

START GENERATING

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## 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 <uri>

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 <uri>

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.

> 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 <uri>

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 @mention syntax. @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.

> 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 <uri>

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 <uri>

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 <uri>

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 <uri>

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.

> 200

The task has been successfully created.

— 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 <uid>

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

This endpoint will produce a 204 No Content response indicating successful cancellation or deletion. Calling this endpoint for tasks which have already been deleted or aborted will result in a 404; for idempotency purposes, it is safe to ignore these 404 errors.

#### Organization

##### Get organization information

GET /v1/organization

Get usage tier and credit balance information about the organization associated with the API key used to make the request.

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 .

Responses

> 200

The credit usage data.

— 429

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.

endDate string <date>

The end date of the usage data in ISO-8601 format (YYYY-MM-DD), not inclusive. If unspecified, it will default to thirty 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 '{\n \"promptImage\": \"http://example.com\", \n \"seed\": 4294967295, \n \"model\": \"gen3a\_turbo\", \n \"promptText\": \"string\", \n \"duration\": 5, \n \"ratio\": \"1280:720\", \n \"contentModeration\": {\n \"publicFigureThreshold\": \"auto\"\n }\n}' \\ \n-H 'Content-Type: application/json' \\ \n-H 'Authorization: Bearer {{ YOUR API KEY }}' \\ \n-H 'X-Runway-Version: 2024-11-06'

200

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

Node SDK Python SDK cURL fetch() httpx

curl -X POST https://api.dev.runwayml.com/v1/text\_to\_image -d '{\n \"promptText\": \"string\", \n \"ratio\": \"1920:1080\", \n \"seed\": 4294967295, \n \"model\": \"gen4\_image\", \n \"referenceImages\": [\n {\n \"uri\": \"http://example.com\", \n \"tag\": \"string\"\n }\n ], \n \"contentModeration\": {\n \"publicFigureThreshold\": \"auto\"\n }\n}' \\ \n-H 'Content-Type: application/json' \\ \n-H 'Authorization: Bearer {{ YOUR API KEY }}' \\ \n-H 'X-Runway-Version: 2024-11-06'

200

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

Node SDK Python SDK cURL fetch() httpx

curl -X POST https://api.dev.runwayml.com/v1/video\_upscale -d '{\n \"videoUri\": \"http://example.com\", \n \"model\": \"upscale\_v1\"\n}' \\ \n-H 'Content-Type: application/json' \\ \n-H 'Authorization: Bearer {{ YOUR API KEY }}' \\ \n-H 'X-Runway-Version: 2024-11-06'

200

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

Node SDK Python SDK cURL fetch() httpx

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

200

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

Node SDK Python SDK cURL fetch() httpx

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

200

An example of a pending task

{\n \"id\": \"1j7f285f3-6c24-4c16-946b-35dbbce2af2f\", \n \"status\": \"PENDING\", \n \"createdAt\": \"2024-06-27T19:49:32.334Z\"\n}

Node SDK Python SDK cURL fetch() httpx

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

200

Expand all Collapse all

{\n \"results\": [\n + ... ]\n ], \n \"models\": [\n \"upscale\_v1\"\n ]\n}

System default