

dam DuVander / January 26, 2017

building or consuming an API, you need a similar translator to your exploration. I *suppose* you could have a human perform translation, but computers do a much better job of making API calls and parsing the responses. Yet, there is still a human element to the exploration phase of an API. During that period, you might use one of these four tools to assist you in working with API endpoints, to stand in as an interpreter that makes sense of the API.

It'd be negligent to write about these tools without starting with curl. The popular command line utility was created during the early Web 1.0 years. Today, it's bundled with macOS, runs on Windows and Linux, and is used as a language-agnostic example in the documentation of countless APIs.

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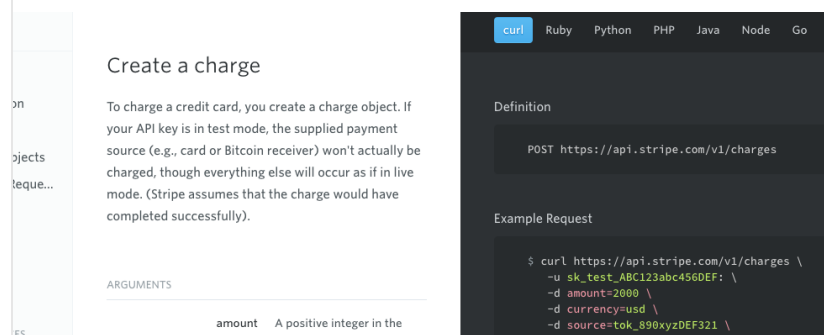
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object

arge

harge

harge

harge

ges

REQUIRED

smallest currency unit (e.g., 100 cents to charge \$1.00 or 100 to charge ¥100, a 0-decimal currency) representing how much to charge the card. The minimum amount is \$0.50 US or equivalent in charge currency.

currency

REQUIRED


3-letter ISO code for currency.

description: "Charge for jayden.johnson@example.com"

Example Response


```
{
  "id": "ch_789abc123XYZ",
  "object": "charge",
  "amount": 999,
  "amount_refunded": 0,
  "application": null,
  "application_fee": null,
```

for example, has one of the [best examples of API entation](#) and they make wide use of cURL examples. You can copy an example request in Stripe’s documentation and paste your command line. Stripe makes it easy so developers can get a feel for the API, while recognizing one tiny catch: cURL is particularly easy to use.



Daniel Stenberg

@bagder



has options on all single letters a-z (upper and lower case), except for TWO upper case letters. We're saving them for... hm, mmo.

0 3:23 PM - Dec 29, 2016

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>

are so many different flags to send along with cURL commands they’ve almost run out of letters. Further, the software is built to with more than just API requests. There are a laundry list of tools and authentication methods in the cURL documentation. It’s erful tool, but with great power comes great... complexity.

aid, with a little practice, you’ll memorize the handful of on commands you’ll use most with modern APIs:

- for HTTP headers: `-H "Content-type: application/json"`
- for HTTP method: `-X POST`
- for data: `-d '{"field": "value", "numeric": 42}'`
- for basic authentication: `-u "username:password"`

end a Zapier shirt to whoever comes up with the best way to mber the `HXdU` flags, because I could really use a mnemonic.

Pie: Intuitive cURL Alternative Made

- [Zapier at PyCon 2019](#)
- [How to Use the Google Calendar API](#)
- [Google One-tap Experiments: An Improved UX with IFrames and Cookies](#)
- [Track Your API Users to Gauge Integration Effectiveness](#)
- [API Best Practices: Webhooks, Deprecation, and Design](#)
- [How we used iptables to replicate UDP traffic when upgrading our Graylog cluster](#)
- [How We Automated Our Engineering Skills Test for Hundreds of Applicants](#)
- [A Place for Manualization in an Automated World](#)
- [Webhooks for Productive Developers](#)

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APIs

the command line functionality without the complexity? [HTTPie](#) designed specifically for RESTful APIs, so it makes some options that save time and keystrokes.

The image shows two overlapping terminal windows. The background window shows a standard curl command and its raw output. The foreground window shows the same request using HTTPie, which formats the response as JSON for better readability.

```

bash
$ curl -i -X PUT httpbin.org/put -H Content-Type: application/json -d '{"hello": "world"}'
HTTP/1.1 200 OK
Server: nginx
Date: Sat, 14 Feb 2015 17:36:55 GMT
Content-Type: application/json
Content-Length: 318
Connection: keep-alive
Access-Control-Allow-Origin: *
Access-Control-Allow-Credentials: true

{"args": {}, "data": "{\"hello\": \"world\"}", "files": {}, "form": {}, "headers": {"Accept": "application/json", "Accept-Encoding": "gzip, deflate", "Content-Length": "18", "Content-Type": "application/json", "Host": "httpbin.org", "User-Agent": "HTTPie/1.0.0-dev"}, "json": {"hello": "world"}, "origin": "109.81.210.187", "url": "http://httpbin.org/put"}

bash
$ http PUT httpbin.org/put hello=world
HTTP/1.1 200 OK
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: *
Connection: keep-alive
Content-Length: 423
Content-Type: application/json
Date: Sat, 14 Feb 2015 17:36:55 GMT
Server: nginx

{
  "args": {},
  "data": "{\"hello\": \"world\"}",
  "files": {},
  "form": {},
  "headers": {
    "Accept": "application/json",
    "Accept-Encoding": "gzip, deflate",
    "Content-Length": "18",
    "Content-Type": "application/json",
    "Host": "httpbin.org",
    "User-Agent": "HTTPie/1.0.0-dev"
  },
  "json": {
    "hello": "world"
  },
  "origin": "109.81.210.187",
  "url": "http://httpbin.org/put"
}

