

JavaScript Object Notation (JSON)

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Discussion

JavaScript Object Notation (JSON) provides a lightweight, text-based syntax for structured data interchange. JSON represents data using objects, arrays, names, values, strings, numbers, booleans, and null values.

JSON supports data exchange across programming languages, [APIs](#), message formats, configuration files, event payloads, reports, and implementation artefacts.

JSON differs from [schema](#). JSON provides a data-interchange syntax. A schema defines structure, permitted values, relationships, and constraints for a defined representation context. JSON Schema, when used, constrains JSON documents.

JSON also differs from [semantics](#). JSON syntax alone does not establish domain meaning. JSON expresses semantic content when names, values, structures, schemas, vocabularies, rules, and traceability preserve defined domain meaning.

Definition

lightweight, text-based syntax for structured data interchange using objects, arrays, names, and values

Source

ECMA-404 The JSON Data Interchange Syntax; specialised for use in the FX Demo Reference Architecture.

Note

JSON is a syntax, not a semantic model. A JSON document gains domain meaning from its schema, vocabulary, field definitions, type system, rules, API contract, report model, or other authoritative semantic source.

Example

A JSON trade message represents selected FX trade information as name-value pairs:

```
{  
  "tradeIdentifier": "Trade-123",  
  "currencyPair": "EUR/USD",  
  "notionalAmount": 1000000,  
  "tradeDate": "2026-07-07",  
  "settlementDate": "2026-07-09"  
}
```

The JSON syntax represents the data. The associated schema, type system, conceptual model, and business rules define the meaning of tradeIdentifier, currencyPair, notionalAmount, tradeDate, and settlementDate.

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