



JSON Schema Conf 2024

apidays

PLATINUM SPONSOR

| Octue

State of JSON Schema



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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.

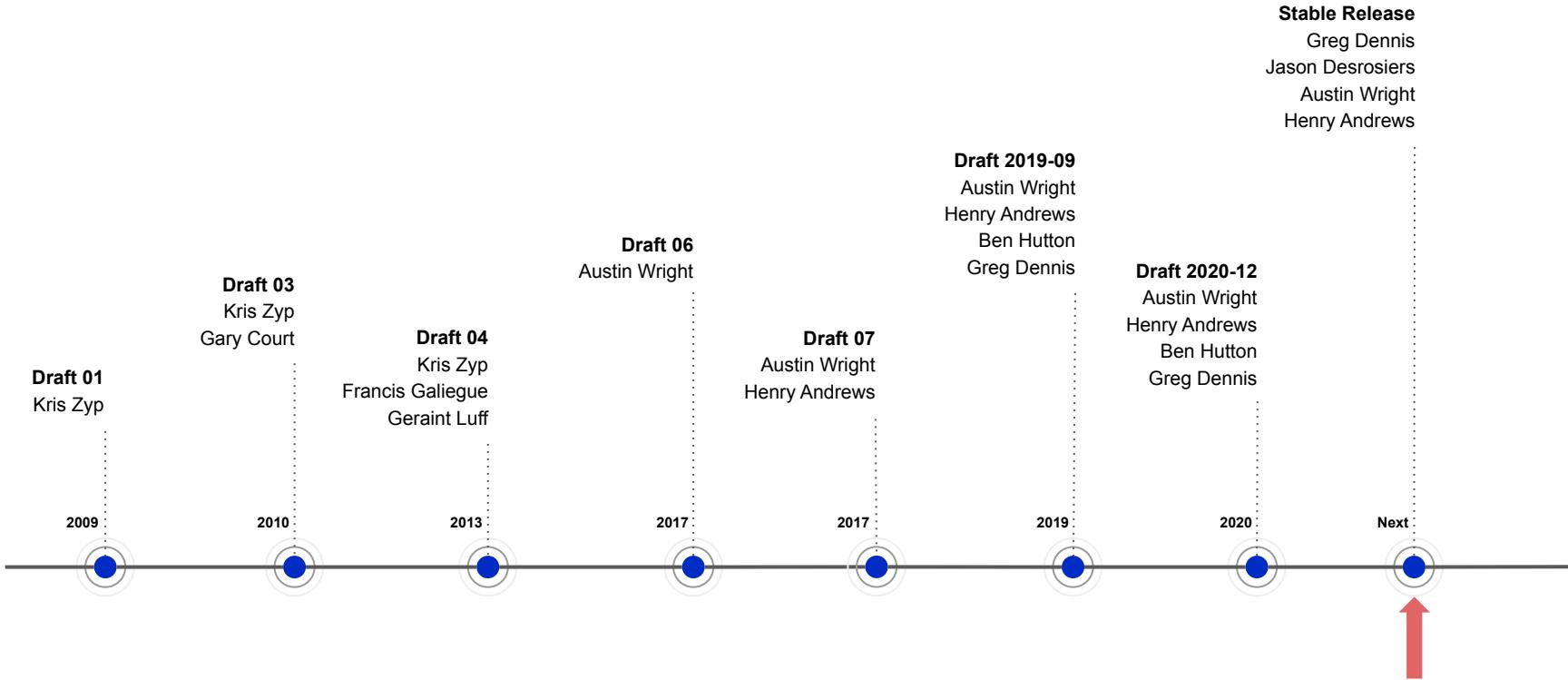
[Getting started](#)[Join Slack](#) [Search](#)

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 website. At the top, there is a navigation bar with the logo '{X}' JSON Schema, Specification, Learn, Implementations, Blog, and Join our Slack. Below the navigation bar, a main heading states: "JSON Schema is a vocabulary that allows you to **annotate** and **validate** JSON documents." A section titled "Benefits" lists the following points:

