
RevSpeech API Documentation Documentation

Release 1.0.0

Rev.ai

Nov 07, 2018

Endpoints:

1	Base Endpoint	3
2	API Key	5
3	Python SDK	7
4	Getting Started	9
4.1	Jobs	9
4.2	Transcript	14
4.3	Account	16
4.4	Job	16
4.5	Options	18
4.6	Transcript	18
4.7	Account	22
4.8	Webhooks	22
5	Errors:	25

Go to Rev.ai Home: <https://www.rev.ai>

This RevSpeech API aims to deliver quality speech-text recognition via an API. All public methods and objects are documented here for developer reference.

This documentation is a work in progress and subject to change

CHAPTER 1

Base Endpoint

The base url for this version of the API is

`https://api.rev.ai/revspeech/v1beta`

All endpoints described in this documentation are relative to this base url

CHAPTER 2

API Key

All API requests must be authorized with an "Authorization: Bearer" header

```
-H "Authorization: Bearer <api_key>"
```

Developers can obtain their API Key from their [settings page](#).

CHAPTER 3

Python SDK

Check out our Python SDK here: <https://pypi.org/project/rev-ai/>

You can install it using

```
pip install rev_ai
```


CHAPTER 4

Getting Started

Use your API Key generated above to make calls to our API.

To **transcribe an audio** file to RevSpeech:

```
curl -X POST "https://api.rev.ai/revspeech/v1beta/jobs" -H "Authorization: Bearer
↪ <api_key>" -H "Content-Type: application/json" -d "{\"media_url\": \"https://support.
↪ rev.com/hc/en-us/article_attachments/200043975/FTC_Sample_1_-_Single.mp3\", \"
↪ metadata\": \"This is a sample submit jobs option\"}"
```

You'll receive a response like this:

```
{"id": "2028247", "created_on": "2018-09-15T05:14:38.13", "name": "sample.mp3", "metadata":
↪ "This is a sample submit jobs option for multipart", "status": "in_progress"}
```

This id (in this case 2028247) will allow you to retrieve your transcript. To **retrieve your transcript** from RevSpeech run:

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/jobs/{id}/transcript" -H
↪ "Authorization: Bearer <api_key>" -H "Accept: application/vnd.rev.transcript.v1.
↪ 0+json"
```

Alternatively you can get plain text by running:

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/jobs/{id}/transcript" -H
↪ "Authorization: Bearer <api_key>" -H "Accept: text/plain"
```

If you have any further questions, contact us at support@rev.ai

4.1 Jobs

4.1.1 GET /jobs/{id}

Gets an existing transcription *job* by id

CURL Examples

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/jobs/{id}" -H "Authorization: Bearer
↳<api_key>"
```

Parameters

Name	Description
id *required	Gets an existing transcription job by id

Responses

Code	Description
200	<p><i>RevSpeech API Job</i></p> <p>Example Value</p> <pre>{ "id": "111111", "status": "in_progress", "created_on": "2018-05-05T23:23:22.29Z" }</pre>
401	<p>Request Unauthorized</p> <p>Example Value</p> <pre>{ "title": "Authorization has been ↳denied for this request" }</pre>
404	Job Not Found

4.1.2 GET /jobs

Gets a list of transcription *jobs* submitted within the last week in reverse chronological order up to *limit* jobs per call. Pagination is supported via passing the last job id from a previous call into *starting_after*.

CURL Examples

Getting list of jobs with a limit of 10 jobs.

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/jobs?limit=10" -H "Authorization:
↳Bearer <api_key>"
```

Getting list of jobs starting after *job* with id 111111.

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/jobs?starting_after=111111" -H
↳"Authorization: Bearer <api_key>"
```

Parameters

Name	Description
limit optional	Limits the number of jobs returned, default is 100, max is 1000
starting_after optional	Gets jobs listed after this job id, exclusive - job with id not included

Responses

Code	Description
200	<p>List of <i>RevSpeech API Job</i></p> <p>Example Value</p> <pre> [["id": "222222", "created_on": "2018-05-08T23:23:22.29Z ↵", "completed_on": "2018-05-08T23:24:13. ↵41Z", "media_url": "https://example.com", "status": "transcribed", "duration_seconds": 40 }, { "id": "111111", "status": "in_progress", "created_on": "2018-05-05T23:23:22.29Z" }] </pre>
400	<p>Bad Request</p> <p>Example Value</p> <pre> { "parameter": { "limit": ["The max value for limit is 1000 ↵"], }, "type": "https://www.rev.ai/api/v1/ ↵errors/invalid-parameters", "title": "Your request parameters didn ↵'t validate" } </pre>
401	<p>Request Unauthorized</p> <p>Example Value</p> <pre> { "title": "Authorization has been_ ↵denied for this request" } </pre>

4.1.3 POST /jobs

Submits a transcription job

CURL Examples

Submitting via media URL. URL must be publicly accessible and a direct link to media.

