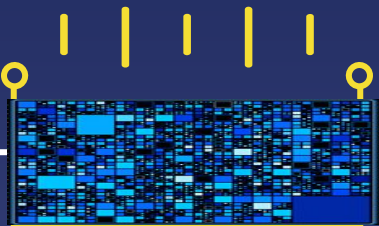
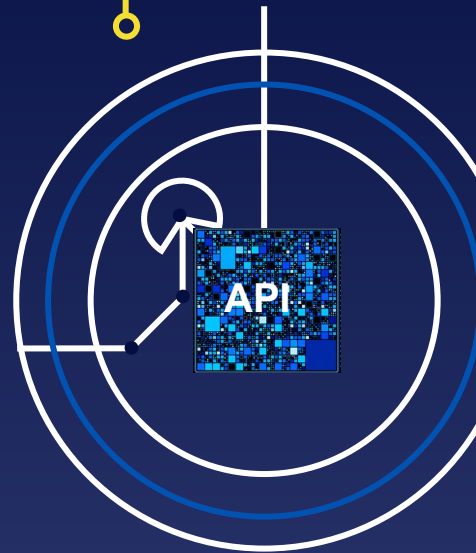




SWAGGER



Lets move on to the topic



CONTENTS

01

Documentation Tools

02

Open API Specification



CONTENTS

03

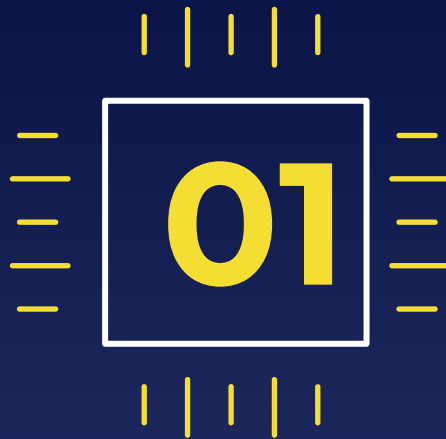
Why Swagger

04

Live Approach How It Works

Syntax, Format, editor, setup etc





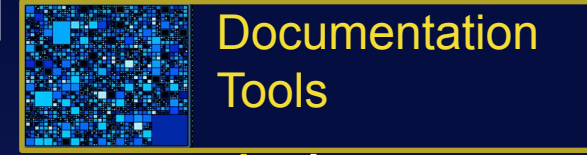
Documentation Tools

Notion, Readme, Google sheet, Postman **Swagger**



Problems We Face

- Not follow International standards
- Not machine supported
- Provides dynamic functionality
- User Interface & User Experience



