

云知声模式说明文档

1. 模式总体说明

| 模式 | 模式说明 | 适用场景 |
|----|----------------------------|---|
| A | 性能最高模式，输出单词打分，不输出音素及音素打分情况 | 1. 适用于单词、句子评测，且不需要返回音标信息的 2. 适用于半开放题型，如三问五答，话题简述、看图说话等 3. 该模式强制按照文本顺序匹配，如果存在读多遍的情况，按照第一遍进行评分， 不适用于篇章 |
| B | 可以输出单词打分及音素，但不输出音素打分 | 1. 该模式可以适用于只需要输出单词或句子打分，需要音素音标但不需要音素打分的场景 2. 多读扣分 |
| C | json 输出跟 A 模式相同，非强制按文本顺序匹配 | 适用于篇章评测 |
| E | 输出单词打分、音素及音素打分，同时输出空格和标点信息 | 1. 适用于输出文本需要和输入文本一致的场景 2. 多读不扣分 |
| G | 输出单词打分、音素及音素打分 | 适用于单词、句子评测且需要返回音标即音标打分详细信息的场景 |
| H | 选择题模式 | 有多个选项，选项之间用\n 或是换行隔开，通过朗读任意文本可以自动匹配上答案 |

2. A 模式输出

| | |
|-----------------------|---|
| { | |
| "EvalType":"general", | general：普通朗读题型；askandanwser：问答题型；composition：作文题型 |
| "lines":[| |
| { | |
| "begin":0.142, | 音频开始时间 |
| "end":3.052, | 音频结束时间 |
| "fluency":80.612, | 流利度 |

| | |
|---|------------------------------|
| "integrity":100, | 完整度 |
| "pronunciation":85.156, | 标准度 |
| "sample":"do one thing at a time , and do well.", | 评测文本 |
| "score":84.929, | 总分，百分制 |
| "usertext":"do one thing at a time and do well", | 识别的用户文本 |
| "words":[| 单词详细信息 |
| { | |
| "begin":0.142, | 开始时间 |
| "end":0.682, | 结束时间 |
| "score":3.742, | 分数，10 分制 |
| "text":"sil", | 文本 |
| "type":4, | 0 多词；1 漏词；2 正常词；3 错误词；4 静音；5 |
| "volume":1.476 | 重复词；7 空格 or 标点；8 生词 |
| }, | 音量大小，范围 0-10 |
| { | |
| "StressOfWord":1, | 单词重音标志，0：该单词重音朗读错误；1：该单 |
| "begin":0.682, | 词重音朗读正确 |
| "end":0.902, | 音频中单词开始时间 |
| "phonetic":"'du:", | 音频中单词结束时间 |
| "score":9.825, | 单词音标 |
| "text":"'do", | 单词分数，10 分制 |
| "type":2, | 文本 |
| "volume":9 | 0 多词；1 漏词；2 正常词；3 错误词；4 静音；5 |
| }, | 重复词；7 空格 or 标点；8 生词 |
| { | 音量大小，范围 0-10 |
| "StressOfWord":0, | |
| "begin":0.902, | |
| "end":1.162, | |
| "phonetic":"'wʌn", | |
| "score":8.304, | |
| "text":"'one", | |
| "type":2, | |
| "volume":7.001 | |
| }, | |
| { | |
| "StressOfWord":0, | |
| "begin":1.162, | |
| "end":1.482, | |
| "phonetic":"'θɪŋ", | |
| "score":8.7, | |
| "text":"'thing", | |

```

    "type":2,
    "volume":7.895
},
{
    "StressOfWord":1,
    "begin":1.482,
    "end":1.662,
    "phonetic":"æ",
    "score":8.841,
    "text":"at",
    "type":2,
    "volume":8.515
},
{
    "StressOfWord":0,
    "begin":1.662,
    "end":1.722,
    "phonetic":"ə",
    "score":8.446,
    "text":"a",
    "type":2,
    "volume":2.307
},
{
    "StressOfWord":1,
    "begin":1.722,
    "end":2.142,
    "phonetic":"'taɪm'",
    "score":6.782,
    "text":"'time'",
    "type":2,
    "volume":7.85
},
{
    "StressOfWord":1,
    "begin":2.142,
    "end":2.382,
    "phonetic":"'ænd'",
    "score":8.436,
    "text":"'and'",
    "type":2,
    "volume":5.796
},
{

