:
  - CPU or GPU (10 faster than CPU)
  - 8 GB disk storage
- Simple setup
  - `pip install -U openai-whisper moviepy`
- Setup with Chinese Font
  - See Dockerfile

# Subtitler - Demo

Retrive subtitle from video and save into srt file

- Command: `python retrieve.py {a/path/to/video}`
- Example: `python retrieve.py ./1.mp4`
- Result: 1.srt

```
1
00:00:00,000 --> 00:00:04,000
昨天和美国的政府部门也有见面

2
00:00:04,000 --> 00:00:05,640
然后我就到了洗手间

3
00:00:05,640 --> 00:00:08,800
我将这个用生命换来的最重要的文件之一
```

- Srt content:





# Subtitler - Demo

## Revise srt file



The accuracy of ASR can not be 100%, leading in-correction in srt.

- Modify srt file for
  - Correction content
  - Translation

```
1
00:00:00,000 --> 00:00:04,000
昨天和美国的政府部门也有见面
I had a meeting with U.S government yesterday as well.

2
00:00:04,000 --> 00:00:05,640
然后我就到了洗手间
Then I went to bathroom
```

- Add multi language subtitle

# Subtitler - Demo

## Add subtitle to video



- moviepy is an easy to use tool
  - <https://github.com/Zulko/moviepy>
- The moviepy manual to add subtitle
  - <https://zulko.github.io/moviepy/ref/videotools.html?module=moviepy.video.tools.subtitles#module-moviepy.video.tools.subtitles>



**To Beginners: Don't be nervous to AI**

**Many Thanks to Fellows in Battle Against CCP**