

# Library Linked Data for the Uninitiated

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<http://z.umn.edu/14cy>

Library Technology Conference

March 2016

**Minitex**  
DEDICATION, COLLABORATION, INNOVATION.

# Intro/Agenda

- Linked Data
- BIBFRAME
- Workflow
- Case studies/more info

# Why Linked Data?

- Linked data is the future of the web
- Data will no longer be in silos
- Relationships are powerful and worth the effort

# Why Linked Data?

So what's the problem  
with how things are now?

# What a human sees

**THE Little Prince OFFICIAL STORE**  
MORE THAN 600 PRODUCTS FOR TODDLERS AND GROWN-UPS  
Discover the shop !  
10% off your first order with code LPP10

**Books**

# The Little Prince

HOME NEWS ONLINE STORE STORE IN PARIS WORK THE PHENOMENON LICENSING COLLECTION

English

**Coming Soon**

**The story**

For readers who would like a quick reminder of the book and its main storyline, here is a summary of The Little Prince's travels and those he met along the way.

If Saint-Exupéry is to be believed *The Little Prince* is a book for children written for grown-ups. It can be read on many different levels to provide pleasure and food for thought for readers of all ages.

The author, an aviator, crashes with his aeroplane in the middle of the Sahara desert. While he is trying to repair his aeroplane, a little boy appears and asks him to draw a sheep. The author learns that The Little Prince comes from asteroid B-612 where he has left behind three volcanoes and a rose.

Before reaching Earth, he has visited other planets and met some very odd people: a king, a conceited man, a drunkard, a lamplighter, a geographer... Since arriving on Earth, he has spoken to a fox who has taught him that to know someone or something, you must « tame » them, and that makes them unique. « What is essential is invisible to the eye, says the fox. »

In order to return to his planet and his rose, The Little Prince allows himself to be bitten by a poisonous snake: his planet is too far away, he cannot take his « shell ». The aviator, who has succeeded in repairing his plane, also quits the desert. He still hopes The Little Prince will return one day and asks us to write and tell him if ever we should meet his friend.

**More about the planets visited by the Little Prince**  
Each planet the Little Prince visits can be seen as an allegory of human nature. If you have already read the book, we invite you now to take a new look at the different planets.

**The king – asteroid B 325**  
In the book, the Little Prince meets a king who claims to rule over all with absolute power. His only "subject", however, is an old rat that he hears at night. The king exercises his power over the sun by ordering it to set – but only at sunset. In order not to lose face, this oddity of a king gives only "reasonable" orders ("I order you to sit down") – as good a way as any to satisfy his thirst for power. The Little Prince is not fooled, however, and sees the monarch as no more than another odd grown-up.

**Le Film du P...**

**The Little Prince Theme Park**  
Découvrez le...

**The Store in Paris**  
La Boutique ...

**The phenomenon**  
The Little Pri...

**Awesome Collection**  
Nouvelle col...

**Jewelry**

**THE Little Prince OFFICIAL STORE**  
MORE THAN 600 PRODUCTS FOR TODDLERS AND GROWN-UPS  
Discover the shop !  
10% off your first order with code LPP10

# What a computer sees

The image shows a simulated browser window with a blue header. The word "TEXT" is written in large white letters on the left, and "IMAGE" is written inside a blue circle on the right. Below the header is a navigation bar with seven "LINK" buttons and social media icons for Twitter, Facebook, and RSS. A language dropdown menu is set to "English".

The main content area is divided into two columns. The left column contains:

- A red ribbon with a white tag that says "F-4".
- An "Image" placeholder box with the word "Image" inside.
- A "Text" block containing several paragraphs of placeholder text, including "New Paragraph", "End Paragraph", and "Heading".

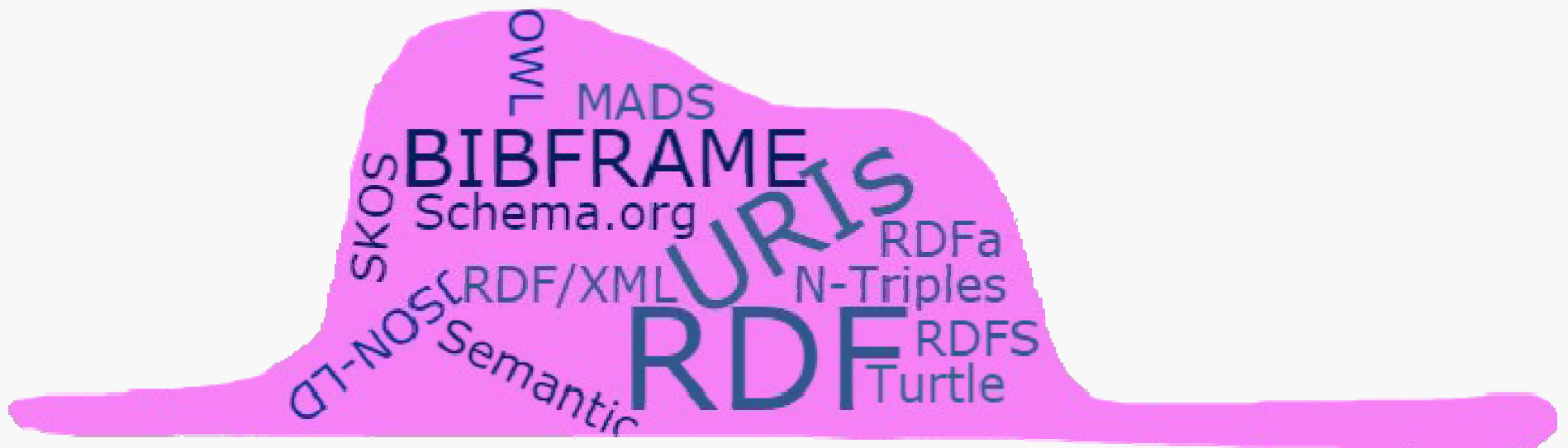
The right column contains:

- A "Coming Soon" message.
- A "Youtube embed" placeholder box.
- A section titled "The Little Prince Theme Park" with another "Youtube embed" placeholder box.
- A section titled "The Store in Paris" with a third "Youtube embed" placeholder box.
- A section titled "The phenomenon" with a fourth "Youtube embed" placeholder box.

# What is Linked Data?

A set of principles and best practices for sharing data and building relationships between data on the web so that machines can “understand” and interpret the data.

What are the principles and best practices?





# Resource Description Framework (RDF)

## What is it?

RDF provides a way to describe anything you encounter in the world: people, places, concepts, words, documents, etc.

RDF provides a way to describe **relationships**: how one thing relates to another thing

