

Introducing JSON

Вылгарски 中文 Český Dansk Nederlands <mark>English</mark> Esperanto Français Deutsch Ελληνικά עברית Magyar Indonesia Italiano 日本 한국어 فارسی Polski Português Română Русский Српско-хрватски Slovenščina Español Svenska Türkçe Українська Tiếng Việt

ECMA-404 The JSON Data Interchange Standard.

JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

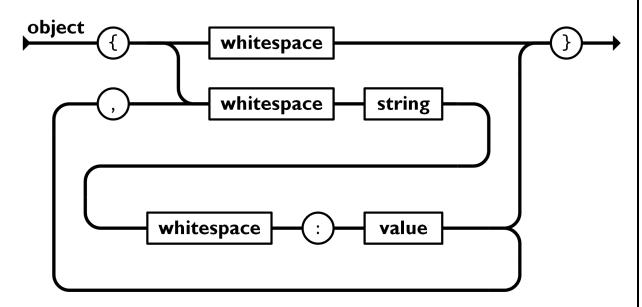
JSON is built on two structures:

A collection of name/value pairs. In various languages, this is realized as an *object*, record, struct, dictionary, hash table, keyed list, or associative array. An ordered list of values. In most languages, this is realized as an *array*, vector, list, or sequence.

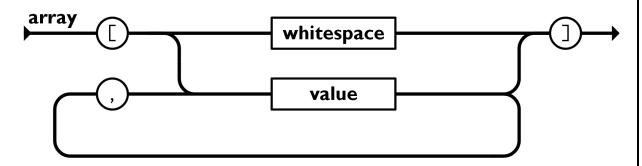
These are universal data structures. Virtually all modern programming languages support them in one form or another. It makes sense that a data format that is interchangeable with programming languages also be based on these structures.

In JSON, they take on these forms:

An *object* is an unordered set of name/value pairs. An object begins with { *left brace* and ends with } *right brace*. Each name is followed by : *colon* and the name/value pairs are separated by , *comma*.

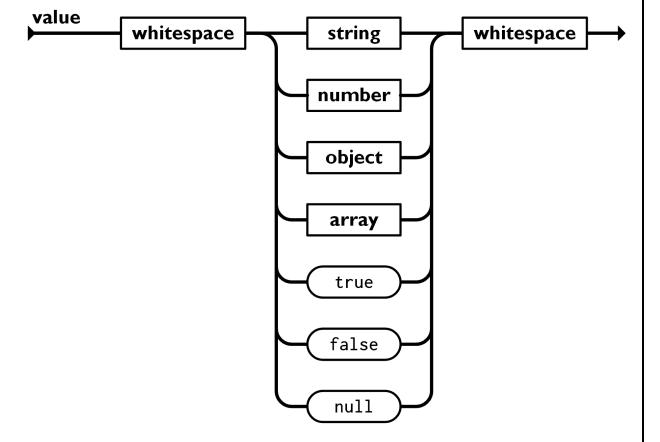


An array is an ordered collection of values. An array begins with [left bracket and ends with] right bracket. Values are separated by , comma.

