

# ISKO UK

**SCENT for GLAM: a tool for giving  
meaning to professional controlled  
vocabularies**

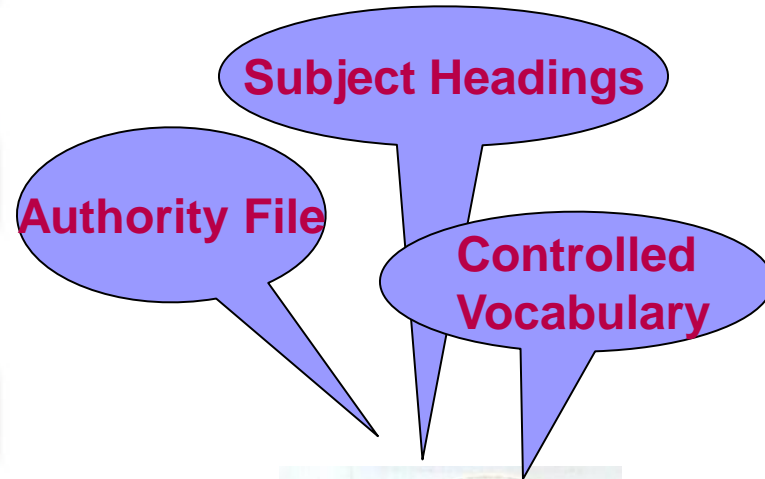
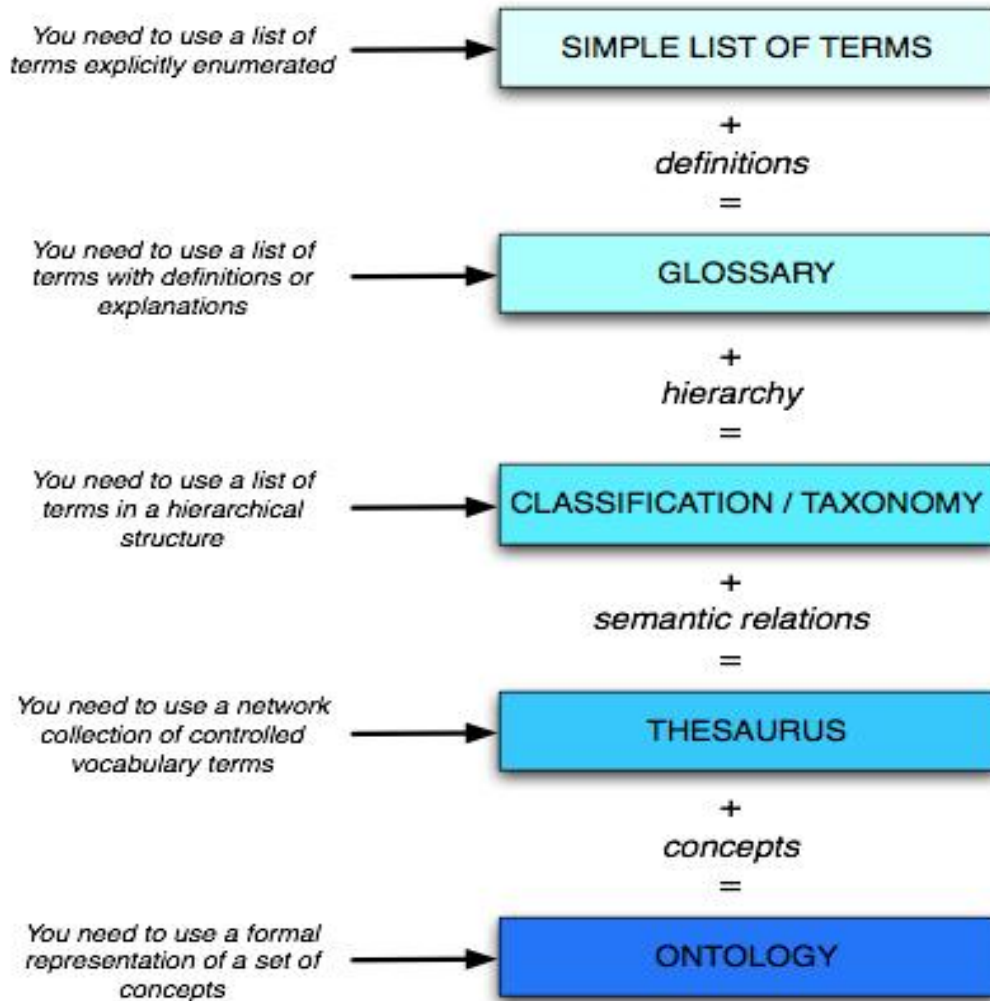
**Marie-Véronique Leroi  
Florent André**