```

```
        "StressOfWord":1,
        "begin":2.382,
        "end":2.522,
        "phonetic":"'du:",
        "score":6.258,
        "text":"'do",
        "type":2,
        "volume":9
    },
    {
        "StressOfWord":1,
        "begin":2.522,
        "end":3.042,
        "phonetic":"'wel",
        "score":9.303,
        "text":"'well",
        "type":2,
        "volume":6.175
    },
    {
        "begin":3.042,
        "end":3.052,
        "score":2.253,
        "text":"'sil",
        "type":4,
        "volume":1.149
    }
]
},
"score":84.929,
"version":"'full 1.0"
}
```

最外层总分，百分制

3. B 模式输出

```
{
    "EvalType":"'general",
    "lines":[
        {
            "begin":0.142,
```

general: 普通朗读题型; askandanwser: 问答题型; composition: 作文题型

音频开始时间

| | |
|---|------------------------------------|
| "end":3.052, | 音频结束时间 |
| "fluency":80.612, | 流利度 |
| "integrity":100, | 完整度 |
| "pronunciation":85.156, | 标准度 |
| "sample":"do one thing at a time , and do well.", | 评测文本 |
| "score":84.929, | 总分，百分制 |
| "usertext":"do one thing at a time and do well", | 识别的用户文本 |
| "words":[| 单词详细信息 |
| { | |
| "begin":0.142, | 开始时间 |
| "end":0.682, | 结束时间 |
| "score":3.742, | 分数，10 分制 |
| "subwords":[| 音素信息 |
| { | |
| "begin":0.142, | |
| "end":0.682, | |
| "subtext":"sil", | sil 代表静音 |
| "volume":1.476 | |
| } | |
|], | |
| "text":"sil", | |
| "type":4, | |
| "volume":1.476 | |
| }, | |
| { | |
| "StressOfWord":1, | 单词重音标志，0：该单词重音朗读错误； 1：该单词重音朗读正确 |
| "begin":0.682, | 音频中单词开始时间 |
| "end":0.902, | 音频中单词结束时间 |
| "phonetic":"du:", | 单词音标 |
| "score":9.825, | 单词分数，10 分制 |
| "subwords":[| |
| { | |
| "begin":0.682, | |
| "end":0.792, | |
| "subtext": "", | 重音符号 |
| "volume":9 | 音量大小，范围 0-10 |
| }, | |
| { | |
| "begin":0.682, | 音素开始时间 |
| "end":0.792, | 音素结束时间 |
| "subtext":"d", | 音素文本 |
| "volume":9 | 音量大小，范围 0-10 |
| }, | |

```

    {
      "begin":0.792,
      "end":0.902,
      "subtext":"u:",
      "volume":9
    }
  ],
  "text":"do",
  "type":2,
  "volume":9
},
{
  "StressOfWord":0,
  "begin":0.902,
  "end":1.162,
  "phonetic":"wʌn",
  "score":8.304,
  "subwords":[
    {
      "begin":0.902,
      "end":0.982,
      "subtext":"w",
      "volume":9
    },
    {
      "begin":0.982,
      "end":1.092,
      "subtext":"ʌ",
      "volume":9
    },
    {
      "begin":1.092,
      "end":1.162,
      "subtext":"n",
      "volume":3.002
    }
  ],
  "text":"one",
  "type":2,
  "volume":7.001
},
{
  "StressOfWord":0,

```

单词文本

0 多词; 1 漏词; 2 正常词; 3 错误词; 4
静音; 5 重复词; 7 空格 or 标点; 8 生词

```
"begin":1.162,
"end":1.482,
"phonetic":"θɪŋ",
"score":8.7,
"subwords":[
  {
    "begin":1.162,
    "end":1.242,
    "subtext":"θ",
    "volume":6.971
  },
  {
    "begin":1.242,
    "end":1.312,
    "subtext":"ɪ",
    "volume":9
  },
  {
    "begin":1.312,
    "end":1.482,
    "subtext":"ŋ",
    "volume":7.713
  }
],
"text":"thing",
"type":2,
"volume":7.895
},
{
  "StressOfWord":1,
  "begin":1.482,
  "end":1.662,
  "phonetic":", æt",
  "score":8.841,
  "subwords":[
    {
      "begin":1.482,
      "end":1.562,
      "subtext":", ",
      "volume":8.167
    },
    {
      "begin":1.482,
      "end":1.562,
```

