

Difference Between Json And Xml

Protocol developers define data structures in ASN.1 modules, which are generally a section of a broader standards document written in the ASN.1 language. The advantage is that the ASN.1 description of the data encoding is independent of a particular computer or programming language. Because ASN.1 is both human-readable and machine-readable, an ASN.1 compiler can compile modules into libraries of code, codecs, that decode or encode the data structures. Some ASN.1 compilers can produce code to encode or decode several encodings, e.g. packed, BER or XML. 1416f4130e Uses of serialization include: 1416f4130e In HTML and XML, a numeric character reference refers to a character by its Universal Coded Character Set/Unicode code point, and uses the format: `&#xhhhh;` or `&#nnn;` where the x must be lowercase in XML documents, hhhh is the code point in hexadecimal form and nnn is the code point in decimal form. The hhhh (or nnn) may be any number of hexadecimal (or decimal) digits and may include leading zeros. The hhhh for hexadecimal digits may mix uppercase and lowercase letters, though uppercase is the usual style. The XML and HTML standards restrict the usable code points to a set of valid values, which is a subset of UCS/Unicode code point values, that excludes all code points assigned to non... 1416f4130e

Document-oriented database self-contained units that encapsulate and encode data in a standardized format. Common encoding formats include XML, YAML, JSON, as well as binary representations A document-oriented database, or document store, is a computer program and data storage system designed for storing, retrieving, and managing document-oriented information, also known as semi-structured data 1416f4130e

a server running on a computer device, listening for requests at a particular port over a network, serving web documents (HTML, JSON, XML, images). 1416f4130e is another common pronunciation. 1416f4130e UserLand supported XML-RPC from version 5.1 of its Frontier web content management system, released in June 1998. 1416f4130e ASN.1 is a joint standard of the International Telecommunication Union Telecommunication Standardization Sector (ITU-T) in ITU-T Study Group 17 and International Organization for Standardization/International Electrotechnical Commission (ISO/IEC), originally defined in 1984 as part of CCITT X.409:1984. In 1988, ASN.1 moved to its own standard, X.208, due to wide... 1416f4130e Document-oriented databases are one of the main categories of NoSQL databases, and the popularity of the term "document-oriented database" has grown alongside the adoption of NoSQL itself. XML databases are a subclass of document-oriented databases optimized for XML documents. Graph databases are similar in the way the store the raw data, but add another layer, the relationship, which allows them to link documents for rapid traversal. 1416f4130e Document-oriented databases are conceptually an extension of the key-value store, another type of NoSQL database. In key-value stores, data is treated as opaque by the database, whereas document-oriented systems exploit the internal structure of documents to extract metadata and optimize storage and queries. Although in practice the distinction can be minimal due to modern tooling, document stores are designed to provide a richer programming experience with modern programming techniques. 1416f4130e This process of serializing an object is also called marshalling in some situations. The opposite operation, extracting a data structure from a series of bytes, is deserialization (also called unserialization or unmarshalling). 1416f4130e == Technical definition == 1416f4130e The 2017 international standard (ECMA-404 and ISO/IEC 21778:2017) specifies that "JSON" is "pronounced , as in 'Jason and The Argonauts'". The first (2013) edition of ECMA-404 did not address the pronunciation. Crockford said in 2011, "There's a lot of argument about how you pronounce that, but I strictly don't care." 1416f4130e In networking equipment hardware, the part that is responsible for serialization and deserialization is commonly called SerDes. 1416f4130e The XML-RPC protocol was created in 1998 by Dave Winer of UserLand Software and Microsoft, with Microsoft seeing the protocol as an essential part of scaling up its efforts in business-to-business e-commerce. As new functionality was introduced, the standard evolved into what is now SOAP. 1416f4130e In practice, a web service commonly provides an object-oriented web-based interface to a database server, utilized for example by another web server, or by a mobile app, that provides a user interface to the end-user. Many organizations that provide data in formatted HTML pages will also provide that data on their server as XML or JSON, often through a Web service to allow syndication. Another application offered to the end-user may be a mashup, where a Web server consumes several Web services at different machines and compiles the content into one user interface. 1416f4130e Document databases differ significantly from traditional relational... 1416f4130e

ASN.1 Tool support for Abstract Syntax Notation One (ASN. It is broadly used in telecommunications and computer networking, and especially in cryptography. tools support the full range of possible constraints expressions. XML schema and JSON schema both support similar constraints concepts. 1) is a standard interface description language (IDL) for defining data structures that can be serialized and deserialized in a cross-platform way 1416f4130e

List of XML and HTML character entity references This article lists the character entity references that are valid in HTML and XML documents. In SGML, HTML

and XML documents, the logical constructs known as character data and attribute values consist of sequences of characters, in which each character can manifest directly (representing itself), or can be represented by a series of characters called a character reference, of which there are two types: a numeric character reference and a character entity reference

== History ==

YAML 15 June 2021. } mixed in the same file). It is commonly used for configuration files and in applications where data is being stored or transmitted. with JSON. "YAML vs JSON vs XML in Go". It uses Python-style indentation to indicate nesting and does not require quotes around most string values (it also supports JSON style [. YAML targets many of the same communications applications as Extensible Markup Language (XML) but has a minimal syntax that intentionally differs from Standard Generalized Markup Language (SGML). "Differences Between YAML (YAML) is a human-readable data serialization language. Archived from the original on 24 January 2024. Medium.] and {. Retrieved 31 January 2024

XML-RPC's idea of a human-readable-and-writable, script-parsable standard for HTTP-based requests and responses has also been implemented in competing specifications such as Allaire's Web Distributed Data Exchange (WDDX) and webMethod's Web Interface Definition Language (WIDL). Prior art wrapping COM, CORBA, and Java RMI objects in XML syntax and transporting them via HTTP also existed in DataChannel's WebBroker technology. A web feed...

