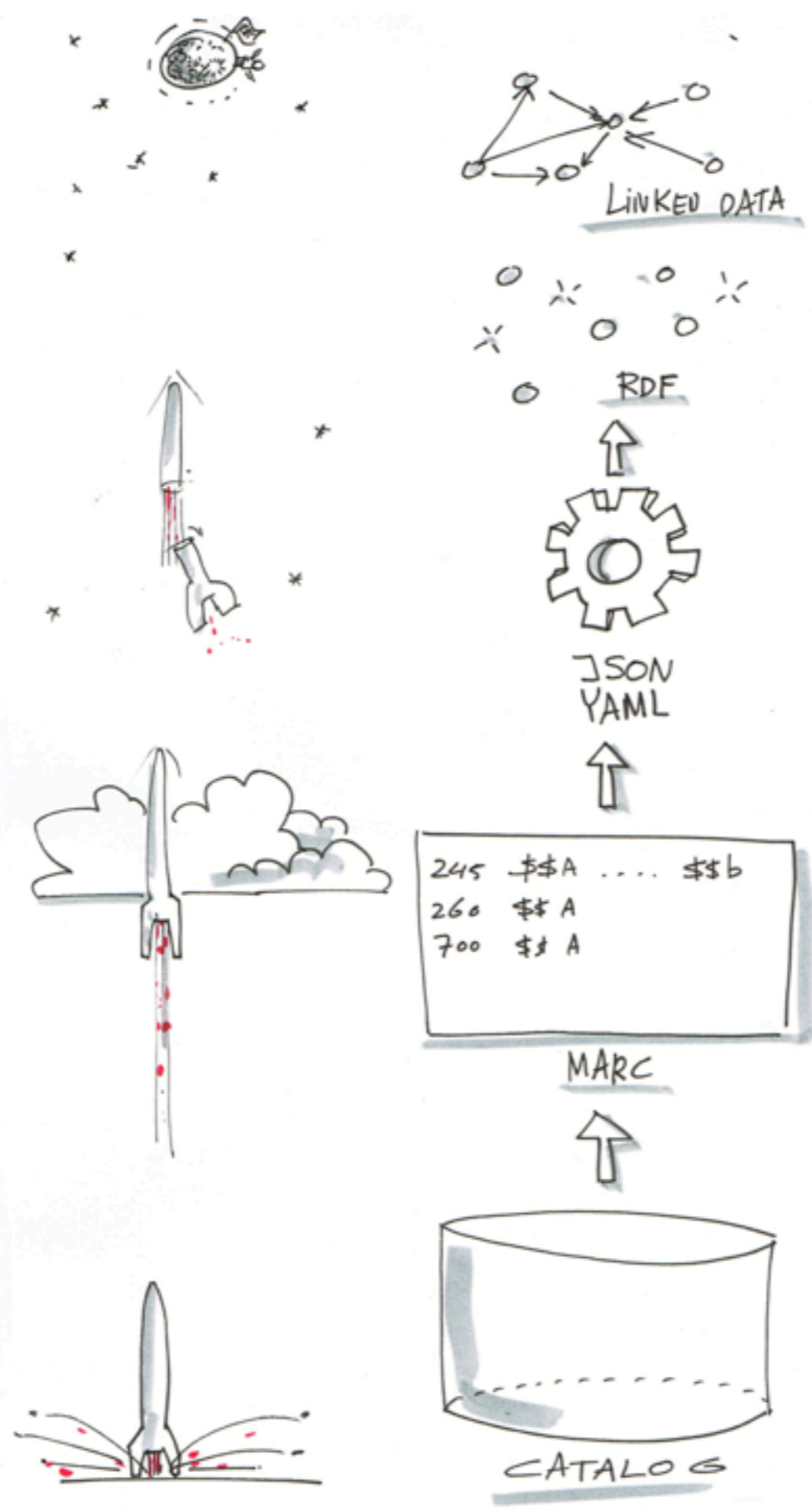


# RDF in Catmandu

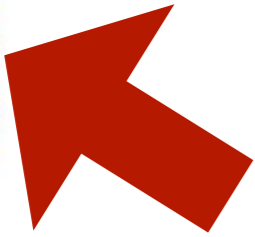


# MongoAdmin

# Data stores

## Stored

- [ejn01](#)
- [rug01](#)
- [ser01](#)
- [tst01](#)



## Support

- [author](#)
- [boost](#)
- [cover](#)
- [frbr.global\\_id](#)
- [frbr.same\\_as](#)
- [frbr.related\\_to](#)
- [subject](#)
- [summary](#)
- [viaf](#)
- [wikipedia](#)

## Merge

- [merge](#)



<http://ec2-50-17-116-137.compute-1.amazonaws.com>

swib2013/swib2013

# rug01.data

Find:

Upload:  No file chosen

10000 hits

Search results

id	global_id	same_as	related_to	role	version
<a href="#">rug01:000000002</a>	9780855275105				2013-11-12T13:55:58Z
<a href="#">rug01:000000006</a>	9789014026183				2013-11-12T13:55:58Z
<a href="#">rug01:000000003</a>	9783110035179				2013-11-12T13:55:58Z



# rug01.data->rug01:0000000002

Fix routines:

Fix inline (see [documentation](#)):Use live data? 