最外层总分

```
        "subtext": "æ",
        "volume": 8.167
    },
    {
        "begin": 1.562,
        "end": 1.662,
        "subtext": "t",
        "volume": 8.863
    }
],
"text": "at",
"type": 2,
"volume": 8.515
},
{
    "StressOfWord": 0,
    "begin": 1.662,
    "end": 1.722,
    "phonetic": "ə",
    "score": 8.446,
    "subwords": [
        {
            "begin": 1.662,
            "end": 1.722,
            "subtext": "ə",
            "volume": 2.307
        }
    ],
    "text": "a",
    "type": 2,
    "volume": 2.307
},
{
    "StressOfWord": 1,
    "begin": 1.722,
    "end": 2.142,
    "phonetic": "taɪm",
    "score": 6.782,
    "subwords": [
        {
            "begin": 1.722,
            "end": 1.862,
            "subtext": "",
            "volume": 9
        }
    ]
}
```



```

    },
    {
        "begin":1.722,
        "end":1.862,
        "subtext":"t",
        "volume":9
    },
    {
        "begin":1.862,
        "end":2.022,
        "subtext":"aɪ",
        "volume":9
    },
    {
        "begin":2.022,
        "end":2.142,
        "subtext":"m",
        "volume":5.551
    }
],
"text":"time",
"type":2,
"volume":7.85
},
{
    "StressOfWord":1,
    "begin":2.142,
    "end":2.382,
    "phonetic":"'ænd",
    "score":8.436,
    "subwords":[
        {
            "begin":2.142,
            "end":2.242,
            "subtext": "",
            "volume":7.929
        },
        {
            "begin":2.142,
            "end":2.242,
            "subtext":"'æ",
            "volume":7.929
        }
    ]
}

```

```
        "begin":2.242,
        "end":2.342,
        "subtext":"n",
        "volume":7.803
    },
    {
        "begin":2.342,
        "end":2.382,
        "subtext":"d",
        "volume":1.656
    }
],
"text":"and",
"type":2,
"volume":5.796
},
{
    "StressOfWord":1,
    "begin":2.382,
    "end":2.522,
    "phonetic":"'du:",
    "score":6.258,
    "subwords":[
        {
            "begin":2.382,
            "end":2.442,
            "subtext":'""',
            "volume":9
        },
        {
            "begin":2.382,
            "end":2.442,
            "subtext":"d",
            "volume":9
        },
        {
            "begin":2.442,
            "end":2.522,
            "subtext":"u:",
            "volume":9
        }
    ],
    "text":"'do",
    "type":2,
```

```
    "volume":9
  },
  {
    "StressOfWord":1,
    "begin":2.522,
    "end":3.042,
    "phonetic":"'wel'",
    "score":9.303,
    "subwords":[
      {
        "begin":2.522,
        "end":2.662,
        "subtext": "'",
        "volume":7.654
      },
      {
        "begin":2.522,
        "end":2.662,
        "subtext":"'w'",
        "volume":9
      },
      {
        "begin":2.662,
        "end":2.862,
        "subtext":"'e'",
        "volume":7.654
      },
      {
        "begin":2.862,
        "end":3.042,
        "subtext":"'l'",
        "volume":1.872
      }
    ],
    "text":"'well'",
    "type":2,
    "volume":6.175
  },
  {
    "begin":3.042,
    "end":3.052,
    "score":2.253,
    "subwords":[
      {
```

```

        "begin":3.042,
        "end":3.052,
        "subtext":"sil",
        "volume":1.149
      }
    ],
    "text":"sil",
    "type":4,
    "volume":1.149
  }
]
}
],
"score":84.929,
"version":"full 1.0"
}

```

最外层总分，百分制

4. C 模式输出

跟 A 模式相同，参考 A 模式

5. E 模式输出

```

{
  "version":"full 1.0",
  "score":84.929,

  "EvalType":"general",
  "lines":[
    {
      "sample":"do one thing at a time , and do well.",
      "usertext":"do one thing at a time and do well",
      "begin":0.142,
      "end":3.052,
      "score":84.929,
      "fluency":80.612,
      "integrity":100,
      "pronunciation":85.156,
      "words":[
        {

