BATCH : BATCH 48

LESSON : **AWS**

DATE : 06.08.2022

SUBJECT : **JSON & YAML**

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YAML

YAML

What is YAML ?

```
# What does YAML mean?
YAML:
    - Y: YAML
    - A: Ain't
    - M: Markup
    - L: Language
```

YAML

What is YAML ?

- Its goal was another markup language, but YAML was filling the role of a data serialization language later, so it was called YAML Ain't Markup Language, which is a recursive acronym.

https://yaml.org/

Attributes of YAML

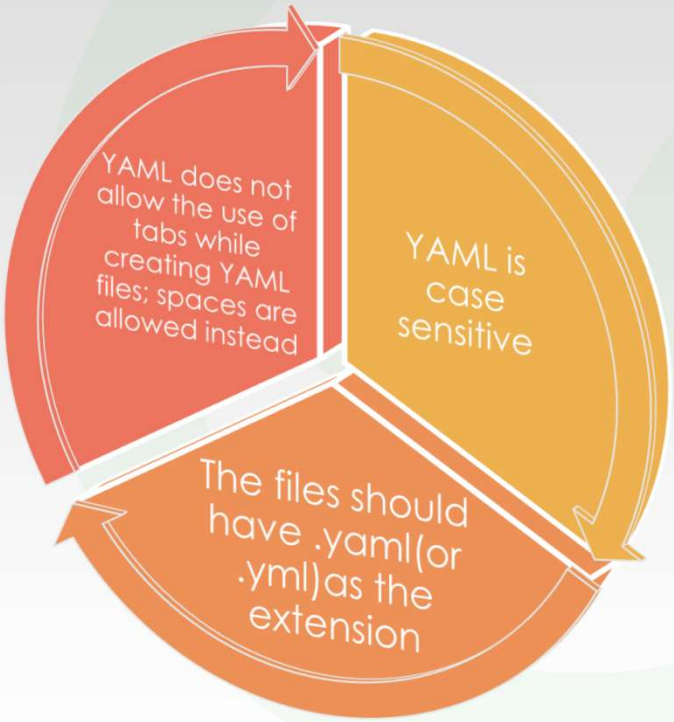
- YAML is human readable.
- YAML is portable.
- YAML works across multiple programming languages easily.
- YAML matches the native data of structures, to agile languages.
- YAML is consistent and is able to support generic tools.
- YAML supports one-pass processing,(when a programming language looks at YAML file, it only needs to go through it once to complete its task.)
- YAML is expressive easy to extend and adapt.
- YAML should be easy to implement and use.

Basics of YAML

- When you are creating a file in YAML, you should remember the following basic rules

YAML does not allow the use of tabs. Spaces are used instead of tabs because tabs are not universally supported.

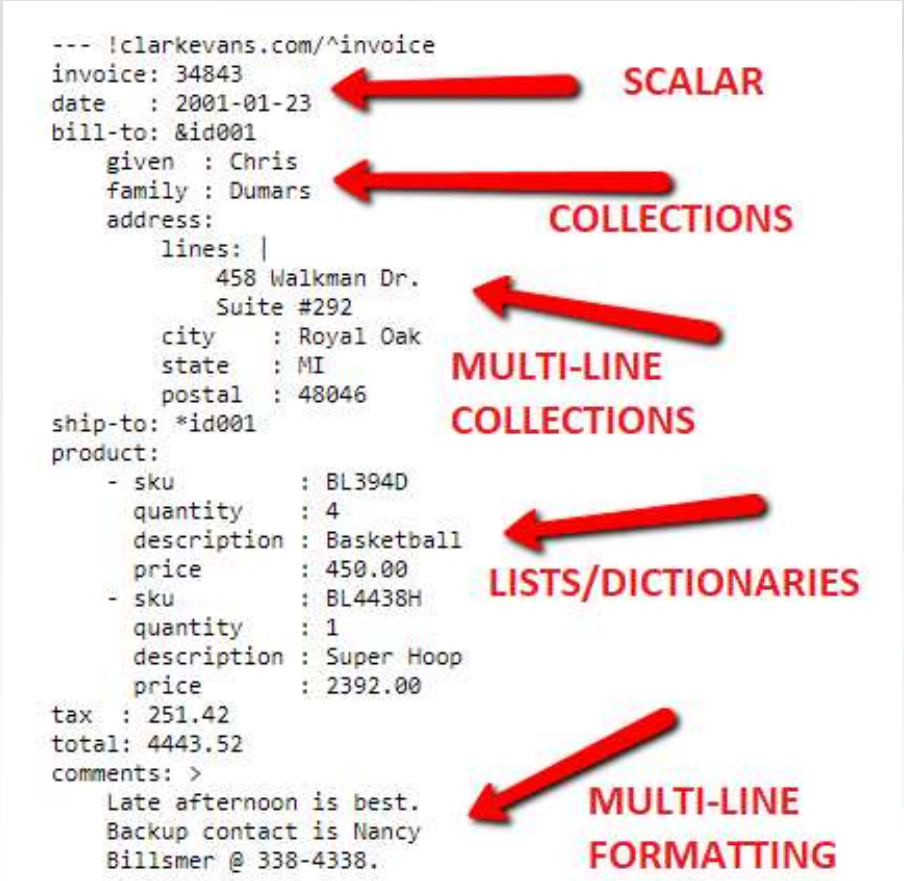
https://yaml.org/



Basics of 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 any data type.