Export to:



```
---
_id: rug01:0000000002
items: '[{"department":"LW06","volume":"","location":"L17.XIX02.01.242C","barcode":"000010400338","library":"L17","faculty":"LW","holding":"","note":"","issue":"","item_status":"02","item_status_h":"LOAN/open shelves","is_closed_stack":"true","publication_year":"","item_process_status":"","material":"BOOK"},{"department":"LW06","volume":"","location":"L18.L010F128","barcode":"902-20","library":"L18","faculty":"LW","holding":"","note":"","issue":"","item_status":"02","item_status_h":"LOAN/open shelves","is_closed_stack":"true","publication_year":"","item_process_status":"","material":"BOOK"},{"department":"LW01","volume":"","location":"L27.18M201","barcode":"000010206368","library":"L27","faculty":"LW","holding":"","note":"","issue":"","item_status":"02","item_status_h":"LOAN/open shelves","is_closed_stack":"true","publication_year":"","item_process_status":"","material":"BOOK"},{"department":"LW06","volume":"","location":"L33.D01.006.063","barcode":"000010184913","library":"L33","faculty":"LW","holding":"","note":"","issue":"","item_status":"02","item_status_h":"LOAN/open shelves","is_closed_stack":"true","publication_year":"","item_process_status":"","material":"BOOK"}]'
merge:
  global_id:
  - '9780855275105'
  id: rug01:0000000002
```

# rug01.data->rug01:0000000002

Fix routines:

Fix inline (see [documentation](#)):

Use live data?

Export to:

rug01:0000000002 **FMT**  
rug01:0000000002 **LDR** 00000nam a2200301 i 4500  
rug01:0000000002 **001** 000000002  
rug01:0000000002 **005** 20060108100247.0  
rug01:0000000002 **008** 780804s1977^^^^enk^^^^^^b^^^^001^0^eng^^  
rug01:0000000002 **010** **SSa**78307846  
rug01:0000000002 **015** **SSa**GB\*\*\*  
rug01:0000000002 **020** **SSa**0855275103 : **SSc**13.50  
rug01:0000000002 **035** **SS9**(DLC) 78307846  
rug01:0000000002 **040** **SSa**DLC **SSc**DLC **SSd**DLC  
rug01:0000000002 **050** **SSa**P325 **SSb**.K34 1977b  
rug01:0000000002 **082** **SSa**415  
rug01:0000000002 **100** 1 **SSa**Katz, Jerrold J.  
rug01:0000000002 **245** 1 **SSa**Propositional structure and illocutionary force : **SSb**a study of the contribution of sentence meaning to speech acts /  
**SSc**Jerrold J. Katz.  
rug01:0000000002 **260** **SSa**Hassocks : **SSb**Harvester press, **SSc**1977.  
rug01:0000000002 **300** **SSa**xv, 249 p. ; **SSc**25 cm.  
rug01:0000000002 **490** **SSa**The Language and thought series  
rug01:0000000002 **504** **SSa**Includes bibliographical references and index

# tst01.data->demo

Fix routines:

Fix inline (see [documentation](#)):

```
add_field('test','123');
```

Export to:

```
---  
test: 123
```



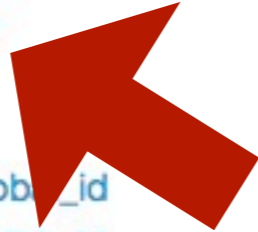
# Data stores

## Stored

- [ejn01](#)
- [rug01](#)
- [ser01](#)
- [tst01](#)

## Support

- [author](#)
- [boost](#)
- [cover](#)
- [frbr.globl\\_id](#)
- [frbr.same\\_as](#)
- [frbr.related\\_to](#)
- [subject](#)
- [summary](#)
- [viaf](#)
- [wikipedia](#)



## Merge

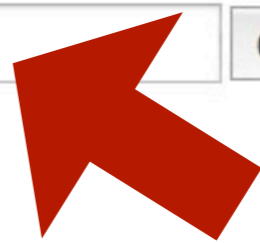
- [merge](#)



# author.data

Find:

Upload:



1 hits

Search results

id	global_id	same_as	related_to	role	version
<a href="#">author:Jerrold_Katz</a>					2013-11-15T07:51:16Z

# author.data

Find:

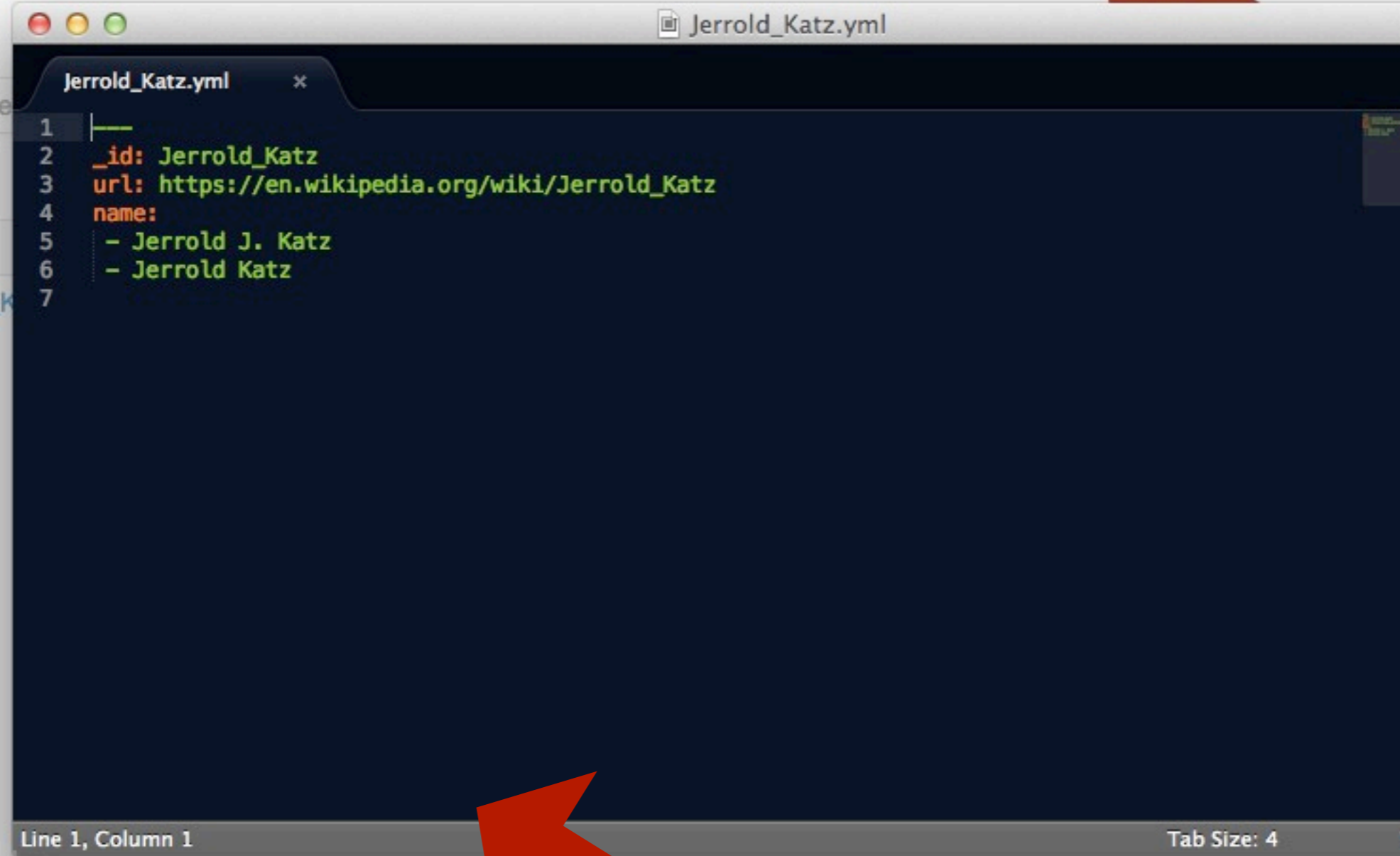
Upload:

1 hits

previous next

id

author:Jerrold\_K






```
1 |  
2  _id: Jerrold_Katz  
3  url: https://en.wikipedia.org/wiki/Jerrold_Katz  
4  name:  
5    - Jerrold J. Katz  
6    - Jerrold Katz  
7
```

Line 1, Column 1 Tab Size: 4

NotePad (Windows) | TextEdit (Mac) | Vi (Linux) | <http://www.editpad.org/> (Online)

**MARC**

# Data

头标区	----nam0 22---- 450
ID 号	006783508
通用数据	20130829d2013 em y0chiy50 ea
题名与责任	● 列夫·托尔斯泰文集. 5-8, 战争与和平 [专著] / 刘辽逸译
出版项	● 北京：人民文学出版社, 2013
载体形态项	4册(1503页)：照片；21cm
语言	chirus
主题	● 托尔斯泰 ● 长篇小说 -- 俄罗斯 -- 近代 ● 托尔斯泰 ● 长篇小说
中图分类号	● I512.14 ● I512.44
著者	● (俄)托尔斯泰
附加款目	● 刘辽逸 (1915.1~) 译
所有单册	查看所有馆藏单册信息
馆藏	中文基藏 
馆藏	书刊保存本库 
馆藏	北区中文图书区 

# Data

FMT	BK
LDR	----nam0 22---- 450
001	006783508
005	20130918100808.0
010	a 978-7-02-008386-2  b 精装  d CNY890.00(全17册)
100	a 20130829d2013 em y0chiy50 ea
1011	a chi  c rus
102	a CN  b 110000
105	a a z 000ay
106	a r
2001	a 列夫·托尔斯泰文集  h 5-8  i 战争与和平  b 专著  f 刘辽逸译  9 lie fu · tuo er si tai wen ji
210	a 北京  c 人民文学出版社  d 2013
215	a 4册(1503页)  c 照片  d 21cm
600 0	a 托尔斯泰
6060	a 长篇小说  y 俄罗斯  z 近代
600 0	a 托尔斯泰
6060	a 长篇小说
690	a I512.14  v 5
690	a I512.44  v 5
701 0	c (俄)  a 托尔斯泰
702 0	a 刘辽逸  f (1915.1~)  4 译  9 liu liao yi
090	a I512.1  b tes
096	a I512.1  b lly
CAT	a ZWCFWB8  b 01  c 20130829    NLC01  h 1358

