

# 语音识别结果字段说明

在使用我们的语音识别服务后，您将收到一个包含识别结果的 JSON 对象。以下是该对象中各个字段的详细说明：

## 顶层字段

字段名	类型	含义
asr	对象	包含语音识别的主要结果数据

## asr 字段下的子字段

字段名	类型	含义
speechResult	字典	包含识别的详细信息

## speechResult 字段下的子字段

字段名	类型	含义
onebest	字符串	语音识别的最佳转录结果，表示整个音频的完整文本
duration	浮点数	音频文件的总时长，以秒为单位
detail	列表	包含每个识别到的句子的详细信息

### detail 列表中的每个元素

每个元素是一个字典，包含以下字段：

字段名	类型	含义
text	字符串	识别到的句子文本
start	整数	句子开始的时间戳，以毫秒为单位
end	整数	句子结束的时间戳，以毫秒为单位
words	列表	包含句子中每个单词的详细信息
speaker	字符串	识别到的说话者 ID，表示该句子属于的说话者(如果用声纹识别且有结果，则替换成声纹识别的说话人)

### words 列表中的每个元素

每个元素是一个字典，包含以下字段：

字段名	类型	含义
word	字符串	识别到的单词文本
start	整数	单词开始的时间戳，以毫秒为单位
end	整数	单词结束的时间戳，以毫秒为单位
speaker	列表	识别到的说话者 ID 列表，表示该单词属于的说话者(如果用声纹识别且有结果，则替换成声纹识别的说话人)

