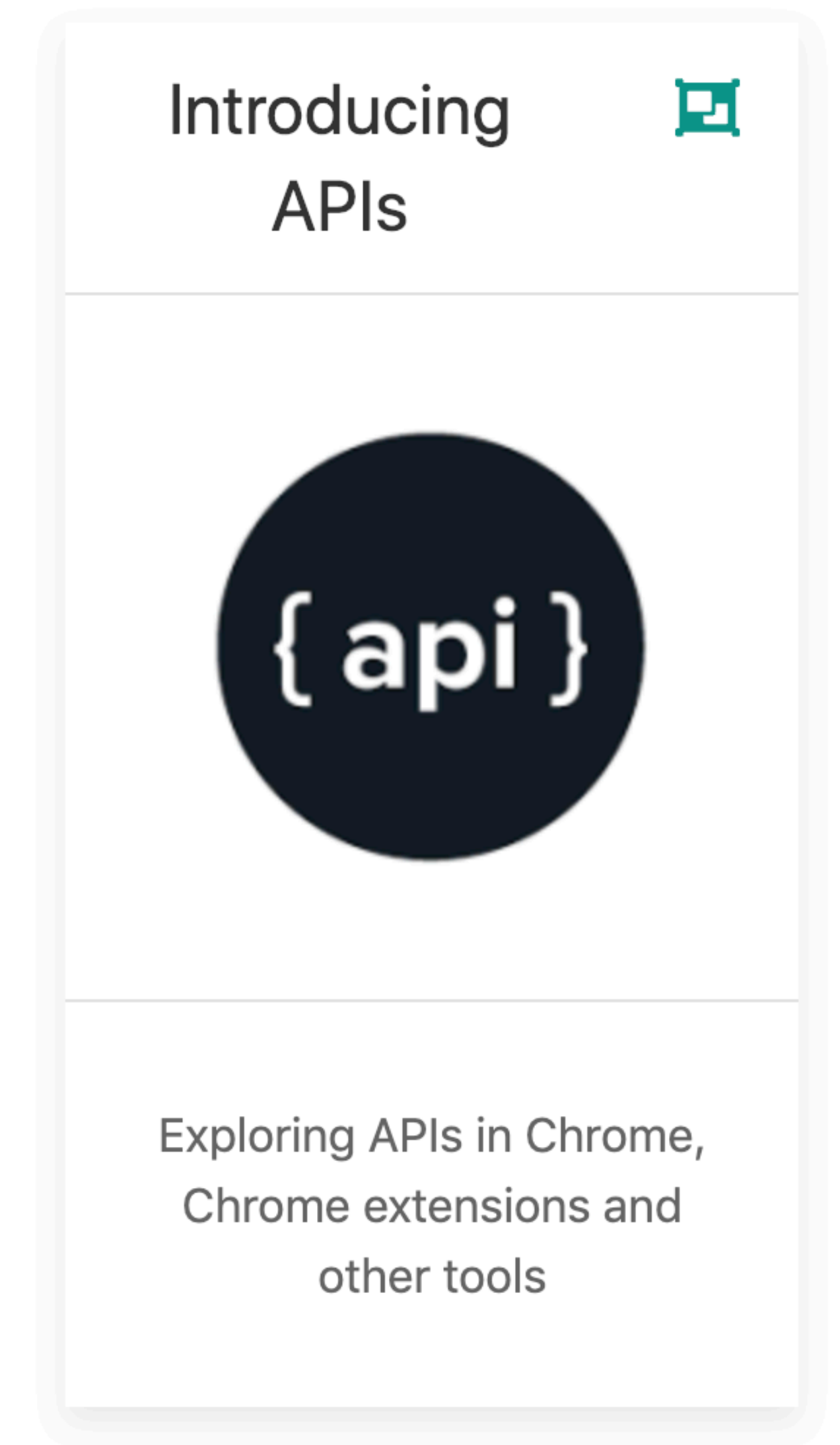


Introducing APIs

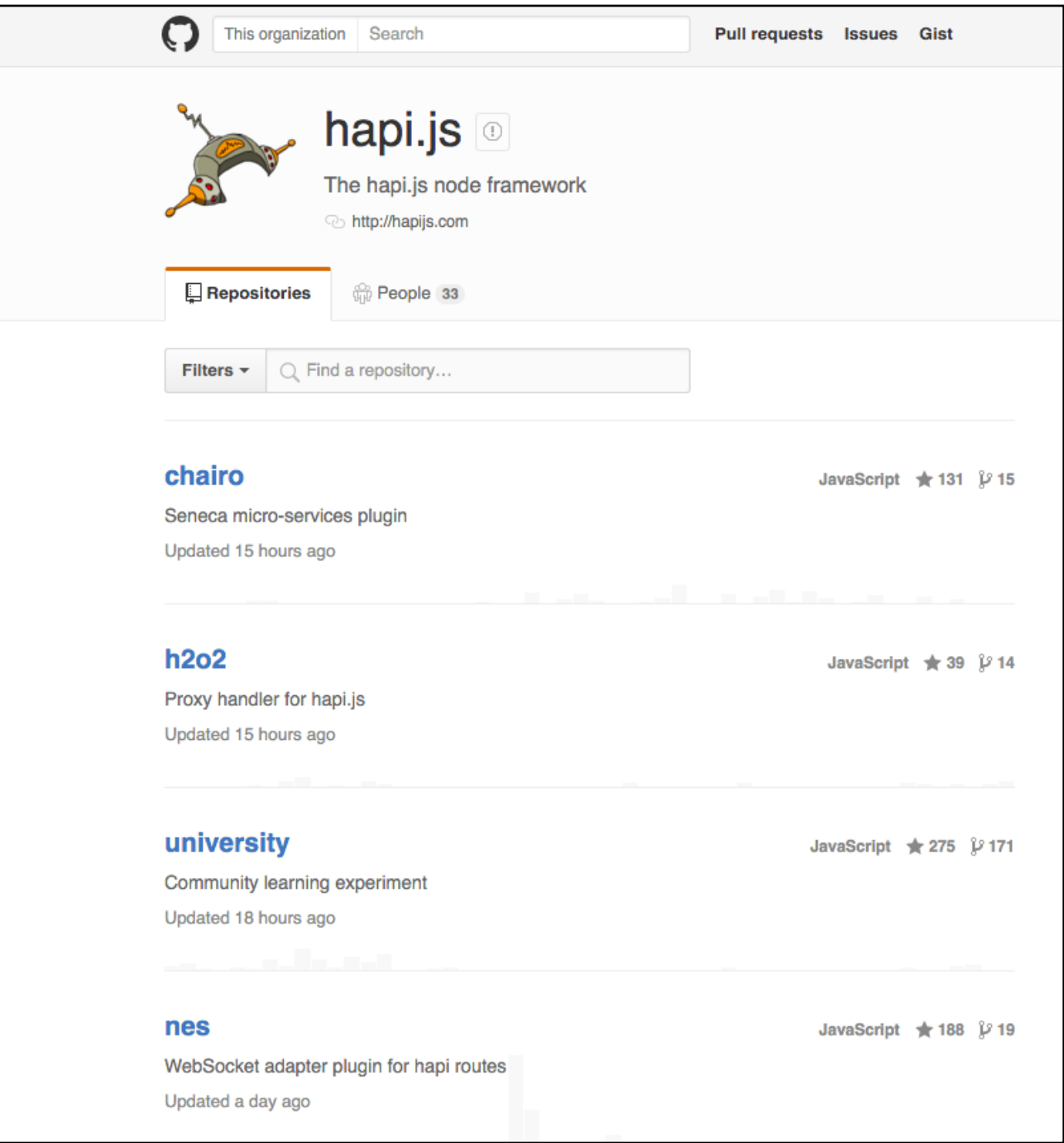
- Web vs APIs
- API data exchange Formats
- API Exploration Tools (Chrome, Curl)



Web vs API

- Web - HTML Response
- API - JSON Response
- Both use HTTP:
 - GET, PUT, POST, DELETE etc...
- Web
 - request formulated by browser
 - response rendered by browser
- API
 - request formulated by script,
 - response interpreted by script