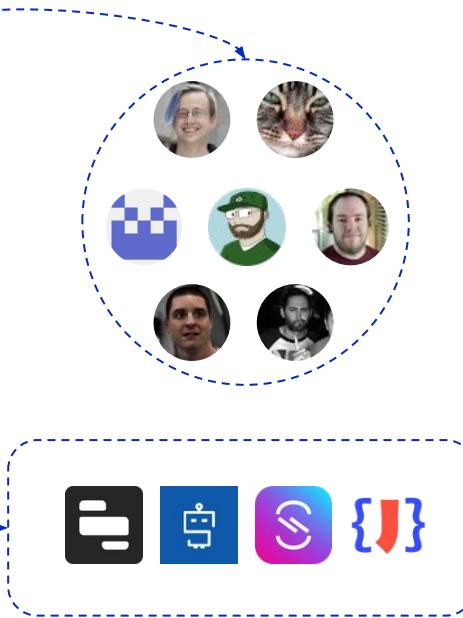
- Describes your existing data format(s).
- Provides clear human- and machine- readable documentation.
- Validates data which is useful for:
 - Automated testing.
 - Ensuring quality of client submitted data.

A section titled "What now?" encourages users to "Learn, Get help, Shape the Community, Chat, with the JSON Schema team and Community!" It features three buttons: "Getting Started" (with a hand icon), "Open JSON Schema Slack" (with a Slack icon), and "Community Discussions" (with a speech bubble icon).

In the footer, it says "Regular Activities" and "We hold weekly Office Hours and twice monthly Open Community Working Meet".

