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RDF Current Status

- [completed work](#) — including [standards](#) •
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This page summarizes the relationships among specifications, whether they are finished standards or drafts. Below, each title links to the most recent version of a document.

Completed Work

[W3C Recommendations](#) have been reviewed by W3C Members, by software developers, and by other W3C groups and interested parties, and are endorsed by the Director as Web Standards. Learn more about the [W3C Recommendation Track](#).

[Group Notes](#) are *not* standards and do not have the same level of W3C endorsement.

Standards

[Linked Data Platform 1.0](#)

[2015-](#)

[02-26](#)

A set of best practices and simple approach for a read-write Linked Data architecture, based on HTTP access to web resources that describe their state using RDF.

[RDF Schema 1.1](#)

[2014-](#)

[02-25](#)

The Resource Description Framework (RDF) is a general-purpose language for representing information in the Web. This specification describes how to use RDF to describe RDF vocabularies. This specification defines a vocabulary for this purpose and defines other built-in RDF vocabulary initially specified in the RDF Model and Syntax Specification.

[2014-](#)

[02-25](#)

[RDF 1.1 TriG](#)

This document defines a textual syntax for RDF called TriG that allows an RDF dataset to be completely written in a compact and natural text form, with abbreviations for common usage patterns and datatypes. TriG is an extension of the Turtle format.

[RDF 1.1 Semantics](#)

[2014-](#)

[02-25](#)

This document describes a precise semantics for the Resource Description Framework 1.1 and RDF Schema. It defines a number of distinct entailment regimes and corresponding patterns of entailment. It is part of a suite of documents which comprise the full specification of RDF 1.1.

[RDF 1.1 XML Syntax](#)

The Resource Description Framework (RDF) is a general-purpose language for representing information in the Web.

[2014-](#)

[02-25](#)

This document defines an XML syntax for RDF called RDF/XML in terms of Namespaces in XML, the XML Information Set and XML Base. The formal grammar for the syntax is annotated with actions generating triples of the RDF graph as defined in RDF Concepts and Abstract Syntax. The triples are written using the N-Triples RDF graph serializing format which enables more precise recording of the mapping in a machine processable form. The mappings are recorded as tests cases, gathered and published in RDF Test Cases.

[2014-](#)

[02-25](#)

[RDF 1.1 N-Quads](#)

N-Quads is a line-based, plain text format for encoding an RDF dataset.

[RDF 1.1 Concepts and Abstract Syntax](#)

The Resource Description Framework (RDF) is a framework for representing information in the Web. RDF 1.1 Concepts and Abstract Syntax defines an abstract syntax (a data model) which serves to link all RDF-based languages and specifications. The abstract syntax has two key data structures: RDF graphs are sets of subject-predicate-object triples, where the elements may be IRIs, blank nodes, or datatyped literals. They are used to express descriptions of resources. RDF datasets are used to organize collections of RDF graphs, and comprise a default graph and zero or more named graphs. This document also introduces key concepts and terminology, and discusses datatyping and the handling of fragment identifiers in IRIs within RDF graphs.

[2014-](#)

[02-25](#)

[RDF 1.1 N-Triples](#)

N-Triples is a line-based, plain text format for encoding an RDF graph.

[RDF 1.1 Turtle](#)

[2014-](#)

[02-25](#)

The Resource Description Framework (RDF) is a general-purpose language for representing information in the Web.

[2014-](#)

[01-16](#)

[JSON-LD 1.0](#)

A common JSON representation format for expressing directed graphs; mixing both Linked Data and non-Linked Data in a single JSON document.

[JSON-LD 1.0 Processing Algorithms and API](#)

[2014-](#)

[01-16](#)

An Application Programming Interface and a set of algorithms for programmatically transforming JSON-LD documents in order to make them easier to work with in programming environments like JavaScript, Python, and Ruby.

[Internationalization Tag Set \(ITS\) Version 2.0](#)

[2013-](#)

[10-29](#)

This document defines data categories and their implementation as a set of elements and attributes called the Internationalization Tag Set (ITS) 2.0. ITS 2.0 is the successor of [ITS 1.0](#); it is designed to foster the creation of multilingual Web content, focusing on HTML5, XML based formats in general, and to leverage localization workflows based on the XML Localization Interchange File Format (XLIFF). In addition to HTML5 and XML, algorithms to convert ITS attributes to RDFa and NIF are provided.

[2012-](#)

[12-11](#)

[rdf:PlainLiteral: A Datatype for RDF Plain Literals \(Second Edition\)](#)

Add content here.

[RDF Semantics](#)

[2004-](#)

[02-10](#)

This is a specification of a precise semantics, and corresponding complete systems of inference rules, for the Resource Description Framework (RDF) and RDF Schema (RDFS).

[RDF Test Cases](#)

[2004-](#)

[02-10](#)

This document describes the RDF Test Cases deliverable for the RDF Core Working Group as defined in the Working Group's Charter.

[Resource Description Framework \(RDF\): Concepts and Abstract Syntax](#)

[2004-](#)

[02-10](#)

The Resource Description Framework (RDF) is a framework for representing information in the Web.

