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# Introducing Wikidata to the Linked Data Web

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ISWC, 21th October 2014



**WIKIMEDIA**  
FOUNDATION

# About Wikidata

- Launched on 30th October 2012
  - 15,817,444 item pages
  - 12,674 active users
- (state of 1st October 2014)





Item [Discussion](#)

# Douglas Adams <sup>(Q42)</sup>

[\[edit\]](#)

English writer and humorist

[\[edit\]](#)

**Also known as:**

[Douglas Noël Adams](#)

[Douglas Noel Adams](#)

[DNA](#)

[Bop Ad](#)

[\[edit\]](#)

[In other languages](#) | [Statements](#) | [Wikipedia pages linked to this item](#) | [Wikinews pages linked to this item](#) | [Wikiquote pages linked to this item](#) | [Wikisource pages linked to this item](#) | [Wikivoyage pages linked to this item](#) | [Pages on other sites linked to this item](#)

## Statements

birth name (monolingual text)

[Douglas Noël Adams \(English\)](#)

[\[edit\]](#)

[▶ 1 reference](#)

[\[add\]](#)

participant

[Monty Python's Flying Circus](#)

[\[edit\]](#)

[▶ 1 reference](#)

[\[add\]](#)

BIBSYS identifier

[x90196888](#)

[\[edit\]](#)

[▼ 0 references](#)

- [Main page](#)
- [Community portal](#)
- [Project chat](#)
- [Create a new item](#)
- [Item by title](#)
- [Recent changes](#)
- [Random item](#)
- [Help](#)
- [Donate](#)