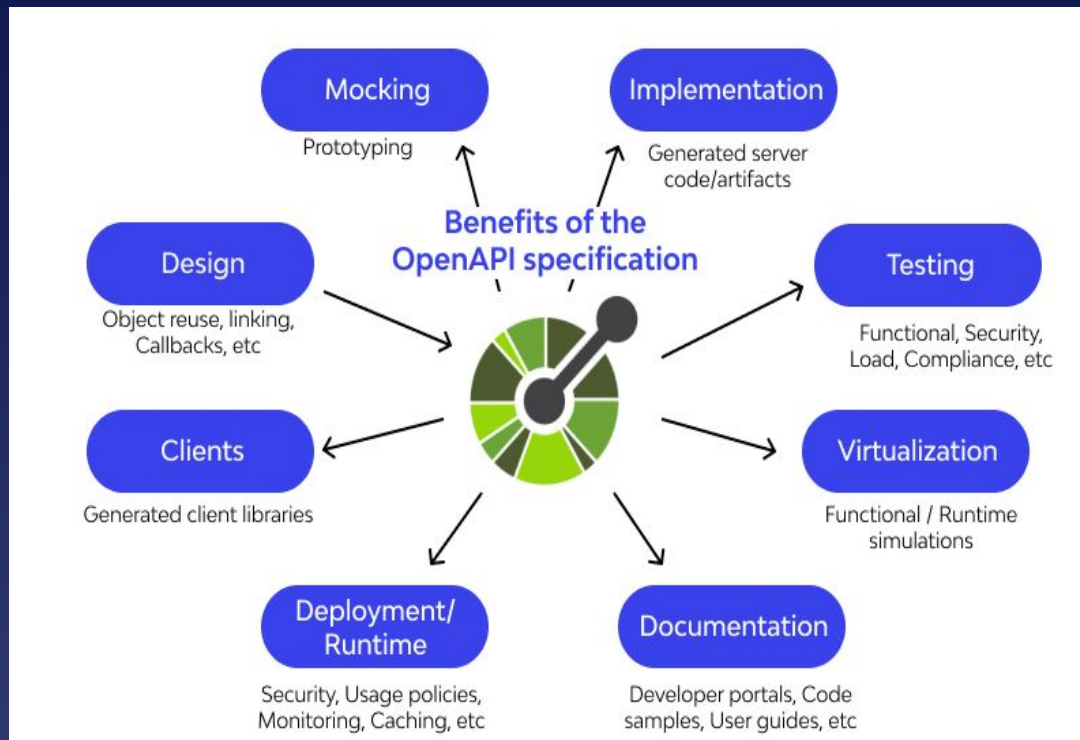


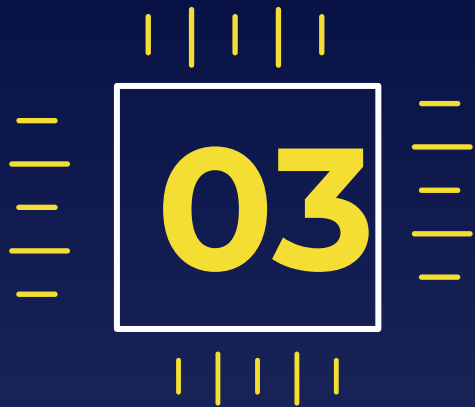
Open API Specification

International Standard for writing document.

It is a specification for a **machine-readable interface** definition language for describing, producing, consuming, and visualizing web services

Benefits of OAS





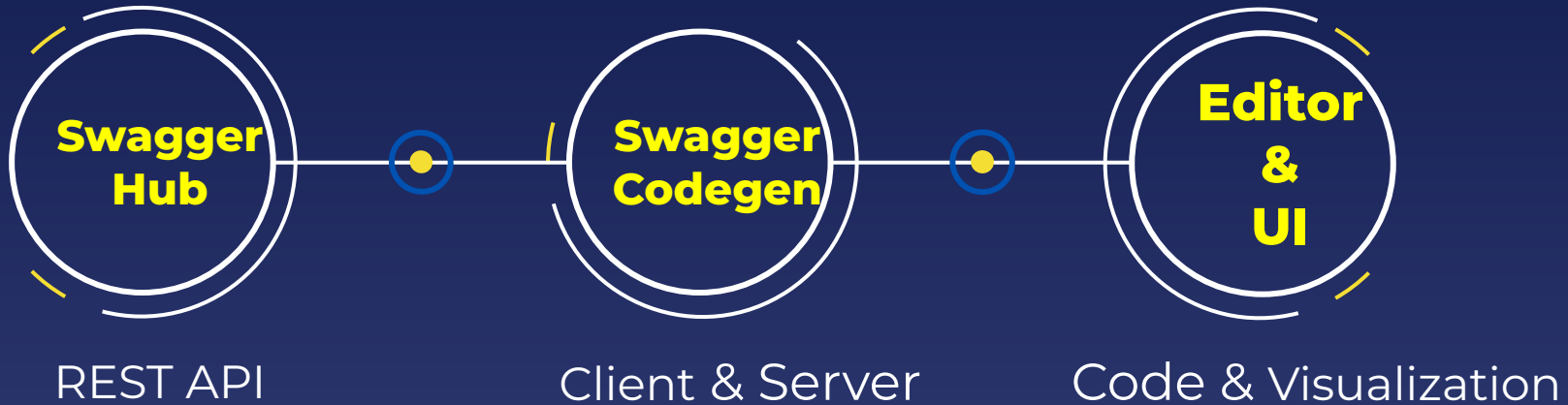
Why Swagger

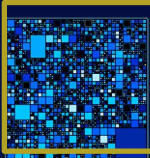
The OpenAPI Specification, **previously known** as the Swagger Specification.

Why Swagger

03

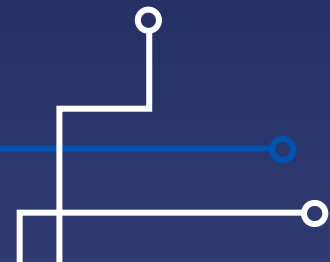
By using Open API specification, Swagger company provides us with **three tools**

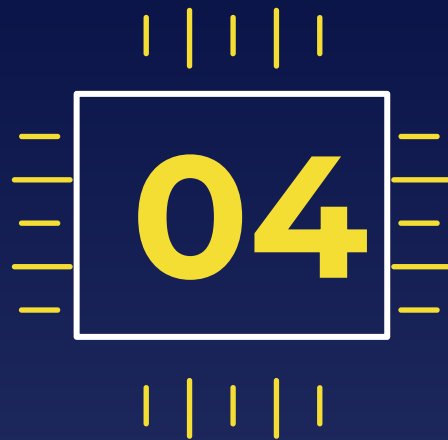
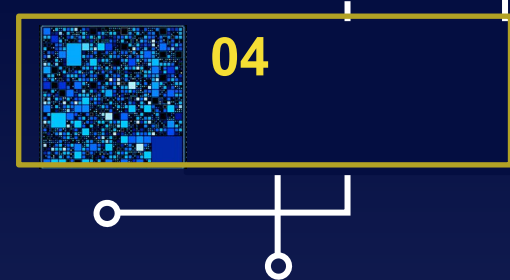




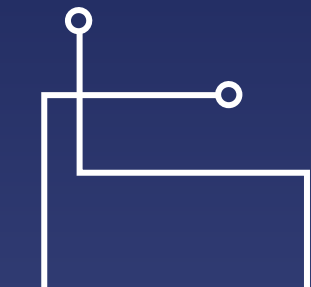
Swagger Solves

- **Use Open API Specification**
- **Implements inheritance concept if needed**
- **Provides an interactive API documentation interface**
- **Code generation Features**
- **Includes extensions**