# Syntax

<b>FMT</b>	BK
<b>LDR</b>	00000cam 22003011 4500
<b>001</b>	001643712
<b>005</b>	20110727090642.0
<b>008</b>	730213t19521952ilub 000 1 eng
<b>010</b>	a 55010357
<b>035</b>	9 (DLC) 55010357
<b>040</b>	a DLC  c DLC  d DLC
<b>0411</b>	a engrus
<b>043</b>	a e-fr---  a e-ur---
<b>05000</b>	a AC1  b .G72 vol. 51
<b>08200</b>	a 891.734*
<b>1001</b>	a Tolstoj, Lev Nikolaevič,  d 1828-1910
<b>24010</b>	a Vořna i mir.  l English
<b>24510</b>	a War and peace /  c by Leo Tolstoy; Translated by Louise and Aylmer Maude.
<b>260</b>	a Chicago :  b Encyclopædia Britannica,  c 1952.
<b>300</b>	a xvi, 696 p. :  b maps. ;  c 25 cm.
<b>4900</b>	a Great books of the western world  v 51
<b>651 0</b>	a Russia  x History  y Alexander I, 1801-1825  x Fiction.
<b>650 0</b>	a Napoleonic Wars, 1800-1815  x Campaigns  z Russia  x Fiction.
<b>655 7</b>	a Historical fiction.  2 gsafd
<b>655 7</b>	a War stories.  2 gsafd
<b>7001</b>	a Maude, Louise (Shanks)  d 1855-1939
<b>7001</b>	a Maude, Aylmer,  d 1858-1938.

# Syntax

<b>FMT</b>	BK
<b>LDR</b>	00000cam 22003011 4500
<b>001</b>	001643712
<b>005</b>	20110727090642.0
<b>008</b>	730213t19521952ilub 000 1 eng
<b>010</b>	a 55010357
<b>035</b>	9 (DLC) 55010357
<b>040</b>	a DLC  c DLC  d DLC
<b>0411</b>	a engrus
<b>043</b>	a e-fr---  a e-ur---
<b>05000</b>	a AC1  b .G72 vol. 51
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<b>7001</b>	a Maude, Aylmer,  d 1858-1938.

title: War and peace





# Syntax

<b>FMT</b>	BK
<b>LDR</b>	00000cam 22003011 4500
<b>001</b>	001643712
<b>005</b>	20110727090642.0
<b>008</b>	730213t19521952ilub 000 1 eng
<b>010</b>	a 55010357
<b>035</b>	9 (DLC) 55010357
<b>040</b>	a DLC  c DLC  d DLC
<b>0411</b>	a engrus
<b>043</b>	a e-fr---  a e-ur---
<b>05000</b>	a AC1  b .G72 vol. 51
<b>08200</b>	a 891.734*
<b>1001</b>	a Tolstoj, Lev Nikolaevič,  d 1828-1910
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<b>260</b>	a Chicago :  b Encyclopædia Britannica,  c 1952.
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<b>7001</b>	a Maude, Aylmer,  d 1858-1938.

title: War and peace

year: 1952



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<b>FMT</b>	BK
<b>LDR</b>	00000cam 22003011 4500
<b>001</b>	001643712
<b>005</b>	20110727090642.0
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<b>010</b>	a 55010357
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<b>040</b>	a DLC  c DLC  d DLC
<b>0411</b>	a engrus
<b>043</b>	a e-fr---  a e-ur---
<b>05000</b>	a AC1  b .G72 vol. 51
<b>08200</b>	a 891.734*
<b>1001</b>	a Tolstoj, Lev Nikolaeviĉ,  d 1828-1910
<b>24010</b>	a Voĭna i mir.  l English
<b>24510</b>	a War and peace /  c by Leo Tolstoy; Translated by Louise and Aylmer Maude.
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<b>300</b>	a xvi, 696 p. :  b maps. ;  c 25 cm.
<b>4900</b>	a Great books of the western world  v 51
<b>651 0</b>	a Russia  x History  y Alexander I, 1801-1825  x Fiction.
<b>650 0</b>	a Napoleonic Wars, 1800-1815  x Campaigns  z Russia  x Fiction.
<b>655 7</b>	a Historical fiction.  2 gsafd
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<b>7001</b>	a Maude, Louise (Shanks)  d 1855-1939
<b>7001</b>	a Maude, Aylmer,  d 1858-1938.

title: War and peace

year: 1952

author:

first: Lev Nikolaeviĉ

last: Tolstoj

# Task

\* Use the RUG01 collection. Find the MARC fields for:

- \* title
- \* language
- \* subject
- \* isbn
- \* issn
- \* extent (number of pages)
- \* issued (the year of publication)
- \* publication type
- \* authors
- \* publisher

\* Hint: <http://www.loc.gov/marc/bibliographic/>

\* Write down any operations that are need to get an exact answer.

# Task

\* Write a Catmandu Fix to extract all the fields from the example RUG01 records

# Linked Data

## Hochstenbach

Daily doodles, sketches and cartoons

About



Cartoon Class, Comics

### The Penguin & The Shark

Here is it is! My three page comic completely inked. Learned a bit more about inking in Adobe Illustrator this week. Used a 3 point rounded brush (15% angle, rounding 50%, 3pt variation). The fonts are WildAndCrazy (text), Bedboom ("bam!")