# RDF Components

**Statement:** A combination of a Resource, a Property, and a Property value

Resource → Subject

Property → Predicate

Property Value → Object

Statements are usually referred to as **triples**

# Triple Example

Statement

The creator of the Little Prince is Antoine de Saint-Exupéry

Subject

Little Prince

Predicate

creator

Object

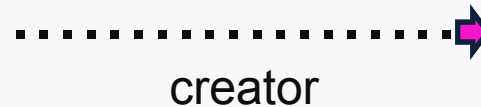
Antoine de Saint-Exupéry

**SUBJECT**

**PREDICATE**

**OBJECT**

The Little Prince



Antoine de Saint-Exupéry

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<rdf:RDF
```

```
xmlns:rdf=http://www.w3.org/1999/02/22-rdf-syntax-ns#
```

```
xmlns:dc=http://purl.org/dc/elements/1.1/>
```

```
<rdf:Description
```

```
rdf:about=https://en.wikipedia.org/wiki/The\_Little\_Prince>
```

```
<dc:creator>Antoine de Saint-Exupéry</dc:creator>
```

```
</rdf:Description>
```

```
</rdf:RDF>
```

# RDF graph: The Little Prince



## Search

Select Field:

Select Index:

All VIAF

Search Terms:



**Saint-Exupéry, Antoine de 1900-1944**

**Saint-Exupéry, Antoine de (Antoine Jean Baptiste Marie Roger), 1900-1944**

**Saint-Exupéry, Antoine de**

**Сент-Экзюпери, А. 1900-1944 Антуан де**

**Antoine de Saint-Exupéry Aviateur et écrivain français**

**1944-1900 سان اکتوبري، أنطوان دي،**

**1900-1944 סנט-אכזופרי, אנטואן דה,**

**Сент-Экзюпери, Антуан де, 1900-1944**

**Saint-Exupéry, Antoine de (French author, 1900-1944)**

**1944-1900 سانت-اکتوبري، أنطوان دو،**

**Saint-Exupéry, A. de 1900-1944 Antoine de**

**1944-1900 سان اکتوبري، أنطوان دو،**

VIAF ID: 93810507 (Personal)

Permalink: <http://viaf.org/viaf/93810507>

ISNI: [0000 0001 2096 6599](https://www.isni.org/0000-0001-2096-6599)



<http://viaf.org/viaf/93810507>



<http://schema.org/name>



Antoine de Saint-Exupéry

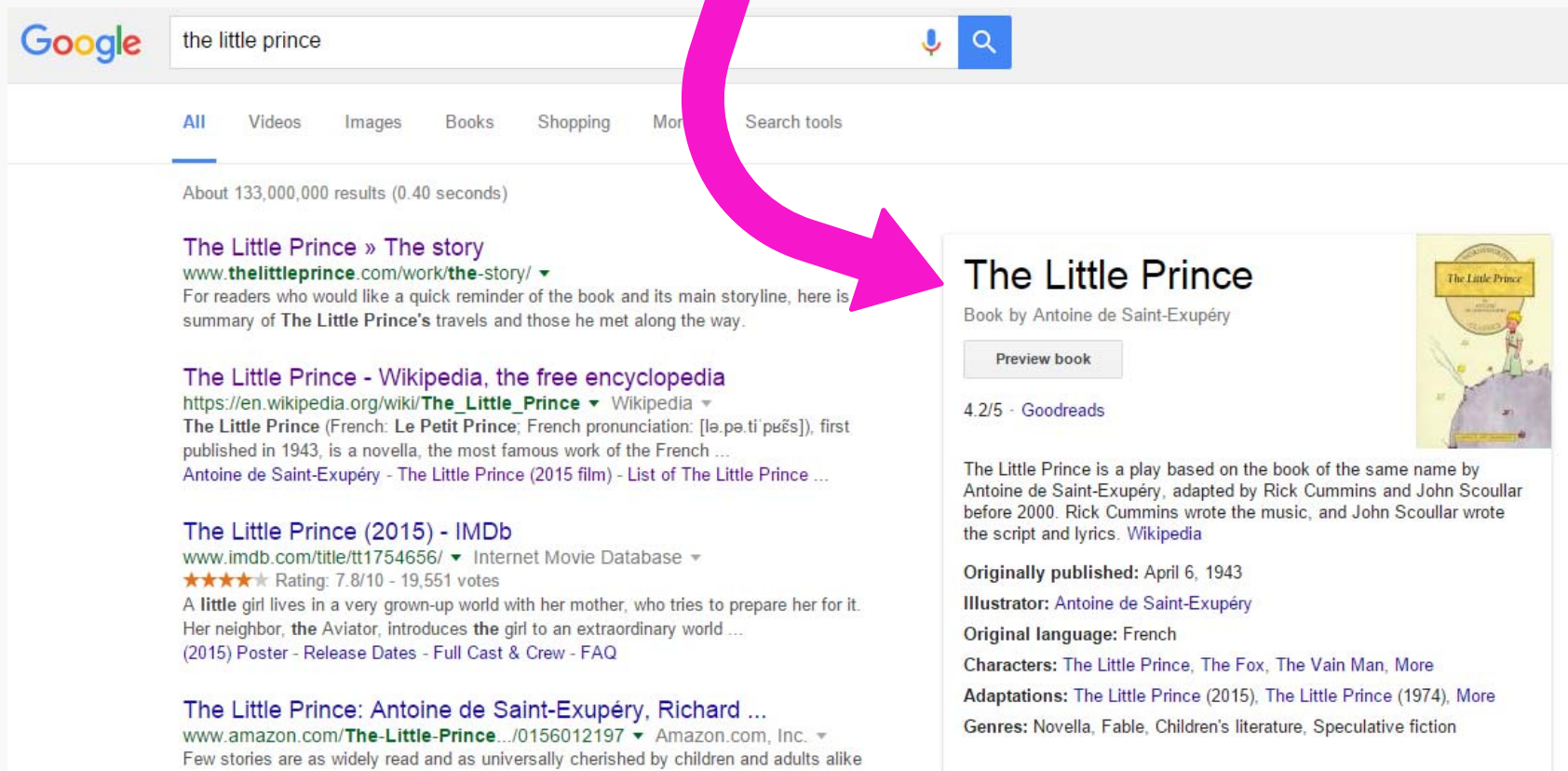
# RDF Exercise

We are going to create some RDF of our own!

- Look at the Dublin Core records
- Break the data into triples in the spreadsheet (use URIs if you can find them)
- We will mark it up as RDF/XML



# Visualizing RDF



Google the little prince

All Videos Images Books Shopping More Search tools

About 133,000,000 results (0.40 seconds)


**The Little Prince » The story**  
[www.thelittleprince.com/work/the-story/](http://www.thelittleprince.com/work/the-story/) ▼  
For readers who would like a quick reminder of the book and its main storyline, here is summary of **The Little Prince's** travels and those he met along the way.

**The Little Prince - Wikipedia, the free encyclopedia**  
[https://en.wikipedia.org/wiki/The\\_Little\\_Prince](https://en.wikipedia.org/wiki/The_Little_Prince) ▼ Wikipedia ▼  
**The Little Prince** (French: **Le Petit Prince**; French pronunciation: [lə.pə.tiˈpʁɛs]), first published in 1943, is a novella, the most famous work of the French ...  
[Antoine de Saint-Exupéry - The Little Prince \(2015 film\) - List of The Little Prince ...](#)

**The Little Prince (2015) - IMDb**  
[www.imdb.com/title/tt1754656/](http://www.imdb.com/title/tt1754656/) ▼ Internet Movie Database ▼  
★ ★ ★ ★ ☆ Rating: 7.8/10 - 19,551 votes  
A **little** girl lives in a very grown-up world with her mother, who tries to prepare her for it. Her neighbor, **the** Aviator, introduces **the** girl to an extraordinary world ...  
[\(2015\) Poster - Release Dates - Full Cast & Crew - FAQ](#)

**The Little Prince: Antoine de Saint-Exupéry, Richard ...**  
[www.amazon.com/The-Little-Prince.../0156012197](http://www.amazon.com/The-Little-Prince.../0156012197) ▼ Amazon.com, Inc. ▼  
Few stories are as widely read and as universally cherished by children and adults alike

**The Little Prince**  
Book by Antoine de Saint-Exupéry  
[Preview book](#)  
4.2/5 - Goodreads



The Little Prince is a play based on the book of the same name by Antoine de Saint-Exupéry, adapted by Rick Cummins and John Scoullar before 2000. Rick Cummins wrote the music, and John Scoullar wrote the script and lyrics. [Wikipedia](#)

**Originally published:** April 6, 1943  
**Illustrator:** Antoine de Saint-Exupéry  
**Original language:** French  
**Characters:** [The Little Prince](#), [The Fox](#), [The Vain Man](#), [More](#)  
**Adaptations:** [The Little Prince \(2015\)](#), [The Little Prince \(1974\)](#), [More](#)  
**Genres:** Novella, Fable, Children's literature, Speculative fiction

# https://en.wikipedia.org/wiki/The\_Little\_Prince

## The Little Prince

From Wikipedia, the free encyclopedia  
(Redirected from The little prince)

 *This article is about the novella. For other uses, see Little Prince.*  
 *"Asteroid B-612" redirects here. For the foundation, see B612.*

**The Little Prince** (French: *Le Petit Prince*; French pronunciation: [lə.ʁi.pɛ̃.tɛ̃.ʁi.ˈpʁi.ˈsɛ̃] (listen·help·info) (1900–1944).

The novella is the fourth most-translated book in the world and was sold over 140 million copies annually with sales totaling over 140 million copies.

After the outbreak of the Second World War Saint-Exupéry was exiled from France, and he drew on those same experiences in *The Little Prince*, including a tender tale of loneliness, friendship, love, and loss, in order to have drawn on those same experiences in *The Little Prince*.

Since its first publication in the United States, the novella has been

### Contents [hide]

- Overview
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  - Events and characters
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  - The Prince
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  - Museums and exhibits
  - Numismatics and philatelic
  - Astronomy
  - Insignia and awards
  - Schools
- See also



<b>Author</b>	<span>Antoine de Saint-Exupéry</span>
<b>Original title</b>	<i>Le Petit Prince</i>
<b>Translator</b>	(English editions) Katherine Woods T.V.F. Cuffe Irene Testot-Ferry Alan Wakeman Richard Howard <sup>[1]</sup> David Wilkinson
