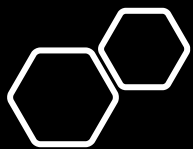




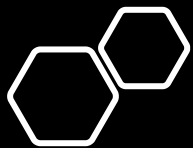
Introduction to OpenAPI

Describing, understanding,
and using APIs



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Summary

- What is OpenAPI?
- What does OpenAPI enable?
- Why does it matter?
- Hands-on demo





What is OpenAPI?

a standard interface to
describe HTTP APIs



What does OpenAPI enable?

- Human readability
- Computer readability



Human Readability

- A developer creates an API
- A developer generates documentation



Computer Readability

- A developer generates a software client to call the API
- A developer generates a software server stub to implement the API
- The software server can introspect the spec to understand how its endpoints should work (i.e., strictly enforced method signatures, types, etc)



Why does this matter?

OpenAPI enables improved communication

“How should this work?”

“Does it work?”



Communication

Front-end ↔ Back-end

Engineering ↔ Product

Engineering ↔ QA

Software Development Lifecycle



Define

Define the contract
between Front-End and
Back-End



Describe

Describe it in an OpenAPI
specification



Implement

Implement it

- Client
- Server
- QA
- Release!



Speed of execution



Resources

- Swagger Editor - <https://editor.swagger.io/>
- Swagger Hub – \$ - <https://swagger.io/tools/swaggerhub/>
- OpenAPI website - <https://www.openapis.org/>
- OpenAPI generator - <https://openapi-generator.tech/>

The image features a central, circular camera aperture with six blades. The background is a dark, textured blue-grey. Inside the aperture, there are several horizontal, blurred streaks of light in shades of green, yellow, and blue, suggesting motion or light trails. The word "Demo" is written in a clean, white, sans-serif font, centered over the aperture.

Demo





SWARZY