Web






API


```
[
  {
    "id": 24743682,
    "name": "accept",
    "full_name": "hapijs/accept",
    "owner": {
      "login": "hapijs",
      "id": 3774533,
      "avatar_url": "https://avatars.githubusercontent.com/u/3774533?v=3",
      "gravatar_id": "",
      "url": "https://api.github.com/users/hapijs",
      "html_url": "https://github.com/hapijs",
      "followers_url": "https://api.github.com/users/hapijs/followers",
      "following_url": "https://api.github.com/users/hapijs/following{/other_user}",
      "gists_url": "https://api.github.com/users/hapijs/gists{/gist_id}",
      "starred_url": "https://api.github.com/users/hapijs/starred{/owner}/{repo}",
      "subscriptions_url": "https://api.github.com/users/hapijs/subscriptions",
      "organizations_url": "https://api.github.com/users/hapijs/orgs",
      "repos_url": "https://api.github.com/users/hapijs/repos",
      "events_url": "https://api.github.com/users/hapijs/events{/privacy}",
      "received_events_url": "https://api.github.com/users/hapijs/received_events",
      "type": "Organization",
      "site_admin": false
    },
    "private": false,
    "html_url": "https://github.com/hapijs/accept",
    "description": "HTTP Accept-* headers parsing",
    "fork": false,
    "url": "https://api.github.com/repos/hapijs/accept",
    "forks_url": "https://api.github.com/repos/hapijs/accept/forks",
    "keys_url": "https://api.github.com/repos/hapijs/accept/keys{/key_id}",
    "collaborators_url": "https://api.github.com/repos/hapijs/accept/collaborators{/collaborator}",
    "teams_url": "https://api.github.com/repos/hapijs/accept/teams",
    "hooks_url": "https://api.github.com/repos/hapijs/accept/hooks",
    "issue_events_url": "https://api.github.com/repos/hapijs/accept/issues/events{/number}",
    "events_url": "https://api.github.com/repos/hapijs/accept/events",
    "assignees_url": "https://api.github.com/repos/hapijs/accept/assignees{/user}",
    "branches_url": "https://api.github.com/repos/hapijs/accept/branches{/branch}",
    "tags_url": "https://api.github.com/repos/hapijs/accept/tags",
    "blobs_url": "https://api.github.com/repos/hapijs/accept/git/blobs{/sha}",
    "git_tags_url": "https://api.github.com/repos/hapijs/accept/git/tags{/sha}",
    "git_refs_url": "https://api.github.com/repos/hapijs/accept/git/refs{/sha}",
    "trees_url": "https://api.github.com/repos/hapijs/accept/git/trees{/sha}",
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    "stargazers_url": "https://api.github.com/repos/hapijs/accept/stargazers",
    "contributors_url": "https://api.github.com/repos/hapijs/accept/contributors",
    "subscribers_url": "https://api.github.com/repos/hapijs/accept/subscribers",
    "subscription_url": "https://api.github.com/repos/hapijs/accept/subscription",
    "commits_url": "https://api.github.com/repos/hapijs/accept/commits{/sha}",
    "git_commits_url": "https://api.github.com/repos/hapijs/accept/git/commits{/sha}",
    "comments_url": "https://api.github.com/repos/hapijs/accept/comments{/number}",
    "issue_comment_url": "https://api.github.com/repos/hapijs/accept/issues/comments{/number}",
    "contents_url": "https://api.github.com/repos/hapijs/accept/contents/{+path}",
    "compare_url": "https://api.github.com/repos/hapijs/accept/compare/{base}...{head}",
    "merges_url": "https://api.github.com/repos/hapijs/accept/merges",
    "archive_url": "https://api.github.com/repos/hapijs/accept/{archive_format}/{ref}",
    "downloads_url": "https://api.github.com/repos/hapijs/accept/downloads",
    "issues_url": "https://api.github.com/repos/hapijs/accept/issues{/number}",
    "pulls_url": "https://api.github.com/repos/hapijs/accept/pulls{/number}",
    "milestones_url": "https://api.github.com/repos/hapijs/accept/milestones{/number}",
    "notifications_url": "https://api.github.com/repos/hapijs/accept/notifications?since,all,participating",
    "labels_url": "https://api.github.com/repos/hapijs/accept/labels{/name}"
  }
]
```

Web



[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)





hapi.js


The hapi.js node framework

<http://hapijs.com>

[Report abuse](#)

 **Repositories** 68

 **People** 16

 **Projects** 0

Pinned repositories

discuss

The "mailing list"