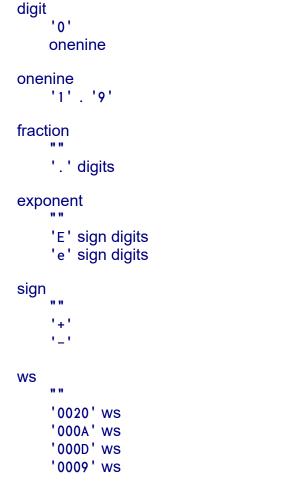


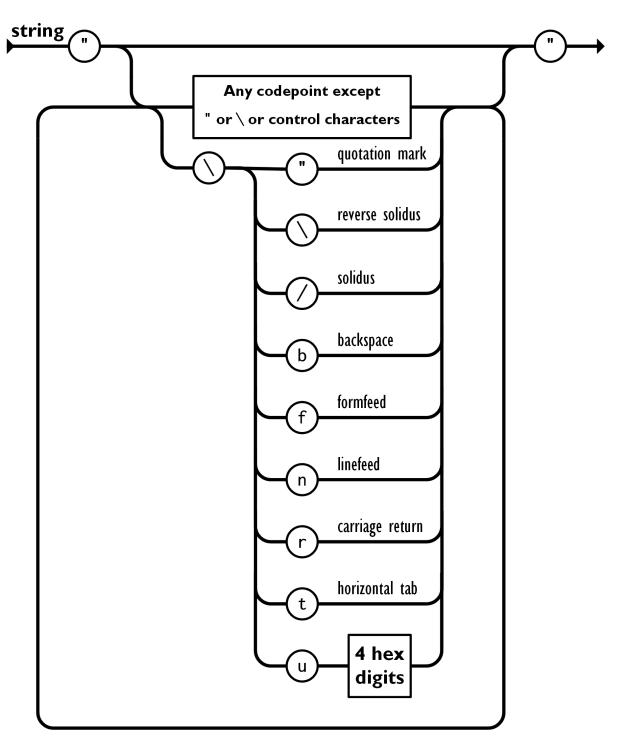
A *value* can be a *string* in double quotes, or a *number*, or true or false or null, or an *object* or an *array*. These structures can be nested.

```
json
    element
value
    object
    array
    string
    number
    "true"
    "false"
    "null"
object
     '{' ws '}'
     '{' members '}'
members
    member
    member ',' members
member
    ws string ws ': ' element
array
     '[' ws ']'
    '[' elements ']'
elements
    element
    element ', ' elements
element
    ws value ws
string
     "' characters '"'
characters
    character characters
character
     '0020' . '10FFFF' - '"' - '\'
     '\' escape
escape
     'n'
    't'
     'u' hex hex hex hex
hex
    digit
    'A' . 'F'
    'a' . 'f'
number
    integer fraction exponent
integer
    digit
    onenine digits
    '-' digit
    '-' onenine digits
digits
    digit
    digit digits
```

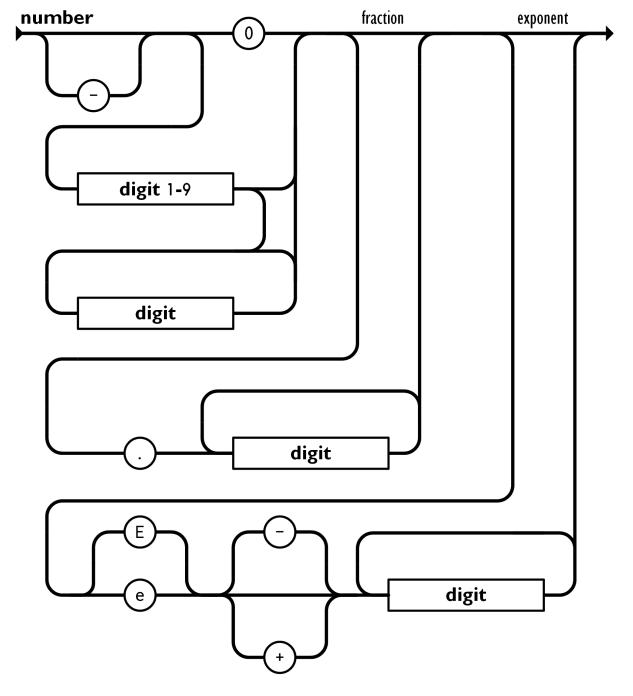


A *string* is a sequence of zero or more Unicode characters, wrapped in double quotes, using backslash escapes. A character is represented as a single character string. A string is very much like a C or Java string.

