

YAML & JSON Essentials





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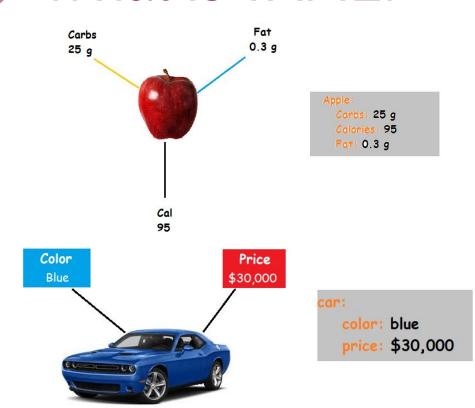












```
YAML
 1 yaml:

    slim and flexible

     - better for configuration
 4 object:
    key: value
    array:
       - null value:
       - boolean: true
       - integer: 1
10 paragraph: >
      Blank lines denote
11
12
      paragraph breaks
13
14 content: |-
15
      Or we
16
      can auto
17
      convert line breaks
18
      to save space
```



- 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.





- 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/







- 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.

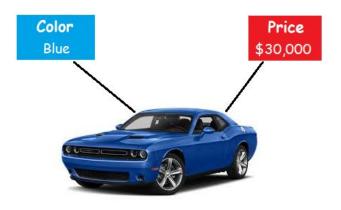












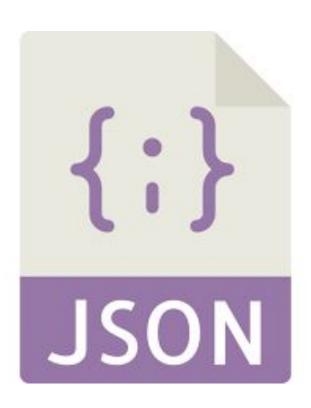
```
{
    "car": {
        "color": "blue",
        "price": "$30,000"
    }
}
```



```
JSON
     "json": [
       "rigid",
       "better for data interchange"
     "yaml": [
       "slim and flexible",
       "better for configuration"
     "object": {
       "key": "value",
11
       "array": [
12
13
           "null value": null
14
15
16
           "boolean": true
17
18
19
           "integer": 1
20
21
22
23
24 }
```

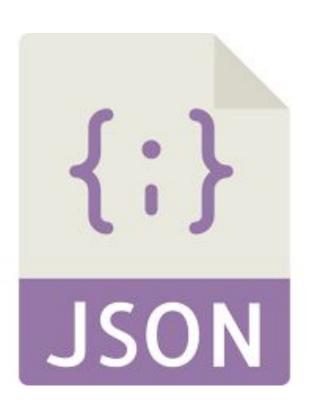


- JSON stands for JavaScript Object Notation.
- JSON, is a minimal, readable format for structuring data. It is used primarily to transmit data between a server and web application; and also used for storing data.





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







Quick Comparison YAML vs. JSON



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.



Quick Comparison

Ar

Туре	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, octal and hexadecimal numbers	Floating point numbers in scientific notation. Infinity is not permitted.
Date/Timestamp	Supported	Not supported



Quick Comparison

```
CCopy YAML
 JSON b
                                          c Copy JSON
                                                       YAML b
                                                       1 ---
     "json": [
                                                       2 json:
       "rigid",
                                                       3 - rigid
       "better for data interchange"
                                                       4 - better for data interchange
                                                       5 yaml:
     "yaml": [
                                                      6 - slim and flexible
       "slim and flexible",
                                                      7 - better for configuration
       "better for configuration"
                                                      8 object:
                                                          key: value
     "object": {
10
                                                          array:
       "key": "value",
11
       "array": [
12
                                                          - integer: 1
           "null value": null
14
                                                     14
16
17
           "boolean": true
18
19
           "integer": 1
20
21
22
23
24 }
```





THANKS! >

Any questions?

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