

i 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 Type	s	
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	V	
Backspace (BS)	\b	
Form Feed (FF)	\f	
Horizontal Tab (HT)	\t	
Newline (NL)	\n	
Carriage Return (CR)	\r	
Hexadecimal	\uXXXX	

Syntax	Description
arr = []	Empty Array
arr = ["James"]	Single Element Array
arr = [Multi Element Array
"James",	Firstname
"Bond",	Lastname
42,	Age
"М",	Sex
{"Germany": "Berlin"},	Location
true	Available
1	



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```
Objects
Syntax
                                             Description
obj = \{\}
                                             Empty Object
obj = {"key": value}
                                            Single Element
                                                Object
                                          Multi Element Object
obj = {
                                              Firstname
    "Firstname": "Jane",
                                              Lastname
    "Lastname": "Doe",
                                                 Age
    "Age": 39,
                                                 Sex
    "Sex": "F",
                                               Location
    "Location": {"DE": "Ber-
                                              Availability
    "Availability": false
```

```
■ Nested Object and Arrays

nested = {
    "indexes": {
        "Firstname": 0,
        "Lastname": 1,
        "Age": 2,
        "Sex": 3,
        "Country": 4,
        "Available": 5
    },
    "user": [
        "James",
        "Bond",
        42,
        ими,
        {"Germany": "Berlin"},
        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	
]	

Syntax	Description
arr = []	Empty Array
arr = ["Username"]	Single Element Array
arr = [Multi Elements Array
"James",	
"Bond",	
42,	
"М",	
{"Germany": "Berlin"},	
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	
}	

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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	
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