

JSON

JavaScript Object Notation

Intro

Format représentant des données

Grande utilisation

Facile a lire/écrire pour de très nombreux langages

Types de données

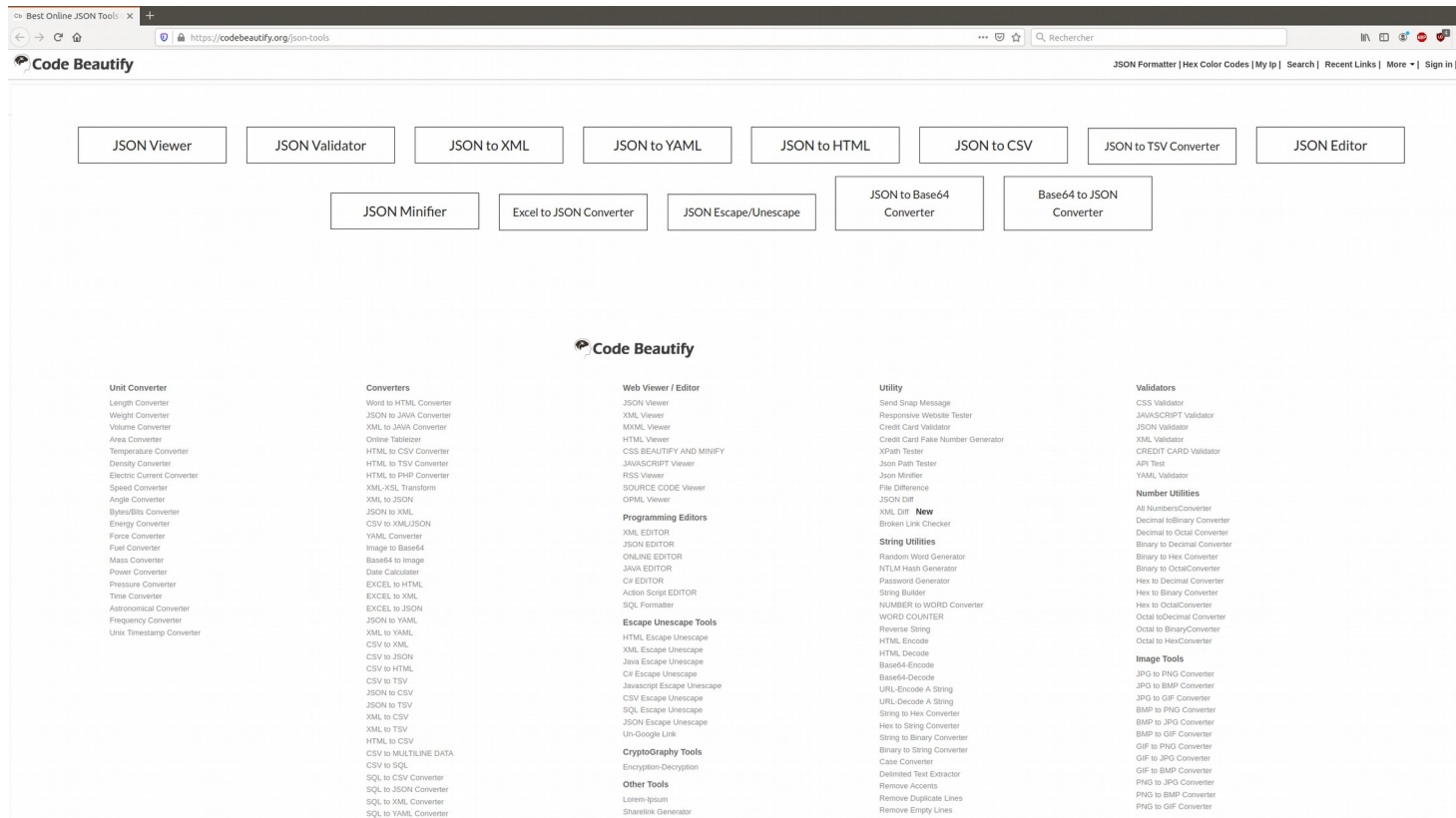
- **Chaines de caracteres**
- **Les chiffres**
- **Tableaux**
- **Booleans**
- **Null**
- **Objets**

Exemple (src : openclassrooms.com)

```
{  
  "voitures" : [  
    { "modèle" : "Peugeot",  
      "couleur" : "bleu",  
      "immatriculation" : 2008,  
      "révisions" : [ 2012, 2014 ]  
    },  
    { "modèle" : "Citroën",  
      "couleur" : "blanc",  
      "immatriculation" : 1999,  
      "révisions" : [ 2003, 2005, 2007, 2009, 2011, 2013 ]  
    }  
  ]  
}
```

Outils : code beautify

<https://codebeautify.org/json-tools>



ALTOLVA

The screenshot displays the Altova XMLSpy 2017 interface for editing a JSON schema named `MusicLibrary.schema.json`.

