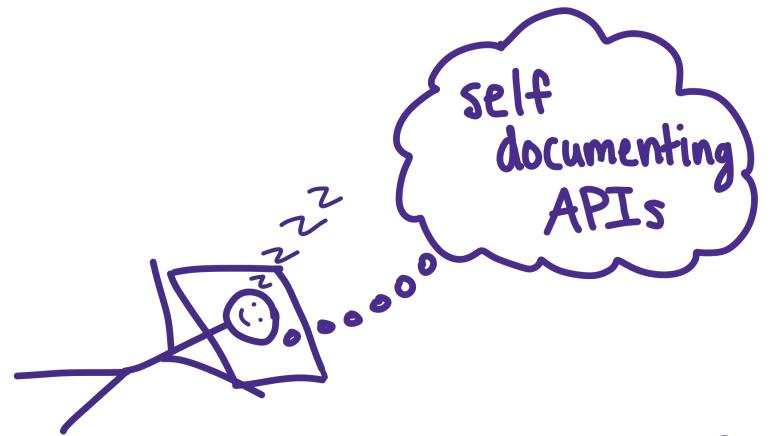


#### Going to Infinity and Beyond Documentation with OpenAPI Specification

Taylor Barnett

Lead Community Engineer, Stoplight





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# )Ingle DUrce

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What is the OpenAPI Specification? (formerly known as Swagger)

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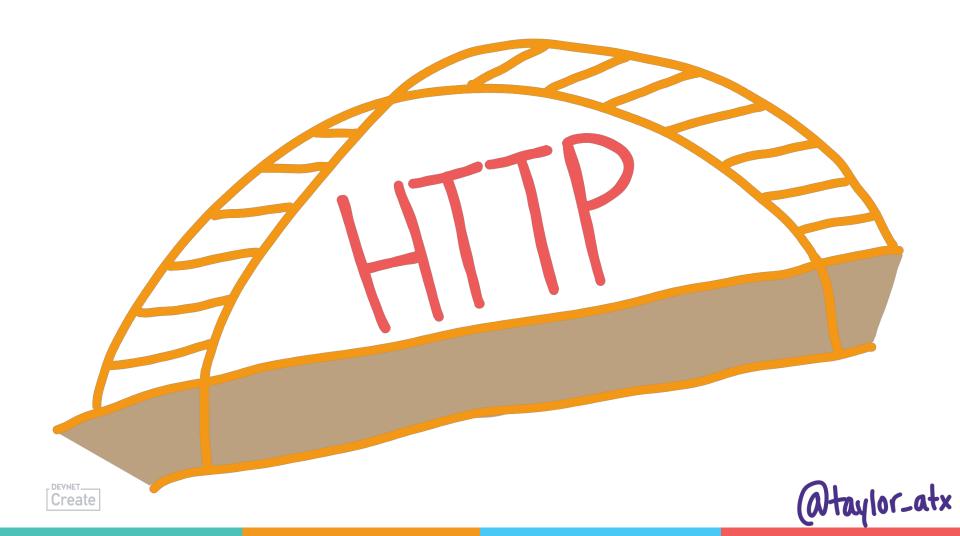
Standard, Structured approach for describing APIs that is both human and machine readable



## Lead Community Engineer @ Stoplight

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# Hidden OpenAPI Benefits +



## It is NOT just for APT References

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- · Development contract ·Prototype and mocking ·Client libraries and SDKs
  - ·Testing
    ·Server stubs



