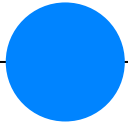


API REST



An **API** is a user interface for a developer.
So put some effort into making it pleasant



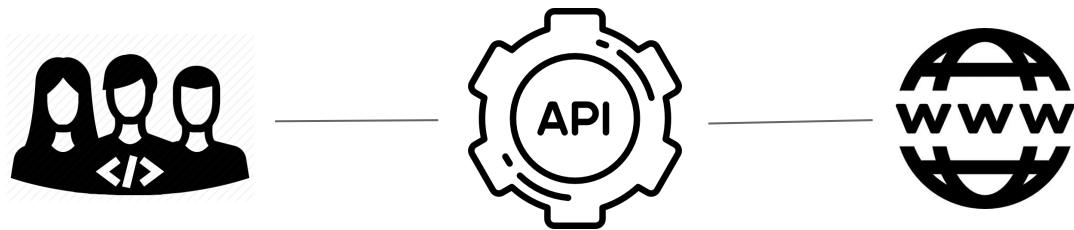


Sommaire

- Qu'est-ce qu'une API ?
- API REST
- Standard et principes d'utilisation
- Utilisation

● Qu'est-ce qu'une API ?

Application Programming Interface



You**Tube**

Google

PayPal

ebay



API REST

- Architecture d'URL
- Verbes HTTP / Post – Get – Put – Delete
- Choix du format de résultats / JSON – XML
- Relation sur les liens / next – edit – contents
- Jeton d'authentification



RESTful Request

Verbes HTTP

- GET
- POST
- PUT
- DELETE

URI

Représentatif de la ressource

`https://api.github.com/users/:username`

`https://api.github.com/users/:username/repos`

`https://api.github.com/repos/:owner/:repo/pulls`

More info : <https://bastiennicoud.gitbooks.io/api-xml-json/content/principles/introduction.html>



RESTful Content

```
1  [
2    {
3      "id": 1296269,
4      "owner": {
5        "login": "octocat",
6        "id": 1,
7        "type": "User"
8      },
9      "name": "Hello-World",
10     "full_name": "octocat/Hello-World",
11     "description": "This your first repo!",
12     "private": false,
13     "fork": false
14   }
15 ]
```

Nommage des clefs

- "clef"
- id / slug
- snake_case
- [] ou { }

Contenu

- Bool
- Int
- Strings
- Object

More info : <https://bastiennicoud.gitbooks.io/api-xml-json/content/principles/introduction.html>



Utilisation - XML

Parse

```
var xml = "xml goes here",  
    xmlDoc = $.parseXML( xml ),  
    $xml = $( xmlDoc );
```

```
$xml.find( "book[category='COOKING']>author" ).text();
```

Génération

```
var xmlDocument = $.parseXML("<note/>");  
var elTo = xmlDocument.createElement('to');
```




Utilisation - JSON

Parse

```
var json = JSON.parse(text);
```

```
var name = json.name;
```

Génération

```
var names = { "name": "John", "age": 30, "city": "New York"};  
var json = JSON.stringify(names);
```



Exercices - API GET

- bit.ly/APIXML
- <https://jsonplaceholder.typicode.com>
- Reprendre des données depuis API
- Afficher dans un tableau



Exercices - API POST

- Générer du JSON
- Envoyer le JSON dans l'API
- Retourner les valeurs du JSON

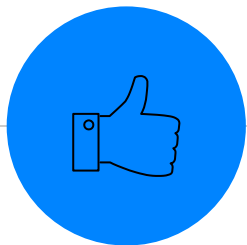


A retenir

REST *c'est bien*

1

Exercices !



Thanks!

Any **questions** ?

You can find me at

- @username
- user@mail.me