<b>Illustrator</b>	Antoine de Saint-Exupéry
<b>Cover artist</b>	Antoine de Saint-Exupéry
<b>Country</b>	United States
<b>Language</b>	French
<b>Publisher</b>	Reynal & Hitchcock (U.S.) Gallimard (France) <sup>[2]</sup>
<b>Publication date</b>	1943 (U.S.: English & French) (France, French, 1945) <sup>[2]</sup> <sup>[Note 1]</sup>
<b>Preceded by</b>	<i>Pilote de guerre</i> (1942)
<b>Followed by</b>	<i>Lettre à un otage</i> (1944)

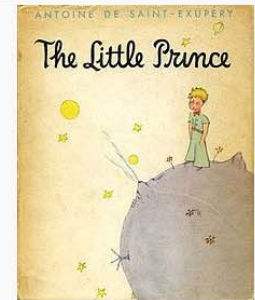
poet, and pioneering aviator Antoine de Saint-Exupéry

effects (as well as Braille),<sup>[3]</sup><sup>[4]</sup> selling nearly two

of the writings for which he would be remembered, experiences in the Sahara Desert, and he is thought

reen, television, ballet, and operatic works.<sup>[9]</sup><sup>[10]</sup>

*The Little Prince*



<b>Author</b>	<span>Antoine de Saint-Exupéry</span>
<b>Original title</b>	<i>Le Petit Prince</i>
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<b>Followed by</b>	<i>Lettre à un otage</i> (1944)

# dbpedia.org/page/The\_Little\_Prince

## About: [The Little Prince](#)

An Entity of Type : [written work](#), from Named Graph : <http://dbpedia.org>, within Data Space : [dbpedia.org](#)

The Little Prince (French: Le Petit Prince; French pronunciation: [lə.pə.tiˈpʁɛ̃s]), first published in 1943, is a novella and the most famous work of the French aristocrat, writer, poet and painter, and was voted the best book of the 20th century in France.

Property	Value
<a href="#">dbo:abstract</a>	<ul style="list-style-type: none"><li>The Little Prince (French: Le Petit Prince; French pronunciation: [lə.pə.tiˈpʁɛ̃s]), first published in 1943, is a novella and both the most-read and most-translated book in the French language, and was voted the best book of the 20th century totalling over 140 million copies worldwide, it has become one of the best-selling books ever published. After the outbreak produced almost half of the writings for which he would be remembered, including a tender tale of loneliness, friendship, experiences in the Sahara Desert, and he is thought to have drawn on those same experiences in The Little Prince. Several radio plays, live stage, film screen, television, ballet, and operatic works.</li></ul>
<a href="#">dbo:author</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Antoine_de_Saint-Exupéry</a></li></ul>
<a href="#">dbo:coverArtist</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Antoine_de_Saint-Exupéry</a></li></ul>
<a href="#">dbo:illustrator</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Antoine_de_Saint-Exupéry</a></li></ul>
<a href="#">dbo:previousWork</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Flight_to_Arras</a></li></ul>
<a href="#">dbo:publisher</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Reynal_&amp;_Hitchcock</a></li><li><a href="#">dbr:Éditions_Gallimard</a></li></ul>
<a href="#">dbo:thumbnail</a>	<ul style="list-style-type: none"><li><a href="http://en.wikipedia.org/wiki/Special:FilePath/Littleprince.JPG?width=300">http://en.wikipedia.org/wiki/Special:FilePath/Littleprince.JPG?width=300</a></li></ul>
<a href="#">dbo:translator</a>	<ul style="list-style-type: none"><li><a href="#">dbr:Richard_Howard</a></li></ul>
<a href="#">dbo:wikiPageExternalLink</a>	<ul style="list-style-type: none"><li><a href="http://web.archive.org/web/20070329010927/http://habpro.tripod.com/visionslp/id13.html">http://web.archive.org/web/20070329010927/http://habpro.tripod.com/visionslp/id13.html</a></li><li><a href="http://books.google.com/books/about/The_Tale_of_the_Rose.html?id=OarX1V7Mh6cC">http://books.google.com/books/about/The_Tale_of_the_Rose.html?id=OarX1V7Mh6cC</a></li><li><a href="http://habpro.tripod.com/visionslp/id13.html">http://habpro.tripod.com/visionslp/id13.html</a></li><li><a href="http://nitescence.free.fr/DEA.pdf">http://nitescence.free.fr/DEA.pdf</a></li><li><a href="http://www.b612.cn/image/2011-10-19.html">http://www.b612.cn/image/2011-10-19.html</a></li><li><a href="http://www.nbcnewyork.com/video/#!/on-air/as-seen-on/The-Little-Prince--A-New-York-Story-Exhibition/241919181">http://www.nbcnewyork.com/video/#!/on-air/as-seen-on/The-Little-Prince--A-New-York-Story-Exhibition/241919181</a></li><li><a href="http://www.patoche.org/lepetitprince/gallima.htm">http://www.patoche.org/lepetitprince/gallima.htm</a></li><li><a href="http://www.petit-Prince.at/">http://www.petit-Prince.at/</a></li><li><a href="http://www.thelittleprince.com/">http://www.thelittleprince.com/</a></li><li><a href="http://www.trussel.com/saint-ex/stexbib.htm#47">http://www.trussel.com/saint-ex/stexbib.htm#47</a></li><li><a href="http://www.piccolo-principe-counseling.com">http://www.piccolo-principe-counseling.com</a></li><li><a href="http://www.freewebs.com/shirtsleeves/quotes/littleprince.html">http://www.freewebs.com/shirtsleeves/quotes/littleprince.html</a></li><li><a href="http://ny:1989/05/12/arts/in-the-footsteps-of-saint-exupery.html">ny:1989/05/12/arts/in-the-footsteps-of-saint-exupery.html</a></li><li><a href="http://www.tbs.co.jp/l-prince">http://www.tbs.co.jp/l-prince</a></li><li><a href="http://www.tbs.co.jp/l-prince/en/w-map.html">http://www.tbs.co.jp/l-prince/en/w-map.html</a></li><li><a href="http://books.google.ca/books?id=LaEbAQAAIAAJ">http://books.google.ca/books?id=LaEbAQAAIAAJ</a></li><li><a href="http://www.guardian.co.uk/world/2010/aug/01/little-prince-return-multimedia">http://www.guardian.co.uk/world/2010/aug/01/little-prince-return-multimedia</a></li><li><a href="http://www.dkagencies.com/MSB/LE-PETIT-PRINCE_1.aspx">http://www.dkagencies.com/MSB/LE-PETIT-PRINCE_1.aspx</a></li><li><a href="http://www.sparknotes.com/lit/littleprince/">http://www.sparknotes.com/lit/littleprince/</a></li><li><a href="http://www.lepetitprince.com/">http://www.lepetitprince.com/</a></li></ul>

# Querying

Find all artists/bands that are originally from Wisconsin

## SPARQL:

```
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX foaf: <http://xmlns.com/foaf/0.1/>
PREFIX dc: <http://purl.org/dc/elements/1.1/>
PREFIX : <http://dbpedia.org/resource/>
PREFIX dbpedia2: <http://dbpedia.org/property/>
PREFIX dbpedia: <http://dbpedia.org/>
PREFIX skos: <http://www.w3.org/2004/02/skos/core#>
PREFIX dbo: <http://dbpedia.org/ontology/>

SELECT ?person ?bandname ?description WHERE {
  ?person rdf:type dbo:MusicalArtist .
  ?person dbo:birthPlace ?born .
  ?person rdfs:comment ?description .
  ?person dbo:associatedBand ?bandname
  FILTER (LANG(?description) = 'en') .
  FILTER (regex(?born, "Wisconsin", "i"))
} ORDER BY ASC(?person) ?bandname
```

Results:

# Query Results

```
PREFIX dbo: <http://dbpedia.org/ontology/>
```

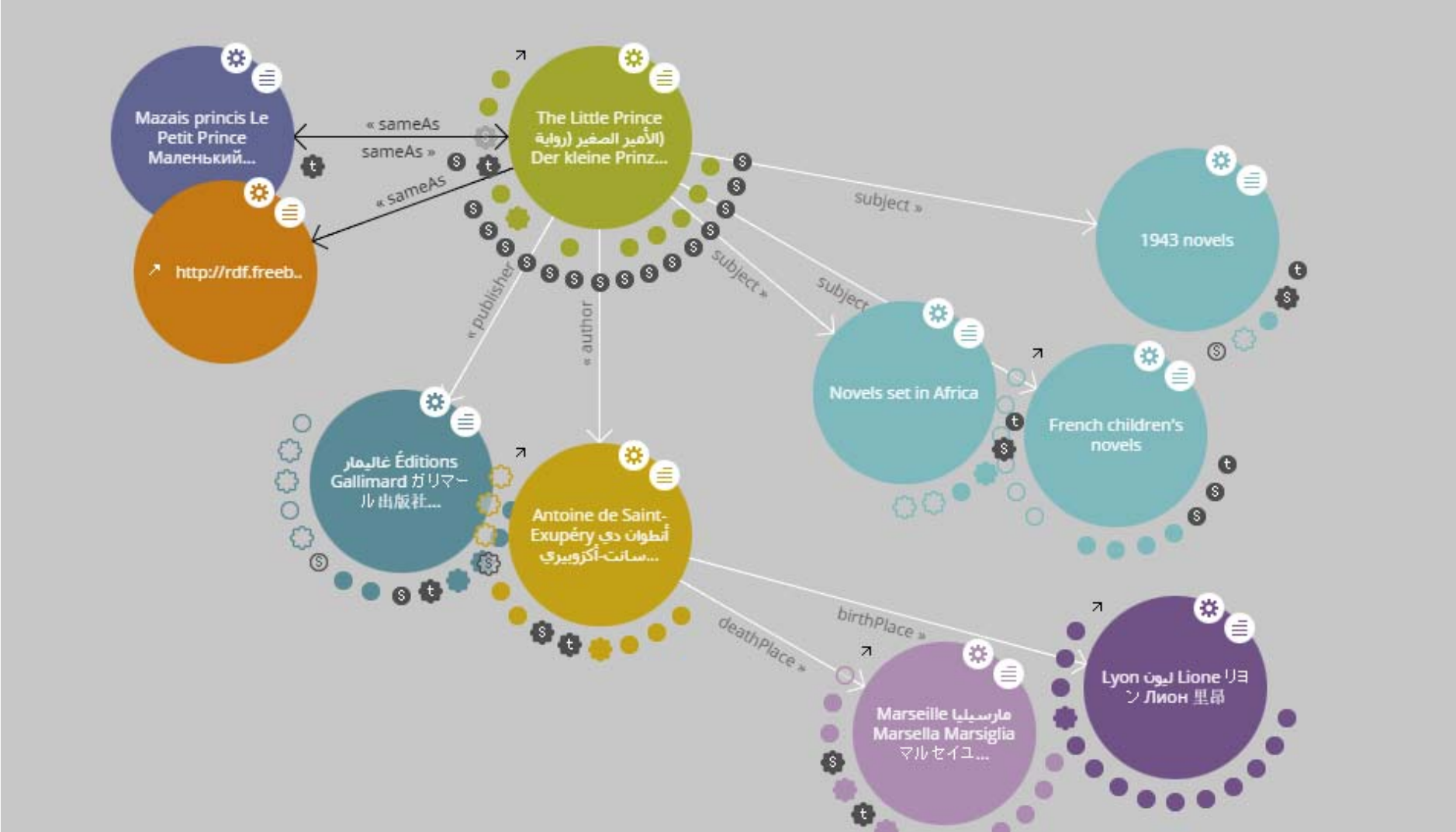
```
SELECT ?person ?bandname ?description WHERE {  
  ?person rdf:type dbo:MusicalArtist .  
  ?person dbo:birthPlace ?born .  
  ?person rdfs:comment ?description .  
  ?person dbo:associatedBand ?bandname  
  FILTER (LANG(?description) = 'en') .  
  FILTER (regex(?born, "Wisconsin", "i"))
```

Results:

SPARQL results:

person	bandname	description
<a href="#">:Billy_Flynn_(musician)</a>	<a href="#">:Jimmy_Dawkins</a>	"Billy Flynn (born August 11, 1956) is an American Chicago blues and electric blues guitarist, singer and songwriter. In addition to his own work, Hummel, Willie Kent, Snooky Pryor, Big Bill Morganfield, John Brim, Jody Williams, Little Arthur Duncan, Deitra Farr, and Billy Boy Arnold."@en
<a href="#">:Billy_Flynn_(musician)</a>	<a href="#">:Mississippi_Heat</a>	"Billy Flynn (born August 11, 1956) is an American Chicago blues and electric blues guitarist, singer and songwriter. In addition to his own work, Hummel, Willie Kent, Snooky Pryor, Big Bill Morganfield, John Brim, Jody Williams, Little Arthur Duncan, Deitra Farr, and Billy Boy Arnold."@en
<a href="#">:Billy_Flynn_(musician)</a>	<a href="#">:The_Legendary_Blues_Band</a>	"Billy Flynn (born August 11, 1956) is an American Chicago blues and electric blues guitarist, singer and songwriter. In addition to his own work, Hummel, Willie Kent, Snooky Pryor, Big Bill Morganfield, John Brim, Jody Williams, Little Arthur Duncan, Deitra Farr, and Billy Boy Arnold."@en
<a href="#">:Bobby_Hatfield</a>	<a href="#">:Bill_Medley</a>	"Robert Lee "Bobby" Hatfield (August 10, 1940 – November 5, 2003) was an American singer, best known as one half of the Righteous Brother
<a href="#">:Bobby_Hatfield</a>	<a href="#">:The_Righteous_Brothers</a>	"Robert Lee "Bobby" Hatfield (August 10, 1940 – November 5, 2003) was an American singer, best known as one half of the Righteous Brother
<a href="#">:Brian_Ritchie</a>	<a href="#">:Violent_Femmes</a>	"Brian Ritchie (born 21 November 1960) is the bass guitarist for the alternative rock band Violent Femmes. In addition to his bass playing, Ritchi