November 11, 2013 / Leave a comment



Cartoon Class, Cartoons, Color, Comics, Doodles, Sketches

### Creating a comic

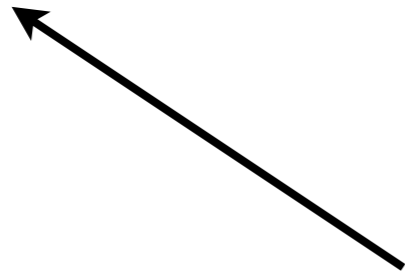


Figure Drawing, Sketches

### Figure drawing on Mondays

I think the model today had a

<http://hochstenbach.wordpress.com>



**Hochstenbach**

About

Daily doodles, sketches and cartoons



Cartoon Class, Comics

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November 11, 2013 / Leave a comment



Cartoon Class, Cartoons, Color, Comics, Doodles, Sketches

### Creating a comic



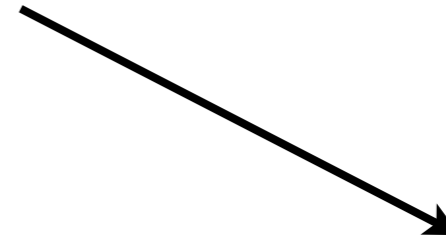
Figure Drawing, Sketches

### Figure drawing on mondays

I think the model today had a



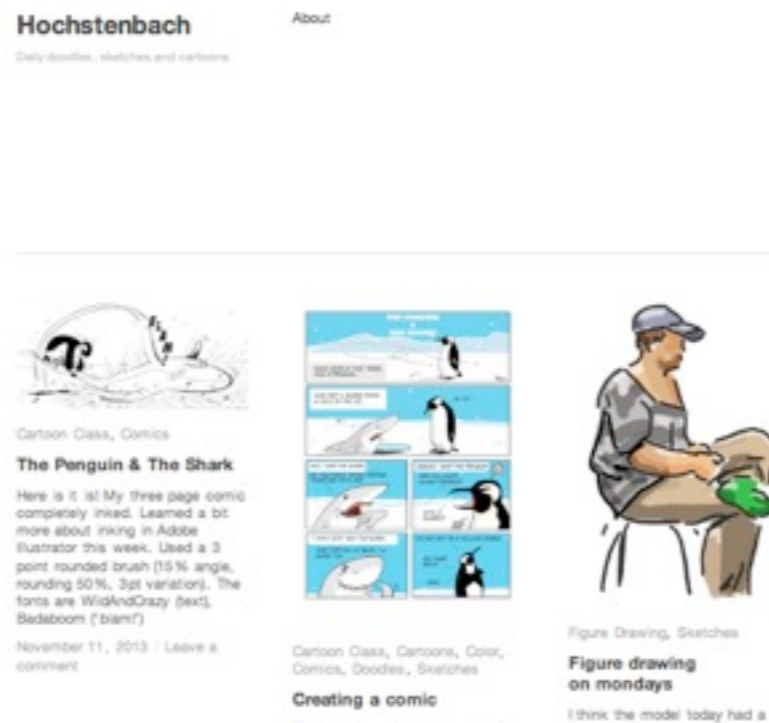
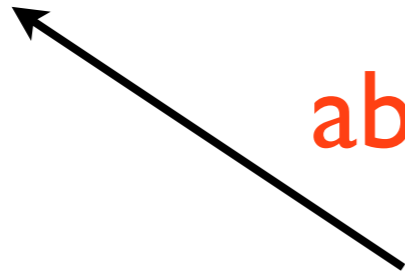
“Daily doodles, sketches and cartoons”



<http://liesbethdestercke.tumblr.com/>

<http://hochstenbach.wordpress.com>

about

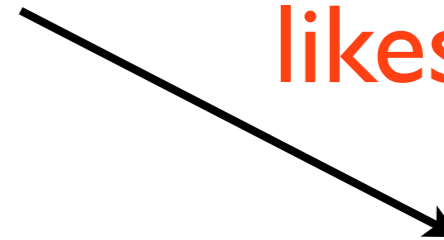


title



“Daily doodles, sketches and cartoons”

likes



<http://liesbethdestercke.tumblr.com/>





Cartoon Class, Comics

**The Penguin & The Shark**

Here is it is! My three page comic completely inked. Learned a bit more about inking in Adobe Illustrator this week. Used a 3 point rounded brush (15% angle, rounding 50%, 3pt variation). The fonts are WildAndCrazy (text), Badboom ("biam")

November 11, 2013 · Leave a comment



Cartoon Class, Cartoons, Color, Comics, Doodles, Sketches  
**Creating a comic**



Figure Drawing, Sketches

**Figure drawing on Mondays**

I think the model today had a

likes

<http://liesbethdestercke.tumblr.com/>



“Liesbeth De Stercke”

rtoons”



Cartoon Class, Comics

### The Penguin & The Shark

Here is it! My three page comic completely inked. Learned a bit more about inking in Adobe Illustrator this week. Used a 3 point rounded brush (15% angle, rounding 50%, 3pt variation). The fonts are WildAndCrazy (text), Badboom ("biam")

