



JSON Schema Conf 2024

apidays

PLATINUM SPONSOR

| Octue


State of JSON Schema



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 [benjagm](#)

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About me!

- **Community Manager and TSC JSON Schema**
- **Senior Technical Program Manager at Celonis**
- **API & Community Strategist**
- **Passionate about APIs & Community**
- **Former Committee API Addicts**
- **Love mountains**



Agenda:

- **Mission**
- **A bit of History**
- **A picture of the Project back in 2021**
- **Initiatives**
- **Community Growth**
- **What about the Spec?**
- **What is next?**

Before we start

97%

API payloads are JSON

Cloudflare 2021

Build more. Break less. Empower others.

JSON Schema enables the confident and reliable use of the JSON data format.

Getting started

Join Slack

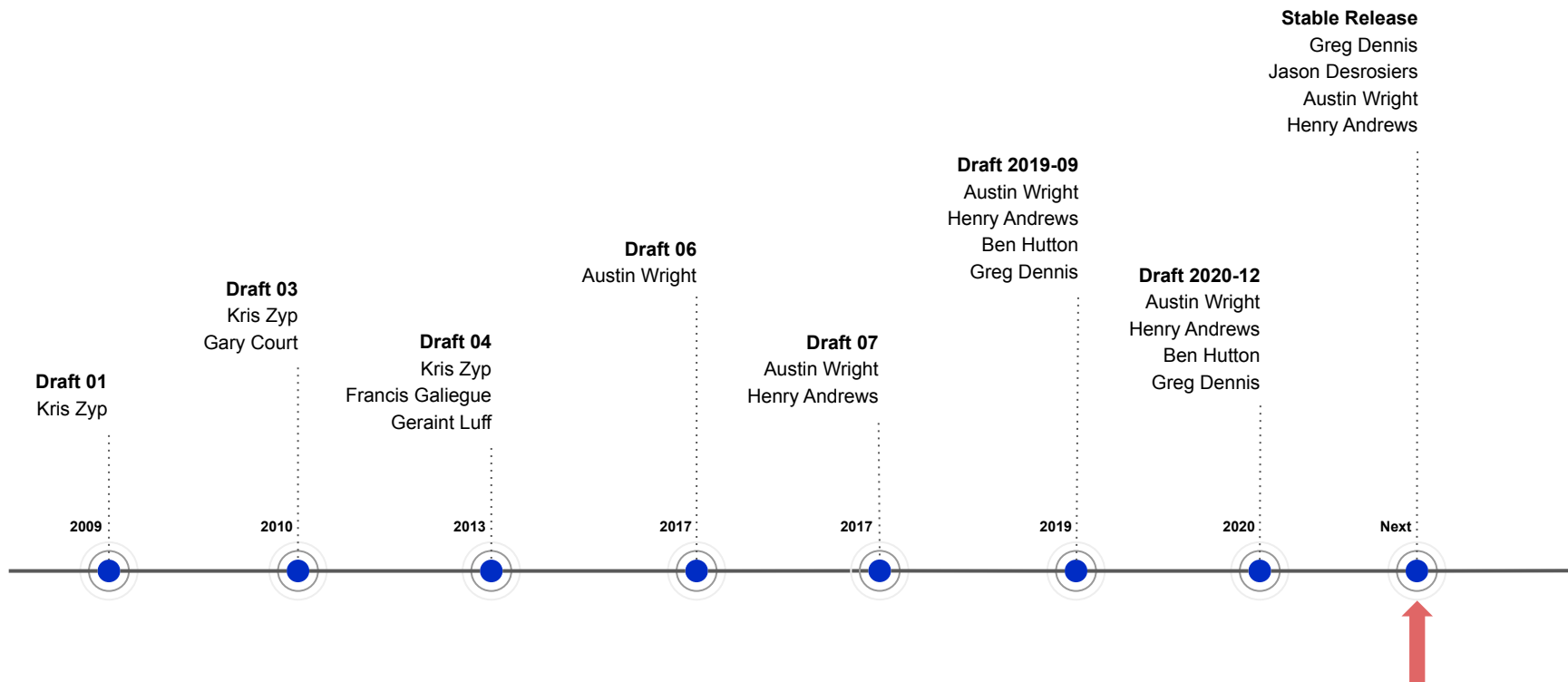
Search

Used by

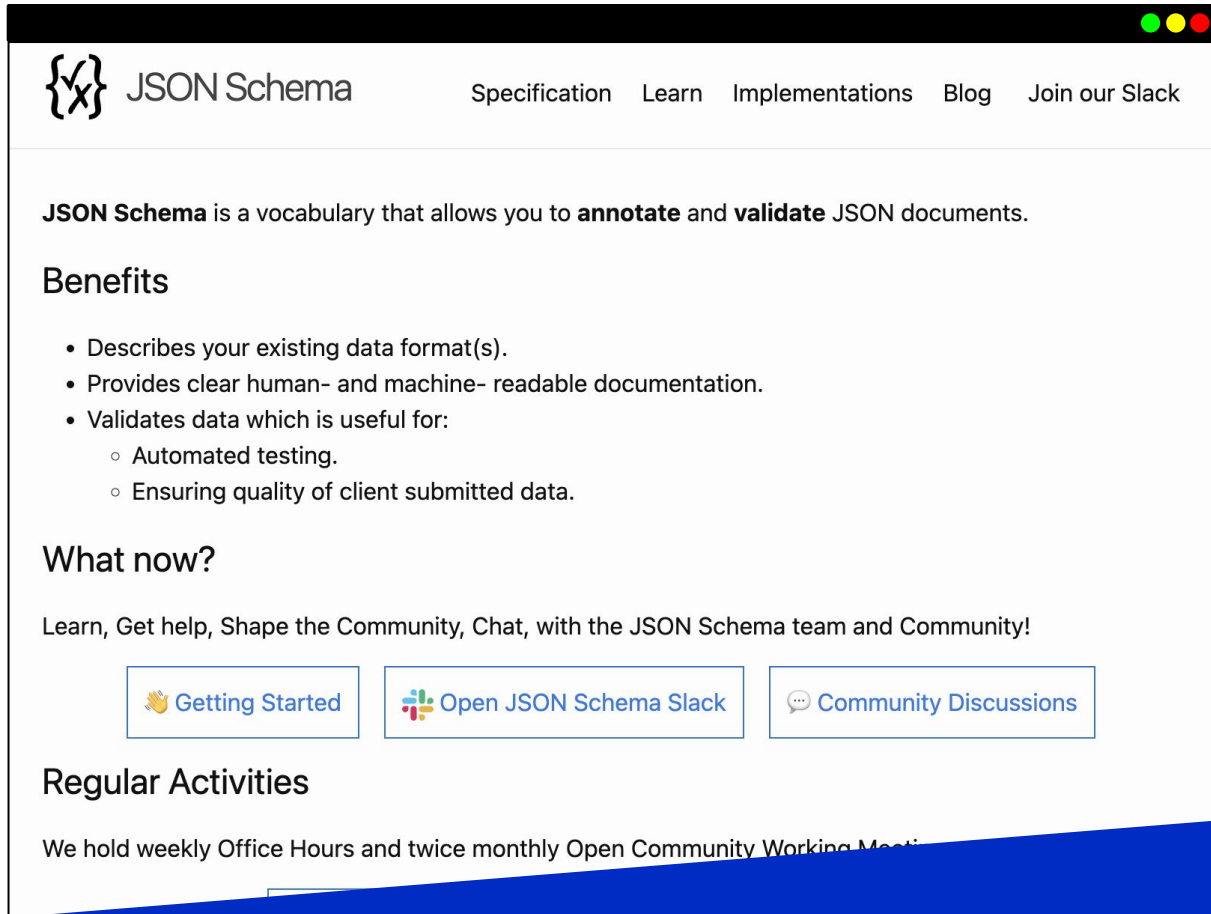


Please visit the JSON Schema [Landscape](#) and discover more companies using JSON Schema.


A bit of History



A picture of the Project back in 2021



The screenshot shows the homepage of the JSON Schema project. At the top left is the logo, a stylized '{x}' inside curly braces. To its right is the text 'JSON Schema'. Further right are navigation links: 'Specification', 'Learn', 'Implementations', 'Blog', and 'Join our Slack'. Below the navigation is a main heading: 'JSON Schema is a vocabulary that allows you to **annotate** and **validate** JSON documents.' This is followed by a section titled 'Benefits' with a bulleted