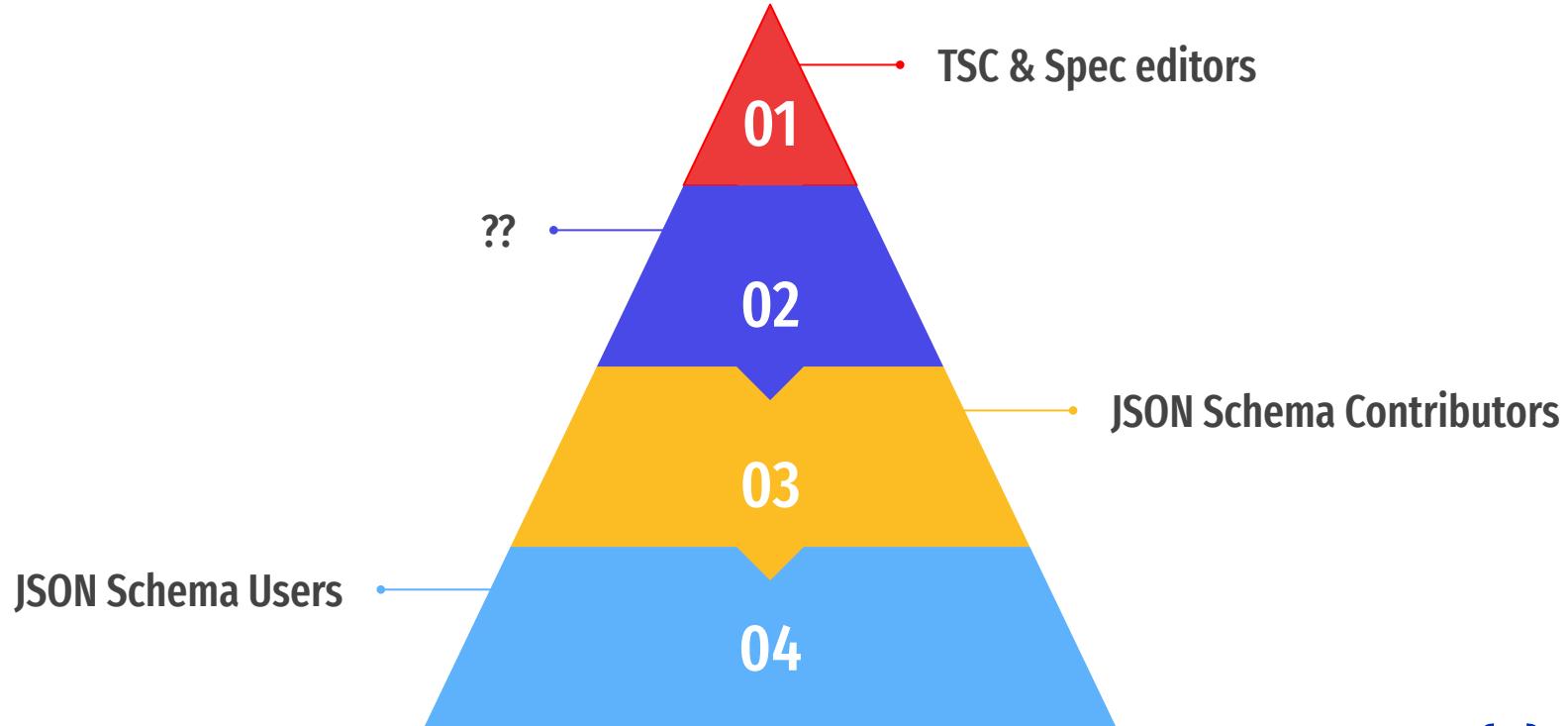
A picture of the Project back in 2021

- 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

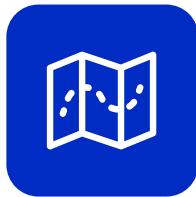


A picture of the Project back in 2021

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



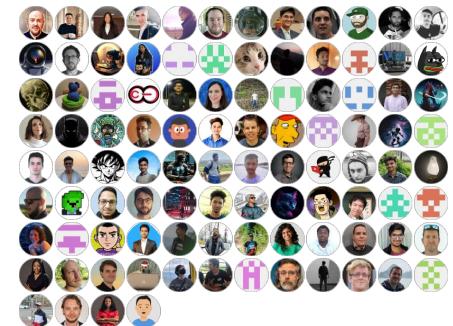
Trust & Influence

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

The New JSON Schema website

The screenshot shows the homepage of the new JSON Schema website. At the top left is the JSON Schema logo. The top navigation bar includes links for Specification, Docs, Tools, Blog, Community, a search icon, and a light mode icon. A blue button on the right says "Star on GitHub". The main title "Build more. Break less. Empower others." is displayed in large white font on a blue background. Below it, a subtitle reads "JSON Schema enables the confident and reliable use of the JSON data format." Three buttons are present: "Getting started", "Join Slack", and a search bar. A "Used by" section lists logos for Zapier, Microsoft, Postman, and GitHub. A link to the "JSON Schema Landscape" is provided. The bottom section features a "Why JSON Schema?" heading and a paragraph explaining its benefits: "While JSON is probably the most popular format for exchanging data, JSON Schema is the vocabulary that enables JSON data consistency, validity, and interoperability at scale." Two call-to-action boxes at the bottom are partially visible: "Streamline testing and validation" and "Exchange data seamlessly".

+110 People



A Tour of JSON Schema

tour.json-schema.org



Google Summer of Code

A Tour of JSON Schema Chapter 2: Primitive Types > Lesson 1: Constraining String Length

