Instructions:

- 1. Print pages 2-9
- 2. Cut into note cards
- 3. Optional: rewrite by hand on 4x6 cards for maximal learning

Important:

OpenAPI is a specification used to describe an HTTP API. The API description is composed of building blocks with different types of data. The note cards represent different building blocks. The outermost building block is called the **Root**. Not all of the building blocks are included (this should satisfy 99% of the cases). Each note card is for a given type (titled in the heading). Then, it has a property (left-side) and type (right-side) in columns. The properties that are **bold** are required. Some types are scalar (bottom-level building blocks), and others are referencing other types as building blocks. Note that the building blocks with "**Maps**" as a suffix are special and represent a map with keys and the corresponding value type is without the "Maps" suffix. For example, **MediaTypesMap** corresponds to the **MediaType** type. One exception is the **WebhooksMap** is a map of keys to **PathItem** objects. Similarly, in components the objects prefixed with "**Named**" are maps of names to the corresponding type of data (such as NamedParameters are maps of names to **Parameter** objects). In the following snippet, "application/json" is the map key in a **MediaTypesMap**, and everything that follows is a **MediaType** type.

```
content:
   application/json:
    schema:
     type: object
    properties:
     id:
        type: string
        createdAt:
        type: string
        format: date-time
```

The examples here and in the note cards are almost always incomplete and abbreviated. They serve as a reminder or hint to help unblock you.

Root

Info

openapi string (3.1.0)

info Info object

servers List of **Server** objects

security List of **SecurityRequirement** objects

tags List of **Tag** objects

externalDocs object

paths Paths object

webhooks WebhooksMap object

components Components object

jsonSchemaDialect **string**

Example:

openapi: 3.1.0

info: ...

components: {}

title string

version string

description **string**

termsOfService **string**

summary **string**

contact Contact object

license License object

Example:

info:

title: FooTube.net

version: v1

License

Contact

name string

url **string**

identifier **string**

name **string**

url **string**

email **string**

Example:

license:

name: MIT

Example:

contact:

name: Adam

Server

ServerVariable

url string

description string

variables **ServerVariablesMap** default string [string] enum description string

Example:

servers:

- url: https://api.remockly.com/v1

description: Mock server

Example:

servers:

- url: https://{tenant}.remockly.com/v1

description: Mock server

variables: tenant:

default: www

description: Your tenant id

SecurityRequirement

Tag

string name

description string

externalDocs **ExternalDocs** object

[string]

The names of security requirements are defined in the Components NamedSecuritySchemes.

Example:

security:

- JWT: []

Example:

tags:

- name: Feedback

description: A **wonderful** example.

- name: Approvals

ExternalDocs

Paths

url string description string

starts with '/' PathItem object

Example:

```
paths:
    /feedback:
    get:
        responses:
        200:
        description: OK
/approvals:
```

\$ref: ./paths/approvals.yaml

PathItem

servers

List of **Server** objects

parameters List of **Parameter** objects

summary string description string

get **Operation** object put **Operation** object post **Operation** object

delete **Operation** object

options **Operation** object

head **Operation** object

patch **Operation** object

trace **Operation** object

Operation

responses Responses object

tags [string]

parameters List of **Parameter** objects

summary string description string

externalDocs bject

operationId **string**

security List of SecurityRequirement

servers List of **Server** objects requestBody **RequestBody** object

deprecated **boolean**

callbacks CallbacksMap object

Parameter

name string

in string

description **string**

required **boolean**

deprecated boolean

allowEmptyValue **boolean**

style **string**

explode **boolean**

allowReserved **boolean**

schema Schema object

example any

examples **ExamplesMap** object

content MediaTypesMap object

RequestBody

content MediaTypesMap object

required **boolean**

description **string**

MediaType

schema Schema object

example any

examples **ExamplesMap** object

encoding **EncodingMap** object

Example:

application/json:

schema:

type: object

properties:

id:

type: string

createdAt:

type: string

format: date-time

Example

value any

summary **string**

description **string**

externalValue **string**

Example:

value:

id: abc123

createdAt: 2023-01-29T10:59:21Z

summary: Case ABC

Encoding

allowReserved

contentType **string**

headers HeadersMap object

boolean

style string explode boolean

Header

description **string**

required **boolean**

deprecated **boolean**

allowEmptyValue **boolean**

style **string**

explode **boolean**

allowReserved **boolean**

schema Schema object

example any

examples **ExamplesMap** object

content MediaTypesMap object

Mutually exclusive properties **schema** or **content** is required.