list: 'Describes your existing data format(s)', 'Provides clear human- and machine- readable documentation.', and 'Validates data which is useful for:' with sub-points 'Automated testing.' and 'Ensuring quality of client submitted data.' Below this is a section 'What now?' with the text 'Learn, Get help, Shape the Community, Chat, with the JSON Schema team and Community!' and three buttons: 'Getting Started' (with a hand icon), 'Open JSON Schema Slack' (with a Slack icon), and 'Community Discussions' (with a speech bubble icon). At the bottom is a section 'Regular Activities' with the text 'We hold weekly Office Hours and twice monthly Open Community Working Meeti...'. The entire screenshot is framed with a black border and a window title bar with green, yellow, and red buttons.

 JSON Schema

[Specification](#) [Learn](#) [Implementations](#) [Blog](#) [Join our Slack](#)

JSON Schema is a vocabulary that allows you to **annotate** and **validate** JSON documents.

Benefits

- Describes your existing data format(s).
- Provides clear human- and machine- readable documentation.
- Validates data which is useful for:
 - Automated testing.
 - Ensuring quality of client submitted data.

What now?

Learn, Get help, Shape the Community, Chat, with the JSON Schema team and Community!

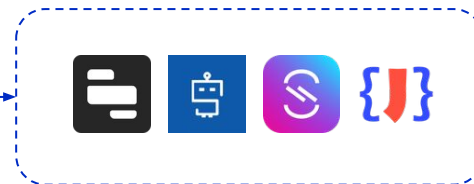
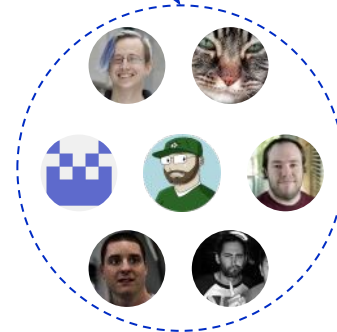
[👉 Getting Started](#) [👥 Open JSON Schema Slack](#) [💬 Community Discussions](#)

Regular Activities

We hold weekly Office Hours and twice monthly Open Community Working Meeti...