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": "84584989564"  
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 }
```

Output

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

VALIDATE RESET NEXT >

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

{ } JSON
Schema

Build more, Break less, Empower others.

People



New Tools section

The screenshot shows the main page of the JSON Schema Tools section. At the top, there's a search bar and a navigation menu with links to Specification, Docs, Tools, Blog, Community, and a GitHub button. Below the header, a large number '184' indicates the count of tools. A sidebar on the left titled 'Tools' contains dropdown menus for Language, Tooling Type, Environment, Dialect, and License, with 'Language' currently selected. A 'Search' input field is also present. In the center, a 'Validator' section displays a table of tools. The first row in the table is for '@cfworker/json-schema' and includes columns for Name, Languages (JavaScript), Dialects (4, 7, 2019-09, 2020-12), License (MIT), and Bowtie (link). The second row is for '@exodus/schemasafe' and the third for '@hyperjump/json-schema'. Below the table are 'Apply Filters' and 'Clear Filters' buttons.

This screenshot shows a detailed view of the '@cfworker/json-schema' tool from the previous list. The top part of the interface is identical to the main page. The central area is a detailed card for the tool. It includes sections for Source (https://github.com/cfworker/cfworker/blob/master/packages/json-schema/README.md), Supported Versions (JSON Schema Version 2020-12, 2019-09, 7, 6), Compliance (Draft 2020-12: 95% Passed, Draft 2019-09: 95% Passed, Draft 7: 95% Passing, Draft 6: 95% Passing), Homepage (https://cfworker.dev), License (MIT), and Tooling Listing Notes (Built for Cloudflare workers, browsers, and Node.js). Below this card is a sidebar with sections for Maintainers (Jeremy Danow (@danoyw)), Supported Dialects (4, 7, 2019-09, 2020-12), Tooling Types (Validator), Languages (JavaScript), and Bowtie Identifier (\$-json-schema).

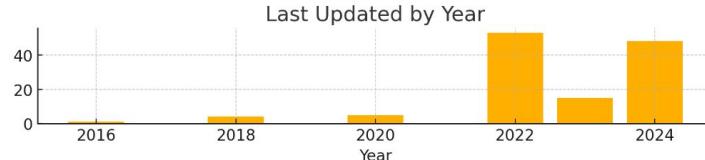
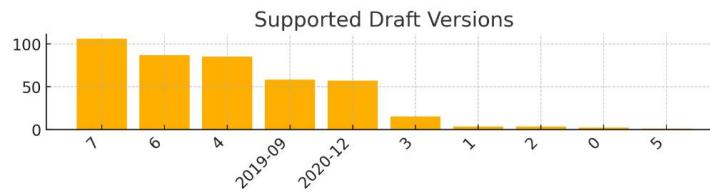
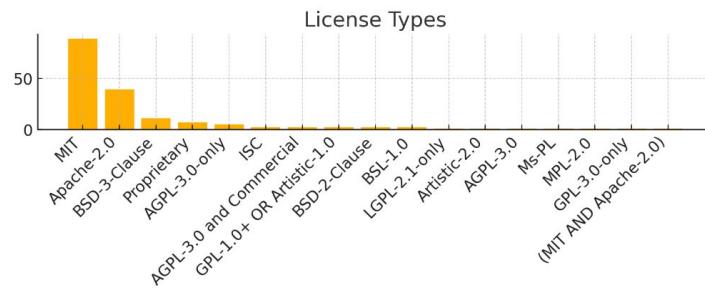
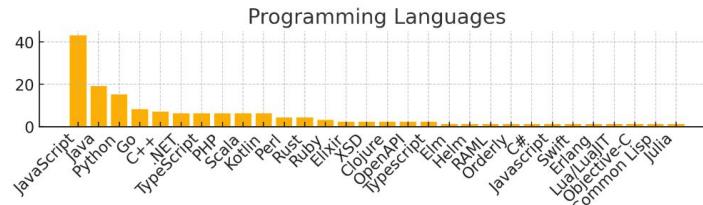
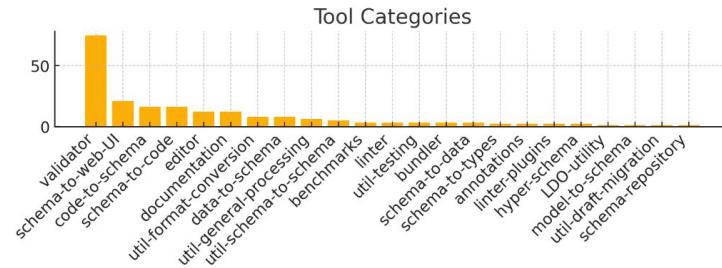
People



Google Summer of Code

New Tools section with 184 registered Tools

JSON Schema Tooling Dashboard



Mentorship Programs



Google Summer of Code

Mentors



Mentees



Season of Docs

Technical Writers