Language select

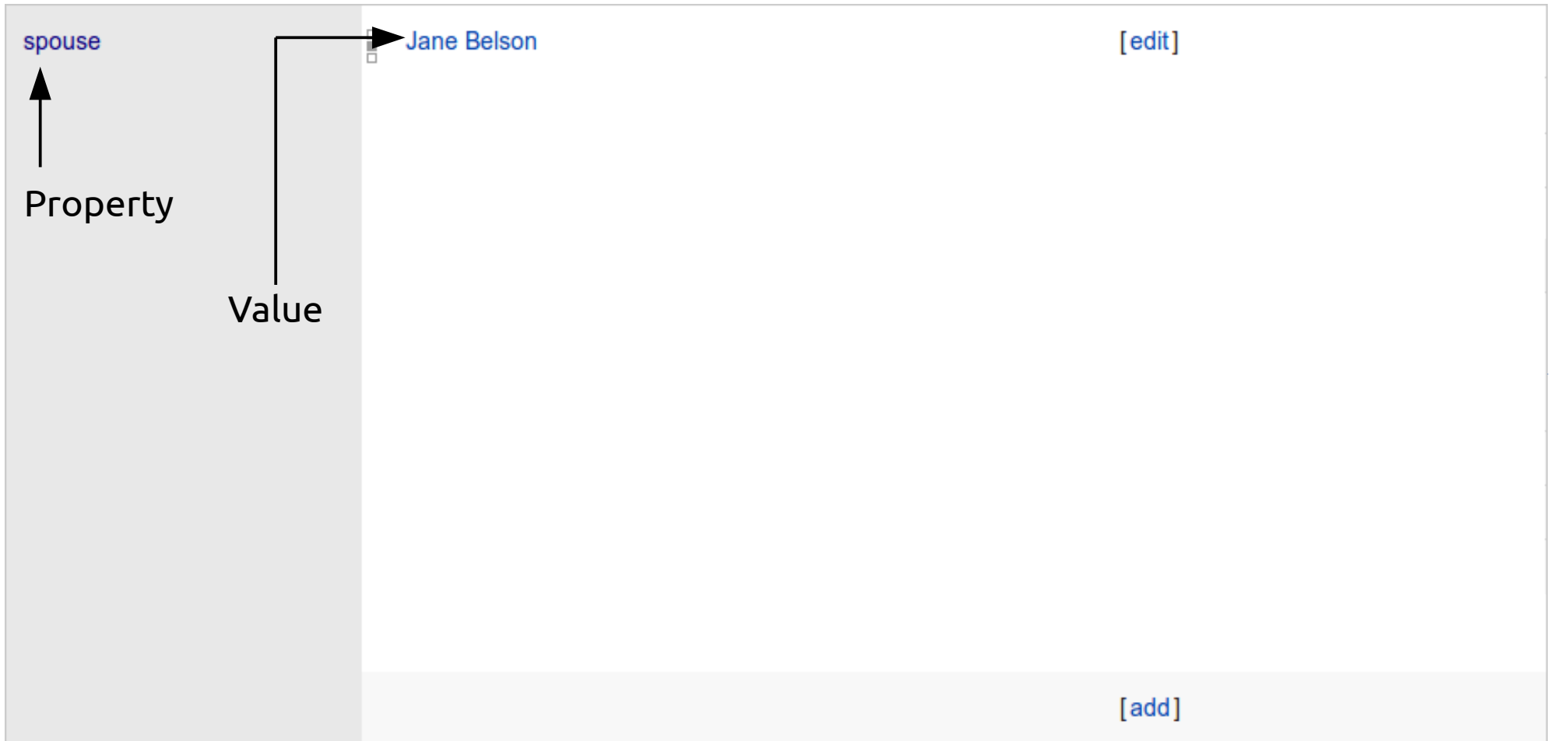
[English](#) ▼

[Select](#)

Tools

- [What links here](#)
- [Related changes](#)
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- [Permanent link](#)
- [Page information](#)
- [Concept URI](#)
- [Cite this page](#)

# About Wikidata



Statement

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The screenshot shows a Wikidata entry for Jane Belson. On the left, a grey vertical bar contains the labels 'Property' and 'References'. An arrow labeled 'Property' points from 'Property' to the 'spouse' label. An arrow labeled 'Value' points from 'Value' to the 'Jane Belson' value. An arrow labeled 'References' points from 'References' to the reference section. In the main content area, the 'start date' and 'end date' fields have a bracket labeled 'Qualifiers' pointing to them. The reference section is expanded to show a single reference with fields for 'reference URL', 'original language', 'title (string)', 'publisher', and 'date retrieved'. There are '[edit]' links for the spouse, the reference, and the 'add reference' button.

spouse	Jane Belson	[edit]
start date	25 November 1991	Qualifiers
end date	11 May 2001	
▼ 1 reference		
		[edit]
reference URL	<a href="http://www.nndb.com/people/731/000023662/">http://www.nndb.com/people/731/000023662/</a>	
original language	English	
title (string)	Douglas Adams	
publisher	NNDB	
date retrieved	7 December 2013	
		[add reference]
		[add]

Statement

# Wikidata RDF

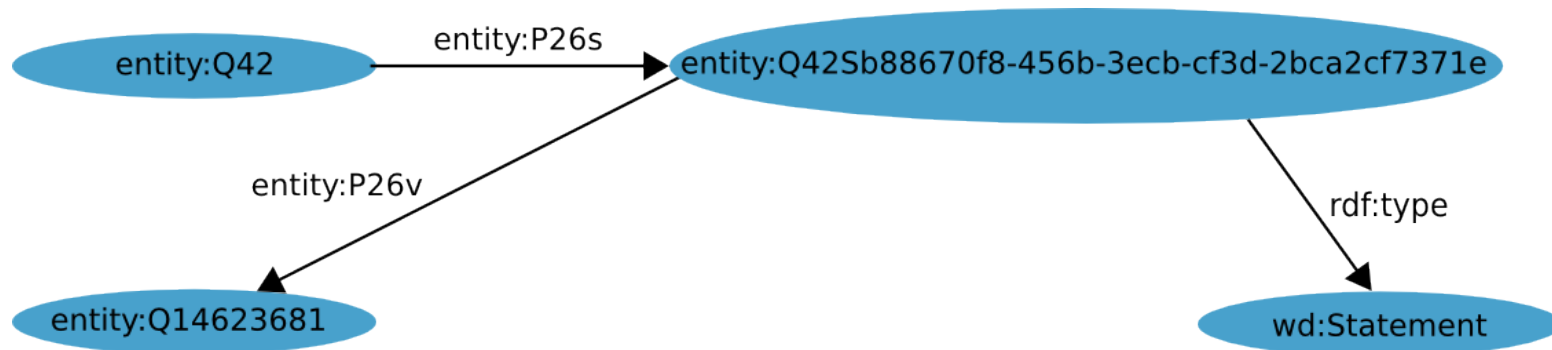
- Entities (items and properties) are represented with uniform URIs