## 使用说明

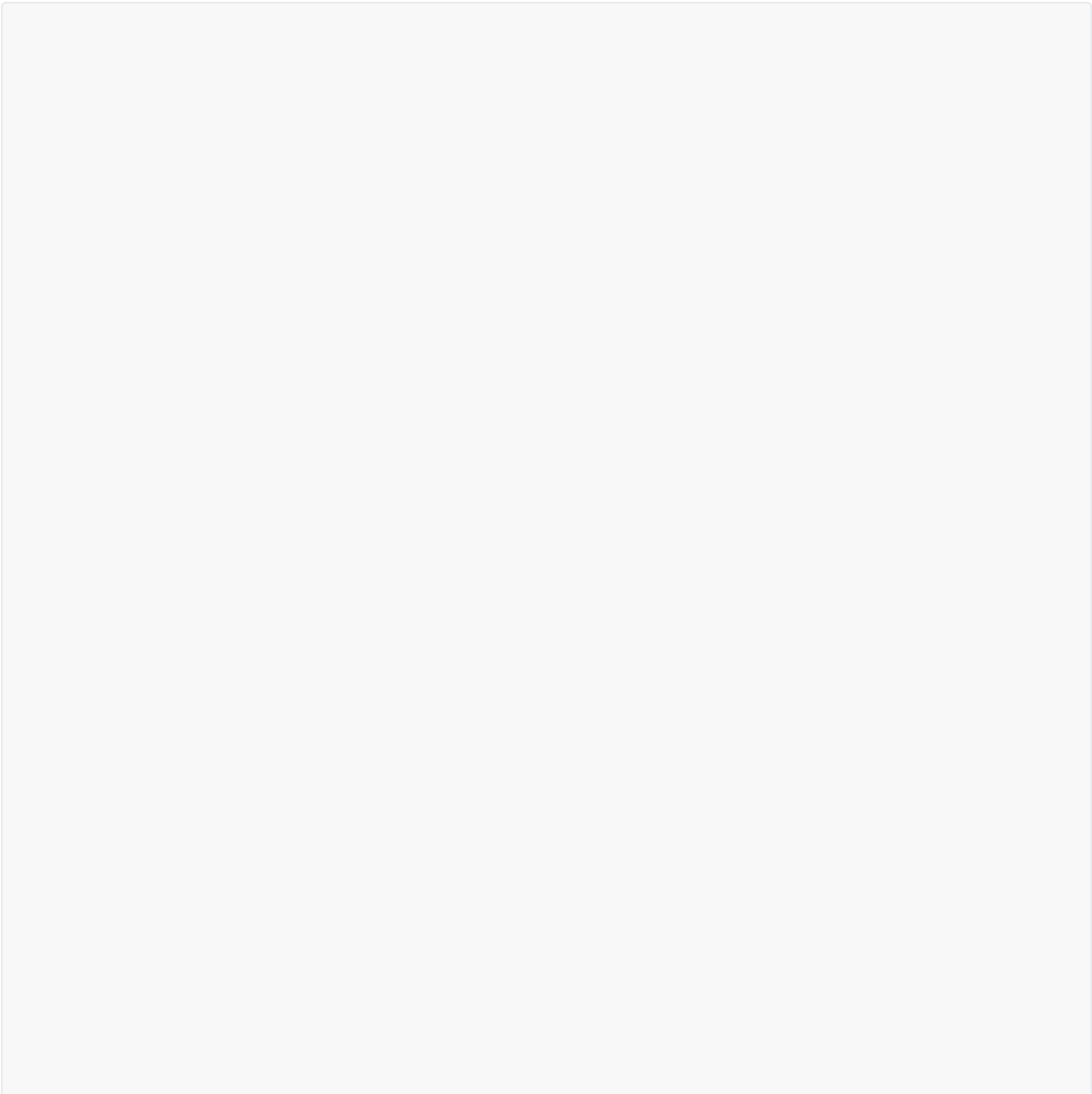
您可以通过解析 `onebest` 字段来获取整个音频的转录文本。

`detail` 字段提供了更精细的句子和单词级别的时间戳信息，适合需要精确时间对齐的应用。

`speaker_id` 和 `speaker_id_onlyone` 字段可用于区分不同说话者的语音。

## 识别结果示例

### 不做声纹识别



{'asr': {'speechResult': {'onebest': '是大家有没有进来来了吧，欢迎大家大家来打个招呼啊，天才呀，我真是这个背景做的真的好服饰大上新有多少人？昨天昨天唉，朵朵第一个朵朵hello hello大柔，你看 真的牛哇，怎么速的这么快，你有没有看那个某薄，有多少人在看袖？这两天所有的人都在看袖，都在看各个各大秀场的袖。嗯，我们今天直播间有没有秀场的感觉，有没有有吧？嗯，你们看得到的衣服全是我们为你们专门准备的对的。 就比如说我们现在身上穿到的衣服也是今晚直播间会给大家上的啊。我如果没记错的话，你的这件衣该是点钟的热门，九点钟的热门，我跟这件衣服性价比真的非常非常高，它很厚实哦，唉而且在谁谁不爱在秋天穿开衫呢？我跟你说， 秋天季节你穿的最多的真的就是开开衫，而且她能一直穿准备冬，因为你外面随便套一件外套呢子大衣，而且里面你还可以穿打底，就而且就是而且这件衣服啊有很多的选机款给你们，它其实是一件修容，修容对，上身很显瘦，但是包容 性又好。', 'duration': 63.006, 'detail': [{'text': '是大家有没有进来来了吧，', 'start': 410, 'end': 2290, 'words': [{'word': '是', 'start': 410, 'end': 490, 'speaker': 'SPEAKER\_01'}, {'word': '大', 'start': 490, 'end': 650, 'speaker': 'SPEAKER\_01'}, {'word': '家', 'start': 650, 'end': 770, 'speaker': 'SPEAKER\_01'}, {'word': '有', 'start': 770, 'end': 890, 'speaker': 'SPEAKER\_01'}, {'word': '没', 'start': 890, 'end': 970, 'speaker': 'SPEAKER\_01'}, {'word': '有', 'start': 970, 'end': 1050, 'speaker': 'SPEAKER\_01'}, {'word': '进', 'start': 1050, 'end': 1150, 'speaker': 'SPEAKER\_01'}, {'word': '来', 'start': 1150, 'end': 1390, 'speaker': 'SPEAKER\_01'}, {'word': '来', 'start': 1610, 'end': 1790, 'speaker': 'SPEAKER\_00'}, {'word': '来', 'start': 1790, 'end': 1970, 'speaker': 'SPEAKER\_00'}, {'word': '了', 'start': 1970, 'end': 2050, 'speaker': 'SPEAKER\_00'}, {'word': '吧', 'start': 2050, 'end': 2290, 'speaker': 'SPEAKER\_00'}], 'speaker': 'SPEAKER\_01'}, {'text': '来迎大家大家来打个招呼啊，', 'start': 2290, 'end': 4730, 'words': [{'word': '来', 'start': 2710, 'end': 2870, 'speaker': 'SPEAKER\_01'}, {'word': '迎', 'start': 2870, 'end': 2970, 'speaker': 'SPEAKER\_00'}, {'word': '大', 'start': 2970, 'end': 3090, 'speaker': 'SPEAKER\_00'}, {'word': '家', 'start': 3090, 'end': 3270, 'speaker': 'SPEAKER\_00'}, {'word': '大', 'start': 3270, 'end': 3410, 'speaker': 'SPEAKER\_01'}, {'word': '家', 'start': 