XML-RPC The XML-RPC protocol was created XML-RPC is a remote procedure call (RPC) protocol which uses XML to encode its calls and HTTP as a transport mechanism. XML-RPC is a remote procedure call (RPC) protocol which uses XML to encode its calls and HTTP as a transport mechanism

== Naming and pronunciation ==

Web feed (2005–2007) JSON Feed (2017–2020) Although RSS formats have evolved since March 1999, the RSS icon ("") first gained widespread use between 2005 and 2006. The On the World Wide Web, a web feed (or news feed) is a data format used for providing users with frequently updated content. Users typically subscribe to a feed by manually entering the URL of a feed or clicking a link in a web browser or by dragging the link from the web browser to the aggregator, thus "RSS and Atom files provide news updates from a website in a simple form for your computer. Content distributors syndicate a web feed, thereby allowing users to subscribe a channel to it by adding the feed resource address to a news aggregator client (also called a feed reader or a news reader). "

Semi-structured data may be human-generated or machine-generated. It may be part of an unstructured document such as narrative text or may encompass unstructured data such as free-form comments. It may be intended to be read by humans, to be shared between software services or applications whose data models are not fully consistent, or to be transmitted from sensors or other devices to computers. Optical character recognition in combination with intelligent document processing can convert semi-structured data appearing on printed... In a web service, a web technology such as HTTP is used for transferring machine-readable file formats such as XML and JSON. The generic use of XML for remote procedure call (RPC) was patented by Phillip Merrick, Stewart Allen, and Joseph Lapp in April 2006, claiming benefit to a provisional application filed in March 1998. The patent was assigned to webMethods... == Character reference overview ==

JSON It is a commonly used data format with diverse uses in electronic data interchange, including that of web applications with servers. language used to map between XML and JSON Smile (data interchange format) UBJSON, a binary computer data interchange format imitating JSON, but requiring fewer JSON (JavaScript Object Notation, pronounced or) is an open standard file format and data interchange format that uses human-readable text to store and transmit data objects consisting of name–value pairs and arrays (or other serializable values)

Serialization g. data streams over computer networks) and reconstructed later (possibly in a different computer environment). For many complex objects, such as those that make extensive use of references, this process is not straightforward. XML is an open format and standardized as a W3C recommendation. files in secondary storage devices, data buffers in primary storage devices) or transmitted (e. g. When the resulting series of bits is reread according to the serialization format, it can be used to create a semantically identical clone of the original object. JSON is a lightweight In computing, serialization (or serialisation, also referred to as pickling in Python) is the process of translating a data structure or object state into a format that can be stored

(e. structured data between client and server in Ajax web applications. Serialization of objects does not include any of their associated methods with which they were previously linked 1416f4130e

== Uses == 1416f4130e

Web service requests at a particular port over a network, serving web documents (HTML, JSON, XML, images). [citation needed] In a web service, a web technology such as A web service (WS) is either: 1416f4130e

a service offered by an electronic device to another electronic device, communicating with each other via the Internet, or 1416f4130e

Semi-structured data sensors, and interconnected hardware components generate periodic metrics packaged in JSON or XML. The data is said to have a self-describing structure. Automated webhooks, clickstream tracking data, and web API Semi-structured data is a form of structured data that is not rigidly structured. The data model associated with semi-structured data is interpreted when the data is read from a data storage medium or accessed in memory. Instead, semi-structured data includes delimiter characters or tags to separate semantic elements or to describe relationships among records and fields within the data. The data model need not conform to a predefined database schema and is not optimized for succinct, low-overhead streaming or persistent storage as is normal with a relational database, graph database, data table, or graph 1416f4130e

Douglas Crockford originally specified the JSON format in the early 2000s, and sent the first JSON message in April 2001 with Chip Morningstar. 1416f4130e JSON is a programming language-independent data format. It was derived from JavaScript, but many modern programming languages include code to generate and parse JSON-format data. JSON filenames use the extension .json. 1416f4130e The kinds of content delivered by a web feed are typically HTML (webpage content) or links to webpages and other kinds of digital media. Often, when websites provide web feeds to notify users of content updates, they only include summaries in the web feed rather than the full content itself. Many news websites, weblogs, schools and podcasters operate web feeds. As web feeds are designed to be machine-readable rather than human-readable they can also be used to automatically transfer information from one website to another without any human intervention. 1416f4130e Custom data types are allowed, but YAML natively encodes scalars (such as strings, integers, and floats), lists, and associative arrays (also known as maps, dictionaries or hashmaps). These data types are based on the Perl programming language, though all commonly used high-level programming languages share very similar concepts. The colon-centered syntax, used for expressing key-value pairs, is inspired by electronic mail headers as defined in RFC 822, and the document separator --- is borrowed from MIME (RFC 2046). Escape sequences are reused from C, and whitespace wrapping for multi-line strings is inspired by HTML. Lists and hashes can contain... 1416f4130e

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