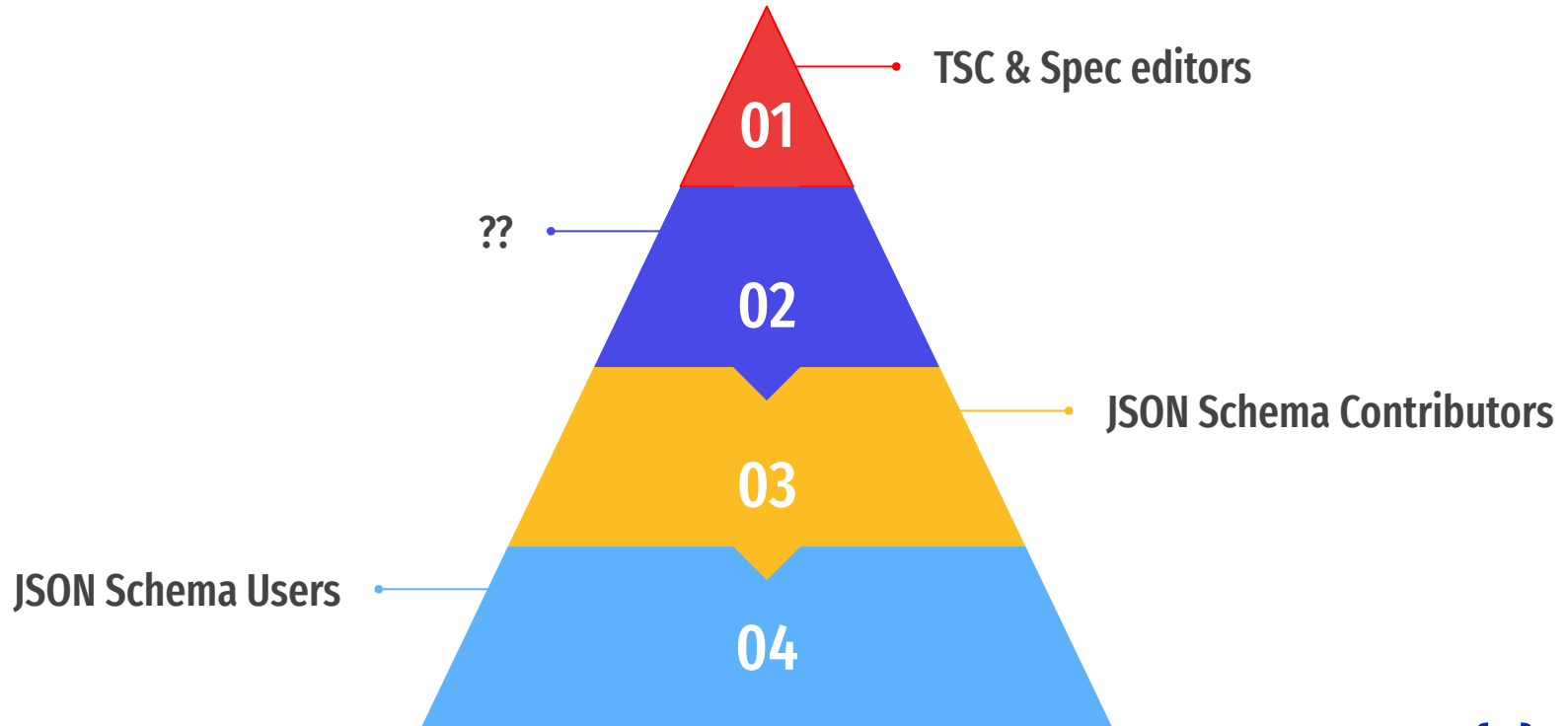
A picture of the Project back in 2021

- 7 TSC Members ■
- Maintainers same people than TSC
- 355 Contributors
- 6174 Community Members
- 7 Repositories
- 48 Implementations
- 4 Sponsors ■



A picture of the Project back in 2021

Fragmented Contribution Ladder



A picture of the Project back in 2021

CHALLENGES

- Fragmented Contribution Ladder
- Difficult to attract new Sponsors
- Difficult to attract new Contributors
- Increase influence in the industry
- Outdated website
- Improve the engagement with implementers