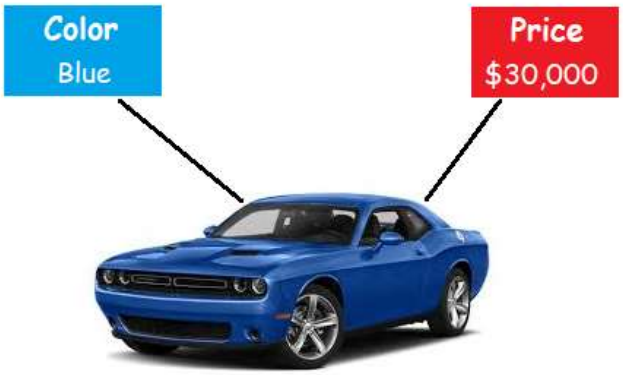
https://yaml.org/



JSON

What is JSON?

- **J**ava**S**cript **O**bject **N**otation



YAML

```
car:
    color: blue
    price: $30,000
```

JSON

```
{
    "car": {
        "color": "blue",
        "price": "$30,000"
    }
}
```

JSON vs YAML

Data Serialization Languages		
JSON	YAML	XML
JavaScript Object Notation	YAML Ain't Markup Language	eXtensible Markup Language
Data Interchange	Data Interchange	Markup Language
2002	2006	1996
Easy to read	Easier to read	A little complex
Fast	Fast	Slow
Map Structure	Map Structure	Tree Structure
.json	.yaml	.xml

- JSON Syntax:JSON is a subset of the JavaScript object notation syntax.
- JSON data stored in **name/value pairs**.
- JSON records separated by **commas.**
- JSON field names & strings are wrapped by **double quotes**.

XML

```
<Servers>
    <Server>
        <name>Server1</name>
        <owner>John</owner>
        <created>12232012</created>
        <status>active</status>
    </Server>
</Servers>
```

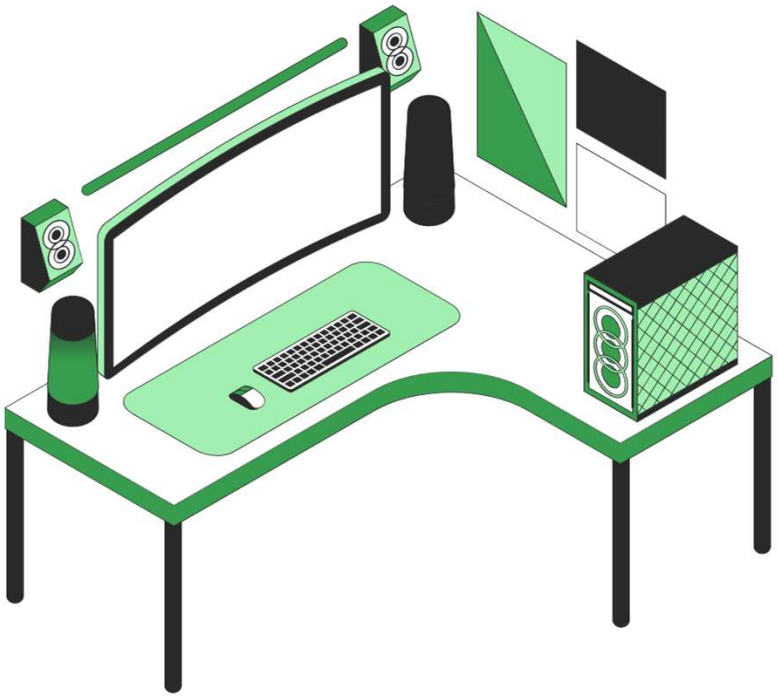
JSON

```
{
    Servers: [
        {
        name: Server1,
        owner: John,
        created: 12232012,
        status: active,
        }
    ]
}
```

YAML

```
Servers:
    -   name: Server1
        owner: John
        created: 12232012
        status: active
```

- YAML Syntax:YAML stands for ain't markup language and is a superset of JSON – You Convert YAML to JSON
- **YAML files begin with '—',** marking the start of the document.
- YAML documents end with '…' but it's optional.
- YAML key value pairs are separated by **colon**.
- YAML lists begin with a hyphen.



Do you have any questions?

Send it to us! We hope you learned something new.

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