RDF Concepts and Abstract Syntax defines an abstract syntax on which RDF is based, and which serves to link its concrete syntax to its formal semantics. It also includes discussion of design goals, key concepts, datatyping, character normalization and handling of URI references.

[RDF Primer](#)

[2004-](#)

[02-10](#)

The Resource Description Framework (RDF) is a language for representing information about resources in the World Wide Web. This Primer is designed to provide the reader with the basic knowledge required to effectively use RDF. It introduces the basic concepts of RDF and describes its XML syntax. It describes how to define RDF vocabularies using the RDF Vocabulary Description Language, and gives an overview of some deployed RDF applications. It also describes the content and purpose of other RDF specification documents.

Group Notes

[Linked Data Patch Format](#)

[2015-07-28](#)

Linked Data Patch Format (LD Patch) defines a language for expressing a sequence of operations to apply to Linked Data resources; it is suitable for use with the HTTP PATCH method.

[Linked Data Platform Paging 1.0](#)

[2015-06-30](#)

This document describes a HTTP-based protocol for clients and servers to be able to efficiently retrieve large Linked Data Platform Resource representations by splitting up the responses into separate URL-addressable page resources.

[Microdata to RDF – Second Edition](#)

[2014-12-16](#)

HTML microdata [MICRODATA] is an extension to HTML used to embed machine-readable data into HTML documents. Whereas the microdata specification describes a means of markup, the output format is JSON. This specification describes processing rules that may be used to extract RDF [RDF-CONCEPTS] from an HTML document containing microdata.

[RDF 1.1 Primer](#)

[2014-06-24](#)

The Resource Description Framework (RDF) is a language for representing information about resources in the World Wide Web. This primer is designed to provide the reader with the basic knowledge required to effectively use RDF. It introduces the basic concepts of RDF and shows concrete examples of the use of RDF.

[vCard Ontology - for describing People and Organizations](#)

[2014-05-22](#)

The document describes a mapping of the vCard specification (RFC6350) to RDF/OWL. The goal is to promote the use of vCard for the description of people and organisations utilising semantic web techniques and allowing compatibility with traditional vCard implementations.

[RDF 1.1 Test Cases](#)

[2014-02-25](#)

This document lists the test suites and implementation reports for RDF 1.1 Semantics as well as the various serialization formats.

[What's New in RDF 1.1](#)

[2014-02-25](#)

The Resource Description Framework (RDF) is a language for representing information about resources in the World Wide Web. This document is intended to provide the reader with a summary of changes to RDF introduced in RDF version 1.1.

[2014-02-25](#)

[RDF 1.1: On Semantics of RDF Datasets](#)

RDF defines the concept of RDF datasets, a structure composed of a distinguished RDF graph and zero or more named graphs, being pairs comprising an IRI or blank node and an RDF graph. While RDF graphs have a formal model-theoretic semantics that determines what arrangements of the world make an RDF graph true, no agreed formal semantics exists for RDF datasets. This document presents some issues to be addressed when defining a formal semantics for datasets, as they have been discussed in the RDF 1.1 Working Group, and specify several semantics in terms of model theory, each corresponding to a certain design choice for RDF datasets.

[**RDF 1.1 JSON Alternate Serialization \(RDF/JSON\)**](#)

[2013-11-07](#) The Resource Description Framework (RDF) is a framework for representing information in the Web. This document defines a textual syntax for RDF called RDF/JSON that allows an RDF graph to be completely written in a form compatible with the JavaScript Object Notation (JSON) [RFC4627] and alternative to the one recommended in JSON-LD [JSON-LD]. The syntax defined in this document should not be used unless there is a specific reason to do so. Use of JSON-LD is recommended.

[**Linked Data Glossary**](#)

[2013-06-27](#) The Linked Data Glossary contains terms defined and used to describe Linked Data, and its associated vocabularies and best practices related to publishing structured data on the Web using open Web standards.

[2011-03-03](#) [**Describing Linked Datasets with the VOID Vocabulary**](#)

[**XML Schema Datatypes in RDF and OWL**](#)

[2006-03-14](#) The RDF and OWL Recommendations use the simple types from XML Schema. This document addresses three questions left unanswered by these Recommendations: Which URIref should be used to refer to a user defined datatype? Which values of which XML Schema simple types are the same? How to use the problematic `xsd:duration` in RDF and OWL? In addition, we further describe how to integrate OWL DL with user defined datatypes (in appendix B).

[**LBase: Semantics for Languages of the Semantic Web**](#)

[2003-10-10](#) This document describes a mechanism for providing a precise semantics for the Semantic Web Languages (referred to as SWELs from now on. The purpose of this is to define clearly the consequences and allowed inferences from constructs in these languages.

Obsolete Specifications

These specifications have either been superseded by others, or have been abandoned. They remain available for archival purposes, but are not intended to be used.

Retired

[2012-07-05](#) [**RDF Interfaces**](#)

The RDF Interfaces Specification defines a set of standardized interfaces for working with RDF data in a programming environment.

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