Initiatives



User Experience

- ✓ New Website
- ✓ Tour of JSON Schema
- ✓ New tools section



Contributor Experience

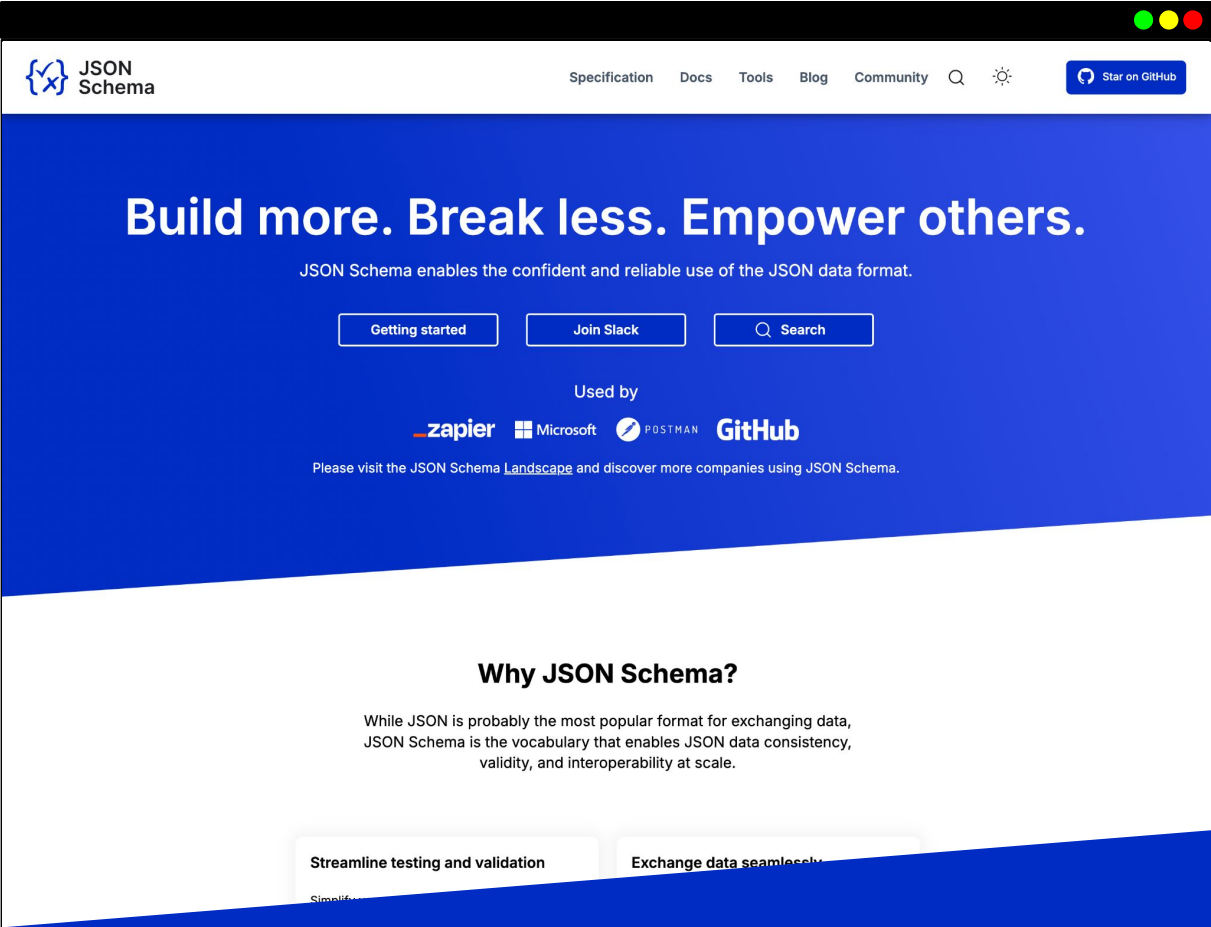
- Phase 1:**
 - ✓ Refined contribution journeys
- Phase 2:**
 - ✓ Mentoring Programs
- Phase 3:**
 - ✓ Triage Group
 - ✓ Docs Working Group
 - ✓ Conference
 - ✓ More Projects & Maintainers



Trust & Influence

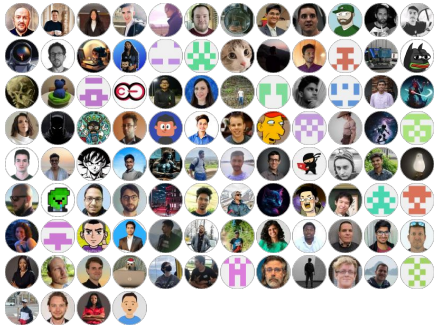
- ✓ JSON Schema in Production
- ✓ Case Studies
- ✓ Adopters Program
- ✓ Ambassadors Program

The New JSON Schema website



The screenshot shows the homepage of the JSON Schema website. At the top left is the JSON Schema logo. The navigation menu includes links for Specification, Docs, Tools, Blog, and Community, along with a search icon and a 'Star on GitHub' button. The main hero section features a blue background with the headline 'Build more. Break less. Empower others.' Below this, a sub-headline states 'JSON Schema enables the confident and reliable use of the JSON data format.' Three buttons are provided: 'Getting started', 'Join Slack', and 'Search'. A 'Used by' section lists logos for Zapier, Microsoft, Postman, and GitHub. A text prompt encourages visitors to visit the 'JSON Schema Landscape' for more information. The lower section is titled 'Why JSON Schema?' and contains introductory text about JSON Schema's role in data consistency and interoperability. At the bottom, there are partial views of feature cards for 'Streamline testing and validation' and 'Exchange data seamlessly'.

+110 People



A Tour of JSON Schema

tour.json-schema.org



Google Summer of Code

Primitive Types

Welcome to the Primitive Types module. In this module, you will learn about all the primitive types available in JSON Schema and some common constraints that can be applied to them. Let's start with the `string` type.

Constraining String Length

Let's add two new fields `postalCode` and `phoneNumber` to the JSON object. Now, **How do you ensure that those fields have the correct length?**

```
1 {
2   "name": "John Doe",
3   "age": 25,
4   "postalCode": "385004",
5   "phoneNumber": "84584898564"
6 }
```

minLength and maxLength

In JSON Schema, you can use the `minLength` and `maxLength` keywords to define the minimum and maximum length of a string.

Example

```
1 {
2   ...
3   "postalCode": {
4     "type": "string",
5     "minLength": 6,
6     "maxLength": 6
7   }
```

```
1 {
2   "type": "object",
3   "properties": {
4     "name": {
5       "type": "string"
6     },
7     "age": {
8       "type": "integer"
9     },
10    "phoneNumber": {},
11    "postalCode": {}
12  }
13 }
```

Output

Please click the button or use `Shift + Enter` to view the output

CERTIFICATE OF COMPLETION



JSON Schema hereby certifies that

Benjamin Granados

Has successfully completed the course:
A Tour of JSON Schema

The JSON Schema Team
Issuing date: 01-11-2024



Build more, Break less, Empower others.

People



New Tools section



Google Summer of Code

184 JSON Schema Tooling

Tools below are written in different languages, and support part, or all, of at least one recent version of the specification. Listing does not signify a recommendation or endorsement of any kind.

