The REST API is now versioned. For more information, see "About API versioning."

Labels

Use the REST API to manage labels for repositories, issues and pull requests.

About labels 🔗

You can use the REST API to manage labels for a repository and add or remove labels to issues and pull requests. Every pull request is an issue, but not every issue is a pull request. For this reason, "shared" actions for both features, like managing assignees, labels, and milestones, are provided within the Issues endpoints.

List labels for an issue 🔗

✓ Works with GitHub Apps

Lists all labels for an issue.

Parameters for "List labels for an issue"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner string Required

The account owner of the repository. The name is not case sensitive.

repo string Required

The name of the repository without the `.git` extension. The name is not case sensitive.

issue_number integer Required

The number that identifies the issue.

Query parameters

per_page integer
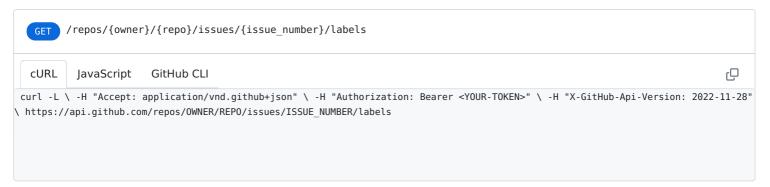
The number of results per page (max 100).

Default: `30`

page integer

Page number of the results to fetch.

Default: 1

HTTP response status codes for "List labels for an issue"

Status code	Description
200	OK
301	Moved permanently
404	Resource not found
410	Gone

Code samples for "List labels for an issue"

GET `/repos/{owner}/{repo}/issues/{issue_number}/labels`

cURL   JavaScript   GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version: 2022-11-28"
\ https://api.github.com/repos/OWNER/REPO/issues/ISSUE_NUMBER/labels
```

Response

Example response   Response schema

Status: 200

```
[ { "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }, { "id": 208045947, "node_id":
"MDU6TGFiZWwyMDgwNDU5NDc=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/enhancement", "name": "enhancement",
"description": "New feature or request", "color": "a2eeef", "default": false } ]
```

Add labels to an issue 🔗

✓ Works with [GitHub Apps](#)

Adds labels to an issue. If you provide an empty array of labels, all labels are removed from the issue.

Parameters for "Add labels to an issue"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner string   Required

The account owner of the repository. The name is not case sensitive.

---

repo string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

---

issue_number integer   Required

The number that identifies the issue.

Body parameters

labels array of strings

The names of the labels to add to the issue's existing labels. You can pass an empty array to remove all labels. Alternatively, you can pass a single label as a `string` or an `array` of labels directly, but GitHub recommends passing an object with the `labels` key. You can also replace all of the labels for an issue. For more information, see "Set labels for an issue."

HTTP response status codes for "Add labels to an issue"

Status code	Description
200	OK
301	Moved permanently
404	Resource not found
410	Gone
422	Validation failed, or the endpoint has been spammed.

Code samples for "Add labels to an issue"

POST `/repos/{owner}/{repo}/issues/{issue_number}/labels`

cURL   JavaScript   GitHub CLI

```
curl -L \ -X POST \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/issues/ISSUE_NUMBER/labels \ -d '{"labels":["bug","enhancement"]}'
```

Response

Example response   Response schema

Status: 200

```
[ { "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }, { "id": 208045947, "node_id":
"MDU6TGFiZWwyMDgwNDU5NDc=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/enhancement", "name": "enhancement",
"description": "New feature or request", "color": "a2eeef", "default": false } ]
```

Set labels for an issue 🔗

✅ Works with [GitHub Apps](#)

Removes any previous labels and sets the new labels for an issue.

Parameters for "Set labels for an issue"

Headers

`accept` string

Setting to `application/vnd.github+json` is recommended.

Path parameters

`owner` string   Required

The account owner of the repository. The name is not case sensitive.

`repo` string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

`issue_number` integer   Required

The number that identifies the issue.

Body parameters

`labels` array of strings

The names of the labels to set for the issue. The labels you set replace any existing labels. You can pass an empty array to remove all labels. Alternatively, you can pass a single label as a `string` or an `array` of labels directly, but GitHub recommends passing an object with the `labels` key. You can also add labels to the existing labels for an issue. For more information, see "[Add labels to an issue](#)."

HTTP response status codes for "Set labels for an issue"

Status code	Description
`200`	OK
`301`	Moved permanently
`404`	Resource not found
`410`	Gone
`422`	Validation failed, or the endpoint has been spammed.

Code samples for "Set labels for an issue"

`PUT` /repos/{owner}/{repo}/issues/{issue_number}/labels

cURL   JavaScript   GitHub CLI