3410, 'end': 3570, 'speaker': 'SPEAKER\_01'}, {'word': '来', 'start': 3570, 'end': 3670, 'speaker': 'SPEAKER\_01'}, {'word': '打', 'start': 3670, 'end': 3770, 'speaker': 'SPEAKER\_01'}, {'word': '个', 'start': 3770, 'end': 3910, 'speaker': 'SPEAKER\_01'}, {'word': '招', 'start': 3910, 'end': 4150, 'speaker': 'SPEAKER\_01'}, {'word': '呼', 'start': 4150, 'end': 4390, 'speaker': 'SPEAKER\_01'}, {'word': '啊', 'start': 4490, 'end': 4730, 'speaker': 'SPEAKER\_00'}], 'speaker': 'SPEAKER\_01'}, {'text': '天才呀，', 'start': 4730, 'end': 5250, 'words': [{'word': '天', 'start': 4750, 'end': 4930, 'speaker': 'SPEAKER\_00'}, {'word': '才', 'start': 4930, 'end': 5170, 'speaker': 'SPEAKER\_00'}, {'word': '呀', 'start': 5170, 'end': 5250, 'speaker': 'SPEAKER\_00'}], 'speaker': 'SPEAKER\_00'}, {'text': '我真是这个背景做的真的好服饰大上新有多少人？', 'start': 5250, 'end': 9850, 'words': [{'word': '我', 'start': 5250, 'end': 5350, 'speaker': 'SPEAKER\_00'}, {'word': '真', 'start': 5350, 'end': 5490, 'speaker': 'SPEAKER\_00'}, {'word': '是', 'start': 5490, 'end': 5590, 'speaker': 'SPEAKER\_00'}, {'word': '这', 'start': 5590, 'end': 5690, 'speaker': 'SPEAKER\_00'}, {'word': '个', 'start': 5690, 'end': 5930, 'speaker': 'SPEAKER\_00'}, {'word': '背', 'start': 5950, 'end': 6110, 'speaker': 'SPEAKER\_00'}, {'word': '景', 'start': 6110, 'end': 6250, 'speaker': 'SPEAKER\_00'}, {'word': '做', 'start': 6250, 'end': 6430, 'speaker': 'SPEAKER\_00'}, {'word': '的', 'start': 6430, 'end': 6670, 'speaker': 'SPEAKER\_00'}, {'word': '真', 'start': 6790, 'end': 6910, 'speaker': 'SPEAKER\_00'}, {'word': '的', 'start': 6910, 'end': 7150, 'speaker': 'SPEAKER\_00'}, {'word': '好', 'start': 7270, 'end': 7510, 'speaker': 'SPEAKER\_00'}, {'word': '服', 'start': 7510, 'end': 7750, 'speaker': 'SPEAKER\_00'}, {'word': '饰', 'start': 7750, 'end': 7950, 'speaker': 'SPEAKER\_00'}, {'word': '大', 'start': 7950, 'end': 8170, 'speaker': 'SPEAKER\_00'}, {'word': '上', 'start': 8170, 'end': 8410, 'speaker': 'SPEAKER\_00'}, {'word': '新', 'start': 8890, 'end': 9130, 'speaker': 'SPEAKER\_00'}