# More than a technical representation



00 tor ollaboration

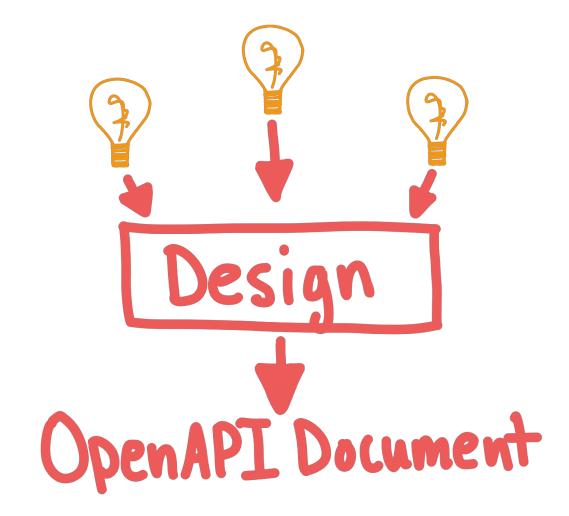
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# Simplifies Standardizes

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#1 Design-First #2 Mocking and Feedback #3 Testing

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#### #1 Design-First

- · Consistency
- · Code-First is expensive \$55
- · Gain full benefits of OpenAPI

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## #2 Mocking and teedback



OpenAPT Document Response Mock Server

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### Lf you use or build internal APIs (including libraries/SDKs), you can... Build faster Parallelize development ·More options Otaylor\_atx

Design Development Test/Release consumer Design Development Test/Release Consumer Design Development Test/Release Consumer Design Development Test/ project lifespan

Design Mock Development Test/Release Consumer Development Test/Release Consumer Development Test/Release Consumer Development Test/Release project lifespan

#### If you write docs ortutorials, You can...

- · Start writing sooner · Give feedback
- · Have interactive docs

# If you care about developer experience or advocate for users, you can... Pause facilities

- ·Power feedback loops
- · Put real endpoints in front of users

#2 Mocking and Feedback Experimental APIS

from Capital One Dev Exchange, "Design Thinking and API Design"

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Questions to ask:

What are the tasks users want to accomplish?



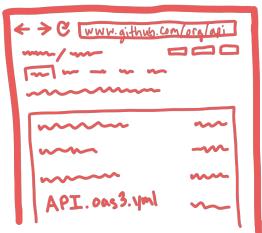
#### Questions to ask:

Will the API help users achieve these tasks?

Are the endpoints confusing?



# UDIC OPENAPI MARIONS 3. YMI Specification documents





Stripe Nexmo Sendojik New York Times Netlify Flicks Kubernetes Azure Adafruit

#### #3 Testing

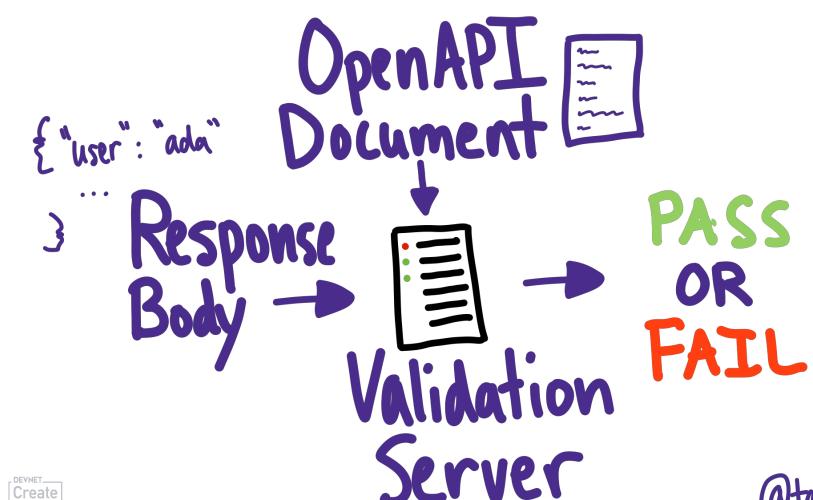
- Machine Readable

- ·Linting
- · Validation Testing



1911 is Contract esting (

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## ess broken SDKS



#### Example:

Update SDK code

L> Open pull request

La CI runs + Contract tests









Ideation Monitoring Design Mocking Management Implementation
Testing

Ideation Monitoring Mocking Management Implementation Testing

Nat would allow you to focus more on the API Experience?

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