```
curl -L \ -X PUT \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/issues/ISSUE_NUMBER/labels \ -d '{"labels":["bug","enhancement"]}'
```

Response

Example response   Response schema

Status: 200

```
[ { "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }, { "id": 208045947, "node_id":
"MDU6TGFiZWwyMDgwNDU5NDc=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/enhancement", "name": "enhancement",
"description": "New feature or request", "color": "a2eeef", "default": false } ]
```

Remove all labels from an issue 🔗

✅ Works with [GitHub Apps](#)

Removes all labels from an issue.

Parameters for "Remove all labels from an issue"

Headers

accept   string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner   string   Required

The account owner of the repository. The name is not case sensitive.

repo   string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

issue_number   integer   Required

The number that identifies the issue.

HTTP response status codes for "Remove all labels from an issue"

Status code	Description
204	No Content
301	Moved permanently

404	Resource not found
410	Gone

Code samples for "Remove all labels from an issue"

`DELETE` `/repos/{owner}/{repo}/issues/{issue_number}/labels`

cURL   JavaScript   GitHub CLI

```
curl -L \ -X DELETE \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/issues/ISSUE_NUMBER/labels
```

Response

```
Status: 204
```

Remove a label from an issue 🔗

✅ Works with GitHub Apps

Removes the specified label from the issue, and returns the remaining labels on the issue. This endpoint returns a `404 Not Found` status if the label does not exist.

Parameters for "Remove a label from an issue"

Headers

`accept` string

Setting to `application/vnd.github+json` is recommended.

Path parameters

`owner` string   Required

The account owner of the repository. The name is not case sensitive.

`repo` string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

`issue_number` integer   Required

The number that identifies the issue.

`name` string   Required

HTTP response status codes for "Remove a label from an issue"

Status code	Description
200	OK
301	Moved permanently
404	Resource not found
410	Gone

Code samples for "Remove a label from an issue"

`DELETE` `/repos/{owner}/{repo}/issues/{issue_number}/labels/{name}`

cURL   JavaScript   GitHub CLI

```
curl -L \ -X DELETE \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/issues/ISSUE_NUMBER/labels/NAME
```

Response

Example response   Response schema

Status: 200

```
[ { "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true } ]
```

List labels for a repository 🔗

✅ Works with GitHub Apps

Lists all labels for a repository.

Parameters for "List labels for a repository"

Headers

accept   string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner   string   Required

The account owner of the repository. The name is not case sensitive.

repo   string   Required

repo string *Required*

The name of the repository without the `.git` extension. The name is not case sensitive.

Query parameters

per_page integer

The number of results per page (max 100).

Default: `30`

page integer

Page number of the results to fetch.

Default: `1`

HTTP response status codes for "List labels for a repository"

Status code	Description
`200`	OK
`404`	Resource not found

Code samples for "List labels for a repository"

GET `/repos/{owner}/{repo}/labels`

cURL   JavaScript   GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version: 2022-11-28"
\ https://api.github.com/repos/OWNER/REPO/labels
```

Response

Example response   Response schema

Status: 200

```
[ { "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }, { "id": 208045947, "node_id":
"MDU6TGFiZWwyMDgwNDU5NDc=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/enhancement", "name": "enhancement",
"description": "New feature or request", "color": "a2eeef", "default": false } ]
```

Create a label 🔗

✅ Works with [GitHub Apps](#)

Creates a label for the specified repository with the given name and color. The name and color parameters are required. The color must be a valid [hexadecimal color code](#).

Parameters for "Create a label"

Headers

`accept` string

Setting to `application/vnd.github+json` is recommended.

Path parameters

`owner` string   Required

The account owner of the repository. The name is not case sensitive.

`repo` string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

Body parameters

`name` string   Required

The name of the label. Emoji can be added to label names, using either native emoji or colon-style markup. For example, typing `:strawberry:` will render the emoji 🍓. For a full list of available emoji and codes, see "[Emoji cheat sheet](#)."

`color` string

The [hexadecimal color code](#) for the label, without the leading `#`.

`description` string

A short description of the label. Must be 100 characters or fewer.

HTTP response status codes for "Create a label"

Status code	Description
201	Created
404	Resource not found
422	Validation failed, or the endpoint has been spammed.