Docs Engineer



JSON Schema in Production

The screenshot shows a video player interface with a dark theme. At the top left is a thumbnail for the first video in the playlist, featuring two men in a studio setting. Below it, the title 'JSON Schema in Production' is displayed in large, bold, white font. Underneath the title, there's a smaller section with a logo of a person icon inside a box, followed by the text 'by JSON-Schema'. It also indicates that this is a 'Playlist • 6 videos • 363 views'. A 'Play all' button is visible. To the right of the main title, there is a list of six video entries, each with a thumbnail, title, and metadata.

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

JSON Schema Case Studies

GitHub

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.

manfred by SNGULAR

Transforming the technical recruiting industry with JSON Schema

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

6 RIVER SYSTEMS PART OF OCADO GROUP

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.

POSTMAN

How Postman uses JSON Schema

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

R remote

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.

WEB OF THINGS

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.

tyler technologies

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.

The JSON Schema Conference



People



JSON Schema Adopters

The screenshot shows the 'Adopters' section of the JSON Schema website. At the top, there are tabs for 'EXPLORE' and 'GUIDE'. Below that is a search bar and a toolbar with zoom controls. The main area is divided into sections: 'Adopters' (containing logos for GitHub, Tyler Technologies, Zapier, f5, ADP, etc.), 'Standards' (including Web of Things, AsyncAPI, Node-RED, and json api), 'Bronze' (AsyncAPI, Airbnb, endjin, LLC.org, VPS SERVER, IT Flashcards, RouteMe, n8n, CopyCopter, Octue), 'Community' (represented by a single logo), and 'Tools' (represented by a single logo). A sidebar on the left lists categories: 'Adopters', 'Sponsors', and 'Tools'.

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



POSTMAN



AsyncAPI



airbnb

endjin



vps SERVER



Route4Me

 LLC.org



n8n



| IT Flashcards

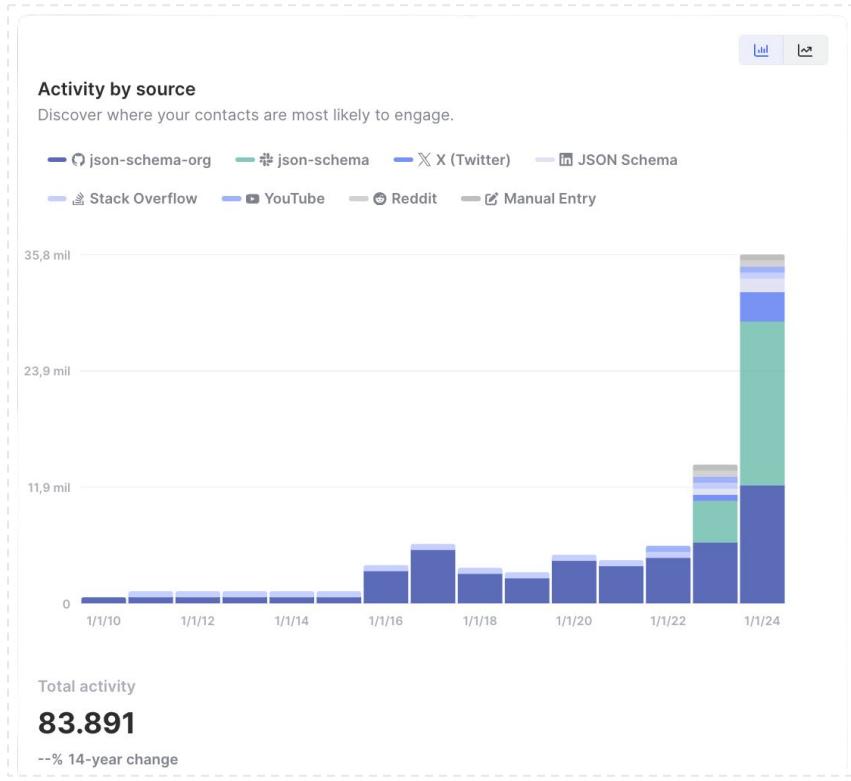
 PrincipalSM

Octue

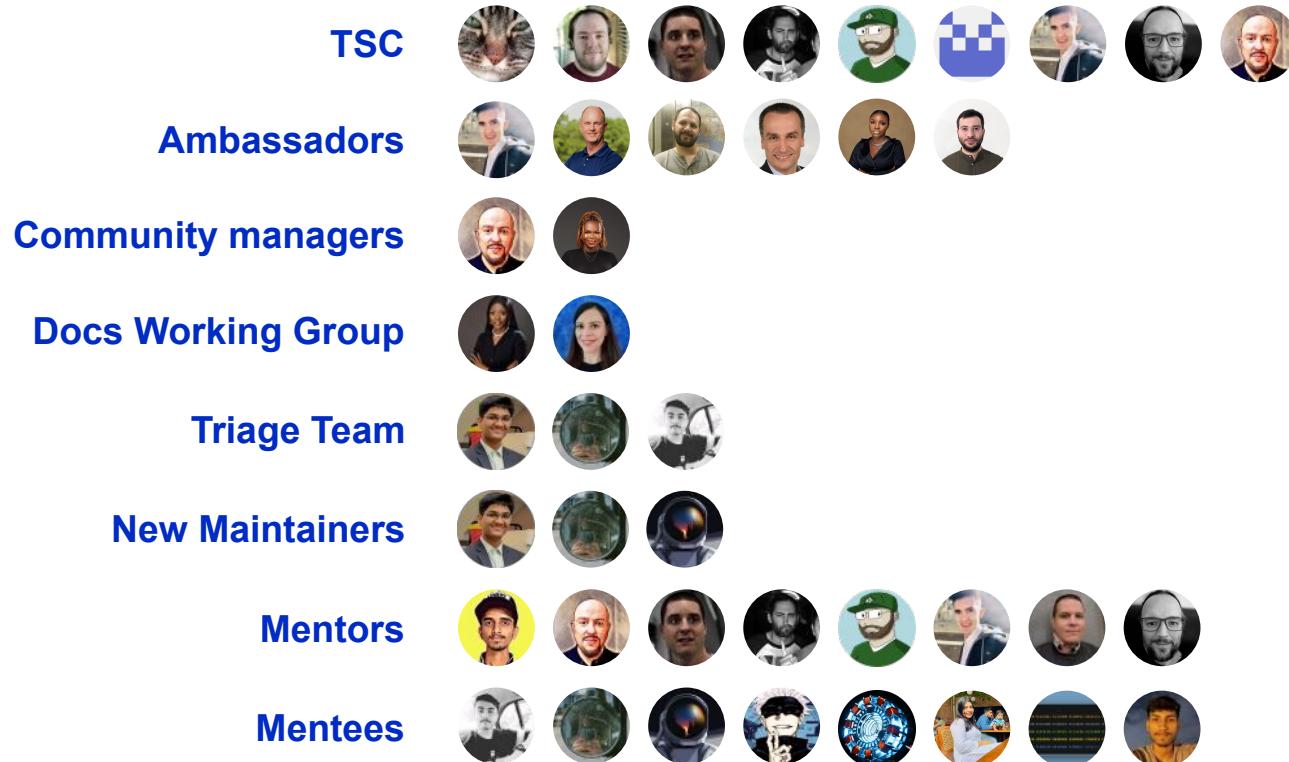


CopyCopter

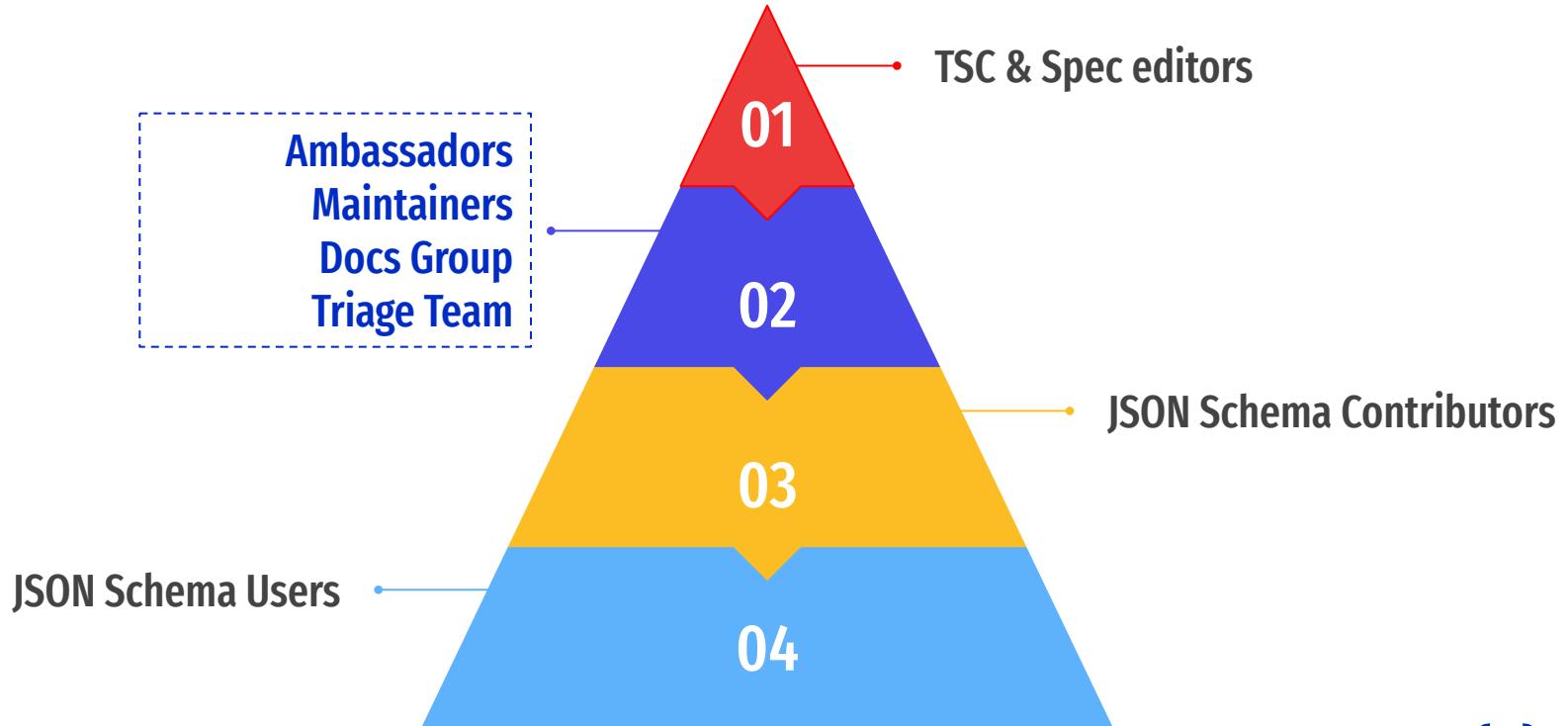
A picture of the Project today +18K users



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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