

The REST API is now versioned. For more information, see "[About API versioning](#)."

# Repository statistics

Use the REST API to fetch the data that GitHub Enterprise Server uses for visualizing different types of repository activity.

## About repository statistics

You can use the REST API to fetch the data that GitHub Enterprise Server uses for visualizing different types of repository activity.

## Best practices for caching

Computing repository statistics is an expensive operation, so we try to return cached data whenever possible. If the data hasn't been cached when you query a repository's statistics, you'll receive a `202` response; a background job is also fired to start compiling these statistics. You should allow the job a short time to complete, and then submit the request again. If the job has completed, that request will receive a `200` response with the statistics in the response body.

Repository statistics are cached by the SHA of the repository's default branch; pushing to the default branch resets the statistics cache.

## Statistics exclude some types of commits

The statistics exposed by the API match the statistics shown by [different repository graphs](#).

To summarize this:

- All statistics exclude merge commits.
- Contributor statistics also exclude empty commits.

## Get the weekly commit activity

✔ Works with [GitHub Apps](#)

Returns a weekly aggregate of the number of additions and deletions pushed to a repository.

### Parameters for "Get the weekly commit activity"

#### 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.

HTTP response status codes for "Get the weekly commit activity"

Status code	Description
200	Returns a weekly aggregate of the number of additions and deletions pushed to a repository.
202	Accepted
204	A header with no content is returned.

Code samples for "Get the weekly commit activity"

GET

/repos/{owner}/{repo}/stats/code\_frequency

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" \ http(s)://HOSTNAME/api/v3/repos/OWNER/REPO/stats/code_frequency
```

Returns a weekly aggregate of the number of additions and deletions pushed to a repository.

Example response

Response schema

Status: 200

```
[ [ 1302998400, 1124, -435 ] ]
```

Get the last year of commit activity

✔ Works with [GitHub Apps](#)

Returns the last year of commit activity grouped by week. The `days` array is a group of commits per day, starting on `Sunday` .

Parameters for "Get the last year of commit activity"

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.

HTTP response status codes for "Get the last year of commit activity"

Status code	Description
200	OK
202	Accepted
204	A header with no content is returned.

Code samples for "Get the last year of commit activity"

**GET** /repos/{owner}/{repo}/stats/commit\_activity

cURLJavaScriptGitHub CLI

curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/repos/OWNER/REPO/stats/commit\_activity

Response

Example responseResponse schema

Status: 200

[ { "days": [ 0, 3, 26, 20, 39, 1, 0 ], "total": 89, "week": 1336280400 } ]

Get all contributor commit activity

Works with [GitHub Apps](#)

Returns the `total` number of commits authored by the contributor. In addition, the response includes a Weekly Hash (`weeks` array) with the following information:

- `w` - Start of the week, given as a [Unix timestamp](#).
- `a` - Number of additions
- `d` - Number of deletions
- `c` - Number of commits

Parameters for "Get all contributor commit activity"

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.

HTTP response status codes for "Get all contributor commit activity"

Status code	Description
200	OK
202	Accepted
204	A header with no content is returned.

Code samples for "Get all contributor commit activity"

`GET` `/repos/{owner}/{repo}/stats/contributors`

`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" \ http(s)://HOSTNAME/api/v3/repos/OWNER/REPO/stats/contributors
```

Response

`Example response``Response schema`

Status: 200

```
[ { "author": { "login": "octocat", "id": 1, "node_id": "MDQ6VXNlcjE=", "avatar_url": "https://github.com/images/error/octocat_happy.gif", "gravatar_id": "", "url": "https://HOSTNAME/users/octocat", "html_url": "https://github.com/octocat", "followers_url": "https://HOSTNAME/users/octocat/followers", "following_url": "https://HOSTNAME/users/octocat/following{/other_user}", "gists_url": "https://HOSTNAME/users/octocat/gists{/gist_id}", "starred_url": "https://HOSTNAME/users/octocat/starred{/owner}/{repo}", "subscriptions_url": "https://HOSTNAME/users/octocat/subscriptions", "organizations_url": "https://HOSTNAME/users/octocat/orgs", "repos_url":
```

# Get the weekly commit count

✔ Works with [GitHub Apps](#)

Returns the total commit counts for the `owner` and total commit counts in `all`. `all` is everyone combined, including the `owner` in the last 52 weeks. If you'd like to get the commit counts for non-owners, you can subtract `owner` from `all`.