Code samples for "Create a label"

`POST` `/repos/{owner}/{repo}/labels`

cURL   JavaScript   GitHub CLI

```
curl -L \ -X POST \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/labels \ -d '{"name":"bug","description":"Something isn'\''t
working","color":"f29513"}'
```

Response

Example response   Response schema

```
    Status: 201
```

```
{ "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }
```

Get a label 🔗

✓ Works with [GitHub Apps](#)

Gets a label using the given name.

Parameters for "Get a label"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner string Required

The account owner of the repository. The name is not case sensitive.

repo string Required

The name of the repository without the `.git` extension. The name is not case sensitive.

name string Required

HTTP response status codes for "Get a label"

Status code	Description
`200`	OK
`404`	Resource not found

Code samples for "Get a label"

GET `/repos/{owner}/{repo}/labels/{name}`

cURL   JavaScript   GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version: 2022-11-28"
\ https://api.github.com/repos/OWNER/REPO/labels/NAME
```

Response

Example response	Response schema

Status: 200

{ "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug", "name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }

Update a label 🔗

✅ Works with [GitHub Apps](#)

Updates a label using the given label name.

Parameters for "Update a label"

Headers

`accept` string

Setting to `application/vnd.github+json` is recommended.

Path parameters

`owner` string   Required

The account owner of the repository. The name is not case sensitive.

`repo` string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

`name` string   Required

Body parameters

`new_name` string

The new name of the label. Emoji can be added to label names, using either native emoji or colon-style markup. For example, typing `:strawberry:` will render the emoji 🍓. For a full list of available emoji and codes, see "[Emoji cheat sheet](#)."

`color` string

The [hexadecimal color code](#) for the label, without the leading `#`.

`description` string

A short description of the label. Must be 100 characters or fewer.

HTTP response status codes for "Update a label"

Status code	Description
200	OK

Code samples for "Update a label"

PATCH `/repos/{owner}/{repo}/labels/{name}`

cURL   JavaScript   GitHub CLI

```
curl -L \ -X PATCH \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
2022-11-28" \ https://api.github.com/repos/OWNER/REPO/labels/NAME \ -d '{"new_name":"bug :bug:","description":"Small bug fix
required","color":"b01f26"}'
```

Response

Example response   Response schema

Status: 200

```
{ "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-
World/labels/bug%20:bug:", "name": "bug :bug:", "description": "Small bug fix required", "color": "b01f26", "default": true }
```

Delete a label 🔗

✅ Works with GitHub Apps

Deletes a label using the given label name.

Parameters for "Delete a label"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner string   Required

The account owner of the repository. The name is not case sensitive.

repo string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

name string   Required

HTTP response status codes for "Delete a label"

Status code	Description
204	No Content

Code samples for "Delete a label"

> `DELETE` `/repos/{owner}/{repo}/labels/{name}`
>
> cURL   JavaScript   GitHub CLI
>
> ```
> curl -L \ -X DELETE \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version:
> 2022-11-28" \ https://api.github.com/repos/OWNER/REPO/labels/NAME
> ```

Response

> ```
> Status: 204
> ```

List labels for issues in a milestone 🔗

✅ Works with GitHub Apps

Lists labels for issues in a milestone.

Parameters for "List labels for issues in a milestone"

Headers

accept string

Setting to `application/vnd.github+json` is recommended.

Path parameters

owner string   Required

The account owner of the repository. The name is not case sensitive.

repo string   Required

The name of the repository without the `.git` extension. The name is not case sensitive.

milestone_number integer   Required

The number that identifies the milestone.

Query parameters

per_page integer

The number of results per page (max 100).

Default: `30`

---

page   integer

Page number of the results to fetch.

Default: `1`

HTTP response status codes for "List labels for issues in a milestone"

Status code	Description
`200`	OK

Code samples for "List labels for issues in a milestone"

`GET`   /repos/{owner}/{repo}/milestones/{milestone_number}/labels

cURL   JavaScript   GitHub CLI

```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-Api-Version: 2022-11-28"
\ https://api.github.com/repos/OWNER/REPO/milestones/MILESTONE_NUMBER/labels
```

Response

Example response   Response schema

Status: 200

```
[ { "id": 208045946, "node_id": "MDU6TGFiZWwyMDgwNDU5NDY=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/bug",
"name": "bug", "description": "Something isn't working", "color": "f29513", "default": true }, { "id": 208045947, "node_id":
"MDU6TGFiZWwyMDgwNDU5NDc=", "url": "https://api.github.com/repos/octocat/Hello-World/labels/enhancement", "name": "enhancement",
"description": "New feature or request", "color": "a2eeef", "default": false } ]
```