```

最外层总分，百分制

general：普通朗读题型；askandanwser：问答题型；

composition：作文题型

评测文本

识别的用户文本

开始时间

结束时间

总分，百分制

流利度

完整度

标准度

单词详细信息

```

"StressOfWord":1,
"phonetic":"","du:",
"text":"do",

"type":2,
"begin":0.682,
"end":0.902,
"volume":9,
"score":9.825,
"subwords":[
  {
    "subtext":"","",
    "volume":9,
    "begin":0.682,
    "end":0.792,
    "score":10
  },
  {
    "subtext":"d",
    "volume":9,
    "begin":0.682,
    "end":0.792,
    "score":9.532
  },
  {
    "subtext":"u:",
    "volume":9,
    "begin":0.792,
    "end":0.902,
    "score":10
  }
]
},
{
  "text":" ",
  "type":7,
  "begin":0,
  "end":0,
  "volume":0,
  "score":0,
  "subwords":[]
}

```

单词重音标志，0：该单词重音朗读错误；1：该单词重音朗读正确

单词音标

单词文本

0 多词；1 漏词；2 正常词；3 错误词；4 静音；5 重复词；7 空格 or 标点；8 生词

单词开始时间

单词结束时间

音量大小，范围 0-10

单词打分，10 分制

音素详细信息

重音符号

音量大小，范围 0-10

开始时间

结束时间

0：重音错误；10：重音正确

音素文本

音素分数，10 分制

空格

6. G 模式输出

| | |
|--|--------------------------------------|
| { | |
| "EvalType": "general", | general: 普通朗读题型; askandanswer: 问答题型; |
| "lines": [| composition: 作文题型 |
| { | |
| "begin": 0.142, | 开始时间 |
| "end": 3.052, | 结束时间 |
| "fluency": 80.612, | 流利度 |
| "integrity": 100, | 完整度 |
| "pronunciation": 85.156, | 标准度 |
| "sample": "do one thing at a time , and do well.", | 评测文本 |
| "score": 84.929, | 总分, 百分制 |
| "userText": "do one thing at a time and do well", | 识别的用户文本 |
| "words": [| 单词详细信息 |
| { | |
| "begin": 0.142, | |
| "end": 0.682, | |
| "score": 3.742, | |
| "subwords": [| 单词音标 |
| { | 单词文本 |
| "begin": 0.142, | |
| "end": 0.682, | |
| "subtext": "sil", | 静音 |
| "volume": 1.476 | 音量大小, 范围 0-10 |
| } | |
| }, | 音素详细信息 |
| "text": "sil", | |
| "type": 4, | 0 多词; 1 漏词; 2 正常词; 3 错误词; 4 静音; 5 |
| "volume": 1.476 | 重复词; 7 空格 or 标点; 8 生词 |
| }, | 音量大小, 范围 0-10 |
| { | |
| "StressOfWord": 1, | 单词重音标志, 0: 该单词重音朗读错误; 1: 该单词 |
| "begin": 0.682, | 重音朗读正确 |
| "end": 0.902, | 单词开始时间 |
| "phonetic": "'du:", | 单词结束时间 |
| "score": 9.825, | 单词音标 |
| "subwords": [| 单词打分, 10 分制 |
| { | 音素详细信息 |
| "begin": 0.682, | |

```

        "end":0.792,
        "score":10,
        "subtext":"","
        "volume":9
    },
    {
        "begin":0.682,
        "end":0.792,
        "score":9.532,
        "subtext":"d",
        "volume":9
    },
    {
        "begin":0.792,
        "end":0.902,
        "score":10,
        "subtext":"u:",
        "volume":9
    }
],
"text":"do",
"type":2,
"volume":9
},
{
    "StressOfWord":0,
    "begin":0.902,
    "end":1.162,
    "phonetic":"wʌn",
    "score":8.304,
    "subwords":[
        {
            "begin":0.902,
            "end":0.982,
            "score":9.615,
            "subtext":"w",
            "volume":9
        },
        {
            "begin":0.982,
            "end":1.092,
            "score":8.877,
            "subtext":"ʌ",
            "volume":9
        }
    ]
}