★ 95 🍴 7

hapi

Server Framework for Node.js

JavaScript ★ 10.5k 🍴 1.1k

joi

Object schema validation

JavaScript ★ 10.1k 🍴 837

boom

HTTP-friendly error objects

JavaScript ★ 2.3k 🍴 142

lab

Node.js test framework

JavaScript ★ 665 🍴 167

hapijs.com

The hapijs.com website

JavaScript ★ 163 🍴 278


Type: All ▾

Language: All ▾

catbox


Multi-strategy object caching service

JavaScript ★ 455 🍴 65 Updated 16 hours ago



university

Community learning experiment



Top languages

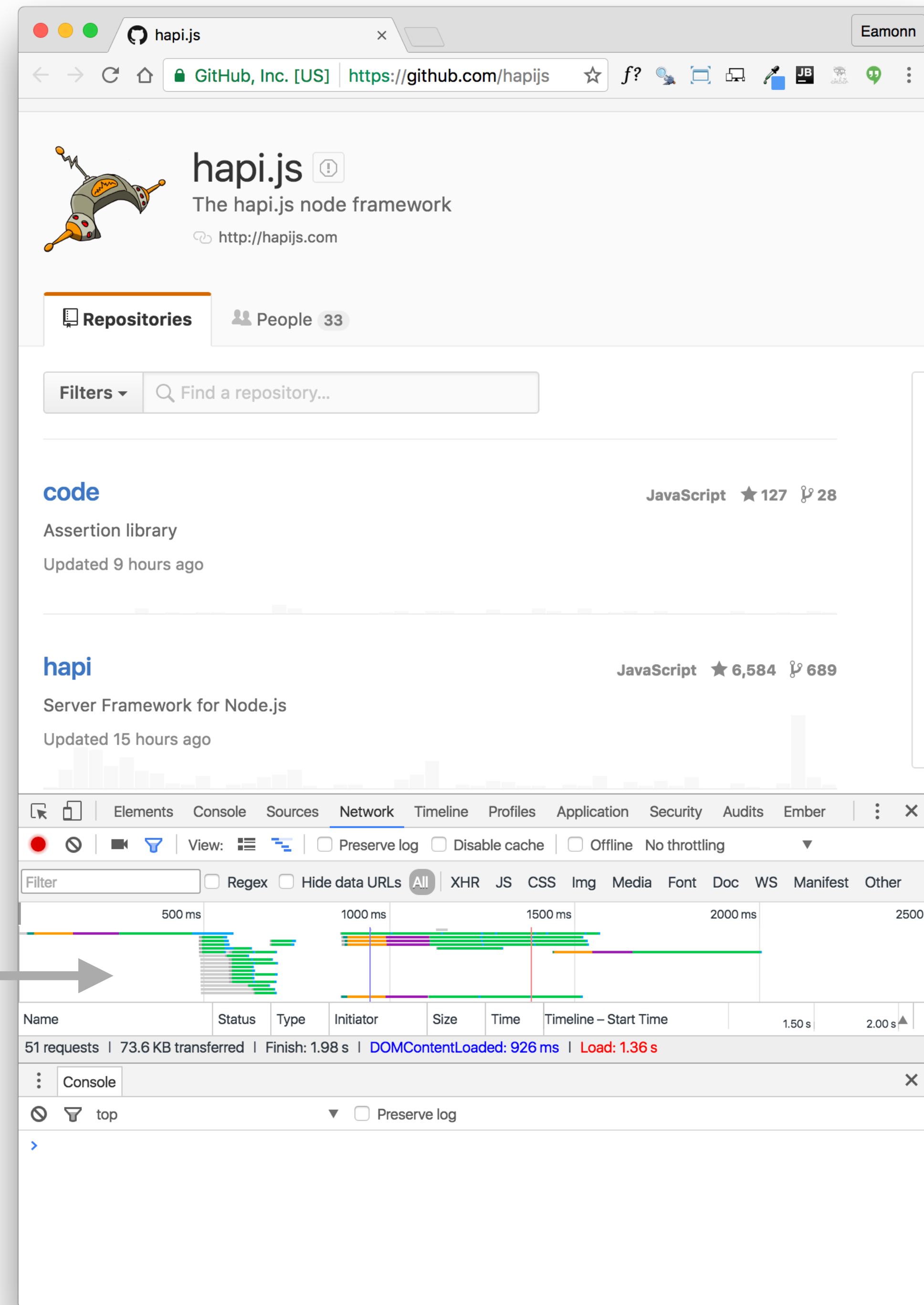
JavaScript CSS

Most used topics

[hapi](#) [javascript](#) [nodejs](#)

<https://github.com/hapijs>

- Single page but note multiple http requests for various assets, images etc...
- What might be going on here?



API Data Interchanges Formats

- Comma Separated Values (CSV)
- Name/Value Pairs
- YAML
- XML
- JSON

CSV

http://en.wikipedia.org/wiki/Comma-separated_values

A **comma-separated values (CSV)** (also sometimes called *character-separated values*, because the separator character does not have to be a comma) file stores tabular data (numbers and text) in plain-text form. Plain text means that the file is a sequence of characters, with no data that has to be interpreted instead, as binary numbers. A CSV file consists of any number of records, separated by line breaks of some kind; each record consists of fields, separated by some other character or string, most commonly a literal comma or tab. Usually, all records have an identical sequence of fields.

```
"mocha", "costa", 2.0, 3.5, 0
"americano", "costa", 3.0, 4.5, 1
"cappuccino", "starbucks", 4.0, 1.5, 0
```