GROUP BY: None **Tooling Type** Language

Validator

Name	Languages	Dialects	License	Bowtie
@cfworker/json-schema	JavaScript	4 7 2019-09 2020-12	MIT	
@exodus/schemasafe	JavaScript	4 6 7 2019-09 2020-12	MIT	
@hyperjump/json-schema	JavaScript	4 6 7 2019-09 2020-12	MIT	

@cfworker/json-schema

A JSON schema validator that will run on Cloudflare workers. Supports drafts 4, 7, 2019-09, and 2020-12.

Source
<https://github.com/cfworker/cfworker/blob/master/packages/json-schema/README.md>

Homepage
<https://cfworker.dev>

License
MIT

Tooling Listing Notes
Built for Cloudflare workers, browsers, and Node.js

Maintainers
Jeremy Danyow (@jdanyow)

Supported Dialects
4 7 2019-09 2020-12

Bowtie Report
Supported Versions: JSON Schema Version 2020-12, 2019-09, 7, 4
Compliance: Draft 2019-09 94% Passed, Draft 2019-09 94% Passed, Draft 7 94% Passed, Draft 4 94% Passed
[View detailed report](#)

Tooling Types
Validator

Languages
JavaScript

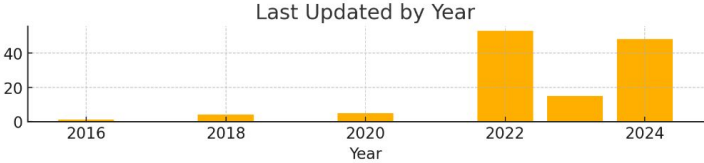
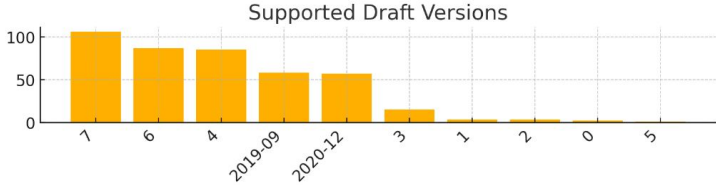
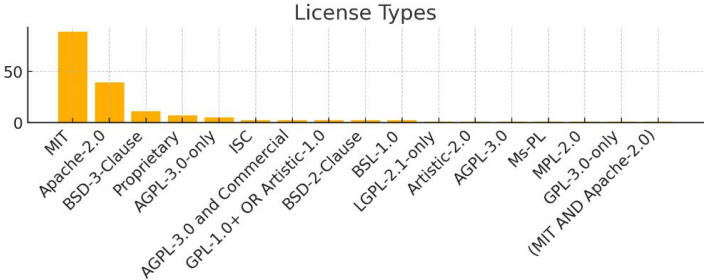
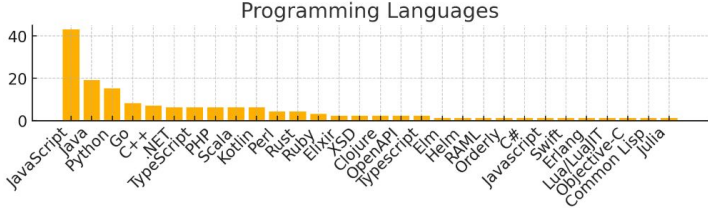
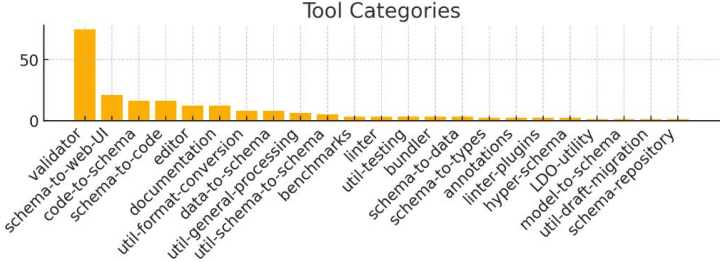
Bowtie Identifier
js-json-schema