# Outline

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- 1. Terminology?**
- 2. Recommendations**
- 3. Semantic Web**
- 4. Licences**
- 5. Term vs Concept**
- 6. SKOS**
- 7. Scent For Glam**
- 8. Roadmap and conclusions**

# Terminology?



# Recommendations

“Your terminology as part of the semantic web”

“TERMINOLOGY” COVERS SEVERAL TYPES OF VOCABULARIES: LEXICON, THESAURUS, CONTROLLED VOCABULARY, ONTOLOGY...  
THE TYPE OF VOCABULARY IS HIGHLY CONNECTED TO ITS PURPOSE (INDEXATION, SEARCH AND RETRIEVAL, TRANSLATION, ...). SKOSIFYING YOUR TERMINOLOGY IS A CRUCIAL STEP TO SHARE IT AND TO CONNECT IT TO OTHER TERMINOLOGY RESOURCES AND TO IMPROVE MULTILINGUALISM AT EUROPEAN LEVEL.  
[www.athenaeurope.org/athenawiki](http://www.athenaeurope.org/athenawiki)

<http://www.linkedheritage.org> | [info@linkedheritage.org](mailto:info@linkedheritage.org)

YOUR TERMINOLOGY  
AS A PART OF THE SEMANTIC WEB  
RECOMMENDATIONS  
FOR DESIGN AND MANAGEMENT

Logos: cip, LINKED HERITAGE, europeana project group member, MIBAC, MINISTERO PER I BENI E LE ATTIVITÀ CULTURALI, MichaelCulture Association.

## Recommendations

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- A : Create or adapt an existing terminology
- B : Technical implementation of the created or adapted terminology (in the perspective of the Semantic Web)
- C : Linking of the SKOSified terminology with other resources (in the perspective of Linked Open Data)

# Recommendations

A

CONCEIVE YOUR  
TERMINOLOGY

- ❑ **Conceive a terminology : Create or adapt an existing terminology**
  - Definition of domains, expected users, terms and their organisation
  - Multilingualism
  - Technical implementation

B

MAKE IT  
INTEROPERABLE

- ❑ **Make the terminology interoperable : Technical implementation (→ Semantic Web)**
  - SKOS and SKOSification
  - Validation of concepts, labels, documentation and general structure
  - Multilingualism

C

LINK IT TO A  
NETWORK

- ❑ **Link the terminology to a network : Linking with other resources (→ Linked Data)**
  - Metadata on the terminology
  - Mapping with other resources

# The Semantic Web

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## What?

- Introduced in 2001 by Tim Berners-Lee
- Collaborative effort led by W3C
- Evolution of the Web of documents

**Principle?** share and reuse data on the Web (semantic interoperability)

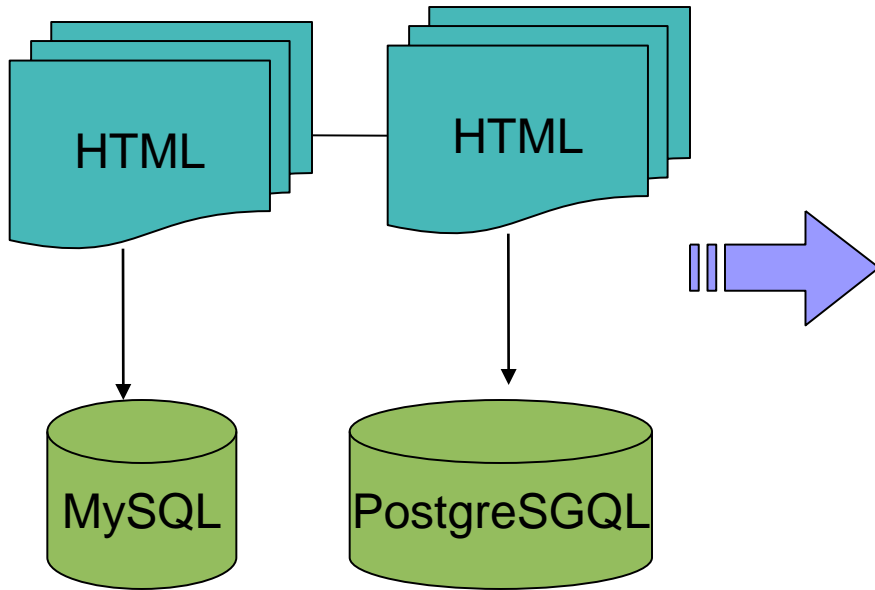
**Why?** better search results, irrespective of language

