

xAI Image Generation & Editing API

Image Quality Settings

The quality parameter controls output image dimensions:

Quality	Description
low	Faster generation, smaller files
medium	Balanced quality and speed (default)
high	Highest quality, larger files

Image Generation Endpoints

Generate Images

Generate one or more images from a text prompt. Method: POST URL: /v1/images/generations

Request

Field	Type	Required	Description
prompt	string	yes	Text description of the desired image. Max 10,000 characters.
model	string	no	Model to use
n	integer	no	Number of images to generate (1-10). Default: 1
quality	string	no	Output quality: low, medium, or high. Default: medium
response_format	string	no	Return format: url or b64_json. Default: url

Response

Field	Type	Description
data	array	List of generated image objects

<code>data[] url</code>	<code>string</code>	URL to the generated image (if <code>response_format</code> is <code>url</code>)
<code>data[] b64_json</code>	<code>string</code>	Base64-encoded image (if <code>response_format</code> is <code>b64_json</code>)
<code>data[] revised_prompt</code>	<code>string</code>	The enhanced prompt used for generation

Example

```
Shell
curl --location 'https://api.x.ai/v1/images/generations' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer YOUR_API_KEY' \
--data '{
  "prompt": "A cat in a tree",
  "model": "grok-imagine-v0p9"
}'
```

Response Example

```
JSON
{
  "data": [
    {
      "url": "https://imgen.x.ai/xai-images/xai-tmp-imgen-abc123.png",
      "revised_prompt": "A tranquil Japanese garden featuring delicate cherry blossom trees in full bloom, their pink petals gently falling onto a crystal-clear koi pond. Golden and white koi fish swim gracefully beneath the surface. The scene is bathed in warm sunset light..."
    }
  ]
}
```

Edit Images

Modify an existing image based on a text prompt. Method: POST URL: /v1/images/edits

Request

Field	Type	Required	Description
prompt	string	yes	Text description of the desired edit. Max 10,000 characters.
image	object	yes	Input image to edit (see Image Object below)
model	string	no	Model to use. Default: grok-2-image
n	integer	no	Number of edited images to generate (1-10). Default: 1
response_format	string	no	Return format: url or b64_json. Default: url

Image Object

Field	Type	Required	Description
url	string	yes	URL of the input image to edit

Response

Field	Type	Description
data	array	List of generated image objects
data[].url	string	URL to the generated image (if response_format is url)
data[].b64_json	string	Base64-encoded image (if response_format is b64_json)
data[].revised_prompt	string	The enhanced prompt used for generation

Example

```
Shell
curl --location 'https://api.x.ai/v1/images/edits' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer YOUR_API_KEY' \
--data '{
    "prompt": "Add a rainbow in the sky",
    "image": {
        "url": "https://example.com/my-photo.jpg"
    },
    "model": "grok-imagine-v0p9",
}

curl --location 'https://api.x.ai/v1/images/edits' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer YOUR_API_KEY' \
--data '{
    "prompt": "Add a rainbow in the sky",
    "image": {
        "url": ""
    },
    "model": "grok-imagine-v0p9",
}'
```