November 11, 2013 · Leave a comment



Cartoon Class, Cartoons, Color, Comics, Doodles, Sketches

### Creating a comic

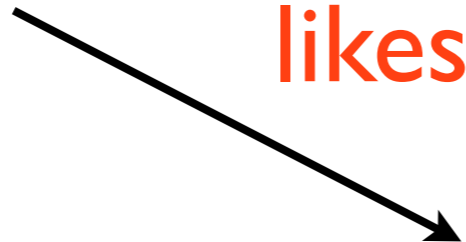


Figure Drawing, Sketches

### Figure drawing on Mondays

I think the model today had a

likes

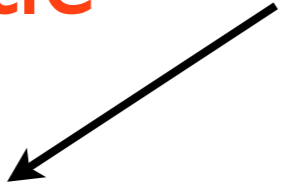


<http://liesbethdestercke.tumblr.com/>

about



title



“Liesbeth De Stercke”

likes



rtoons”

...add image of that bubble network here...

# RDF

# Triple

**subject**

**predicate**

**object**

<http://hochstenbach.wordpress.com>

<http://purl.org/dc/elements/1.1/creator>

“Patrick Hochstenbach”

# Triple

**subject**

**predicate**

**object**

<a href="http://hochstenbach.wordpress.com">http://hochstenbach.wordpress.com</a>	<a href="http://purl.org/dc/elements/1.1/creator">http://purl.org/dc/elements/1.1/creator</a>	“Patrick Hochstenbach”
<a href="http://hochstenbach.wordpress.com">http://hochstenbach.wordpress.com</a>	<a href="http://purl.org/dc/elements/1.1/title">http://purl.org/dc/elements/1.1/title</a>	“Daily doodles, sketches and cartoons”
<a href="http://liesbethdestercke.tumblr.com/">http://liesbethdestercke.tumblr.com/</a>	<a href="http://purl.org/dc/elements/1.1/creator">http://purl.org/dc/elements/1.1/creator</a>	“Liesbeth De Stercke”
<a href="http://liesbethdestercke.tumblr.com/">http://liesbethdestercke.tumblr.com/</a>	<a href="http://purl.org/dc/elements/1.1/title">http://purl.org/dc/elements/1.1/title</a>	“Liesbeth De Stercke”

# Vocabulary

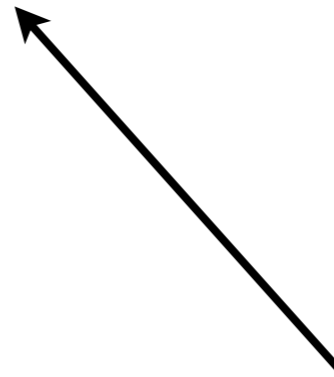
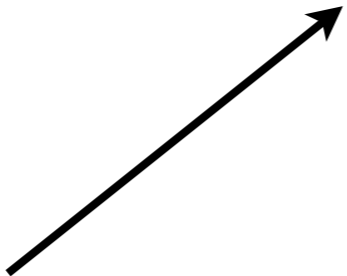
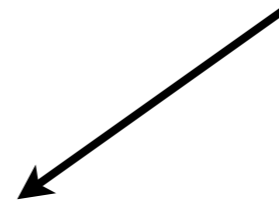
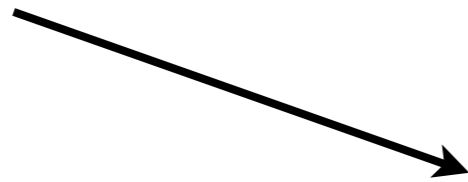
Author

Main Entry - Personal Name



Creator

100-\$\$a



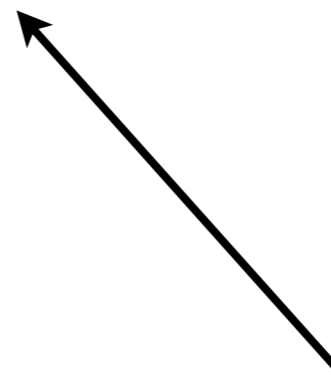
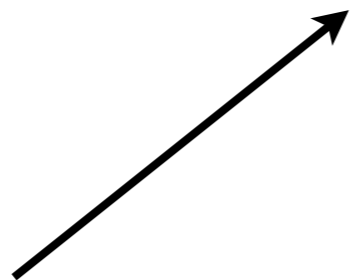
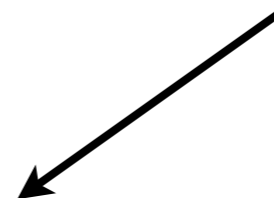
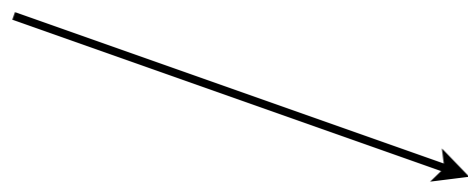
# Vocabulary

<http://patrick.com/patricks/vocabulary>

**Author**

<http://www.loc.gov/marc/bibliographic/>

**Main Entry - Personal Name**



**Creator**

<http://purl.org/dc/elements/1.1/>

**100-\$\$a**

<http://www.iso.org/ISO-2709:2008>



# Task

- \* Write down the personal information about yourself from YAML into a tabular form subject, predicate, object.
- \* Write all the subjects and predicates in the form of a URL.
- \* Create linked data pointing to the personal information of others.