coffees.csv

Name/Value Pairs

http://en.wikipedia.org/wiki/Attribute-value_pair

A **name–value pair**, **key–value pair**, **field–value pair** or **attribute–value pair** is a fundamental [data representation](#) in computing systems and applications. Designers often desire an open-ended [data structure](#) that allows for future extension without modifying existing code or data. In such situations, all or part of the [data model](#) may be expressed as a collection of [tuples](#) *<attribute name, value>*; each element is an attribute–value pair. Depending on the particular application and the implementation chosen by programmers, attribute names may or may not be unique.

```
db.url=jdbc:cloudbees://pacemaker  
db.driver=com.mysql.jdbc.Driver  
db.user=pacemaker  
db.pass=pacemaker  
jpa.ddl=create
```

application.conf

```
name="mocha"  
shop="costa"  
rating=3.5  
price=2.0  
favourite=0  
id=1
```

coffees.conf

YAML

<http://en.wikipedia.org/wiki/YAML>

YAML ([/ˈjæməɪ/](#), rhymes with *camel*) is a [human-readable data serialization](#) format that takes concepts from programming languages such as [C](#), [Perl](#), and [Python](#), and ideas from [XML](#) and the data format of electronic mail ([RFC 2822](#)). YAML was first proposed by Clark Evans in 2001,[\[1\]](#) who designed it together with Ingy döt Net[\[2\]](#) and Oren Ben-Kiki.[\[2\]](#) It is available for several programming languages.

YAML is a [recursive acronym](#) for "YAML Ain't [Markup Language](#)". Early in its development, YAML was said to mean "[Yet Another](#) Markup Language",[\[3\]](#) but it was then reinterpreted ([backronyming](#) the original acronym) to distinguish its purpose as data-oriented, rather than document markup.

```
Coffee(c1):
  name      : mocha
  shop      : costa
  price     : 2.0
  rating    : 3.5
  favourite : 0

Coffee(c2):
  name      : americano
  shop      : costa
  price     : 3.0
  rating    : 4.5
  favourite : 1

Coffee(c3):
  name      : cappuccino
  shop      : starbucks
  price     : 4.0
  rating    : 1.5
  favourite : 0
```

data.yaml

XML

<http://en.wikipedia.org/wiki/XML>

Extensible Markup Language (XML) is a [markup language](#) that defines a set of rules for encoding documents in a [format](#) that is both [human-readable](#) and [machine-readable](#). It is defined in the XML 1.0 Specification[3] produced by the [W3C](#), and several other related specifications,[4] all free [open standards](#). [5]

The design goals of XML emphasize simplicity, generality, and usability over the [Internet](#). [6] It is a textual data format with strong support via [Unicode](#) for the languages of the world. Although the design of XML focuses on documents, it is widely used for the representation of arbitrary [data structures](#), for example in [web services](#).

Many [application programming interfaces](#) (APIs) have been developed to aid software developers with processing XML data, and several [schema systems](#) exist to aid in the definition of XML-based languages.

```
<?xml version="1.0"
encoding="UTF-8"?>

<coffee objname="c1">
  <name> mocha </name>
  <shop> costa </shop>
  <price> 2.0 </price>
  <rating> 3.5</rating>
  <favourite> 0 </favourite>
</coffee>

<coffee objname="c1">
  <name> americano </name>
  <shop> costa </shop>
  <price> 3.0 </price>
  <rating> 4.5 </rating>
  <favourite> 1 </favourite>
</coffee>

<coffee objname="c1">
  <name> cappuccino </name>
  <shop> starbucks </shop>
  <price> 4.0 </price>
  <rating> 1.5 </rating>
  <favourite> 0 </favourite>
</coffee>
```

JSON

<http://en.wikipedia.org/wiki/JSON>

JSON ([*/ˈdʒeɪsən/*](#) ***jay**-sawn*, [*/ˈdʒeɪsən/*](#) ***jay**-sun*), or **JavaScript Object Notation**, is a text-based [open standard](#) designed for [human-readable](#) data interchange. Derived from the [JavaScript](#) scripting language, JSON is a language for representing simple [data structures](#) and [associative arrays](#), called objects. Despite its relationship to JavaScript, JSON is [language-independent](#), with parsers available for many languages.

The JSON format was originally specified by [Douglas Crockford](#), and is described in [RFC 4627](#). The official [Internet media type](#) for JSON is `application/json`. The JSON filename extension is `.json`.