**How?** By automatically linking “separate” data on the Web (linked data); by inter-thesauri mapping

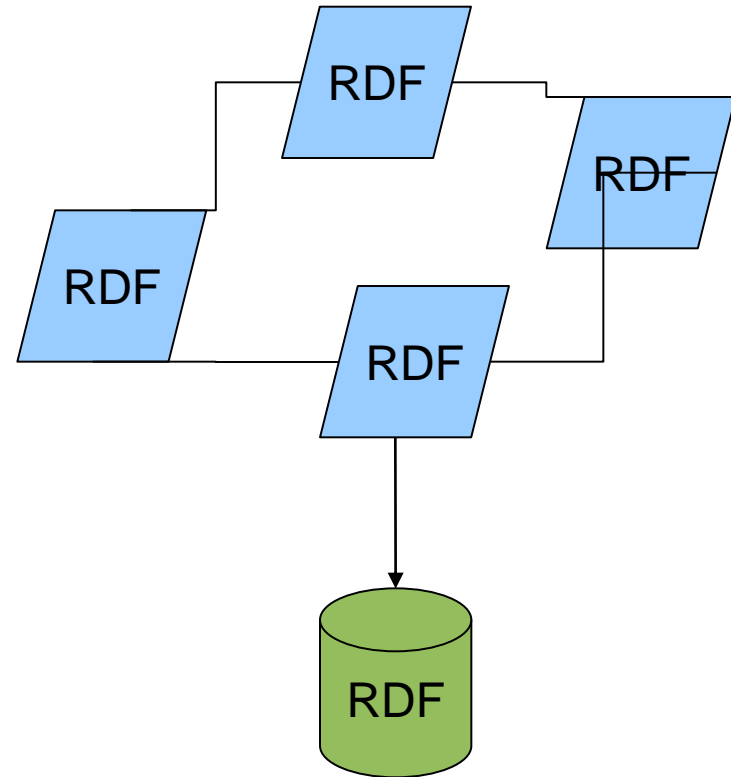
**Tools?** Allow machines to understand the meaning, or “semantics”, of information on the Web