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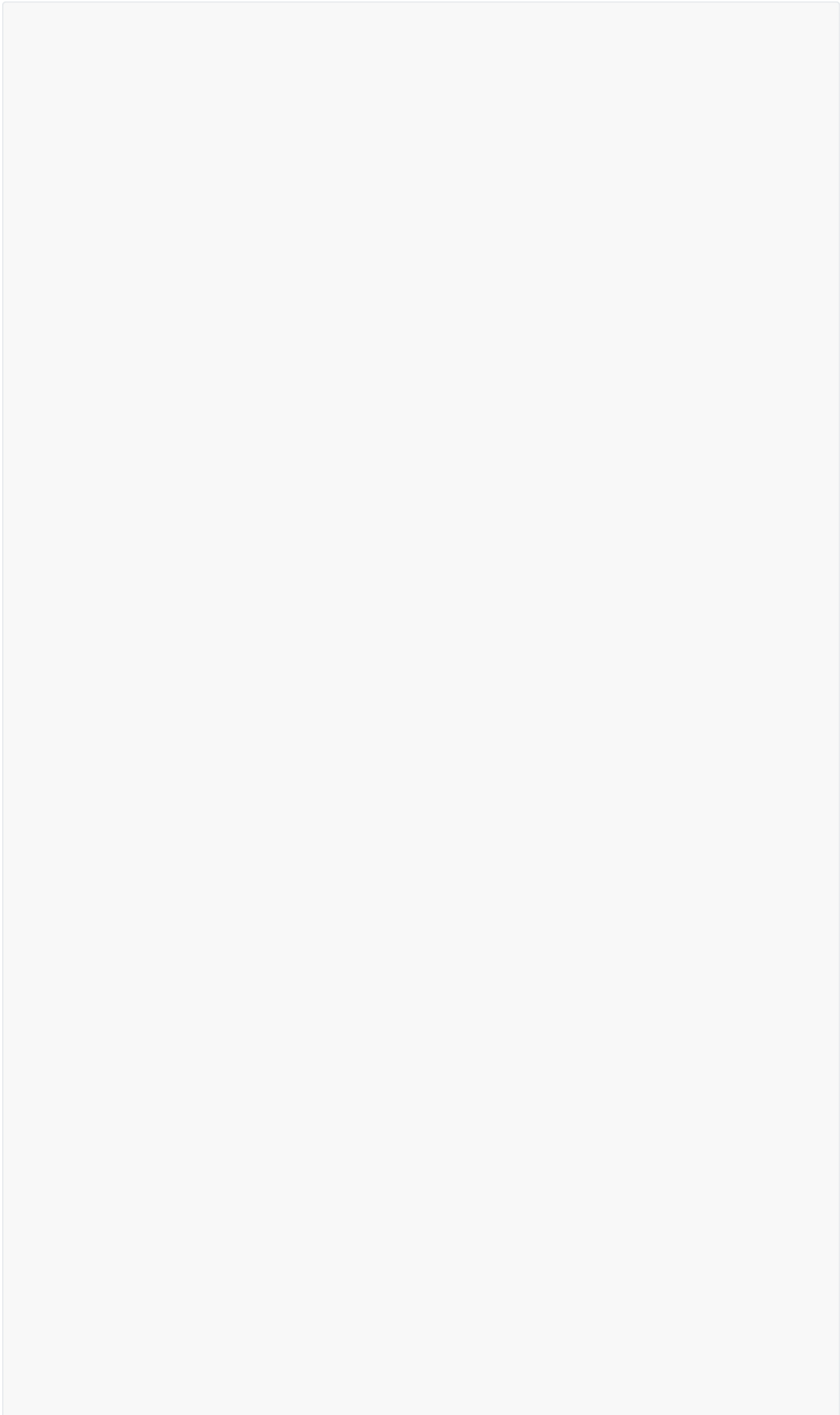
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使用声纹识别



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现在是一个面试人员，主要面试这个计算机呃及人工智能领域，我充当一个面试者，你  
现在开始吧。好呀，那我先问你一个问题，在人工智能领域里，你最擅长哪方面呢？是  
机器学习我最擅长这个呃人人机交互的语音领域很棒呀。那你觉得在语音领域里处  
理语音识别的最大挑战是什么？语音识别的这个精准度有，也就是说它的错误率的降  
低确实如此提升，准确率是关键。那你怎么看待不同口音对语音识别的影响呢？我认  
为不同口音呢对语音识别的影响很大，我们需要首先做好这个放话能力。同时，针对  
每一种语音或者每一种方言做特定的训练，调优，说的太好了，准确捕捉口音。特点  
并专项优化确实很重要。那你有没有什么创新的想法来改善这一点呢？我认为呢在  
大规模数据集制下，首先做好泛化能力，然后针对每一种语音呢做好呃声音的编编  
码器、解码器。那编码器解码器呢是一种传统的能力。我觉得最主要的就是说现在  
需要通过人工智能做好这个每一种翻回的泛化能力，很有见地提升模型的泛化能力  
确实是关键。那你觉得强化学习能在语音识别中起到什么作用呢？传化学习最大的  
作用呢？就是这个哎你给我说一下，我不知道。哎嗯哈哈，没关系，强化学习可以  
在语音识别中优化模型的决策过程。比如提升对复杂语境的理解，你平时会关注哪  
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