# Serialization

# RDF/XML

```
<?xml version="1.0"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:wgspos="http://www.w3.org/2003/01/geo/wgs84_pos#"
xmlns:ns="http://purl.org/dc/elements/1.1/" xmlns:ns1="http://xmlns.com/foaf/0.1/">
  <rdf:Description rdf:about="http://hochstenbach.wordpress.com">
    <ns:title xml:lang="en">Doodles</ns:title>
    <wgspos:location wgspos:lat="9.93492" wgspos:long="51.539371" />
    <ns1:age rdf:datatype="http://www.w3.org/2001/XMLSchema#integer">42</ns1:age>
    <ns1:workplaceHomepage rdf:resource="http://lib.ugent.be/" />
  </rdf:Description>
</rdf:RDF>
```

# RDF/Turtle

```
@prefix dc: <http://purl.org/dc/elements/1.1/> .
```

```
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
```

```
<http://hochstenbach.wordpress.com>
```

```
dc:title "Doodles"@en ;
```

```
geo:location [
```

```
  geo:lat "9.93492" ;
```

```
  geo:long "51.539371"
```

```
];
```

```
foaf:age 42 ;
```

```
foaf:workplaceHomepage <http://lib.ugent.be/> .
```

# aRDF

```
---
'_id': http://hochstenbach.wordpress.com
dc:title: Doodles@en
foaf:age: 42^^xsd:integer
foaf:workplaceHomepage:
  '@id': http://lib.ugent.be
geo:location:
  geo:lat: 9.93492
  geo:long: 51.539371
```

# Turtle

# Triple

**subject**

**predicate**

**object**

http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/creator	“Patrick Hochstenbach”
-----------------------------------	---	------------------------

<http://hochstenbach.wordpress.com> <http://purl.org/dc/elements/1.1/creator> “Patrick Hochstenbach” .

<http://hochstenbach.wordpress.com>

<http://purl.org/dc/elements/1.1/creator> “Patrick Hochstenbach” .

# Prefix

**subject**

**predicate**

**object**

<http://hochstenbach.wordpress.com>

<http://purl.org/dc/elements/1.1/creator>

“Patrick Hochstenbach”

@prefix dc: <<http://purl.org/dc/elements/1.1/>> .

<<http://hochstenbach.wordpress.com>>

dc:creator

“Patrick Hochstenbach” .



# Subjects “;”

**subject**

**predicate**

**object**

http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/creator	“Patrick Hochstenbach”
http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/title	“Daily doodles, sketches and cartoons”

@prefix dc: <http://purl.org/dc/elements/1.1> .

<http://hochstenbach.wordpress.com>

dc:creator

“Patrick Hochstenbach” .

<http://hochstenbach.wordpress.com>

dc:title

“Daily doodles, sketches and cartoons” .

# Subjects “;”

**subject**

**predicate**

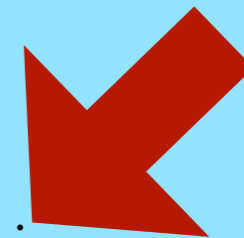
**object**

http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/creator	“Patrick Hochstenbach”
http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/title	“Daily doodles, sketches and cartoons”

@prefix dc: <http://purl.org/dc/elements/1.1> .

<http://hochstenbach.wordpress.com>  
dc:creator  
dc:title

“Patrick Hochstenbach” ;  
“Daily doodles, sketches and cartoons” .



# Objects “,”

**subject**

**predicate**

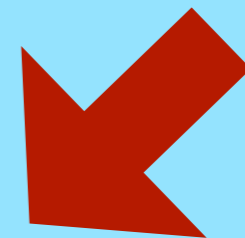
**object**

http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/creator	“Patrick Hochstenbach”
http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/title	“Daily doodles, sketches and cartoons”
http://hochstenbach.wordpress.com	http://purl.org/dc/elements/1.1/title	“Hochstenbach”

@prefix dc: <http://purl.org/dc/elements/1.1> .

<http://hochstenbach.wordpress.com>  
dc:creator  
dc:title

“Patrick Hochstenbach” ;  
“Daily doodles, sketches and cartoons” ,  
“Hochstenbach” .



# Task

\* Write your personal information from the tabular format into the Turtle language.

\* Validate your Turtle at <http://www.rdfabout.com/demo/validator/>

aRDF

# Literals

@prefix dc: <http://purl.org/dc/elements/1.1/> .

<http://hochstenbach.wordpress.com>

dc:title "Daily doodles, sketches and cartoons" .

**\_id:** http://hochstenbach.wordpress.com

**dc:title:** "Daily doodles, sketches and cartoons"

add\_field('\_id','http://hochstenbach.wordpress.com');

add\_field('dc:title','Daily doodles, sketches and cartoons');

<http://dublincore.org/documents/dcmi-terms/>

# Language

@prefix dc: <http://purl.org/dc/elements/1.1/> .