```

0: 重音错误; 10: 重音正确
重音符号

```
    },
    {
      "begin":1.092,
      "end":1.162,
      "score":6.921,
      "subtext":"n",
      "volume":3.002
    }
  ],
  "text":"one",
  "type":2,
  "volume":7.001
},
{
  "StressOfWord":0,
  "begin":1.162,
  "end":1.482,
  "phonetic":"θɪŋ",
  "score":8.7,
  "subwords":[
    {
      "begin":1.162,
      "end":1.242,
      "score":8.713,
      "subtext":"θ",
      "volume":6.971
    },
    {
      "begin":1.242,
      "end":1.312,
      "score":9.824,
      "subtext":"ɪ",
      "volume":9
    },
    {
      "begin":1.312,
      "end":1.482,
      "score":8.33,
      "subtext":"ŋ",
      "volume":7.713
    }
  ],
  "text":"thing",
  "type":2,
```



```

    "volume":7.895
  },
  {
    "StressOfWord":1,
    "begin":1.482,
    "end":1.662,
    "phonetic":", æt",
    "score":8.841,
    "subwords":[
      {
        "begin":1.482,
        "end":1.562,
        "score":10,
        "subtext":", ",
        "volume":8.167
      },
      {
        "begin":1.482,
        "end":1.562,
        "score":8.711,
        "subtext":", æ",
        "volume":8.167
      },
      {
        "begin":1.562,
        "end":1.662,
        "score":9.016,
        "subtext":", t",
        "volume":8.863
      }
    ],
    "text":", at",
    "type":2,
    "volume":8.515
  },
  {
    "StressOfWord":0,
    "begin":1.662,
    "end":1.722,
    "phonetic":", ə",
    "score":8.446,
    "subwords":[
      {
        "begin":1.662,

```

```
        "end":1.722,
        "score":8.446,
        "subtext":"ə",
        "volume":2.307
    }
],
    "text":"a",
    "type":2,
    "volume":2.307
},
{
    "StressOfWord":1,
    "begin":1.722,
    "end":2.142,
    "phonetic":"'taɪm'",
    "score":6.782,
    "subwords":[
        {
            "begin":1.722,
            "end":1.862,
            "score":10,
            "subtext":'',
            "volume":9
        },
        {
            "begin":1.722,
            "end":1.862,
            "score":5.379,
            "subtext":"'t'",
            "volume":9
        },
        {
            "begin":1.862,
            "end":2.022,
            "score":7.517,
            "subtext":"'aɪ'",
            "volume":9
        },
        {
            "begin":2.022,
            "end":2.142,
            "score":8.661,
            "subtext":"'m'",
            "volume":5.551
        }
    ]
}
```

```
    }
  ],
  "text": "time",
  "type": 2,
  "volume": 7.85
},
{
  "StressOfWord": 1,
  "begin": 2.142,
  "end": 2.382,
  "phonetic": "æ̃nd",
  "score": 8.436,
  "subwords": [
    {
      "begin": 2.142,
      "end": 2.242,
      "score": 10,
      "subtext": "",
      "volume": 7.929
    },
    {
      "begin": 2.142,
      "end": 2.242,
      "score": 8.443,
      "subtext": "æ̃",
      "volume": 7.929
    },
    {
      "begin": 2.242,
      "end": 2.342,
      "score": 8.803,
      "subtext": "n",
      "volume": 7.803
    },
    {
      "begin": 2.342,
      "end": 2.382,
      "score": 8.183,
      "subtext": "d",
      "volume": 1.656
    }
  ],
  "text": "and",
  "type": 2,
```

```

    "volume":5.796
  },
  {
    "StressOfWord":1,
    "begin":2.382,
    "end":2.522,
    "phonetic":"'du:",
    "score":6.258,
    "subwords":[
      {
        "begin":2.382,
        "end":2.442,
        "score":10,
        "subtext":"'d",
        "volume":9
      },
      {
        "begin":2.382,
        "end":2.442,
        "score":4.929,
        "subtext":"'d",
        "volume":9
      },
      {
        "begin":2.442,
        "end":2.522,
        "score":8.107,
        "subtext":"'u:",
        "volume":9
      }
    ],
    "text":"'do",
    "type":2,
    "volume":9
  },
  {
    "StressOfWord":1,
    "begin":2.522,
    "end":3.042,
    "phonetic":"'wel",
    "score":9.303,
    "subwords":[
      {
        "begin":2.522,