People



New Tools section with 184 registered Tools

JSON Schema Tooling Dashboard



Mentorship Programs



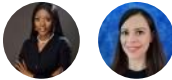
Mentors



Mentees



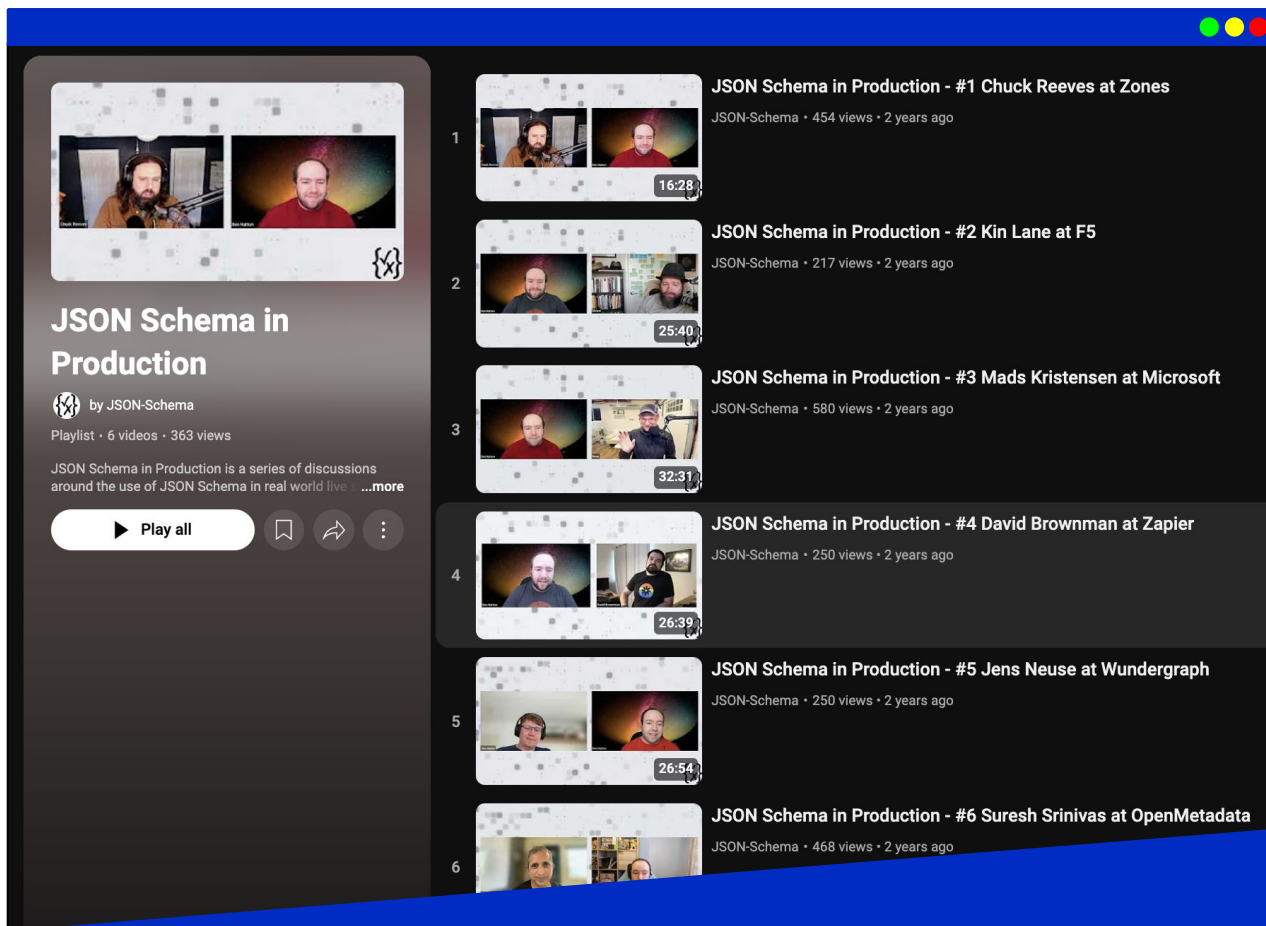
Technical Writers



Docs Engineer



JSON Schema in Production



The image shows a screenshot of a YouTube playlist page. On the left is a large video player showing a video from the playlist. Below it is the playlist title 'JSON Schema in Production' by the channel 'JSON-Schema', which has 6 videos and 363 views. A description states: 'JSON Schema in Production is a series of discussions around the use of JSON Schema in real world live - ...more'. Below the description are buttons for 'Play all', 'Bookmark', 'Share', and 'More options'. On the right is a list of six video thumbnails, each with a number, a title, view count, and upload time. The videos are:

- 1. JSON Schema in Production - #1 Chuck Reeves at Zones (454 views, 2 years ago, 16:28)
- 2. JSON Schema in Production - #2 Kin Lane at F5 (217 views, 2 years ago, 25:40)
- 3. JSON Schema in Production - #3 Mads Kristensen at Microsoft (580 views, 2 years ago, 32:31)
- 4. JSON Schema in Production - #4 David Brownman at Zapier (250 views, 2 years ago, 26:39)
- 5. JSON Schema in Production - #5 Jens Neuse at Wundergraph (250 views, 2 years ago, 26:54)
- 6. JSON Schema in Production - #6 Suresh Srinivas at OpenMetadata (468 views, 2 years ago)

JSON Schema Case Studies



How JSON Schema Was an Obvious Choice at GitHub

At GitHub's Docs Engineering team, while shipping releases to production 20 times per day or more, JSON Schema is critical in increasing confidence in changes to data, content and APIs.



How 6 River Systems saves time and boosts collaboration with JSON Schema

Explore the powerful impact of JSON Schema on 6 River Systems' fulfillment operations. Discover how they enabled enhanced collaboration, time savings, and data quality assurance, propelling their successful scaling journey.



Using JSON Schema at Remote to scale forms and data validations

Using JSON Schema at Remote was the first step to solving data validation and form generation problems across all levels at Remote.



How Tyler Technologies reduced its client feedback loop with JSON Schema

Using JSON Schema at Tyler Technologies meant showing added value to clients could take minutes rather than days or in some cases weeks.



Transforming the technical recruiting industry with JSON Schema

Learn how Manfred used JSON Schema to transform the technical recruiting industry.



How Postman uses JSON Schema

Learn how JSON Schema continues to be a crucial component of the Postman API Platform and the API ecosystem.



How the W3C Web of Things brings JSON Schema to the Internet of Things

Using JSON Schema at the W3C Web of Things to create an interoperability layer so that different IoT platforms, protocols and standards can operate together.