```

curl -X POST "https://api.rev.ai/revspeech/v1beta/jobs" -H "Authorization: Bearer
↵<api_key>" -H "Content-Type: application/json" -d "{\"media_url\": \"https://support.
↵rev.com/hc/en-us/article_attachments/200043975/FTC_Sample_1_-_Single.mp3\", \"
↵metadata\": \"This is a sample submit jobs option\"}"

```

Submitting for local uploads. Must include the audio type.

```
curl -X POST "https://api.rev.ai/revspeech/v1beta/jobs" -H "Authorization: Bearer
↪<api_key>" -H "Content-Type: multipart/form-data" -F "media=@/path/to/media_file.
↪mp3;type=audio/mp3" -F "options={\"metadata\": \"This is a sample submit jobs option,
↪for multipart\"}"
```

Request Body (required)

Content-Type	Example
application/json	<p>Submitting via <i>RevSpeech API Options</i> with a <code>media_url</code> Example Value</p> <pre>{ "media_url": "https://support.rev.com/ ↪hc/en-us/article_attachments/200043975/ ↪FTC_Sample_1_-_Single.mp3", "metadata": "This is a sample submit, ↪jobs option", "callback_url": "https://www.example. ↪com/callback" }</pre>
multipart/form	<p>Uploading Direct Media File Example Value Key: <i>Value</i> media: <i>any media file with audio</i> options: <i>options model</i></p>

Responses

Code	Description
200	<p><i>RevSpeech API Job</i></p> <p>Example Value</p> <pre>{ "id": "111111", "status": "in_progress", "created_on": "2018-05-05T23:23:22.29Z" }</pre>
400	<p>Bad Request</p> <p>Example Values</p> <pre>{ "parameter": { "<invalid_parameter>": ["The <invalid_parameter> field ↪ is required"], }, "type": "https://www.rev.ai/api/v1/ ↪ errors/invalid-parameters", "title": "Your request parameters didn ↪ 't validate" }</pre> <pre>{ "parameter": { "media_url": ["The media_url field is required ↪ "], }, "type": "https://www.rev.ai/api/v1/ ↪ errors/invalid-parameters", "title": "Your request parameters didn ↪ 't validate" }</pre>
401	<p>Request Unauthorized</p> <p>Example Value</p> <pre>{ "title": "Authorization has been ↪ denied for this request" }</pre>
403	<p>Insufficient Credits</p> <p>Example Value</p> <pre>{ "title": "You do not have enough ↪ credits", "type": "https://www.rev.ai/api/v1/ ↪ errors/out-of-credit", "detail": "You have only 60 seconds ↪ remaining", "current_balance": 60 }</pre>

4.2 Transcript

4.2.1 GET /jobs/{id}/transcript

Gets an *transcript* by *job id*

Note: all GET transcript requests must include an `Accept` header that specifies the desired output format.

CURL Examples

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/jobs/{id}/transcript" -H
↪ "Authorization: Bearer <api_key>" -H "Accept: application/vnd.rev.transcript.v1.
↪ 0+json"
```

Parameters

Name	Description
id (required)	Gets an existing transcription by job id

Responses

Code	Description
200	<p><i>RevSpeech API Transcript</i></p> <p>Example Value</p> <p>Accept: application/vnd.rev.transcript.v1.0+json</p> <pre>{ "monologues": [{ "speaker": 1, "elements": [{ "type": "text", "value": "Hello", "ts": 0.5, "end_ts": 1.5, "confidence": 0.99 }, { "type": "punct", "value": "." }] }] }</pre>
200	<p>Example Value</p> <p>Accept: text/plain</p> <p>When the submitted job has <i>skip_diarization</i> either set to <i>false</i> or not set, the transcript will appear as follows:</p> <p><i>Speaker 0 00:01 What is your name?</i> <i>Speaker 1 00:03 Sir Lancelot of Camelot!</i> <i>Speaker 0 00:05 What is your quest?</i> <i>Speaker 1 00:08 To seek the Holy Grail!</i> <i>Speaker 0 00:11 What is your favorite colour?</i> <i>Speaker 1 00:14 Red! I mean blue!</i></p> <p>When the submitted job has <i>skip_diarization</i> set to <i>true</i>, the same audio would appear as:</p> <p><i>Speaker 0 00:01 What is your name? Sir Lancelot of Camelot! What is your quest? To seek the Holy Grail! What is your favorite colour? Red! I mean blue!</i></p>
401	<p>Request Unauthorized</p> <p>Example Value</p> <pre>{ "title": "Authorization has been_ →denied for this request" }</pre>
404	Job Not Found
406	Not Acceptable
4.2. Transcript	<p>Example Value</p> <pre>{ "allowed_values": ["text/plain",</pre>

