JavaScript Object Notation (json) Cheat Sheet

by Emre Coltu (emrecoltu) via cheatography.com/121590/cs/22330/

General Information

- Data is in **key/value** pairs
- Data groups by **colon** ":" and separates by **comma** ","
- Objects are surrounded with **curly braces** "{" and "}"
- Each **key** in objects should be **unique**
- Arrays are surrounded with **square brackets** "[" and "]"
- Light, human-readable **data-interchange** format
- Can be used with **modern** programming languages
- Language **independent**
- The trailing commas and leading zeros are **prohibited**
- Numbers can't have **octal** or **hexadecimal** format
- **Easy** to use and doesn't use full markup like XML
- Popular due to it's **asynchronous** speed
- Extension for Json files is *".json"*
- Mime type for Json texts is *"application/json"*
- Official media type for Json is *"application/json"*
- Json internet media type is *"application/json"*
- The uniform type identifier for Json is *"public.json"*

Data Types

Json	Python	Possible Values
boolean	bool	true **|** false
number	float	123 **|** 123.456 **|** 1234e-3
string	str	"abcdef" **|** ""
array	list	["a", "b", "c", "d"]
object	dict	{"id": 7}
null	None	null

Escape Sequences

Name	Sequence
Double Quote	\"
Backslash	\\
Slash	\/
Backspace (BS)	\b
Form Feed (FF)	\f
Horizontal Tab (HT)	\t
Newline (NL)	\n
Carriage Return (CR)	\r
Hexadecimal	\uXXXX

Arrays

Syntax	Description
arr = []	Empty Array
arr = ["James"]	Single Element Array
arr = ["James", "Bond", 42, "M", {"Germany": " Ber lin "}, true]	Multi Element Array Firstname Lastname Age Sex Location Available

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Objects

Syntax	Description
obj = {}	Empty Object
obj = {"key": value}	Single Element Object

obj = {
"Firstname": " Jan e",
"Lastname": " Doe ",
"Age": 39,
"Sex": " F",
"Location": {"DE ": " Ber lin - "},
"Availability": false
}
	Multi Element Object
	Firstname
	Lastname
	Age
	Sex
	Location
	Availability

Nested Object and Arrays

```
nested = {
    "indexes": {
        "Firstname": 0,
        "Lastname": 1,
        "Age": 2,
        "Sex": 3,
        "Country": 4,
        "Available": 5
    },
    "user": [
        "James",
        "Bond",
        42,
        "M",
        {"Germany": " Ber lin "},
        true
    ]
}
```

Nested Objects and Arrays

```
nested = {
   "defaults": {
      "First": 0,
      "Last": 1,
      "Age": 2,
```

Nested Objects and Arrays (cont)

```
      "Sex": 3,
      "Country": 4,
      "Available": 5
   },
   "husband": [
      "James",
      "Bond",
      "42",
      "T",
      "Germany",
      true
   ],
   "wife": [
      "Jane",
      "Honda",
      "42",
      "T",
      "Germany",
      false
   ]
}
```


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Arrays

array = []	Empty Array
array = ["James"]	Single Element Array
array = [	Multi Element Array
"James",	
"Bond",	
"42",	
"T",	
"Germany",	
true	
]	

Objects

myobject = {}	Empty Object
myobject = {"key": value}	Single Element Object
myobject = {	Multi Element Object
"First": "James",	
"Last": "Bond",	
"Age": "42",	
"Sex": "T",	
"Country": "Germany",	
"Available": true	
}	

Syntax

Syntax	Description
arr = []	Empty Array
arr = ["Username"]	Single Element Array

```
arr = [                                  Multi Elements Array
    "James",
    "Bond",
    42,
    "M",
    {"Germany": " Ber lin "},
    true
]
```

Literals

null
true
false

Data Types

boolean	true, false
number	123, 123.456, 1.234e-3
string	"abcdef", ""
array	["a", "b", "c", "d"]
object	{"id": 7}
null	null

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General Information

- Doesn't have comments. Everything in it is considered data
- Data is in name/value pairs. Grouped by a colon ":" and separated by comma ","
- Objects are surrounded with curly braces. Each key within should be unique and enclosed within the double quotes. An object begins with a left brace "{" and ends with a right brace "}"
- Arrays are surrounded with square brackets. An array begins with a left bracket "[" and ends with a right bracket "]"
- The trailing commas and leading zeros are prohibited
- Numbers can't have octal or hexadecimal format
- Lightweight and human-readable data-interchange format
- Can be used with modern programming languages
- Language independent
- Very easy to parse and generate and doesn’t use a full markup structure like a XML
- Popular alternative to XML format for its fast asynchronous client–server communication
- Extension for json files is ".json"
- Mime type for json texts is "application/json"
- The official media type for json is "application/json".
- json internet media type is "application/json".
- The uniform type identifier is "public.json"

Escape Sequences

Double Quote	\"
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