<a href="#">:Brian_Ritchie</a>	<a href="#">:Zen_Circus</a>	"Brian Ritchie (born 21 November 1960) is the bass guitarist for the alternative rock band Violent Femmes. In addition to his bass playing, Ritchi
<a href="#">:Bruce_Robb</a>	<a href="#">:Art_Garfunkel</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:Del_Shannon</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:Harry_Nilsson</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:John_Mellencamp</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:Ringo_Starr</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:Robert_Bradley's_Blackwater_Surprise</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:Steve_Cropper</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:The_Lemonheads</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Bruce_Robb</a>	<a href="#">:The_Robb</a>	"Bruce Robb (born October 22, 1954) is an American musician, record producer, engineer, and music supervisor."@en
<a href="#">:Chris_Broach</a>	<a href="#">:Braid_(band)</a>	"Chris Broach (born Christopher Robert Broach: September 5, 1976 in Madison, WI) is one of the guitarists/vocalists in the 90's Emo band Braid. Broach went to see Braid play a show at The Red Herring, in Urbana, Illinois. After the show, he was introduced to Bob Nanna through a mutual friend.
<a href="#">:Chris_Broach</a>	<a href="#">:L'Spaerow</a>	"Chris Broach (born Christopher Robert Broach: September 5, 1976 in Madison, WI) is one of the guitarists/vocalists in the 90's Emo band Braid. Broach went to see Braid play a show at The Red Herring, in Urbana, Illinois. After the show, he was introduced to Bob Nanna through a mutual friend.
<a href="#">:Chris_Broach</a>	<a href="#">:Life_at_Sea</a>	"Chris Broach (born Christopher Robert Broach: September 5, 1976 in Madison, WI) is one of the guitarists/vocalists in the 90's Emo band Braid. Broach went to see Braid play a show at The Red Herring, in Urbana, Illinois. After the show, he was introduced to Bob Nanna through a mutual friend.

# Another RDF visualization tool en.lodlive.it

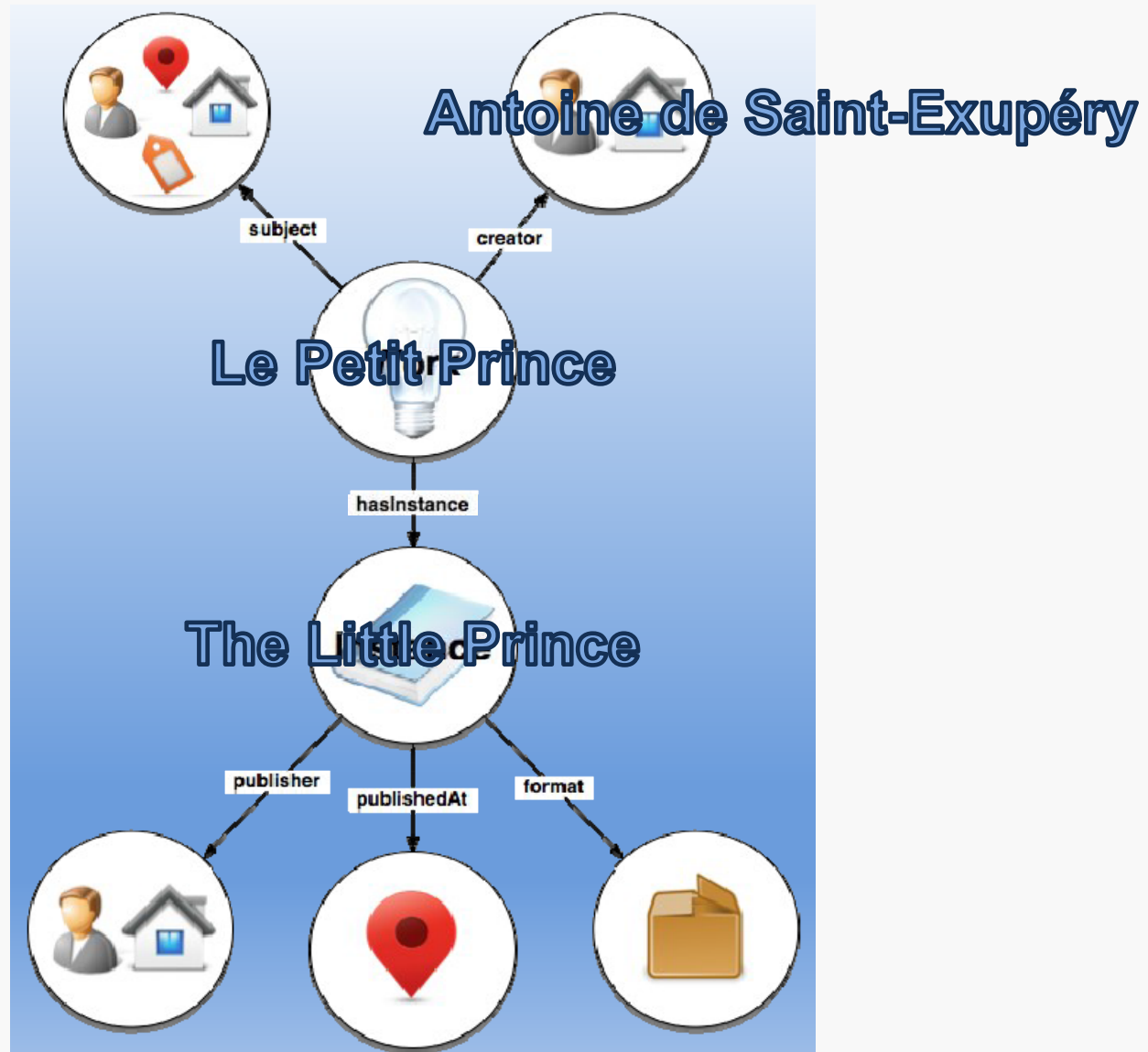


# BIBFRAME Overview

Topics to cover:

- What is BIBFRAME?
- What does linked data have to do with BIBFRAME?
- How does BIBFRAME fit into the standards and best practices discussed earlier?
- How will I actually use BIBFRAME in my daily work?

# Basic BIBFRAME Model





# State of progress

- Vocabulary 2.0 coming soon!
- New Core class: Items
- New core class: Events
- No more Authority layer – will go straight to Subject, Person, etc.
- More information here:  
<http://www.loc.gov/bibframe/docs/index.html>

# BIBFRAME and Linked Data

- How do these two concepts connect?
  - BIBFRAME plays on the ideas of linked data to connect bibliographic data across the web.
  - Use of URIs instead of strings
  - Often shown/visualized/serialized in RDF triples
  - Not just a replacement for MARC!

# BIBFRAME in the Wild

So what does it really look like when someone uses BIBFRAME?

# US Army Corps of Engineers