```

many modern APIs use JSON as a data format, HTTPie expects requests and when parsing responses. Even better, minified (when unnecessary whitespace is removed) is expanded, pretty-printed, and syntax highlighted. It's easy to read the responses, which means I find myself going through a series of requests much faster with HTTPie.



farazdagi.eth
 @farazdagi



If you are developing RESTful services and haven't heard of HTTPie? Fix this ASAP: <httpie.org> You'll thank me later :)

```
[~] http PUT httpbin.org/put hello=world
HTTP/1.1 200 OK
Access-Control-Allow-Credentials: true
Access-Control-Allow-Origin: *
Connection: keep-alive
Content-Length: 452
Content-Type: application/json
Date: Thu, 06 Dec 2018 15:43:38 GMT
Server: gunicorn/19.9.0
Via: 1.1 vegur
```

HTPie – command line HTTP client

HTPie is a command line HTTP client that will make you smile. JSON support, syntax highlighting, wget-like downloads, extensions, and more.

httpie.org

2:53 PM - Dec 22, 2016



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is a joy to use and I've seen many people react like Victor. You have some syntax to memorize, but far fewer flags:

HTTP methods and other headers are passed without any flags:

```
http POST http://example.com
```

HTPie uses equals signs, with special syntax for non-strings (`:=`)

and data in query strings (`==`), for example:

```
http POST http://example.com field=value numeric:=42
```

For basic authentication: `-a "username:password"`

In most part, the syntax fades into the background, and you're left with a pure API experience.

Hurl.it: Form-based Request Inspector

While the tools for working with API requests live on the command line, HTPie and cURL are rugged, for fast and experienced users. If you're after both a translator and a guide for your requests, though, consider the web-based [Hurl.it](https://hurl.it).



Hurl.it — Make HTTP Requests

Destination GET

Follow redirects: [Off](#)

Authentication [+ Add Authentication](#)

Headers [+ Add Header\(s\)](#)

Parameters [+ Add Parameter\(s\)](#)

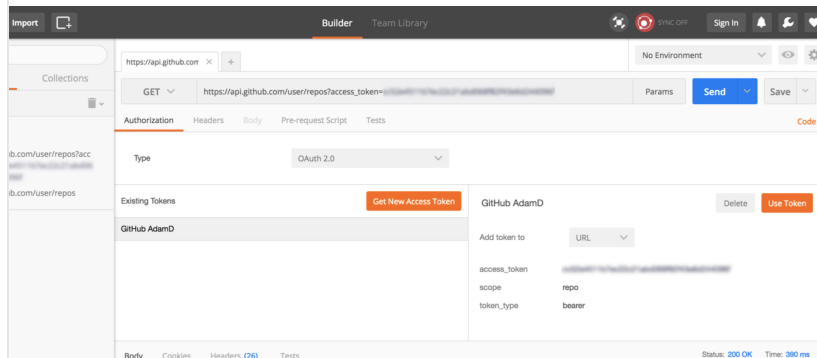
ou start off simply: Choose your HTTP method and paste your you need to add authentication, other headers, or parameter click the appropriate buttons. You won't have to remember flags or syntax (other than JSON if you're adding a body to a request).

lets you review the request and explore the response as pretty, highlighted, link-clickable JSON. Scroll to the top and make your original form fields remain.

When working with webhooks, you'll want a similar tool to accept ication data. You can use Hurl.it's sibling project [RequestBin](#), or pipe data into your local application using a tunnel like [ngrok](#).

Postman: Chrome Plugin for Larger Projects

it is a guide, then [Postman](#) is a Sherpa. The Chrome plugin is available as native apps for Windows and Mac, giving you a complete API diagnostic tool. Though used by developers consuming Postman's most powerful features are aimed at API providers.

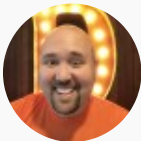




Basic usage, the experience is similar to Hurl.it. Choose your HTTP method, paste your URL, and add your other headers or body data. There aren't command line flags to learn, but that doesn't mean it isn't powerful. For OAuth-based requests, for example, it walks you through the process of retrieving and using a token. Then your token is available for all subsequent requests.

Like Postman, it logs your previous request history. Further, you can store them as collections, share with others, and import API definitions (such as Swagger and RAML). And there's more to be explored. The Sherpa will present them to you when you're ready.

When you're ready to begin your API exploration. You have a team of potential translators, ready to bring your API request to a server and turn it safely with a response in hand. Who you pick depends on the level of detail you'll need and how often you expect to need it.



About the Author

Adam DuVander is a developer marketer working from Portland, Oregon. He loves APIs and the people who make and use them.

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