`http://www.wikidata.org/entity/<id>`

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`http://www.wikidata.org/entity/<id>`

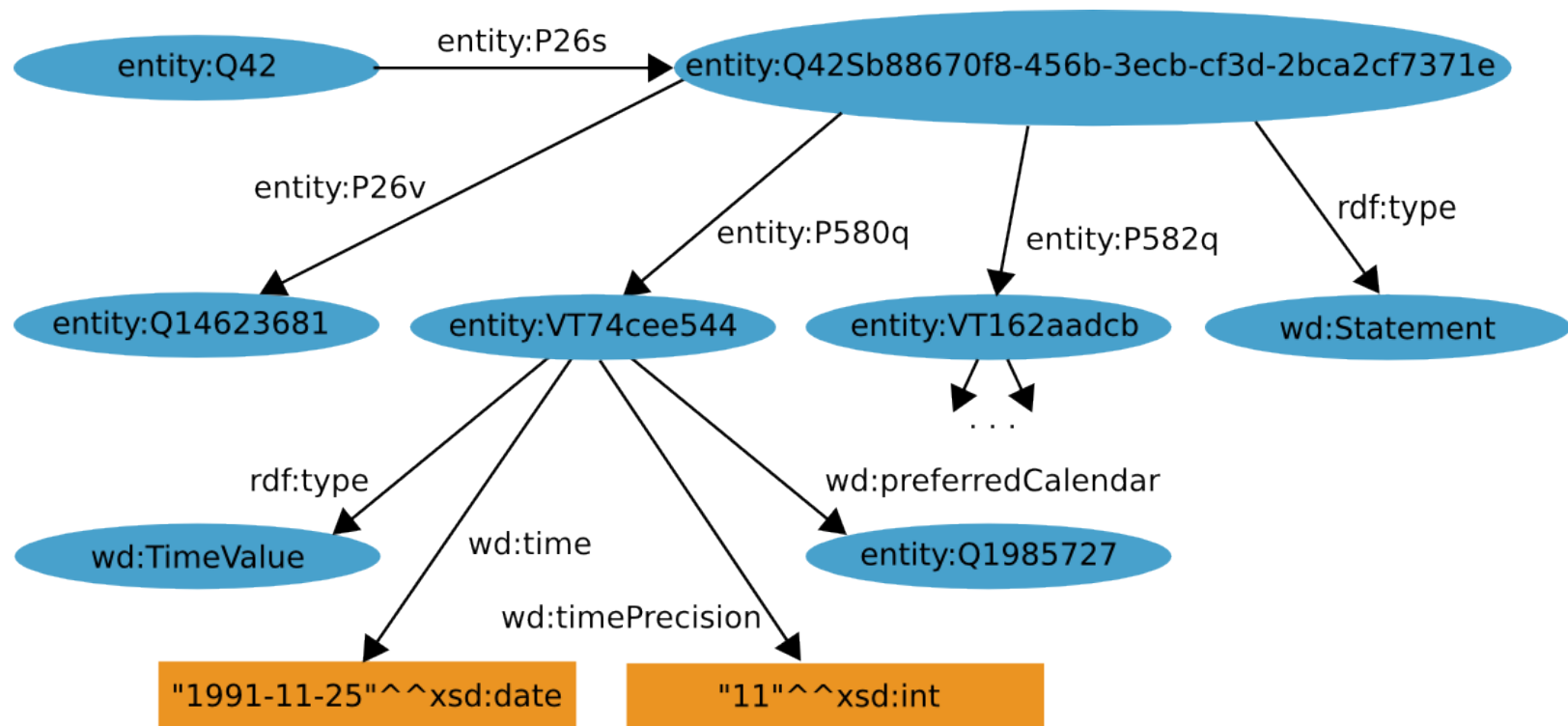




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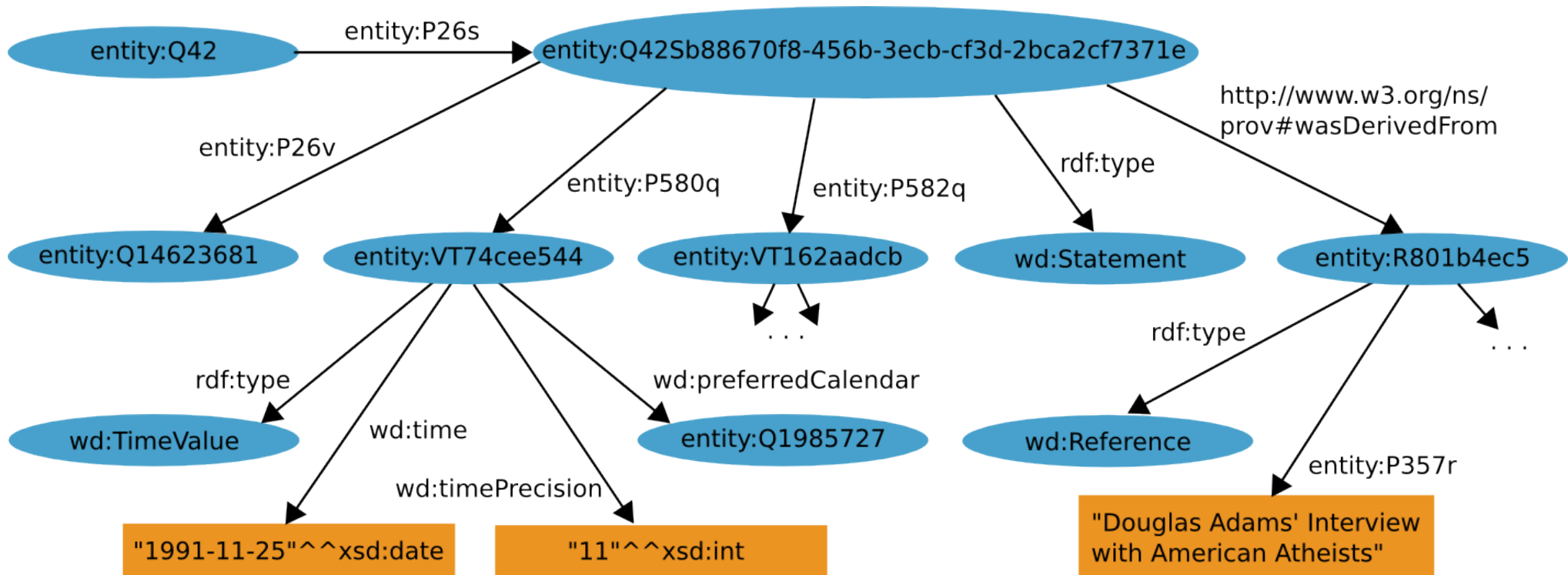
`http://www.wikidata.org/entity/<id>`



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- Individual dumps for statements, terms and sitelinks

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Entities      `http://www.wikidata.org/entity/<entityID>`

Statements

`http://www.wikidata.org/entity/<entityID><UUID>`

Values      `http://www.wikidata.org/entity/V<hash>`

References `http://www.wikidata.org/entity/R<hash>`

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- OWL compatible
- Reuse of third-party vocabulary
- Links to 17 other RDF datasets

# Wikidata RDF

File Topic	File size	Triples	Content
instances	49M	11,659,628	rdf:type relations
taxonomy	1.1M	221,300	rdfs:subclassOf relations
simple-statement	478M	66,748,306	simplified statements
statements	2.5G	191,467,639	statements
terms	1.1G	119,831,832	labels, aliases, descriptions
properties	1.2M	65,280	properties
sitelinks	1.1G	137,858,016	sitelinks

Generated with Wikidata Toolkit

[https://www.mediawiki.org/wiki/Wikidata\\_Toolkit](https://www.mediawiki.org/wiki/Wikidata_Toolkit)

# Summary and Conclusion

- Over 500 million triples
- Generated every month
- Next steps:
  - Integrating more datasets
  - Completing Wikidata RDF service
  - SPARQL endpoint



<http://tools.wmflabs.org/wikidata-exports/rdf>