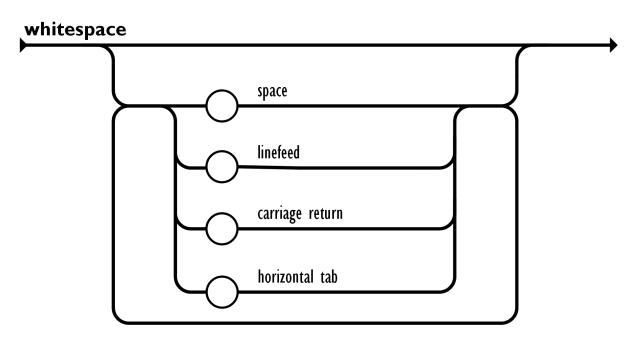




A *number* is very much like a C or Java number, except that the octal and hexadecimal formats are not used.



Whitespace can be inserted between any pair of tokens. Excepting a few encoding details, that completely describes the language.



8th	ColdFusion	Net.Data	
json	SerializeJSON	netdata-json	
ActionScript	D	Nim	
ActionScript3	std.json	Module json	
Ada	asdf	Objective C	
GNATCOLL.JSON	vibe.data.json	NSJSONSerialization	
AdvPL	Dart	json-framework	
JSON-ADVPL	json library	JSONKit	
APL	Delphi	yajl-objc	
□JSON	Delphi Web Utils	TouchJSON	
ASP	JSON Delphi Library	OCaml	
JSON for ASP	E	jsonm	
JSON ASP utility class	JSON in TermL	PascalScript	
AWK	Erlang	JsonParser	
JSON.awk	erl-json	Perl	
rhawk	Fantom	CPAN	
BlitzMax	Json	Photoshop	
bmx-rjson	FileMaker	JSON Photoshop Scripting	
C	JSON	PHP	
JSON_checker	Fortran	PHP 5.2	
YAJL [—]	json-fortran	PicoLisp	
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json-c	jsonff	Pike	
json-parser	Go	Public.Parser.JSON	
jsonsl	package json	Public.Parser.JSON2	
WJElement	Groovy	PL/SQL	
M's JSON parser	groovy-io	pljson	
cJSON	Haskell	PureBasic	
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	jsmn		json package	Pure	data
	parson	Java	Je e e Presenta	PuRestJson	
	ujson4c		JSON-java	Pyth	
	frozen		JSONUtil	1)	The Python Standard Library
	microjson		jsonp		simplejson
	mjson		Json-lib		pyson
	progbase		Stringtree		Yajl-Py
	lwjson		SOJO		ultrajson
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	ThorsSerializer		fastjson		jsonlite
	JsonBox		•	Rack	•
			mjson	Rack	
	jvar		jjson	Rebo	json-parsing
	rapidjson JSON for Modern C++		json-simple	Rebo	
			json-io	D DC	json.r
	minijson		google-gson	RPG	
	jsoncons		FOSS Nova JSON	D 4	JSON Utilities
	jsoncpp		Corn CONVERTER	Rust	
	univalue		Apache johnzon		Serde JSON
	ArduinoJson		Genson	D 1	json-rust
	QJson		cookjson	Rub	•
	CAJUN		progbase		yajl-ruby
	libjson		jackson		json-stream
	nosjob		MOXy		progbase
	JSON library for IoT	JavaScript		Scal	
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	JSON_checker	Lisp			jwalk
	Json.NET		Common Lisp JSON	Sque	eak
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	FastJsonParser	Lotus	sScript		JSON
	LightJson		JSON LS	Visu	al Basic
	Liersch.Json	Lua			VB-JSON
	Liersch.JsonSerialization		JSON Modules		PW.JSON
	progbase	M			.NET-JSON-Transformer
	JSON Essentials		DataBallet		progbase
Clojure		Matlab		Visu	al FoxPro
data.json		JSONlab		•	fwJSON
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 Heresy & Heretical Open Source: A Heretic's Perspective
 How JavaScript Works by Douglas Crockford