



gh api

```
gh api <endpoint> [flags]
```

Makes an authenticated HTTP request to the GitHub API and prints the response.

The endpoint argument should either be a path of a GitHub API v3 endpoint, or `graphql` to access the GitHub API v4.

Placeholder values `{owner}`, `{repo}`, and `{branch}` in the endpoint argument will get replaced with values from the repository of the current directory or the repository specified in the `GH_REPO` environment variable. Note that in some shells, for example PowerShell, you may need to enclose any value that contains `{...}` in quotes to prevent the shell from applying special meaning to curly braces.

The default HTTP request method is `GET` normally and `POST` if any parameters were added. Override the method with `--method`.

Pass one or more `-f/--raw-field` values in `key=value` format to add static string parameters to the request payload. To add non-string or placeholder-determined values, see `-F/--field` below. Note that adding request parameters will automatically switch the request method to `POST`. To send the parameters as a `GET` query string instead, use `--method GET`.

The `-F/--field` flag has magic type conversion based on the format of the value:

- literal values `true`, `false`, `null`, and integer numbers get converted to appropriate JSON types;
- placeholder values `{owner}`, `{repo}`, and `{branch}` get populated with values from the repository of the current directory;
- if the value starts with `@`, the rest of the value is interpreted as a filename to read the value from. Pass `-` to read from standard input.

For GraphQL requests, all fields other than `query` and `operationName` are interpreted as GraphQL variables.

To pass nested parameters in the request payload, use `key[subkey]=value` syntax when declaring fields. To pass nested values as arrays, declare multiple fields with the syntax `key[]=value1`, `key[]=value2`. To pass an empty array, use `key[]` without a value.

To pass pre-constructed JSON or payloads in other formats, a request body may be read from file specified by `--input`. Use `-` to read from standard input. When passing the request body this way, any parameters specified via field flags are added to the query string of the endpoint URL.

In `--paginate` mode, all pages of results will sequentially be requested until there are no more pages of results. For GraphQL requests, this requires that the original query accepts an `$endCursor: String` variable and that it fetches the `pageInfo{ hasNextPage, endCursor }` set of fields from a collection. Each page is a separate JSON array or object. Pass `--slurp` to wrap all pages of JSON arrays or objects into an outer JSON array.

Options

`--cache <duration>`

Cache the response, e.g. "3600s", "60m", "1h"

`-F`, `--field <key=value>`

Add a typed parameter in key=value format

`-H`, `--header <key:value>`

Add a HTTP request header in key:value format

`--hostname <string>`

The GitHub hostname for the request (default "github.com")

`-i`, `--include`

Include HTTP response status line and headers in the output

`--input <file>`

The file to use as body for the HTTP request (use "-" to read from standard input)

`-q`, `--jq <string>`

Query to select values from the response using jq syntax

`-X`, `--method <string>` (default "GET")

The HTTP method for the request

`--paginate`

Make additional HTTP requests to fetch all pages of results

`-p`, `--preview <names>`

GitHub API preview names to request (without the "-preview" suffix)

`-f`, `--raw-field <key=value>`

Add a string parameter in key=value format

--silent

Do not print the response body

--slurp

Use with "--paginate" to return an array of all pages of either JSON arrays or objects

-t, --template <string>

Format JSON output using a Go template; see "gh help formatting"

--verbose

Include full HTTP request and response in the output

Examples

```
# list releases in the current repository
$ gh api repos/{owner}/{repo}/releases

# post an issue comment
$ gh api repos/{owner}/{repo}/issues/123/comments -f body='Hi from CLI'

# post nested parameter read from a file
$ gh api gists -F 'files[myfile.txt][content]=@myfile.txt'

# add parameters to a GET request
$ gh api -X GET search/issues -f q='repo:cli/cli is:open remote'

# set a custom HTTP header
$ gh api -H 'Accept: application/vnd.github.v3.raw+json' ...

# opt into GitHub API previews
$ gh api --preview baptiste,nebula ...

# print only specific fields from the response
$ gh api repos/{owner}/{repo}/issues --jq '.[].title'

# use a template for the output
$ gh api repos/{owner}/{repo}/issues --template \
  '{{range .}}{{.title}} ({{.labels | pluck "name" | join ", " | color "yellow"}})

# update allowed values of the "environment" custom property in a deeply nested ar
$ gh api -X PATCH /orgs/{org}/properties/schema \
  -F 'properties[][property_name]=environment' \
  -F 'properties[][default_value]=production' \
  -F 'properties[][allowed_values][]=staging' \
  -F 'properties[][allowed_values][]=production'

# list releases with GraphQL
$ gh api graphql -F owner='{owner}' -F name='{repo}' -f query='
```

```
query($name: String!, $owner: String!) {
  repository(owner: $owner, name: $name) {
    releases(last: 3) {
      nodes { tagName }
    }
  }
}
```

,

```
# list all repositories for a user
$ gh api graphql --paginate -f query='
query($endCursor: String) {
  viewer {
    repositories(first: 100, after: $endCursor) {
      nodes { nameWithOwner }
    }
    pageInfo {
      hasNextPage
      endCursor
    }
  }
}'
,
```

```
# get the percentage of forks for the current user
$ gh api graphql --paginate --slurp -f query='
query($endCursor: String) {
  viewer {
    repositories(first: 100, after: $endCursor) {
      nodes { isFork }
    }
    pageInfo {
      hasNextPage
      endCursor
    }
  }
}'
' | jq 'def count(e): reduce e as $_ (0;.+1);
[.[] .data.viewer.repositories.nodes[]] as $r | count(select($r[].isFork))/count($r
```

See also

- [gh](#)

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