```
C:\Users\eebaus\AppData\Local\Temp\extract-1 - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
extract-1
1 @prefix bf: <http://bibfra.me/vocab/lite/> .
2 @prefix cc: <http://creativecommons.org/ns#> .
3 @prefix dc: <http://purl.org/dc/terms/> .
4 @prefix ll: <http://library.link/vocab/> .
5 @prefix ns1: <http://schema.org/> .
6 @prefix ns2: <http://bibfra.me/vocab/marc/> .
7 @prefix ns3: <http://purl.org/dc/elements/1.1/> .
8 @prefix ns4: <http://bibfra.me/vocab/marcext/> .
9 @prefix ns5: <http://bibfra.me/purl/versa/> .
10 @prefix ns6: <http://www.w3.org/ns/rdfa#> .
11 @prefix ns7: <http://www.w3.org/1999/xhtml/vocab#> .
12 @prefix og: <http://ogp.me/ns#> .
13 @prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
14
15 <http://engineerradcc.library.link/resource/aYnrI7i2a00/> a bf:Instance;
16 bf:instantiates <http://engineerradcc.library.link/resource/iPMwRfewp7Q/>;
17 bf:label "The little SAS book : a primer : a programming approach, Lora D. Delwiche and Susan J. Slaughter"@en;
18 ns1:name "The little SAS book : a primer : a programming approach, Lora D. Delwiche and Susan J. Slaughter"@en .
19
20 <http://engineerradcc.library.link/portal/The-little-SAS-book--a-primer--a-programming/aYnrI7i2a00/> a bf:Instance .
21
22 <http://engineerradcc.library.link/resource/iPMwRfewp7Q/> a bf:Work,
23 ns2:Books,
24 ns2:LanguageMaterial;
25 rdfs:label "The little SAS book : a primer : a programming approach"@en;
26 ns3:type "http://bibfra.me/vocab/lite/Work"@en,
27 "http://bibfra.me/vocab/marc/Books"@en,
28 "http://bibfra.me/vocab/marc/LanguageMaterial"@en;
29 bf:contributor <http://engineerradcc.library.link/resource/ZFV-ZGV-oxo/>;
30 bf:creator <http://engineerradcc.library.link/resource/KTacdMJfLN0/>;
31 bf:language "eng"@en;
32 bf:subject <http://engineerradcc.library.link/resource/9pMtzzo1Z4I/>,
33 <http://engineerradcc.library.link/resource/n6JS3XfemBM/>;
34 bf:title "The little SAS book"@en,
35 "The little SAS book : a primer : a programming approach"@en;
36 ns2:catalogingSource "DLC"@en;
37 ns2:illustrations "illustrations"@en;
38 ns2:index "index present"@en;
39 ns2:literaryForm "non fiction"@en;
40 ns2:summary "Introduces the most commonly used features of the SAS programming language, including the DATA and PROC steps, inputting data, modifying and combining data sets, summarizing data, producing reports, and debugging SAS programs. New topics in the 4th ed. include ODS graphics for statistical procedures; SGFLOT procedure for graphics; creating new variables in PROC REPORT with a COMPUTE block; WHERE=data set option; SORTSEQ=LINGUISTIC option in PROC SORT; more functions, including ANYALPHA, CAT, PROPCASE, AND YRDIF\---P. [4] of cover"@en;
41 ns2:titleRemainder "a primer : a programming approach"@en;
42 ns2:titleStatement "Lora D. Delwiche and Susan J. Slaughter"@en;
43 ns4:tag-003 "OCoLC"@en;
44 ns4:tag-008 "090715s2008 ncu a 001 0 eng"@en;
45 ns4:tag-019-XX-a "244443196"@en;
46 ns4:tag-020-XX-a "1599947250"@en,
47 "9781599947259"@en;
48 ns4:tag-596-XX-a "3"@en;
49 cc:attributionName "Engineer Research and Development Center Library (WES)"@en;
50 cc:attributionURL <http://engineerradcc.library.link/resource/iPMwRfewp7Q/>;
51 cc:license <http://creativecommons.org/licenses/by/4.0/>;
52 ll:portalLink <http://engineerradcc.library.link/portal/The-little-SAS-book--a-primer--a-programming/aYnrI7i2a00/>;
53 ll:source <http://engineerradcc.library.link/#engineerradcc>;
54 ns2:summary "Introduces the most commonly used features of the SAS programming language, including the DATA and PROC steps, inputting data, modifying and combining data sets, summarizing data, producing reports, and debugging SAS programs. New topics in the 4th ed. include ODS graphics for statistical procedures; SGFLOT procedure for graphics; creating new variables in PROC REPORT with a COMPUTE block; WHERE=data set option; SORTSEQ=LINGUISTIC option in PROC SORT; more functions, including ANYALPHA, CAT, PROPCASE, AND YRDIF\---P. [4] of cover"@en;
Normal text file length: 6669 lines: 94 Ln:1 Col:1 Sel:0|0 UNIX UTF-8 INS
```

# US Army Corps of Engineers


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## The little SAS book : a primer : a programming approach



**Title** The little SAS book

**Title remainder** a primer : a programming approach

**Statement of responsil** Lora D. Delwiche and Susan J. Slaughter

**Creator**  Delwiche, Lora D

**Contributor**  Slaughter, Susan J

**Subject**  SAS (Computer file)  
 Mathematical statistics -- Data processing

**Language** eng

**Summary** Introduces the most commonly used features of the SAS programming language, including the DATA and PROC steps, inputting data, modifying and combining data sets, summarizing data, producing reports, and debugging SAS programs. New topics in the 4th ed. include ODS graphics for statistical procedures; SGPLOT procedure for graphics; creating new variables in PROC REPORT with a COMPUTE block; WHERE=data set option; SORTSEQ=LINGUISTIC option in PROC SORT; more functions, including ANYALPHA, CAT, PROPCASE, AND YRDIF"--P. [4] of cover

**Cataloging source** DLC

**Illustrations** illustrations


**Index** index present

**Literary form** non fiction

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## Portal(s)

 The little SAS book : a primer : a programming approach, Lora D. Delwiche and Susan J. Slaughter

## Context

### Instance(s)

 The little SAS book : a primer : a programming approach, Lora D. Delwiche and Susan J. Slaughter



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# US Army Corps of Engineers

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## ◀ The little SAS book : a primer : a programming approach, Lora D. Delwiche and Susan J. Slaughter

<b>Title</b>	The little SAS book
<b>Title remainder</b>	a primer : a programming approach
<b>Statement of responsil</b>	Lora D. Delwiche and Susan J. Slaughter
<b>Instantiates</b>	▶ The little SAS book : a primer : a programming approach
<b>Publication</b>	📅 Cary, NC, SAS Institute, c2008
<b>Note</b>	Includes index
<b>Contents note</b>	Getting started using SAS software -- Getting your data into SAS -- Working with your data -- Sorting, printing, and summarizing your data -- Enhancing your output with ODS [Output delivery system]-- Modifying and combining SAS data sets -- Writing flexible code with the SAS macro facility -- Using basic graphical and statistical procedures -- Exporting your data -- Debugging your SAS programs -- Where to go from here -- Coming to SAS from SPSS -- Coming to SAS from a programming language -- Coming to SAS from SQL
<b>Control code</b>	ocn233543543
<b>Dimensions</b>	23 cm.
<b>Edition</b>	4th ed.
<b>Extent</b>	xv, 358 p.
<b>Isbn</b>	9781599947259
<b>Lccn</b>	2009288430
<b>Other physical details</b>	ill.
<b>System control number</b>	▶ (Sirsi) o233543543 ▶ (OCoLC)233543543

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## 🎯 Portal


🎯 The little SAS book : a primer : a programming approach, Lora D. Delwiche and Susan J. Slaughter

## 🎯 Context

### ▼ Work

🎯 The little SAS book : a primer : a programming approach

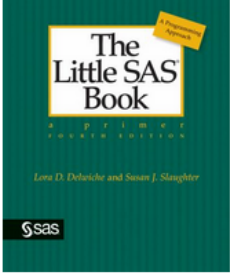
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Engineer Research and Development Center Library

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**Title:** The little SAS book : a primer : a programming approach  
**Author:** Delwiche, Lora D.  
**ISBN:** 9781599947259  
**Personal Author:** Delwiche, Lora D.  
**Edition:** 4th ed.  
**Publication Information:** Cary, NC : SAS Institute, c2008.  
**Physical Description:** xv, 358 p. : ill. ; 23 cm.  
**General Note:** Includes index.  
**Contents:** Getting started using SAS software -- Getting your data into SAS -- Working with your data -- Sorting, printing, and summarizing your data -- Enhancing your output with ODS [Output delivery system]-- Modifying and combining SAS data sets -- Writing flexible code with the SAS macro facility -- Using basic graphical and statistical procedures -- Exporting your data -- Debugging your SAS programs -- Where to go from here -- Coming to SAS from SPSS -- Coming to SAS from a programming language -- Coming to SAS from SQL.  
**Abstract:** Introduces the most commonly used features of the SAS programming language, including the DATA and PROC steps, inputting data, modifying and combining data sets, summarizing data, producing reports, and debugging SAS programs. New topics in the 4th ed. include ODS graphics for statistical procedures; SGPLOT procedure for graphics; creating new variables in PROC REPORT with a COMPUTE block; WHERE=data set option; SORTSEQ=LINGUISTIC option in PROC SORT; more functions, including ANYALPHA, CAT, PROPCASE, AND YRDIF"--P. [4] of cover.  
**Title Subject:** SAS (Computer file)  
**Subject Term:** Mathematical statistics -- Data processing.  
**Added Author:** Slaughter, Susan J.  
**OCLC Number:** 233543543  
**Copies:** 1


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▼ Available:1