The JSON Schema Conference



People



JSON Schema Adopters

The screenshot shows the JSON Schema website interface. At the top left is the JSON Schema logo. Navigation links for 'EXPLORE' and 'GUIDE' are present. A search bar is located at the top right. Below the navigation, there are filter tabs for 'JSON Schema Ecosystem', 'Adopters', 'Sponsors', and 'Tools'. The main content area is divided into three sections: 'Adopters', 'Sponsors', and 'Tools'. The 'Adopters' section contains a grid of logos including GitHub, Tyler, R, Zapier, f5, ADP, Manfred, Cyclops, KrakenD, Invopop, Stedi, DJ, HELM, Node-RED, Endjin, Smart Data Models, Tyk, and others. The 'Sponsors' section includes AsyncAPI, Airbnb, Endjin, LLC.org, VPSERVER, ITFlashcards, Route1Me, n8n, CopyCopter, and Octue. The 'Tools' section shows the JSON Schema logo and a 'Tools' link. On the right side, there is a 'Standards' section with logos for 'WEB OF THINGS', AsyncAPI, and a '[json.api]' entry. A 'Community' section is also visible with a logo.

People



JSON Schema Ambassadors



2024



Jeremy Fiel

Principal Software Engineer
ADP



Esther Okafor

QA Engineer
Storyblok



Andreas Eberhart

CEO at Dashjoin



David Biesack

Chief API Officer
