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 Cloud uses for visualizing different types of repository activity.

About repository statistics 🔗

You can use the REST API to fetch the data that GitHub Enterprise Cloud 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"
\ https://api.github.com/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`

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/stats/commit_activity
```

Response

Example response   Response 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"
\ https://api.github.com/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://api.github.com/users/octocat", "html_url":
"https://github.com/octocat", "followers_url": "https://api.github.com/users/octocat/followers", "following_url":
"https://api.github.com/users/octocat/following{/other_user}", "gists_url": "https://api.github.com/users/octocat/gists{/gist_id}",
"starred_url": "https://api.github.com/users/octocat/starred{/owner}{/repo}", "subscriptions_url":
"https://api.github.com/users/octocat/subscriptions", "organizations_url": "https://api.github.com/users/octocat/orgs",
```

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"
\ https://api.github.com/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"
\ https://api.github.com/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 ] ]
```