Library	Material Type	Shelf Number	Item Category 1	Location
ERDC Hanover NH	Book	QA276.4 D45 2008	PRINT	Standard Shelving Location


# Modeling Exercise



**The little prince**


Author: [Antoine de Saint-Exupéry](#); [Katherine Woods](#); [Harcourt, Brace & World](#).

Publisher: New York : Harcourt, Brace & World, ©1943.

Edition/Format:  Print book : Fiction : Juvenile audience : English [View all editions and formats](#)

Database: WorldCat

Summary: An aviator, whose plane is forced down in the Sahara Desert, encounters a little man from a small planet who describes his adventures in the universe, seeking the secret of what is really important in life.

Rating: ★★☆☆☆ based on 2 rating(s)  0 with reviews - Be the first.

Subjects: [Love](#), [Fairy tales](#), [Fantasy fiction](#), [View all subjects](#)

More like this [User tags](#) [User lists](#) [Similar Items](#)

[Borrow](#) [Obtain copy](#) [Buy it](#)

**Buy it**

**Details**

**Genre/Form:** Children's stories, French  
Fiction  
Juvenile works  
Fantasy fiction  
Dust jackets (Bindings)  
Fantasy literature  
Fairy tales  
Juvenile fiction

**Material Type:** Fiction, Juvenile audience

**Document Type:** Book

**All Authors / Contributors:** [Antoine de Saint-Exupéry](#); [Katherine Woods](#); [Harcourt, Brace & World](#).

Find more information about:

**ISBN:** 0152465049 9780152465049 0152465030 9780152465032

**OCLC Number:** 243906

**Description:** 91, [3] pages : illustrations (chiefly color) ; 23 cm

**Other Titles:** Petit prince.

**Responsibility:** written and drawn by Antoine de Saint-Exupéry ; translated from the French by Katherine Woods.

**Abstract:**  
An aviator, whose plane is forced down in the Sahara Desert, encounters a little man from a small planet who describes his adventures in the universe, seeking the secret of what is really important in life.

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Minneapolis, Minnesota  
55455, United States  
< 1 m / km
- [University of Minnesota](#)  
Minneapolis, Minnesota  
55455, United States  
< 1 m / km
- [University of Minnesota](#)  
Minneapolis, Minnesota  
55455-0422, United States  
< 1 m / km

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# Modeling Exercise

## Work Data:

- Title
- Author
- Subjects
- Date of creation

## Instance Data:

- Publisher
- Date of printing
- Pagination
- Cover art

# What does it mean for my library?

- Workload/workflow changes
- Connectivity
- What will the catalog/cataloging look like?

# Workflow Example: BIBFRAME Editor

BIBFRAME.ORG

[Home](#) / [Tools](#) / [Editor Demo](#)

## Create Resource

Monograph ▾

Instance

Work

Work, Instance

Cartographic ▾

BluRay DVD ▾

Audio CD ▾

# Workflow Example: BIBFRAME Editor

BIBFRAME.ORG « Back to LC BIBFRAME Site Vocabulary

[Home](#) / [Tools](#) / [Editor Demo](#)

## Create Resource

- Monograph ▾
- Notated Music ▾
- Serial ▾
- Cartographic ▾
- BluRay DVD ▾
- Audio CD ▾

## RDA Work Elements - Monographs

<b>Creator of Work (RDA 19.2)</b>	Principal Creator Other Creators
<b>Preferred Title for the Work (RDA 6.2.2)</b>	Title
<b>Variant Title for the Work (RDA 6.2.3)</b>	Title
<b>Form of Work (RDA 6.3)</b>	Form of Work
<b>Date of Work (RDA 6.4)</b>	Date of Work (RDA 6.4) +
<b>Place of Origin of the Work (RDA 6.5)</b>	Place
<b>Other Distinguishing Characteristic of the Work (RDA 6.6)</b>	Other Distinguishing Characteristic of the Work (RDA 6.6) +
<b>Nature of the Content (RDA 7.2)</b>	Nature of the Content (RDA 7.2) +
<b>Coverage of the Content (RDA 7.3)</b>	Coverage of the Content (RDA 7.3) +
<b>Intended Audience (RDA 7.7)</b>	Intended Audience (RDA 7.7) +
<b>Dissertation or Thesis Information (RDA 7.9)</b>	Dissertation or Thesis Information (RDA 7.9) +
<b>Other Person, Family, or Corporate Body Associated With a Work (RDA 19.3)</b>	Other Person, Family, Corporate Body Associated With a Work
<b>Subject of the Work (RDA Chapter 23)</b>	Topic Place Person Corporate Body Family (LCSH) Meeting RDA Work Elements - Monographs
<b>DDC Classification (RDA Chapter 23)</b>	Dewey Classification Information
<b>Related Works (RDA Chapter 25 and Appendix J)</b>	RDA Work Elements - Monographs
<b>Contents Note (LC-PCC PS 25.1)</b>	Contents Note (LC-PCC PS 25.1) +

# Workflow Example: BIBFRAME Editor

Principal Creator

Principal Creator

Search LCNAF for Creator

Person Family (NAR) Jurisdiction

Corporate Body Meeting

Search Relationship Designator (RDA Appendix I) ... OR ...

Record Relationship Designator (if Relationship Designator does not appear in Search)

Abridger Relationship Designator (RDA Appendix I) ... C

RDA-Relators

- Abridger
- Actor
- Adapter
- Addressee
- Analyst
- Animator
- Annotator
- Appellant
- Appellee
- Applicant
- Architect

Relationship Design +

Cancel Save changes

# Workflow Example: BIBFRAME Editor

Person ×

---

Person

Search LCNAF in  
id.loc.gov for  
Authorized  
Access Point ...  
OR ...









Record  
Authorized  
Access Point (if  
added to LCNAF  
but does not yet  
appear in  
id.loc.gov)

---

Applicant  
Architect

# Workflow Example: BIBFRAME Editor

## RDA Work Elements - Monographs

<b>Creator of Work (RDA 19.2)</b>	Principal Creator	Other Creators
	Saint-Exupéry, Antoine de, 1900-1944  	
<b>Preferred Title for the Work (RDA 6.2.2)</b>	Title	
	The little prince  	
<b>Variant Title for the Work (RDA 6.2.3)</b>	Title	
<b>Form of Work (RDA 6.3)</b>	Form of Work	
	Fiction  	
<b>Date of Work (RDA 6.4)</b>	Date of Work (RDA 6.4)	
<b>Place of Origin of the Work (RDA 6.5)</b>	Place	
	Paris (France)  	
<b>Other Distinguishing Characteristic of the Work (RDA 6.6)</b>	Other Distinguishing Characteristic of the Work (RDA 6.6)	
<b>Nature of the Content (RDA 7.2)</b>	Nature of the Content (RDA 7.2)	
<b>Coverage of the Content (RDA 7.3)</b>	Coverage of the Content (RDA 7.3)	
<b>Intended Audience (RDA 7.7)</b>	Intended Audience (RDA 7.7)	
<b>Dissertation or Thesis Information (RDA 7.9)</b>	Dissertation or Thesis Information (RDA 7.9)	
<b>Other Person, Family, or Corporate Body Associated With a Work (RDA 19.3)</b>	Other Person, Family, Corporate Body Associated With a Work	

# Workflow Example: BIBFRAME Editor

LC Control Number for the Work (RDA 6.8)

LCCN

Your Cataloger Code and Comments

Your Cataloger Code and Comments

## RDA Expression Elements - Monograph

Expression of

RDA Work Elements - Monographs

<http://bibframe.org/resources/worksMR1...>



Content Type (RDA 6.9)

Content Type (RDA 6.9)

text



Language of Expression (RDA 6.11)

Language of Expression (RDA 6.11)

Other Distinguishing Characteristic of the  
Expression (RDA 6.12)

Other Distinguishing Characteristic of the Expression (RDA 6.12)

Summary of Content (RDA 7.10)

Summary of Content (RDA 7.10)

Language of the Content (RDA 7.12)

Language of the Content (RDA 7.12)

Script (RDA 7.13.2)

Script (RDA 7.13.2)

Illustrative Content (RDA 7.15)

Illustrative Content (RDA 7.15)

Supplementary Content (RDA 7.16)

Supplementary Content (RDA 7.16)



# Workflow Example: BIBFRAME Editor

RDA Work Elements - Monographs

RDA Work Elements - Monographs



Lookup

Save changes

OR



**Creator of Work (RDA 19.2)**

Principal Creator Other Creators

**Preferred Title for the Work (RDA 6.2.2)**

Title



 

**Variant Title for the Work (RDA 6.2.3)**

Title

**Form of Work (RDA 6.3)**

Form of Work



Fiction  

**Date of Work (RDA 6.4)**

Date of Work (RDA 6.4)  +

**Place of Origin of the Work (RDA 6.5)**

Place

Paris (France)  

**Other Distinguishing Characteristic of the Work (RDA 6.6)**

Other Distinguishing Characteristic of the Work (RDA)  +

# Workflow Example: BIBFRAME Editor

## Instance/Manifestation - Monograph

Lookup

Lookup

Instance of

RDA Work Elements - Monographs

<http://bibframe.org/resources/works/SaQ1...>



Title Proper (RDA 2.3.2)

Title

Parallel Title Proper (RDA 2.3.3)

Title

Other Title Information (RDA 2.3.4)

Enter Other Title Information

Variant Title (RDA 2.3.6)

Title

Statement of Responsibility Relating to Title Proper (RDA 2.4.2)

Statement of Responsibility Relating to Title Proper (RDA 2.4.2)

Designation of Edition (RDA 2.5.2)

Designation of Edition (RDA 2.5.2)

Statement of Responsibility Relating to the Edition (RDA 2.5.4)

Statement of Responsibility Relating to the Edition (RDA 2.5.4)

Publication Statement (RDA 2.8)

Enter Publication Information

Distribution Statement (RDA 2.9)

Enter Distribution Information

Manufacturer Statement (RDA 2.10)

Enter Manufacturer Information

Copyright Date (RDA 2.11)

Copyright Date (RDA 2.11)

# Workflow Example: BIBFRAME Editor

Back Save

## Preview

