

## API Reference

### Start generating

These endpoints all kick off tasks to create generations.

#### Generate a video from an image

```
POST /v1/image_to_video
```

This endpoint will start a new task to generate a video from an image prompt.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Request body

**promptImage** **Required** string or Array of PromptImages (objects)

One of the following shapes:

```
string <url>
A HTTPS URL or data URI containing an encoded image to be used as the first frame of the generated video. See our docs on image inputs for more information.

PromptImages[] Array of objects
uri Required string <url>
A HTTPS URL or data URI containing an encoded image. See our docs on image inputs for more information.

position Required string
Accepted values: "first" "last"
The position of the image in the output video. "first" will use the image as the first frame of the video, "last" will use the image as the last frame of the video.
"last" is currently supported for gen3a_turbo only.
```

**model** **Required** string  
Accepted values: `"gen3a_turbo"` `"gen4_turbo"`  
The model variant to use.

**ratio** **Required** string  
Accepted values: `"1280:720"` `"720:1280"` `"1104:832"` `"832:1104"` `"960:960"`  
`"1584:672"` `"1280:768"` `"768:1280"`  
The resolution of the output video.  
gen4\_turbo supports the following values:

- 1280:720
- 720:1280
- 1104:832
- 832:1104
- 960:960
- 1584:672

gen3a\_turbo supports the following values:

- 1280:768
- 768:1280

**seed** integer [0, 4294967295]  
If unspecified, a random number is chosen. Varying the seed integer is a way to get different results for the same other request parameters. Using the same seed integer for an identical request will produce similar results.

**promptText** string <=1000 characters  
A non-empty string up to 1000 characters (measured in UTF-16 code units). This should describe in detail what should appear in the output.

**duration** integer  
Default: 10  
Accepted values: 5 10  
The number of seconds of duration for the output video.

**contentModeration** object  
Settings that affect the behavior of the content moderation system.

**publicFigureThreshold** string  
Default: "auto"  
Accepted values: "auto" "low"  
When set to `low`, the content moderation system will be less strict about preventing generations that include recognizable public figures.

#### Responses

```
> 200
The task has been successfully created.

-- 429
You have exceeded the rate limit for this endpoint.
```

#### Generate an image from text

```
POST /v1/text_to_image
```

This endpoint will start a new task to generate images from text.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Request body

**promptText** **Required** string <=1000 characters  
A non-empty string up to 1000 characters (measured in UTF-16 code units). This should describe in detail what should appear in the output.

**ratio** **Required** string  
Accepted values: `"1920:1080"` `"1080:1920"` `"1024:1024"` `"1360:768"`  
`"1080:1080"` `"1168:880"` `"1440:1080"` `"1080:1440"` `"1808:768"`  
`"2112:912"` `"1280:720"` `"720:1280"` `"720:720"` `"960:720"` `"720:960"`  
`"1680:720"`  
The resolution of the output image(s).

**model** **Required** string  
The model variant to use.  
This field must be set to the exact value `gen4_image`.

**seed** integer [0, 4294967295]  
If unspecified, a random number is chosen. Varying the seed integer is a way to get different results for the same other request parameters. Using the same seed integer for an identical request will produce similar results.

**referenceImages** Array of objects  
An array of images to be used as references for the generated image output. Up to three reference images can be provided.

**uri** **Required** string <url>  
A HTTPS URL or data URI containing an encoded image to be used as reference for the generated output image. See our docs on image inputs for more information.

**tag** string  
A name used to refer to the image reference, from 3 to 16 characters in length. Tags must be alphanumeric (plus underscores) and start with a letter. You can refer to the reference image's tag in the prompt text with `@tag`. Tags are case-sensitive.

**contentModeration** object  
Settings that affect the behavior of the content moderation system.

**publicFigureThreshold** string  
Default: "auto"  
Accepted values: "auto" "low"  
When set to `low`, the content moderation system will be less strict about preventing generations that include recognizable public figures.