The JSON format is often used for [serializing](#) and transmitting structured data over a network connection. It is used primarily to transmit data between a server and web application, serving as an alternative to [XML](#).

```
{
  "name": "mocha",
  "shop": "costa",
  "rating": 3.5,
  "price": 2.0,
  "favourite": 0,
  "id": 1
},
{
  "name": "americano",
  "shop": "costa",
  "rating": 4.5,
  "price": 3.0,
  "favourite": 1,
  "id": 2
},
{
  "name": "cappuccino lite",
  "shop": "starbucks",
  "rating": 1.5,
  "price": 4.0,
  "favourite": 1,
  "id": 3
}
```


Exploring APIs

```
[
  {
    "id": 24743682,
    "name": "accept",
    "full_name": "hapijs/accept",
    "owner": {
      "login": "hapijs",
      "id": 3774533,
      "avatar_url": "https://avatars.githubusercontent.com/u/3774533?v=3",
      "gravatar_id": "",
      "url": "https://api.github.com/users/hapijs",
      "html_url": "https://github.com/hapijs",
      "followers_url": "https://api.github.com/users/hapijs/followers",
      "following_url": "https://api.github.com/users/hapijs/following{/other_user}",
      "gists_url": "https://api.github.com/users/hapijs/gists{/gist_id}",
      "starred_url": "https://api.github.com/users/hapijs/starred{/owner}/{repo}",
      "subscriptions_url": "https://api.github.com/users/hapijs/subscriptions",
      "organizations_url": "https://api.github.com/users/hapijs/orgs",
      "repos_url": "https://api.github.com/users/hapijs/repos",
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      "received_events_url": "https://api.github.com/users/hapijs/received_events",
      "type": "Organization",
      "site_admin": false
    },
    "private": false,
    "html_url": "https://github.com/hapijs/accept",
    "description": "HTTP Accept-* headers parsing",
    "fork": false,
    "url": "https://api.github.com/repos/hapijs/accept",
    "forks_url": "https://api.github.com/repos/hapijs/accept/forks",
    "keys_url": "https://api.github.com/repos/hapijs/accept/keys{/key_id}",
    "collaborators_url": "https://api.github.com/repos/hapijs/accept/collaborators{/collaborator}",
    "teams_url": "https://api.github.com/repos/hapijs/accept/teams",
    "hooks_url": "https://api.github.com/repos/hapijs/accept/hooks",
    "issue_events_url": "https://api.github.com/repos/hapijs/accept/issues/events{/number}",
    "events_url": "https://api.github.com/repos/hapijs/accept/events",
    "assignees_url": "https://api.github.com/repos/hapijs/accept/assignees{/user}",
    "branches_url": "https://api.github.com/repos/hapijs/accept/branches{/branch}",
    "tags_url": "https://api.github.com/repos/hapijs/accept/tags",
    "blobs_url": "https://api.github.com/repos/hapijs/accept/git/blobs{/sha}",
    "git_tags_url": "https://api.github.com/repos/hapijs/accept/git/tags{/sha}",
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    "trees_url": "https://api.github.com/repos/hapijs/accept/git/trees{/sha}",
    "statuses_url": "https://api.github.com/repos/hapijs/accept/statuses/{sha}",
    "languages_url": "https://api.github.com/repos/hapijs/accept/languages",
    "stargazers_url": "https://api.github.com/repos/hapijs/accept/stargazers",
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    "commits_url": "https://api.github.com/repos/hapijs/accept/commits{/sha}",
    "git_commits_url": "https://api.github.com/repos/hapijs/accept/git/commits{/sha}",
    "comments_url": "https://api.github.com/repos/hapijs/accept/comments{/number}",
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    "contents_url": "https://api.github.com/repos/hapijs/accept/contents/{+path}",
    "compare_url": "https://api.github.com/repos/hapijs/accept/compare/{base}...{head}",
    "merges_url": "https://api.github.com/repos/hapijs/accept/merges",
    "archive_url": "https://api.github.com/repos/hapijs/accept/{archive_format}/{ref}",
    "downloads_url": "https://api.github.com/repos/hapijs/accept/downloads",
    "issues_url": "https://api.github.com/repos/hapijs/accept/issues{/number}",
    "pulls_url": "https://api.github.com/repos/hapijs/accept/pulls{/number}",
    "milestones_url": "https://api.github.com/repos/hapijs/accept/milestones{/number}",
    "notifications_url": "https://api.github.com/repos/hapijs/accept/notifications{?since,all,participating}",
    "labels_url": "https://api.github.com/repos/hapijs/accept/labels{/name}"
  }
]
```

<https://api.github.com/users/hapijs/repos>

Curl: <https://curl.haxx.se/>



command line tool and library
for transferring data with URLs

Supports...