```
ID: http://bibframe.org/resources/works/vtR1457985791
  Type(s)
    http://bibframe.org/vocab/Text
  bf:relator
    _:bnodeHYx1457985914
  bf:workTitle
    _:bnodezmp1457986211
  bf:genre
    _:bnodeYdl1457986221
  bf:originPlace
    _:bnodeVfR1457986258

ID: http://bibframe.org/resources/works/YTp1457985794
  Type(s)
    http://bibframe.org/vocab/Work
  bf:expressionOf
    http://bibframe.org/resources/works/vtR1457985791
  bf:contentCategory
    http://id.loc.gov/vocabulary/contentTypes/txt

ID: http://id.loc.gov/vocabulary/contentTypes/txt
  bf:label
    text

ID: _:bnodeGvS1457985895
  bf:relatorRole
    http://id.loc.gov/vocabulary/relators/aut

ID: http://id.loc.gov/vocabulary/relators/aut
  bf:label
    Author
```

# Example Workflow

## UNLV

- Exported records from CONTENTdm
- Imported data into Open Refine. Cleaned it up, created triples, and exported it as RDF.
- Used Mulgara and OpenLink Virtuoso Pivot Viewer to store and visualize their data (open source)


FUTURE GOAL: To publish all digital collections as linked data


# Example Case Study


## OCLC

- OCLC has been publishing bibliographic linked data since 2012
- How make use of data and demonstrate how it adds value to librarians and users?
  - Looking at Google Research Knowledge Vault model
- The Knowledge Vault will contain triples that can be used by next-generation library services and apps

# Show related entities

EntityJS  ArchiveGrid

 SIGN OUT

 **Lincoln, Robert Todd, 1843-1926** GO TO SEARCH

### About

Born: Aug 1, 1843

Died: Jul 26, 1926

Robert Todd Lincoln (August 1, 1843 – July 26, 1926) was an American lawyer and Secretary of War, and the first son of President Abraham Lincoln and Mary Todd Lincoln. Born in Springfield, Illinois, United States, he was one of two of Lincoln's four sons to live to adulthood, and the only one to survive into the 1900s.

Father:  
[Abraham Lincoln](#)

Mother:  
[Mary Todd Lincoln](#)

Spouse:  
[Mary Eunice Harlan](#)

### Related Works

#### As a Creator

[Letter] 1911 April 28 [to] Mr. Starrett?

[Autograph letter signed : Chicago, to \[Henry Mills\] Alden, n.p., 1895 Nov. 21.](#)

[Autograph letter signed : Chicago, to \[Henry Mills\] Alden, n.p., 1895 Nov. 21.](#)


[Autograph letter signed from Robert Todd Lincoln, Chicago, to Miss Post 1901 January 29.](#)

[Autograph signature of Robert Lincoln to a typewritten letter : Chicago, to Mr. Morgan, 1908 Jan. 20.](#)

[Letter : Chicago, to Belle F. Keyes, Boston, 1885 Dec. 16.](#)

[Letter : Chicago, to Clinton L. Conkling.](#)

### Related Media



### Related People

[Abraham Lincoln](#)

[Mary Todd Lincoln](#)

[William Eleazar Barton](#)

[Mrs. James G. Blaine](#)

### Related Organizations

[William E. Barton Collection of Lincolniana \(University of Chicago\)](#)

[Republican Party \(U.S. : 1854-\)](#)

[United States. Supreme Court.](#)

[United States. War Department](#)

### Related Places

[United States](#)

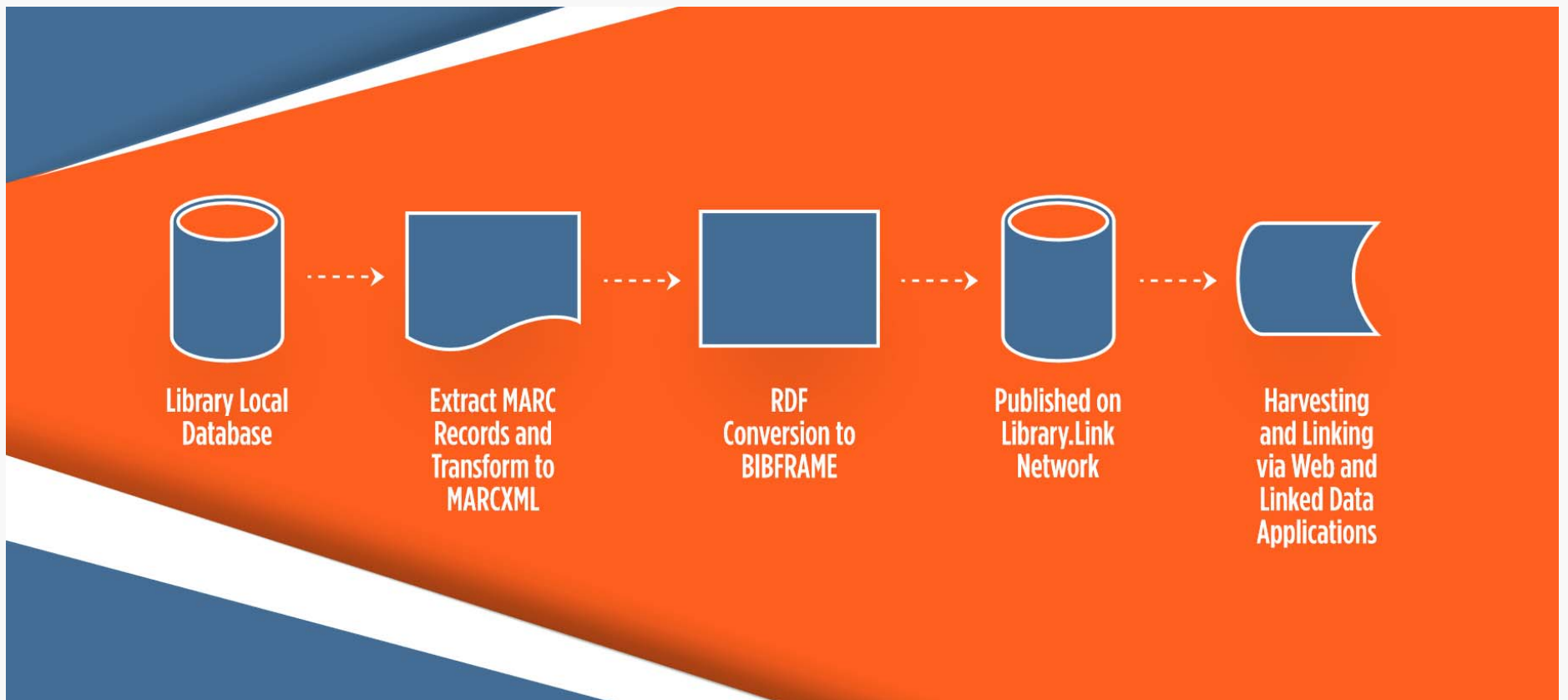
[Illinois.](#)

[Illinois--Chicago.](#)

[New York \(State\)](#)

# Example Case Study

## Innovative Linked Data



# Thank You!

Lizzy Baus

eebaus@umn.edu

Sara Ring

ring0089@umn.edu

All handouts/resources

<http://z.umn.edu/14cy>