

# Resource Description Framework (RDF)

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## Discussion

The Resource Description Framework (RDF) is a W3C framework for representing information on the Web. RDF represents information as graphs composed of statements about resources, properties, and values.

W3C defines RDF as a framework for representing information in the Web and defines RDF graphs as sets of subject-predicate-object triples. W3C also defines RDF as an abstract syntax that links RDF-based languages and specifications, including RDF semantics, serialization syntaxes, SPARQL, and RDF Schema. :contentReference[oaicite:0]{index=0}

RDF provides a graph-based representation framework. RDF differs from [OWL](#). OWL provides an [ontology\\_language](#) for the Semantic Web. RDF provides the underlying graph representation framework used by RDF-based languages and specifications.

RDF expresses semantic content when RDF statements use governed vocabularies, defined terms, controlled identifiers, and traceable domain meanings. RDF syntax alone does not establish the intended [semantic](#) of a domain.

## Definition

*framework for representing information as graph-based statements about resources, properties, and values*

## Source

W3C Resource Description Framework (RDF) 1.1 Concepts and Abstract Syntax; specialised for use in the FX Demo Reference Architecture.

## Note

RDF is not equivalent to [ontology](#), [owl](#), or [semantic](#). RDF provides a representation framework. Ontologies, vocabularies, schemas, rules, and applications provide additional semantic commitments.

## Example

An RDF graph represents a statement that an FX trade has a counterparty by using a subject identifier for the trade, a property identifier for the counterparty relationship, and an object identifier for the counterparty.

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