<http://hochstenbach.wordpress.com>

dc:title "Daily doodles, sketches and cartoons"@en.

**\_id:** http://hochstenbach.wordpress.com

**dc:title:** "Daily doodles, sketches and cartoons"@en"

add\_field('\_id','http://hochstenbach.wordpress.com');

add\_field('dc:title','Daily doodles, sketches and cartoons@en');

# Numbers

```
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
```

```
<http://hochstenbach.wordpress.com>
```

```
foaf:age
```

```
“42”^^xsd:integer .
```

```
_id: http://hochstenbach.wordpress.com
```

```
foaf:age: 42^^xsd:integer
```

```
add_field(‘_id’,http://hochstenbach.wordpress.com’);
```

```
add_field(‘foaf:age’,‘42^^xsd:integer’);
```

<http://xmlns.com/foaf/spec/>



# XSD Data Types

- `xsd:string` , `xsd:language`
- `xsd:date` , `xsd:time` , `xsd:dateTime` ,  
`xsd:duration`
- `xsd:integer` , `xsd:float`

[http://www.w3schools.com/schema/schema\\_dtypes\\_date.asp](http://www.w3schools.com/schema/schema_dtypes_date.asp)

# URI Reference

```
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
```

```
<http://hochstenbach.wordpress.com>
```

```
foaf:workplaceHomepage
```

```
<http://lib.ugent.be>.
```

```
_id: http://hochstenbach.wordpress.com
```

```
foaf:workplaceHomepage: http://lib.ugent.be
```

```
add_field('_id','http://hochstenbach.wordpress.com');
```

```
add_field('foaf:workplaceHomepage','http://lib.ugent.be');
```

```
http://xmlns.com/foaf/spec/
```

# Blank Node

@prefix geo: <http://www.w3.org/2003/01/geo/wgs84\_pos#> .

<http://hochstenbach.wordpress.com>

geo:location	_:blabla.
_:blabla	geo:lat
	geo:long
	“51.0500” ;
	“3.7167” .

**\_id:** http://hochstenbach.wordpress.com

**geo:location.geo:lat:** 51.0500

**geo:location.geo:long:** 3.7167

add\_field(‘\_id’,http://hochstenbach.wordpress.com’);

add\_field(‘geo:location.geo:lat’,‘51.0500’);

add\_field(‘geo:location.geo:long’,‘3.7167’);

# Class

```
@prefix foaf: <http://xmlns.com/foaf/0.1/> .
```

```
<http://hochstenbach.wordpress.com> a foaf:Person .
```

**\_id:** http://hochstenbach.wordpress.com

**a:** foaf:Person

```
add_field('_id','http://hochstenbach.wordpress.com');
```

```
add_field('a','foaf:Person');
```

<http://code.google.com/p/bibotools/source/browse/bibo-ontology/tags/1.0/bibo.n3>

# Task

\* Translate the Turtle below in aRDF

```
@prefix dc: <http://purl.org/dc/elements/1.1/> .
```

```
<http://swib.org> dc:title "Semantic Web in Libraries" .
```

# Task

- \* Use Mongo Admin Test to create the following Turtle expression:

```
@prefix dc: <http://purl.org/dc/elements/1.1/> .  
<http://swib.org> dc:title "Semantic Web in Libraries" .
```

- \* Add code to specify this is an English title
  - \* Add a title in another language
- \* Add the number of times you attended SWIB in dc:extent
  - \* Create an integer value out of dc:extent
  - \* Classify swib.org as a FOAF 'Organization'
- \* Express that SWIB is a member of the HBZ <http://www.hbz-nrw.de/>

# Task

Convert the rug01 MARC records to RDF  
using

<https://wiki.lhbz-nrw.de/display/SEM/Converting+the+Open+Data+from+the+hbz+to+BIBO>

as example

Hint: translate the mapping to MARC

<http://www.loc.gov/marc/bibliographic/>

# Linked Data



# cmp\_field

```
marc_map('008/7-10','year');  
cmp_field('year', '1990');
```

- `year == 1` if `year > 1900`
- `year == 0` if `year == 1900`
- `year == -1` if `year < 1900`

# count

```
add_field('author.$append','James');  
add_field('author.$append','Jones');  
count('author');
```

author == 2

# weave\_by\_id

```
weave_by_id('cover');
```

lookup contains the complete record  
from the store 'covers' where '\_id' is the  
current record id

# weave\_by\_query

```
add_field('lookup.name','Jerrold Katz');  
weave_by_query('lookup', -store=>'author');
```

lookup contains the complete record  
from the store 'author' where 'name' is  
'Jerrold Katz'

# Task

- \* Find for some RUG01 records the URL to a cover image
- \* Create a YAML file in Notepad containing the '\_id' of the RUG01 record and the 'cover\_remote' URL to the image
  - \* Upload the YAML file into the cover database
  - \* Use `weave_by_id` to test insert the image into the record
    - \* Find an appropriate RDF expression for this URL

# Task

- \* Find for some RUG01 record the author name in Wikipedia (or any other authoritative page)
- \* Create a YAML file in Notepad containing the author 'name' and 'url' the his website
  - \* Upload the YAML file in the author database
- \* Use `weave_by_query` to lookup the author name for the record
  - \* Find an appropriate RDF expression for this URL