DICT, FILE, FTP, FTPS, Gopher, HTTP, HTTPS, IMAP, IMAPS, LDAP, LDAPS, POP3, POP3S, RTMP, RTSP, SCP, SFTP, SMB, SMTP, SMTPS, Telnet and TFTP. curl supports SSL certificates, HTTP POST, HTTP PUT, FTP uploading, HTTP form based upload, proxies, HTTP/2, cookies, user+password authentication (Basic, Plain, Digest, CRAM-MD5, NTLM, Negotiate and Kerberos), file transfer resume, proxy tunneling and more.

What's curl used for?

curl is used in command lines or scripts to transfer data. It is also used in cars, television sets, routers, printers, audio equipment, mobile phones, tablets, settop boxes, media players and is the internet transfer backbone for thousands of software applications affecting *billions of humans* daily.

Who makes curl?

curl is free and [open source](#) software and exists thanks to [thousands of contributors](#). The curl project [follows well established open source best practises](#).

What's the latest curl?

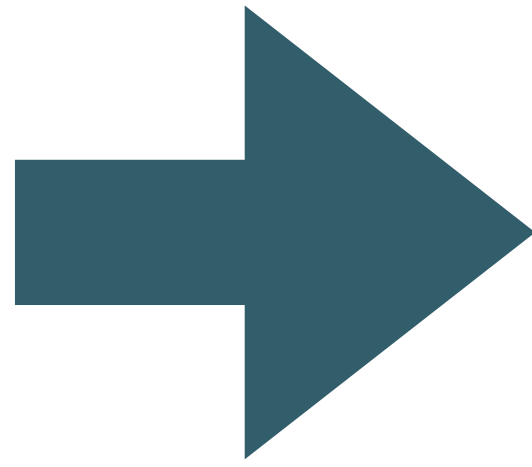
The most recent stable version is **7.50.2**, released on 7th of September 2016. Currently, 87 of the listed [downloads](#) are of the latest version.

Where's the code?

Check out the latest [source code from github](#).


\$ curl <https://api.github.com/users/hapijs/repos>

\$ curl <https://api.github.com/users/hapijs/repos>



```
1. bash
{"fork": false,
"url": "https://api.github.com/repos/hapijs/cryptiles",
"forks_url": "https://api.github.com/repos/hapijs/cryptiles/forks",
"keys_url": "https://api.github.com/repos/hapijs/cryptiles/keys{/key_id}",
"collaborators_url": "https://api.github.com/repos/hapijs/cryptiles/collaborators{/collaborator}",
"teams_url": "https://api.github.com/repos/hapijs/cryptiles/teams",
"hooks_url": "https://api.github.com/repos/hapijs/cryptiles/hooks",
"issue_events_url": "https://api.github.com/repos/hapijs/cryptiles/issues/events{/number}",
"events_url": "https://api.github.com/repos/hapijs/cryptiles/events",
"assignees_url": "https://api.github.com/repos/hapijs/cryptiles/assignees{/user}",
"branches_url": "https://api.github.com/repos/hapijs/cryptiles/branches{/branch}",
"tags_url": "https://api.github.com/repos/hapijs/cryptiles/tags",
"blobs_url": "https://api.github.com/repos/hapijs/cryptiles/git/blobs{/sha}",
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"contributors_url": "https://api.github.com/repos/hapijs/cryptiles/contributors",
"subscribers_url": "https://api.github.com/repos/hapijs/cryptiles/subscribers",
"subscription_url": "https://api.github.com/repos/hapijs/cryptiles/subscription",
"commits_url": "https://api.github.com/repos/hapijs/cryptiles/commits{/sha}",
"git_commits_url": "https://api.github.com/repos/hapijs/cryptiles/git/commits{/sha}",
"comments_url": "https://api.github.com/repos/hapijs/cryptiles/comments{/number}",
"issue_comment_url": "https://api.github.com/repos/hapijs/cryptiles/issues/comments{/number}",
"contents_url": "https://api.github.com/repos/hapijs/cryptiles/contents/{+path}",
"compare_url": "https://api.github.com/repos/hapijs/cryptiles/compare/{base}...{head}",
"merges_url": "https://api.github.com/repos/hapijs/cryptiles/merges",
"archive_url": "https://api.github.com/repos/hapijs/cryptiles/{archive_format}/{ref}",
"downloads_url": "https://api.github.com/repos/hapijs/cryptiles/downloads",
"issues_url": "https://api.github.com/repos/hapijs/cryptiles/issues{/number}",
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"deployments_url": "https://api.github.com/repos/hapijs/cryptiles/deployments",
"created_at": "2013-01-13T07:36:52Z",
"updated_at": "2019-01-11T11:30:29Z",
"pushed_at": "2018-12-15T00:55:54Z",
"git_url": "git://github.com/hapijs/cryptiles.git",
"ssh_url": "git@github.com:hapijs/cryptiles.git",
"clone_url": "https://github.com/hapijs/cryptiles.git",
"svn_url": "https://github.com/hapijs/cryptiles",
"homepage": null,
"size": 40,
"stargazers_count": 164,
"watchers_count": 164,
"language": "JavaScript",
"has_issues": true,
"has_projects": true,
"has_downloads": true,
"has_wiki": true,
"has_pages": false,
"forks_count": 17,
"mirror_url": null,
```