Thesauri can serve as a basis for developing domain-specific ontologies

# Web of data



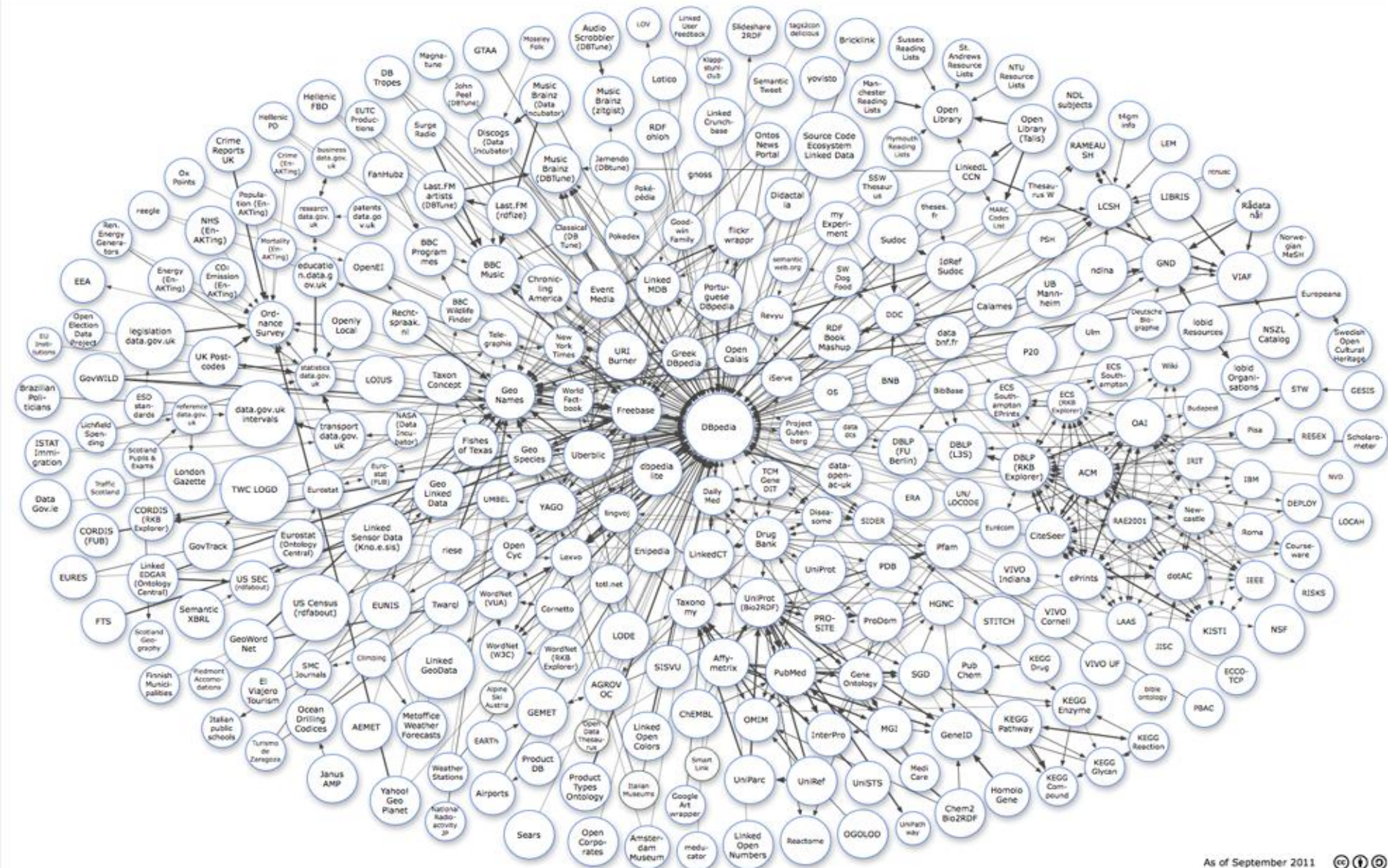
Web of Documents



Web of Data



# Linked Open Data Cloud



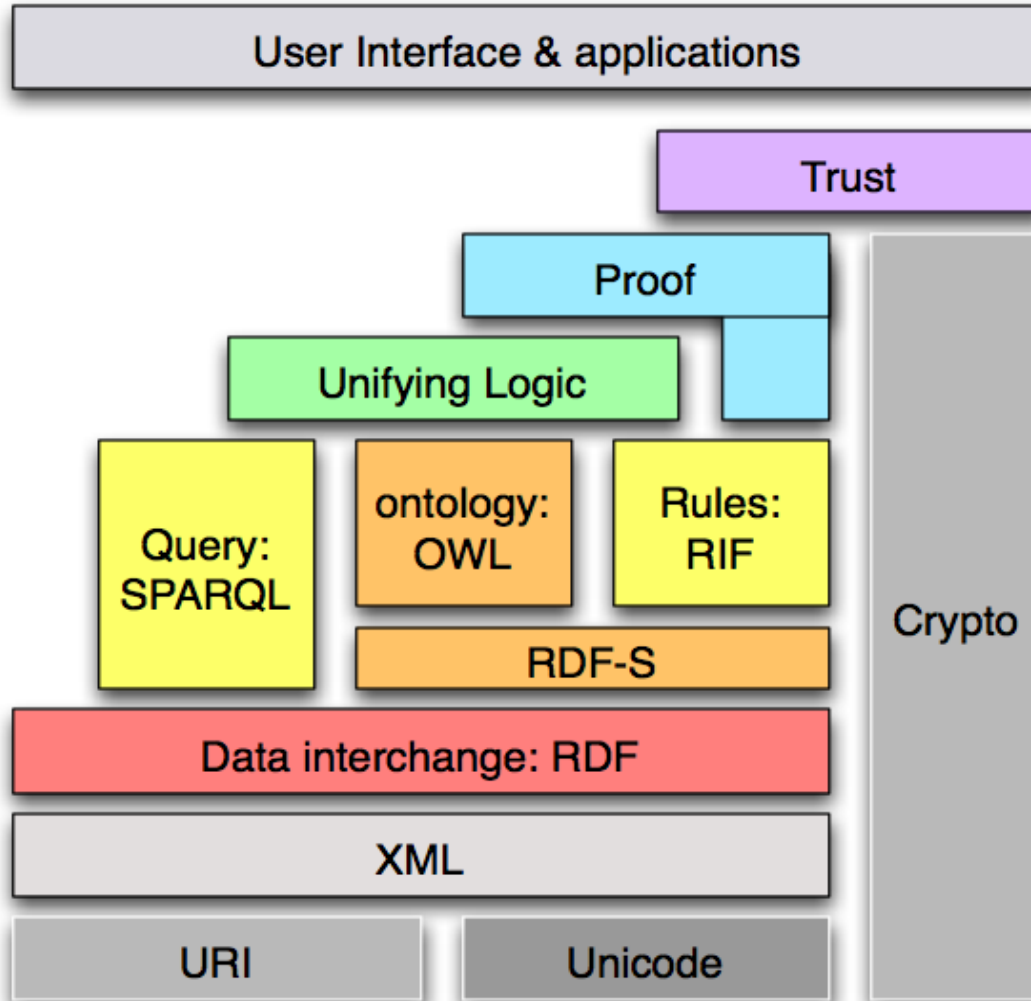
# Linked Data Principles

1. Use URIs as names for things
2. Use HTTP URIs so that people can look up those names.
3. When someone looks up a URI, provide useful information.
4. Include links to other URIs. so that they can discover more things.



- ★ Available on the web (whatever format) but with an open licence, to be Open Data
- ★★ Available as machine-readable structured data (e.g. excel instead of image scan of a table)
- ★★★ as (2) plus non-proprietary format (e.g. CSV instead of excel)
- ★★★★ All the above plus, Use open standards from W3C (RDF and SPARQL) to identify things, so that people can point at your stuff
- ★★★★★ All the above, plus: Link your data to other people's data to provide context