```

```
        "end":2.662,
        "score":10,
        "subtext":"","
        "volume":7.654
    },
    {
        "begin":2.522,
        "end":2.662,
        "score":9.428,
        "subtext":"w",
        "volume":9
    },
    {
        "begin":2.662,
        "end":2.862,
        "score":10,
        "subtext":"e",
        "volume":7.654
    },
    {
        "begin":2.862,
        "end":3.042,
        "score":8.977,
        "subtext":"l",
        "volume":1.872
    }
],
"text":"well",
"type":2,
"volume":6.175
},
{
    "begin":3.042,
    "end":3.052,
    "score":2.253,
    "subwords":[
        {
            "begin":3.042,
            "end":3.052,
            "subtext":"sil",
            "volume":1.149
        }
    ],
    "text":"sil",
```

```

        "type":4,
        "volume":1.149
    }
]
}
],
"score":84.929,
"version":"full 1.0"
}

```

最外层分数，百分制

7. H 模式输出

这个模式的特点是输入文本有差异

在设置 H 模式时，输入 4 个不同的文本，文本之间是\n 或是换行分割，如：

Good\nperfect\nnice\nsmart

当朗读 perfect 时，可以自动返回 perfect 的打分结果，如果业务层对应 4 个选项，则自动匹配上 B 答案，打分结果的层次结构跟 G 模式相同

```

{
    "EvalType":"general",
    "lines":[
        {
            "begin":0,
            "end":1.821,
            "fluency":62.083,
            "integrity":100,
            "pronunciation":77.888,
            "sample":"perfect",
            "score":77.097,
            "usertext":"perfect",
            "words":[
                {
                    "begin":0.081,
                    "end":0.801,
                    "score":3.612,
                    "subwords":[
                        {
                            "begin":0.081,
                            "end":0.801,
                            "subtext":"sil",
                            "volume":1.464
                        }
                    ]
                },
                {
                    "text":"sil",

```

general：普通朗读题型；askandanwser：问答题型；composition：作文题型

开始时间

结束时间

流利度

完整度

标准度

评测文本

总分，百分制

识别的用户文本

音量大小，范围 0-10

```

    "type":4,

    "volume":1.464
  },
  {

    "StressOfWord":1,

    "begin":0.801,
    "end":1.661,
    "phonetic":"'p3:fɪkt'",
    "score":7.707,
    "subwords":[
      {

        "begin":0.801,
        "end":0.941,
        "score":10,
        "subtext":"'',"
        "volume":6.922
      },
      {

        "begin":0.801,
        "end":0.941,
        "score":8.21,
        "subtext":"'p'",
        "volume":9
      },
      {

        "begin":0.941,
        "end":1.101,
        "score":3.971,
        "subtext":"'3:'",
        "volume":6.922
      },
      {

        "begin":1.101,
        "end":1.201,
        "score":9.103,
        "subtext":"'f'",
        "volume":6.809
      },
      {

        "begin":1.201,
        "end":1.321,
        "score":9.308,

```

0 多词；1 漏词；2 正常词；3 错误词；4
静音；5 重复词；7 空格 or 标点；8 生词

单词重音标志，0：该单词重音朗读错误；
1：该单词重音朗读正确

单词音标
得分，10 分制

```

        "subtext": "i",
        "volume": 6.333
    },
    {
        "begin": 1.321,
        "end": 1.441,
        "score": 9.636,
        "subtext": "k",
        "volume": 6.923
    },
    {
        "begin": 1.441,
        "end": 1.661,
        "score": 8.691,
        "subtext": "t",
        "volume": 7.05
    }
],
"text": "perfect",
"type": 2,
"volume": 7.173
},
{
    "begin": 1.661,
    "end": 1.821,
    "score": 4.498,
    "subwords": [
        {
            "begin": 1.661,
            "end": 1.821,
            "subtext": "sil",
            "volume": 1.014
        }
    ],
    "text": "sil",
    "type": 4,
    "volume": 1.014
}
]
}

],
"score": 77.097,
"version": "full 1.0"

```