4.3 Account

4.3.1 GET /account

Gets the developer's *account* information

CURL Examples

```
curl -X GET "https://api.rev.ai/revspeech/v1beta/account" -H "Authorization: Bearer  
↪<api_key>"
```

Responses

Code	Description
200	<i>RevSpeech API Account</i> Example Value application/json <pre>{ "email": "jay@rev.ai", "balance_seconds": 1500 }</pre>
401	Request Unauthorized Example Value <pre>{ "title": "Authorization has been_ ↪denied for this request" }</pre>

4.4 Job

RevSpeech API Job Object Model

Note: properties are not displayed in the returned object if they are null

4.4.1 Properties

Name	Type	Description
id	string	id of the job
status	string	current status of the job. "in_progress", "transcribed", or "failed"
created_on	string(date)	the date and time the job was created in ISO-8601 UTC form
completed_on	string(date)	the date and time the job was completed, whether with success or in failure, in ISO-8601 UTC form
metadata	string	metadata that was provided during job submission. 256 maximum char limit
name	string	name of the file provided is available
callback_url	string	<i>webhook</i> invoked on job completion
duration_seconds	double	duration of the file in seconds, null when not available
media_url	string	media url provided by the job submission
failure	string	failure reason. "unspecified", "download_failure", "invalid_media", "insufficient_balance"
failure_detail	string	human-readable reason why the job failed

4.4.2 Examples

```
// New Job
{
  "id": "111111",
  "status": "in_progress",
  "created_on": "2018-05-05T23:23:22.29Z",
  "metadata": "this is sample metadata"
}

// Transcribed Job
{
  "id": "111111",
  "status": "transcribed",
  "created_on": "2018-05-05T23:23:22.29Z",
  "completed_on": "2018-05-05T23:45:13.41Z",
  "callback_url": "https://www.example.com/callback",
  "duration_seconds": 356.24,
  "media_url": "https://support.rev.com/hc/en-us/article_attachments/200043975/FTC_
↪Sample_1_-_Single.mp3"
}

// Failed Job
{
  "id": "111111",
  "status": "failed",
  "created_on": "2018-05-05T23:23:22.29Z",
  "completed_on": "2018-05-05T23:23:24.11Z",
  "failure": "download_failure",
  "failure_detail": "Failed to download media file. Please check your url and file_
↪type"
}
```

4.5 Options

RevSpeech API Job Options Object Model

4.5.1 Properties

Name	Type	Description
media_url	string	direct download media url. ignored if submitting job from file
metadata	string	optional metadata to associate with the job. 256 maximum char limit
call-back_url	string	optional callback url to invoke on job completion as a <i>webhook</i>
skip_diarization	boolean	optional If true then speaker diarization will be skipped, otherwise speech engine will perform speaker diarization. If value is not provided then the value defaults to false.
language_model	n/a	<i>CURRENTLY UNSUPPORTED</i> language model type to use in processing
recognition_context	n/a	<i>CURRENTLY UNSUPPORTED</i> text to be used to give context to the recognition
locales	n/a	<i>CURRENTLY UNSUPPORTED</i> array of locale codes that are expected in the audio
custom_vocabulary	n/a	<i>CURRENTLY UNSUPPORTED</i> array of expressions that must be added/biased during recognition
desired_processing	n/a	<i>CURRENTLY UNSUPPORTED</i> list of speech-recognition steps to be performed

4.5.2 Examples

```
// From Media Url
{
  "media_url": "https://support.rev.com/hc/en-us/article_attachments/200043975/FTC_
↪Sample_1_-_Single.mp3",
  "metadata": "sample metadata",
  "callback_url": "https://www.example.com/callback",
  "skip_diarization": "false"
}

// From Local File
{
  "metadata": "sample metadata",
  "callback_url": "https://www.example.com/callback",
  "skip_diarization": "false"
}
```

4.6 Transcript

RevSpeech API Transcript Model

Note: properties are not displayed in the returned object if they are null

Jobs with *skip_diarization* set to true will only show a single speaker for the entire duration of the transcript.