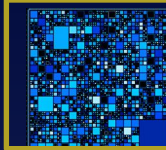




Approach



Supported Formats



04

JSON

```
1 {
2   "openapi": "3.0.0",
3   "info": {
4     "title": "Cricket API",
5     "version": "1.0.0",
6     "description": "API for cricket data"
7   },
8   "paths": {
9     "/cricket/teams": {
10      "get": {
11        "summary": "Get a list of cricket teams",
12        "responses": {
13          "200": {
14            "description": "Successful response",
15            "content": {
16              "application/json": {
17                "example": {
18                  "teams": [
19                    {
20                      "name": "Team A",
21                      "captain": "Player A"
22                    },
23                    {
24                      "name": "Team B",
25                      "captain": "Player B"
26                    }
27                  ]
28                }
29              }
30            }
31          }
32        }
33      }
34    }
35  }
36 }
37
```

- JSON
- YAML

YAML

```
1 {
2   "openapi": "3.0.0",
3   "info": {
4     "title": "Cricket API",
5     "version": "1.0.0",
6     "description": "API for cricket data"
7   },
8   "paths": {
9     "/cricket/teams": {
10      "get": {
11        "summary": "Get a list of cricket teams",
12        "responses": {
13          "200": {
14            "description": "Successful response",
15            "content": {
16              "application/json": {
17                "example": {
18                  "teams": [
19                    {
20                      "name": "Team A",
21                      "captain": "Player A"
22                    },
23                    {
24                      "name": "Team B",
25                      "captain": "Player B"
26                    }
27                  ]
28                }
29              }
30            }
31          }
32        }
33      }
34    }
35  }
36 }
37
```

Basic Syntax part

04

To create an open API using Swagger, there are typically **three** key properties required:

- Open api version
- Info object
- Paths object

```
openapi: 3.1.0
info:
  servers: []
  tags: []
  paths: {}
  security: []
  components: {}
```

Editor

04

<https://editor-next.swagger.io/>

Visual Studio Code

The screenshot displays the Swagger Editor interface. On the left, a code editor shows the Swagger Petstore API definition in OpenAPI 3.0 format. The definition includes metadata like title, version, and servers, as well as several API endpoints under the /pet path, such as POST /pet (add a new pet) and GET /pet (find pets by status). The right panel provides a user-friendly overview of the API, including a description, useful links, terms of service, and a list of API endpoints with their methods and descriptions. The interface is clean and modern, with a dark theme for the code editor and a light theme for the overview panel.

```
1 openapi: 3.0.3
2 > info:
39 externalDocs:
40   description: Find out more about Swagger
41   url: http://swagger.io
42 servers:
43   url: https://petstore3.swagger.io/api/v3
44 tags:
45   - name: pet
46     description: Everything about your Pets
47   externalDocs:
48     description: Find out more
49     url: http://swagger.io
50   - name: store
51     description: Access to Petstore orders
52   externalDocs:
53     description: Find out more about our store
54     url: http://swagger.io
55   - name: user
56     description: Operations about user
57 paths:
58   /pet:
59     > put:
98     post:
99     tags:
100     - pet
101     summary: Add a new pet to the store
102     description: Add a new pet to the store
103     operationId: addPet
104     requestBody:
105       description: Create a new pet in the store
106       content:
107         application/json:
108           schema:
109             $ref: '#/components/schemas/Pet'
110         application/xml:
111           schema:
112             $ref: '#/components/schemas/Pet'
113         application/x-www-form-urlencoded:
114           schema:
115             $ref: '#/components/schemas/Pet'
116       required: true
117     responses:
```

Swagger Petstore - OpenAPI 3.0

<https://raw.githubusercontent.com/asyncapi/specv2.6.0/examples/streetlights-kafka.yml>

This is a sample Pet Store Server based on the OpenAPI 3.0 specification. You can find out more about Swagger at <https://swagger.io>. In the third iteration of the pet store, we've switched to the design first approach! You can now help us improve the API whether it's by making changes to the definition itself or to the code. That way, with time, we can improve the API in general, and expose some of the new features in OAS3.

If you're looking for the Swagger 2.0/OAS 2.0 version of Petstore, then click [here](#). Alternatively, you can load via the **Edit > Load Petstore OAS 2.0** menu option!

Some useful links:

- [The Pet Store repository](#)
- [The source API definition for the Pet Store](#)

Terms of service
Contact the developer
Apache 2.0
Find out more about Swagger

Servers

<https://petstore3.swagger.io/api/v3> [Authorize](#)

pet

Everything about your Pets [Find out more](#)

POST	/pet	Add a new pet to the store	Find out more
GET	/pet/findByStatus	Finds Pets by status	Find out more
GET	/pet/findByTags	Finds Pets by tags	Find out more
GET	/pet/{petId}	Find pet by ID	Find out more



THANKS!