#### Responses

```
> 200
The task has been successfully created.

-- 429
You have exceeded the rate limit for this endpoint.
```

#### Upscale a video

```
POST /v1/video_upscale
```

This endpoint will start a new task to upscale a video. Videos will be upscaled by a factor of 4X, clipped at a maximum of 4096px along each side.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Request body

**videoUri** **Required** string <url>  
A HTTPS URL pointing to a video or a data URI containing a video. The video must be less than 4096px on each side. The video duration may not exceed 40 seconds. See our docs on video inputs for more information.

**model** **Required** string  
The model variant to use.  
This field must be set to the exact value `upscale_v1`.

#### Responses

```
> 200
The task has been successfully created.
```

#### Control a character

```
POST /v1/character_performance
```

This endpoint will start a new task to control a character's facial expressions and body movements using a reference video.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Request body

**character** **Required** object  
The character to control. You can either provide a video or an image. A visually recognizable face must be visible and stay within the frame.

One of the following shapes:

```
CharacterVideo object
A video of your character. In the output, the character will use the reference video performance in its original animated environment and some of the character's own movements.

type Required string
This field must be set to the exact value video.

uri Required string <url>
A HTTPS URL pointing to a video or a data URI containing a video of your character. See our docs on video inputs for more information.
```

```
CharacterImage object
An image of your character. In the output, the character will use the reference video performance in its original static environment.

type Required string
This field must be set to the exact value image.

uri Required string <url>
A HTTPS URL pointing to an image or a data URI containing an image of your character. See our docs on image inputs for more information.
```

**reference** **Required** object  
**type** **Required** string  
This field must be set to the exact value `video`.

**uri** **Required** string <url>  
A HTTPS URL pointing to a video or a data URI containing a video of a person performing in the manner that you would like your character to perform. The video must be between 3 and 30 seconds in duration. See our docs on video inputs for more information.

**model** **Required** string  
The model variant to use.  
This field must be set to the exact value `act_two`.

**ratio** **Required** string  
Accepted values: `"1280:720"` `"720:1280"` `"960:960"` `"1104:832"` `"832:1104"`  
`"1584:672"`  
The resolution of the output video.

**bodyControl** boolean  
Default: true  
A boolean indicating whether to enable body control. When enabled, non-facial movements and gestures will be applied to the character in addition to facial expressions.

**expressionIntensity** integer [1..5]  
Default: 3  
An integer between 1 and 5 (inclusive). A larger value increases the intensity of the character's expression.

**seed** integer [0, 4294967295]  
If unspecified, a random number is chosen. Varying the seed integer is a way to get different results for the same other request parameters. Using the same seed integer for an identical request will produce similar results.

**contentModeration** object  
Settings that affect the behavior of the content moderation system.

**publicFigureThreshold** string  
Default: "auto"  
Accepted values: "auto" "low"  
When set to `low`, the content moderation system will be less strict about preventing generations that include recognizable public figures.

#### Responses

```
> 200
The task has been successfully created.
```

#### Task management

Endpoints for managing tasks that have been submitted.

##### Get task detail

```
GET /v1/tasks/{id}
```

Return details about a task. Consumers of this API should not expect updates more frequent than once every five seconds for a given task.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Path parameters

**id** **Required** string <uuid>  
The ID of a previously-submitted task that has not been canceled or deleted.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Responses

```
> 200
The task status.

-- 404
The task does not exist, or was deleted or canceled.
```

#### Cancel or delete a task

```
DELETE /v1/tasks/{id}
```

Tasks that are running, pending, or throttled can be canceled by invoking this method. Invoking this method for other tasks will delete them.

The output data associated with a deleted task will be deleted from persistent storage in accordance with our data retention policy. Aborted and deleted tasks will not be able to be fetched again in the future.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Path parameters

**id** **Required** string <uuid>  
The ID of a previously-submitted task that has not been canceled or deleted.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Responses

```
> 200
The organization information.

-- 404
You have exceeded the rate limit for this endpoint.
```

#### Query credit usage

```
POST /v1/organization/usage
```

Fetch credit usage data broken down by model and day for the organization associated with the API key used to make the request. Up to 90 days of data can be queried at a time.