Apiture



Juan Cruz Viotti

Director **Sourcemeta**
O'Reilly author



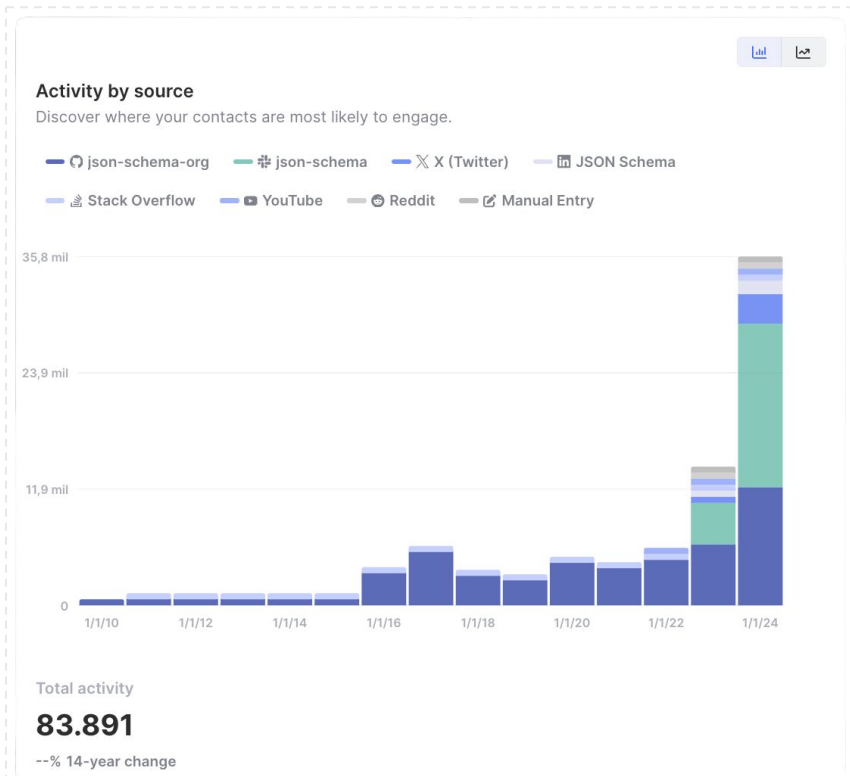
Ege Korkan

R&D Engineer
Siemens

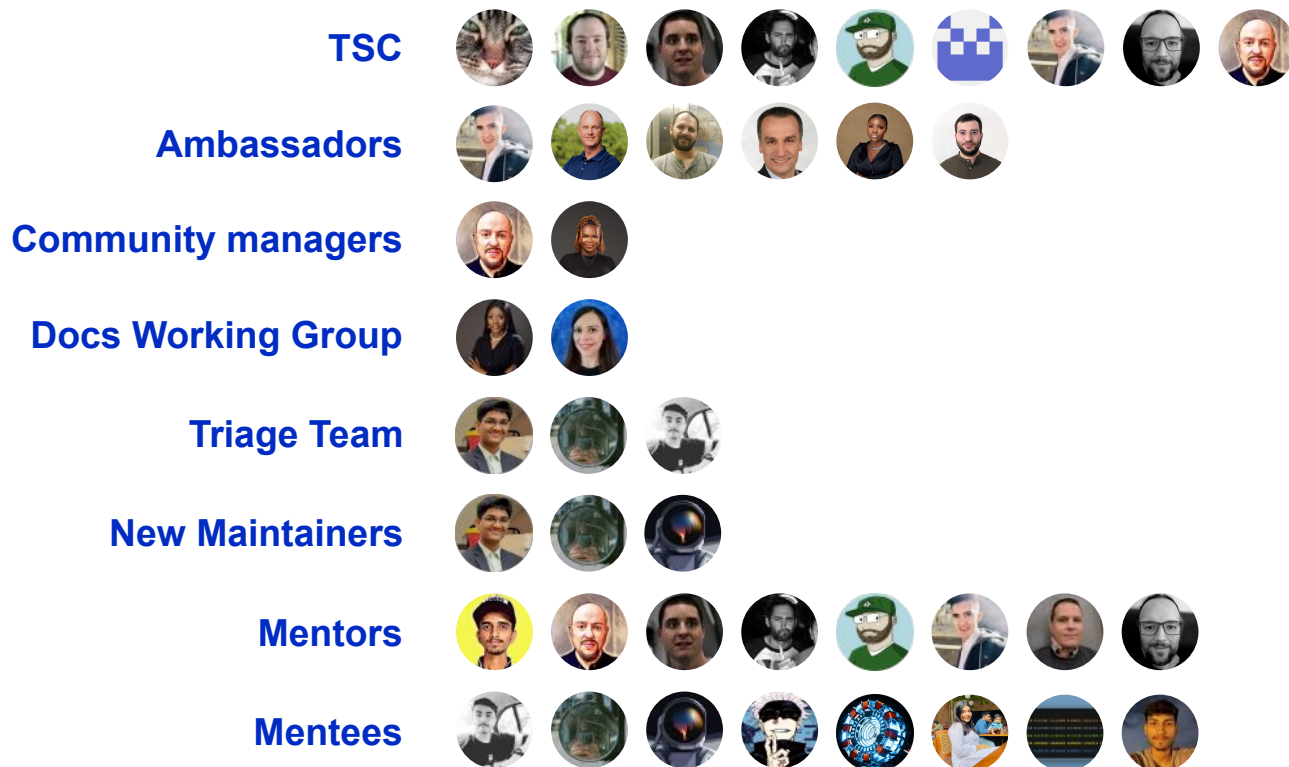
JSON Schema Sponsors



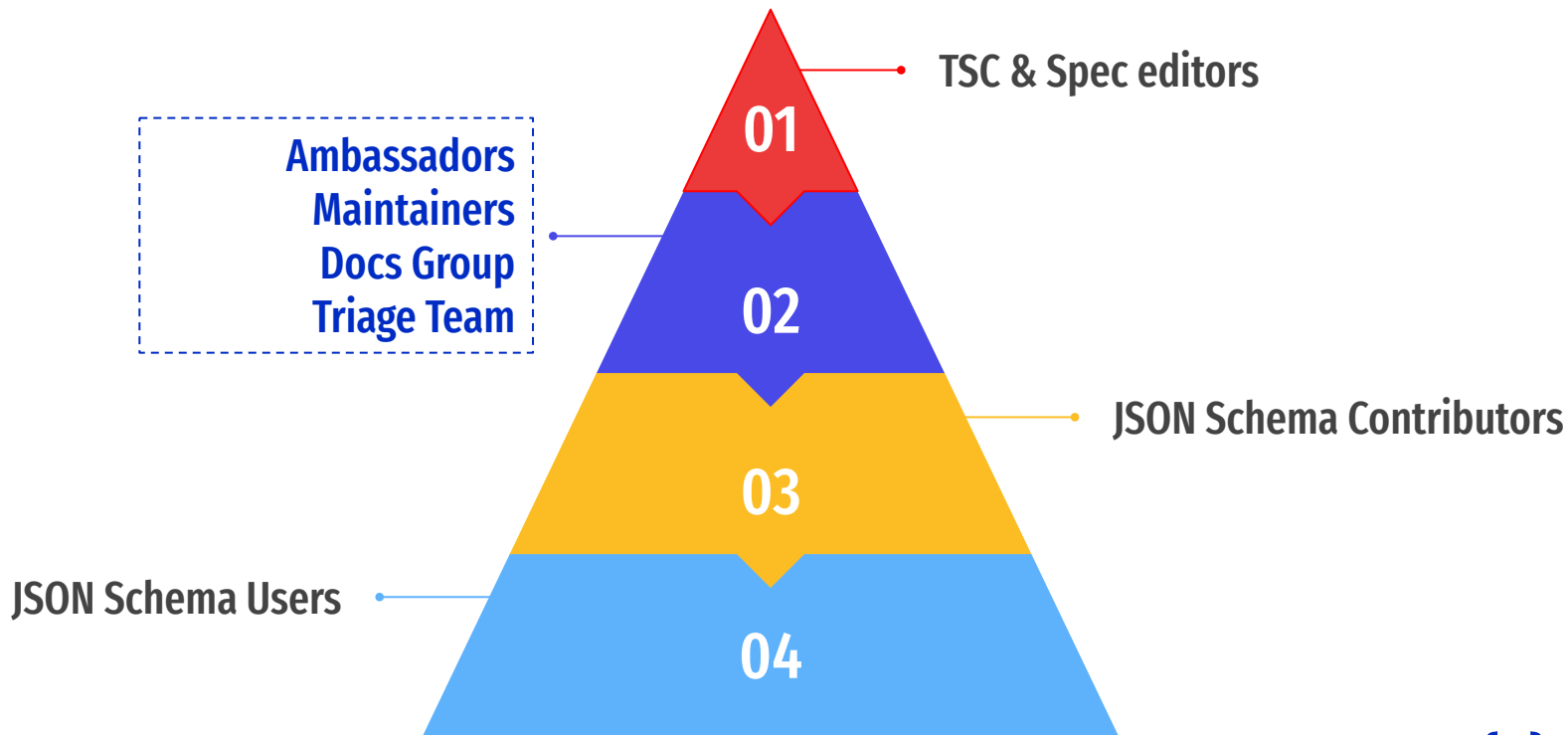
A picture of the Project today +18K users



A picture of the Project today



A picture of the Project today



What about the Spec?

- Focused on achieving stability between versions with the Stable Release.
- Introduced a few necessary breaking changes to enable future compatibility.
- Improved and clarified language in Core and Validation specifications for better readability.
- Merged 25 pull requests and closed 16 associated issues, with more ongoing.
- Delivered the Specification Development Lifecycle Process.
- Targeting the release of the new version next year.

People



Next steps

Join the Discussion to contribute to the Roadmap refresh!

GitHub Discussion [#813](#)



- **Stable Spec development.**
- Open Governance.
- Support for Implementers.
- Ecosystem Collaboration.
- Sponsorship Retention and Attraction.
- JSON Schema Conference.
- Join an Open Source Foundation.

Thanks!



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