

Guile-Yaml-Json

guile-yaml-json

Training Clarusway

Pear Deck - January 27, 2022 at 8:39PM

Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1



YAML & JSON Essentials

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- ▶ What is YAML?
- ▶ What is JSON?
- ▶ Quick Comparison (YAML vs. JSON)

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What is YAML?

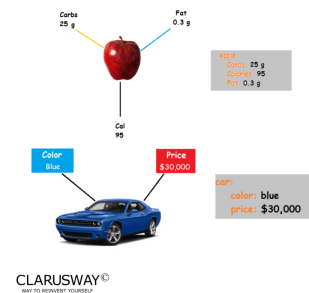


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► What is YAML?



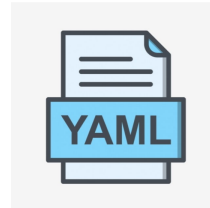
```
YAML
1 yaml:
2   - slim and flexible
3   - better for configuration
4 object:
5   key: value
6 array:
7   - null value:
8   - boolean: true
9   - integer: 1
10 paragraph: >
11   Blank lines denote
12
13 paragraph breaks
14 content: |-
15   or we
16   can auto
17   convert line breaks
18   to save space
```

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► What is YAML?

- **YAML** (a recursive acronym for "**YAML Ain't Markup Language**") is a human-readable data-serialization standard for programming languages.
- It is **commonly used for configuration files** and in applications where **data is being stored or transmitted**.



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► What is YAML?

- The files should have **.yaml** (or **.yml**) as the extension.
- YAML is designed by **Clark Evans**, **Ingy döt Net**, and **Oren Ben-Kiki** (2001).
- <https://yaml.org/>



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Link(s) on this slide:

- <https://yaml.org/>

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► What is YAML?

- The **key-value** is YAML's **basic building block**.
- The key is always a **string**.
- The value is a **scalar** so that it can be various data types.



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2 What is JSON?



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► What is JSON?



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```
1 JSON
2 {
3   "json": [
4     "right",
5     "better for data interchange"
6   ],
7   "yaml": [
8     "like and flexible",
9     "better for configuration"
10  ],
11  "object": {
12    "key": "value",
13    "array": [
14      {
15        "null_value": null
16      },
17      {
18        "boolean": true
19      },
20      {
21        "integer": 1
22      }
23    ]
24  }
```

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► What is JSON?

- **JSON** stands for **JavaScript Object Notation**.
- JSON, is a **minimal, readable format** for **structuring data**. It is used primarily to **transmit data** between a server and web application; and also used for storing data.



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► What is JSON?

- The files should have **.json** as the extension.
- JSON is designed by **Douglas Crockford** (2001).
- <https://json.org/>



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Link(s) on this slide:

- <https://json.org/>

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3 Quick Comparison YAML vs. JSON

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► Quick Comparison



- **YAML** is **best suited for configuration** while **JSON** is better as **a serialization format or serving up data** for your APIs.
- **YAML** has a **couple of big advantages** including the ability to self-reference, support for complex datatypes, embedded block literals, comments, and more.
- Easily convertible to each other.

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Quick Comparison

Type	YAML	JSON
Comments	Denoted with a hash/number sign	Not allowed
Hierarchy	Mappings, and sequences can be nested. Hierarchy is determined by the indentation level	Objects and arrays can be nested, and are denoted by braces and brackets, respectively.
Arrays	[first, second, 3]	["first", "second", 3]
Strings	Does not require quoting but supports both single and double quotes	Must be double-quoted. Allows character (tabs, newlines, etc.) escaping with a backslash as the escape character.
Numbers	Built-in support for integers, floating point, octa and hexadecimal numbers	Floating point numbers in scientific notation. Infinity is not permitted.
Date/Timestamp	Supported	Not supported

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Quick Comparison

```
JSON 1
2 {
3   "fluid": {
4     "better for data interchange"
5   },
6   "yaml": {
7     "slim and flexible",
8     "better for configuration"
9   },
10  "object": {
11    "key": "value",
12    "array": [
13      { "null_value": null
14    },
15    { "boolean": true
16    },
17    { "integer": 1
18    }
19  ]
20 }
21
22
23
24 }

YAML 1
2 json:
3 - fluid
4 - better for data interchange
5 yaml:
6 - slim and flexible
7 - better for configuration
8 object:
9 key: value
10 array:
11 - null_value
12 - boolean: true
13 - integer: 1
14
```

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THANKS!

Any questions?

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