Schema Structure (Main Workspace):

- Def artist** (Type: Object) is connected to the **Albums** array.
- Albums** (Type: Array) contains an **album** (Type: Object) which is further defined by an **Items** block with a cardinality of `[0]+`.
- The **album** object contains:
 - Name** (Type: String, Constraints: `1 <= length`)
 - Genre** (Type: Any) connected to an **Items (Implicit)** block containing a **Wildcard** (Type: Any).
 - ReleaseDate** (Type: String, Constraints: `pattern: ^[0-9]{4}-[0-9]{2}-[0-9]{2}$`)

Right Sidebar:

- Overview:** Shows the schema file and its definitions: `Def artist`, `Def album`, `Def track`, and `Def genre`.
- Details:** Provides information for the selected **ReleaseDate** property:

Name	ReleaseDate
Occurrence	Optional
Specified	<input checked="" type="checkbox"/>
Reference	
Id	
Title	
Description	
Type	String
Default	
- Constraints:** Shows the regular expression pattern: `^[0-9]{4}-[0-9]{2}-[0-9]{2}$`.

Status Bar: A message indicates "File C:\Users\enc\Documents\Altova\XMLSpy2017\Examples\MusicLibrary.schema.json is valid."

librairies

Python : import json

Java : Package org.json

8th	ColdFusion	Nim	JSON
json	SerializeJSON	Module json	JSON Logo
ActionScript	toJSON	Objective C	Heresy
ActionScript3		NSJSONSerialization	
Ada	Libdjson	json-framework	
GNATCOLL.JSON	Dart	JSONKit	
AdvPL	json library	yajl-objc	
JSON-ADVPL	Delphi	TouchJSON	
APL	Delphi Web Utils	OCaml	
JSON	JSON Delphi Library	jsonm	
ASP	E	PascalScript	
JSON for ASP	JSON in TermL	JsonParser	
JSON ASP utility class	Fantom	Perl	
AWK	Json	CPAN	
JSON.awk	FileMaker	Photoshop	
rhawk	JSON	JSON Photoshop Scripting	
BlitzMax	Fortran	PHP	
bmx-rjson	json-fortran	PHP 5.2	
C	YAJL-Fort	PicoLisp	
JSON_checker	jsonff	picolisp-json	
YAJL	Go	Pike	
LibU	package json	Public.Parser.JSON	
json-c	Groovy	Public.Parser.JSON2	
json-parser	groovy-io	PL/SQL	
jsonsl	Haskell	pljson	
WJElement	RJson package	Prolog	
M's JSON parser	json package	Jekejeke	
cJSON	Java	PureBasic	
Jansson	JSON-java	JSON	
jsmn	JSONUtil	Puredata	
parson	jsonp	PuRestJson	
ujson4c	Json-lib	Python	
nxjson	Stringtree	The Python Standard Library	
frozen	SOJO	simplejson	
microjson	json-taglib	pyson	
mjson	Flexjson	Yajl-Py	
progbase	Argo	ultrajson	
C++	jsonij	metamagic.json	
JSONKit	fastjson	progbase	
jsonme--	mjson	R	
ThorsSerializer	ijson	rjson	
JsonBox	json-simple	jsonlite	
jvar	json-io	Racket	
rapidjson	google-gson	json-parsing	
JSON for Modern C++	FOSS Nova JSON	Rebol	
minijson	Corn CONVERTER	json.r	
jsoncons	Apache johnzon	RPG	
jsoncpp	Genson	JSON Utilities	
univalue	cookjson	Rust	
ArduinoJson	progbase	Serde JSON	
QJson	JavaScript	json-rust	
CAJUN	JSON	Ruby	
libjson	json2.js	yajl-ruby	
nosjob	clarinet	json-stream	
JSON++	Oboe.js	progbase	
JSON library for IoT	progbase	Scheme	
qmjson	LabVIEW	MZScheme	
JSON Support in Qt	flatten	PLT Scheme	
JsonWax for Qt	Lisp	Shell	
progbase	Common Lisp JSON	Jshon	
Qentem-Engine	Emacs Lisp	JSON.sh	
C#	LiveCode	jwalk	
fastJSON	mergJSON	Squeak	
JSON_checker	LotusScript	Squeak	
Jayrock	JSON LS	Tcl	
Json.NET - LINQ to JSON	Lua	JSON	
JSON for .NET	JSON Modules	Visual Basic	
Manatee Json	M	VB-JSON	
FastJsonParser	DataBallet	PWJSON	
LightJson	Matlab	.NET-JSON-Transformer	
liersch.json	JSONlab	progbase	
progbase	20565	Visual FoxPro	
Clojure	23393	fwJSON	
data.json	Net.Data	JSON	
Cobol	netdata-json	vfpjson	
XML Thunder			
Redvers COBOL JSON Interface			