The array order is oldest week (index 0) to most recent week.

The most recent week is seven days ago at UTC midnight to today at UTC midnight.

## Parameters for "Get the weekly commit count"

### 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.

## HTTP response status codes for "Get the weekly commit count"

Status code	Description
200	The array order is oldest week (index 0) to most recent week.
404	Resource not found

## Code samples for "Get the weekly commit count"

GET

`/repos/{owner}/{repo}/stats/participation`

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" \ http(s)://HOSTNAME/api/v3/repos/OWNER/REPO/stats/participation
```

The array order is oldest week (index 0) to most recent week.

Example response

Response schema

Status: 200

```
{ "all": [ 11, 21, 15, 2, 8, 1, 8, 23, 17, 21, 11, 10, 33, 91, 38, 34, 22, 23, 32, 3, 43, 87, 71, 18, 13, 5, 13, 16, 66, 27, 12, 45, 110, 117, 13, 8, 18, 9, 19, 26, 39, 12, 20, 31, 46, 91, 45, 10, 24, 9, 29, 7 ], "owner": [ 3, 2, 3, 0, 2, 0, 5, 14, 7, 9, 1, 5, 0, 48, 19, 2, 0, 1, 10, 2, 23, 40, 35, 8, 8, 2, 10, 6, 30, 0, 2, 9, 53, 104, 3, 3, 10, 4, 7, 11, 21, 4, 4, 22, 26, 63, 11, 2, 14, 1, 10, 3 ] }
```

# Get the hourly commit count for each day

✔ Works with [GitHub Apps](#)

Each array contains the day number, hour number, and number of commits:

- 0-6 : Sunday - Saturday
- 0-23 : Hour of day
- Number of commits

For example, [2, 14, 25] indicates that there were 25 total commits, during the 2:00pm hour on Tuesdays. All times are based on the time zone of individual commits.

## Parameters for "Get the hourly commit count for each day"

### 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.

## HTTP response status codes for "Get the hourly commit count for each day"

Status code	Description
200	For example, [2, 14, 25] indicates that there were 25 total commits, during the 2:00pm hour on Tuesdays. All times are based on the time zone of individual commits.
204	A header with no content is returned.

## Code samples for "Get the hourly commit count for each day"


GET

/repos/{owner}/{repo}/stats/punch\_card

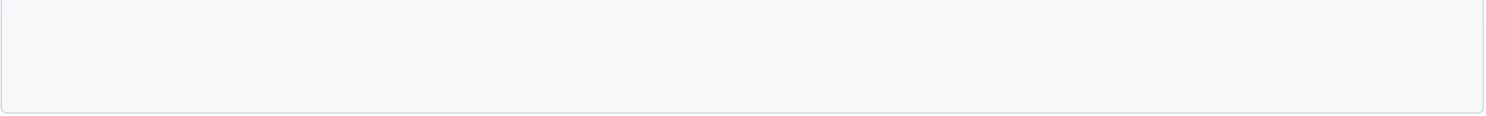
cURL

JavaScript

GitHub CLI



```
curl -L \ -H "Accept: application/vnd.github+json" \ -H "Authorization: Bearer <YOUR-TOKEN>" \ -H "X-GitHub-API-Version: 2022-11-28" \ http(s)://HOSTNAME/api/v3/repos/OWNER/REPO/stats/punch_card
```



For example, [2, 14, 25] indicates that there were 25 total commits, during the 2:00pm hour on Tuesdays. All times are based on the time zone of individual commits.

Example response

Response schema

Status: 200

[ [ 0, 0, 5 ], [ 0, 1, 43 ], [ 0, 2, 21 ] ]

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