4.6.1 Monologue

Name	Type	Description
speaker	int	id of the speaker of the monologue
elements	array	array of transcript elements

4.6.2 Element

Name	Type	Description
type	string	type of transcript element. "text", "punct", or "unknown"
value	string	value of the transcript element
ts	double	the timestamp of the beginning of the element in fractional seconds relative to the beginning of the audio
end_ts	double	the timestamp of the end of the element in fractional seconds relative to the beginning of the audio
confidence	double	confidence score of the provided value. ranges from 0.00 to 1.00

4.6.3 Examples

When a job is submitted with option *skip_diarization* set to false or is not specified, the transcript will have the following format:

```
// Transcript Object
{
  "monologues": [
    {
      "speaker": 1,
      "elements": [
        {
          "type": "text",
          "value": "Hello",
          "ts": 0.5,
          "end_ts": 1.5,
          "confidence": 1.00
        },
        {
          "type": "text",
          "value": "World",
          "ts": 1.75,
          "end_ts": 2.85,
          "confidence": .80
        },
        {
          "type": "punct",
          "value": "."
        }
      ]
    },
    {
      "speaker": 2,
      "elements": [
```

(continues on next page)

(continued from previous page)

```

    {
      "type": "text",
      "value": "monologues",
      "ts": 3.0,
      "end_ts": 3.5,
      "confidence": 1.00
    },
    {
      "type": "text",
      "value": "are",
      "ts": 3.6,
      "end_ts": 3.9,
      "confidence": 1.00
    },
    {
      "type": "text",
      "value": "a",
      "ts": 4.0,
      "end_ts": 4.3,
      "confidence": 1.00
    },
    {
      "type": "text",
      "value": "block",
      "ts": 4.5,
      "end_ts": 5.5,
      "confidence": 1.00
    },
    {
      "type": "text",
      "value": "of",
      "ts": 5.75,
      "end_ts": 6.14,
      "confidence": 1.00
    },
    {
      "type": "text",
      "value": "text",
      "ts": 6.5,
      "end_ts": 7.78,
      "confidence": 1.00
    },
    {
      "type": "punct",
      "value": ".",
    },
  ],
}
]
}

```

When a job is submitted with option `skip_diarization` is set to `true`, the transcript will have the following format:

```

// Transcript Object
{
  "monologues": [
    {

```

(continues on next page)

(continued from previous page)

```
"speaker": 1,
"elements": [
  {
    "type": "text",
    "value": "Hello",
    "ts": 0.5,
    "end_ts": 1.5,
    "confidence": 1.00
  },
  {
    "type": "text",
    "value": "World",
    "ts": 1.75,
    "end_ts": 2.85,
    "confidence": .80
  },
  {
    "type": "punct",
    "value": "."
  },
  {
    "type": "text",
    "value": "Monologues",
    "ts": 3.0,
    "end_ts": 3.5,
    "confidence": 1.00
  },
  {
    "type": "text",
    "value": "are",
    "ts": 3.6,
    "end_ts": 3.9,
    "confidence": 1.00
  },
  {
    "type": "text",
    "value": "a",
    "ts": 4.0,
    "end_ts": 4.3,
    "confidence": 1.00
  },
  {
    "type": "text",
    "value": "block",
    "ts": 4.5,
    "end_ts": 5.5,
    "confidence": 1.00
  },
  {
    "type": "text",
    "value": "of",
    "ts": 5.75,
    "end_ts": 6.14,
    "confidence": 1.00
  },
  {
    "type": "text",
```

(continues on next page)

(continued from previous page)

```

    "value": "text",
    "ts": 6.5,
    "end_ts": 7.78,
    "confidence": 1.00
  },
  {
    "type": "punct",
    "value": ".",
  }
]
}
}

```

4.7 Account

RevSpeech API Account Model

4.7.1 Properties

Name	Type	Description
email	string	email of developer account
balance_seconds	integer	amount of RevSpeech API credits remaining in seconds

4.7.2 Examples

```

// Account Object
{
  "email": "jay@rev.ai",
  "balance_seconds": 150
}

```

4.8 Webhooks

It is possible to provide a `callback_url` field when *submitting a job*. If a `callback_url` is provided, the API will POST the following data to the given url when the *job's* status becomes either `transcribed` or `failed`

4.8.1 Properties

Name	Type	Description
job	object	<i>RevSpeech API Job</i>

4.8.2 Examples

```
// Transcribed Job
{
  "job": {
    "id": "111111",
    "status": "transcribed",
    "created_on": "2018-05-05T23:23:22.29Z",
    "callback_url": "https://www.example.com/callback",
    "duration_seconds": 356.24,
    "media_url": "https://support.rev.com/hc/en-us/article_attachments/200043975/FTC_
↔Sample_1_-_Single.mp3"
  }
}
```


CHAPTER 5

Errors:

All errors returned in endpoints follow standard [RFC7807](#) spec