













JSON cheatsheet

Getting Started

JSON is a lightweight text-based open standard designed for human-readable data interchange.

- JSON stands for JavaScript Object Notation
- JSON is easy to read and write.
- JSON is language agnostic data-interchange format
- JSON filename extension is . json
- JSON Internet Media type is application/json

```
{"name": "Tom", "age": 9, "gender":"M"},
  {"name": "Ava", "age": 7, "gender":"F"}
]
```

```
Series of characters
                                                                                                                true or false
                                                                                                    Ordered sequence of values
                                                                                               String, Number, Boolean, null etc
                                                                                        Unordered collection of key/value pairs
                                                                                                                  Null or Empty
                                                                                                                  Double quote
                                                                                                                      Backslash
                                                                                                                  Forward slash
                                                                                                                     Backspace
                                                                                                                     Form feed
                                                                                                                       Newline
                                                                                                                Carriage return
                                                                                                                            Tab
                                                                                                       Trailed by four hex digits
                                                           Examples
                                                         Invalid String
{ "foo": 'bar' }
Have to be delimited by double quotes
                                                                                           Digits 1-9, 0 and positive or negative
                                                                                                           Fractions like 0.3, 3.9
                                                                                                  Exponent like e, e+, e-, E, E+, E
```

```
Examples
                                                 Invalid Number
In JSON you can use only Decimal Literals
  "empty_object": {}
Multiple key/value pairs separated by a comma
[1, 2, 3, 4, 5]
Begins with [ and ends with ]
    {"name": "Jimmy Smith", "age": 15},
    {"name": "Sammy Sosa", "age": 12}
```

```
"methods": ["getter", "setter"],
"empty_array": []
"my_sequences": [
  [1, 2, 3],
  [10, 11]
  "hobby": ["a", "b"],
```

Access JSON in JavaScript

Access Nested

```
let myObject = {
};
```

myObject.ref.age 2

mvObject["ref"]["age"

ว

```
["Jason", "Doe", 39 ...]
                                                                                                                          "F"
                                                                                                                   undefined
                                                                                                        Access Array of Objects
let myArray = [
  },
  },
];
                                                                                                        {"name": "Jason", ...}
                                                                                                                       "Tom"
                                                                                                                          42
                                                                                                                   undefined
                                                                                                     TypeError: Cannot read...
let myArray = [
```

```
      "M",

      70000,

      true

      ];

      myArray[1]
      "Doe"

      myArray[5]
      true

      myArray[6]
      undefined
```

Also see

JSON (json.org)
JSON Editor Online (jsoneditoronline.org)
Convert JSON Array to Markdown Table, CSV and more (tableconvert.com)



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