Responses

default Response object

100-600 **Response** object

1XX, 2XX, 3XX, 4XX, 5XX

Example:

responses:

default: {Response}

200: {Response}
4XX: {Response}

Response

description string

headers HeadersMap object

content MediaTypesMap object

links LinksMap object

Components

parameters NamedParameters

schemas NamedSchemas

responses NamedResponses

examples NamedExamples

requestBodies NamedRequestBodies

headers NamedHeaders

securitySchemes NamedSecuritySchemes

links NamedLinks

callbacks NamedCallbacks

Example:

components:

schemas:

Feedback: {Schema}
Followers: {Schema}

SecurityScheme

type string

in string

name **string**

description **string**

scheme **string**

bearerFormat **string**

flows **OAuth2Flows**

openIdConnectUrl **string**

Example:

components:

securitySchemes:

RedoclyKey:

type: apiKey
in: header

name: api_key

OAuth2Flows

implicit ImplicitFlow object

password PasswordFlow object

clientCredentials ClientCredentials

authorizationCode AuthorizationCode

Example:

components:

securitySchemes:

RedoclyAuth:

type: oauth2

flows:

authorizationCode:

•••

ImplicitFlow

refreshUrl **string**

scopes object

authorizationUrl string

Example:

implicit:

scopes:

read: Read data.

create: Create new data.

update: Update data.

authorizationUrl: https://example.com/au

PasswordFlow

refreshUrl string scopes object

tokenUrl string

Example:
password:
scopes:

read: Read data.

create: Create new data.
update: Update data.

tokenUrl: https://example.com/token/

ClientCredentials

refreshUrl string
scopes object
tokenUrl string

Example:

clientCredentials:

scopes:

read: Read data.

create: Create new data.
update: Update data.

tokenUrl: https://example.com/token/

AuthorizationCode

refreshUrl **string**

scopes object

authorizationUrl string

tokenUrl string

x-usePkce boolean | XUsePkce

Example:

authorizationCode:

x-usePkce:

disableManualConfiguration: false
hideClientSecretInput: false

authorizationUrl: 'https://gitlab.com/oauth/authorize'

tokenUrl: 'https://gitlab.com/oauth/token'
connec;

scopes:

'api': Grants complete read/write access to the API.

'read_user': Grants read-only access.

Discriminator

mapping DiscriminatorMapping

propertyName string

Example:

discriminator:

propertyName: type

mapping:

sentiment: ./sentiment.yaml

rating: ./rating.yaml

Schema (part 1 of 4)

title string
description string
format string
multipleOf number

maximum **number**minimum **number**exclusiveMaximum **number**

exclusiveMinimum **number**

maxLength integer minLength integer

pattern **string**

maxItems integer

minItems integer

Schema (part 2 of 4)

uniqueltems boolean
maxProperties integer
minProperties integer
required [string]
enum [any]
allOf [Schema]

anyOf [Schema]
oneOf [Schema]

not Schema if Schema then Schema else Schema

dependentSchemas [Schema] prefixItems [Schema]

default any

Schema (part 3 of 4)

examples [any]

example any

deprecated **boolean**

properties SchemaProperties

items Schema | boolean

contains Schema

minContains integer

maxContains integer

patternProperties **object**

propertyNames **Schema**

unevaluatedItems Schema

unevaluatedProperties Schema | boolean

summary **string**

additionalProperties Schema | boolean

Schema (part 4 of 4)

contentEncoding string

contentMediaType **string**

readOnly **boolean**

writeOnly **boolean**

xml Xml

const any

\$comment **string**

\$id **string**

\$anchor **string**

\$defs NamedSchemas

definitions NamedSchemas

\$vocabulary **string**