Rendering JSON in Chrome



JSONView

offered by [gildas](#)


★★★★★ (1861) | [Developer Tools](#) | 968,093 users

ADDED TO CHROME

OVERVIEW | REVIEWS | SUPPORT | RELATED

```
- indices: [
  119,
  139
],
expanded_url: "https://dev.twitter.com/form/seattle-dev-te",
display_url: "dev.twitter.com/form/seattle-d...",
url: "http://t.co/afOxBauf"
}
],
- user_mentions: [
  - {
    name: "Twitter API",
    screen_name: "twitterapi",
    id_str: "6253282",
    - indices: [
      80,
      91
    ],
    id: 6253282
  }
]
}
[0].retweeted_status.entities.urls[0].url
```

[View source](#)

 Compatible with your device

Validate and view JSON documents

JSONView port for Chrome.

Original firefox extension is here:
<http://benhollis.net/software/jsonview/>

Notes:

- JSON is validated using a client-side javascript implementation of JSONLint (<http://github.com/zaach/jsonlint>)
- this extension displays JSON text compliant with rfc 4627 (<http://www.ietf.org/rfc/rfc4627.txt>).
- JSONP (<http://en.wikipedia.org/wiki/JSON#JSONP>) is


[Website](#)

[Report Abuse](#)


Additional Information

Version: 0.0.32.2
Updated: October 31, 2013
Size: 94.03KiB
Language: English


USERS OF THIS EXTENSION HAVE ALSO USED




Page Ruler
★★★★★ (1039)



Stylist
★★★★★ (638)



Window Resizer
★★★★★ (1874)



User-Agent Switcher for Google Chrome
★★★★★ (773)

API Endpoints in a Browser

- Foldable sections
- Links for further api 'Endpoint' exploration

```
[
+ {...},
+ {...},
+ {...},
+ {...},
- {
  id: 20395079,
  name: "bell",
  full_name: "hapijs/bell",
+ owner: {...},
  private: false,
  html_url: "https://github.com/hapijs/bell",
  description: "Third-party login plugin for hapi",
  fork: false,
  url: "https://api.github.com/repos/hapijs/bell",
  forks_url: "https://api.github.com/repos/hapijs/bell/forks",
  keys_url: "https://api.github.com/repos/hapijs/bell/keys{/key_id}",
  collaborators_url: "https://api.github.com/repos/hapijs/bell/collaborators{/collaborator}",
  teams_url: "https://api.github.com/repos/hapijs/bell/teams",
  hooks_url: "https://api.github.com/repos/hapijs/bell/hooks",
  issue_events_url: "https://api.github.com/repos/hapijs/bell/issues/events{/number}",
  events_url: "https://api.github.com/repos/hapijs/bell/events",
  assignees_url: "https://api.github.com/repos/hapijs/bell/assignees{/user}",
  branches_url: "https://api.github.com/repos/hapijs/bell/branches{/branch}",
  tags_url: "https://api.github.com/repos/hapijs/bell/tags",
  blobs_url: "https://api.github.com/repos/hapijs/bell/git/blobs{/sha}",
  git_tags_url: "https://api.github.com/repos/hapijs/bell/git/tags{/sha}",
  git_refs_url: "https://api.github.com/repos/hapijs/bell/git/refs{/sha}",
  trees_url: "https://api.github.com/repos/hapijs/bell/git/trees{/sha}",
  statuses_url: "https://api.github.com/repos/hapijs/bell/statuses/{sha}",
  languages_url: "https://api.github.com/repos/hapijs/bell/languages",
  stargazers_url: "https://api.github.com/repos/hapijs/bell/stargazers",
  contributors_url: "https://api.github.com/repos/hapijs/bell/contributors",
  subscribers_url: "https://api.github.com/repos/hapijs/bell/subscribers",
  subscription_url: "https://api.github.com/repos/hapijs/bell/subscription",
  commits_url: "https://api.github.com/repos/hapijs/bell/commits{/sha}",
```