#### Authentication

##### Authorization

Use the HTTP `Authorization` header with the `Bearer` scheme along with an API key.

#### Headers

**X-Runway-Version** **Required** string  
This field must be set to the exact value `2024-11-06`.

#### Request body

**startDate** string <date>  
The start date of the usage data in ISO-8601 format (YYYY-MM-DD). If unspecified, it will default to 30 days before the current date. All dates are in UTC.

**beforeDate** string <date>  
The end date of the usage data in ISO-8601 format (YYYY-MM-DD), not inclusive. If unspecified, it will default to 30 days after the start date. Must be less than or equal to 90 days after the start date. All dates are in UTC.

#### Responses

```
> 200
The credit usage data.

-- 429
You have exceeded the rate limit for this endpoint.
```

Node SDK Python SDK cURL fetch() httpx

```
curl -X POST https://api.dev.runwayml.com/v1/image_to_video -d '{
  "promptImage": "http://example.com",
  "seed": 4294967295,
  "model": "gen3a_turbo",
  "promptText": "string",
  "duration": 5,
  "ratio": "1280:720",
  "contentModeration": {
    "publicFigureThreshold": "auto"
  }
}' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
{
  "id": "497f6eca-6276-4993-bfeb-53cbbbba6f08"
}
```

Node SDK Python SDK cURL fetch() httpx

```
curl -X POST https://api.dev.runwayml.com/v1/text_to_image -d '{
  "promptText": "string",
  "ratio": "1920:1080",
  "seed": 4294967295,
  "model": "gen4_image",
  "referenceImages": [
    {
      "uri": "http://example.com",
      "tag": "string"
    }
  ],
  "contentModeration": {
    "publicFigureThreshold": "auto"
  }
}' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
{
  "id": "497f6eca-6276-4993-bfeb-53cbbbba6f08"
}
```

Node SDK Python SDK cURL fetch() httpx

```
curl -X POST https://api.dev.runwayml.com/v1/video_upscale -d '{
  "videoUri": "http://example.com",
  "model": "upscale_v1"
}' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
{
  "id": "497f6eca-6276-4993-bfeb-53cbbbba6f08"
}
```

Node SDK Python SDK cURL fetch() httpx

```
curl -X POST https://api.dev.runwayml.com/v1/character_performance -d '{
  "character": {
    "type": "video",
    "uri": "https://example.com"
  },
  "reference": {
    "type": "video",
    "uri": "https://example.com"
  },
  "bodyControl": true,
  "expressionIntensity": 3,
  "seed": 4294967295,
  "model": "act_two",
  "ratio": "1280:720",
  "contentModeration": {
    "publicFigureThreshold": "auto"
  }
}' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
{
  "id": "497f6eca-6276-4993-bfeb-53cbbbba6f08"
}
```

Node SDK Python SDK cURL fetch() httpx

```
curl https://api.dev.runwayml.com/v1/tasks/{id} \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
An example of a pending task
{
  "id": "17f28583-6c24-4c16-946b-35dbbce2af2f",
  "status": "PENDING",
  "createdAt": "2024-06-27T19:49:32.334Z"
}
```

Node SDK Python SDK cURL fetch() httpx

```
curl https://api.dev.runwayml.com/v1/organization/usage \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
Expand all Collapse all
{
  "creditBalance": 0,
  "tier": {
    "maxMonthlyCreditSpend": 0,
    "models": [ ... ]
  },
  "usage": {
    "models": [ ... ]
  }
}
```

Node SDK Python SDK cURL fetch() httpx

```
curl -X POST https://api.dev.runwayml.com/v1/organization/usage \
-d '{
  "startDate": "2019-08-24",
  "beforeDate": "2019-08-24"
}' \
-H 'Content-Type: application/json' \
-H 'Authorization: Bearer {{ YOUR API KEY }}' \
-H 'X-Runway-Version: 2024-11-06'
```

200

```
Expand all Collapse all
{
  "results": [
    + ... ]
  },
  "models": [
    "upscale_v1"
  ]
}
```