# The Semantic Web Stack



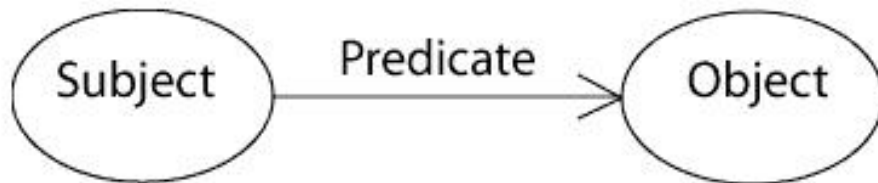
## Why joining the Semantic Web?

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- **Keep providing the same quality of service as a public institution and improve it**
  - **Give access to structured and normalised cultural data**
  - **Be part of the Linked Open Data Cloud**
  - **Enhance the semantic interoperability at national and international level**
  - **Enhance the visibility of your collections and professional knowledge**
  - **Help the user in getting optimised results to specific requests**
  - **Be a trusted source of cultural data**

# SKOS/RDF

## - Rdf : Resource Description Framework

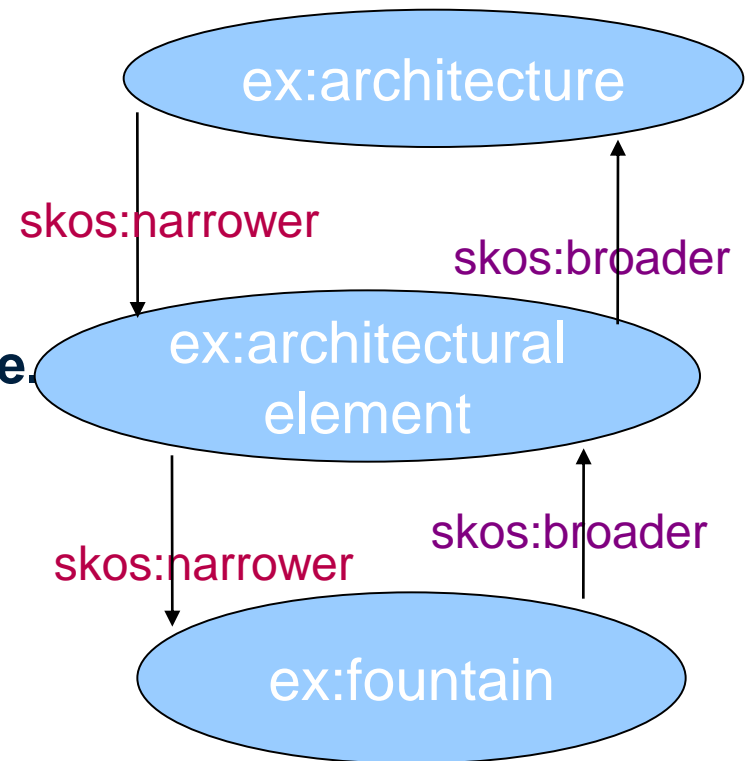


## - Each information is structured as a triple.








## - Subjects and objects have an URI

## - URI = Unique identifier

## - URI = one of the Semantic Web & Linked Data principle



# Licences

License logo	License name	Description
	Attribution CC BY	<ul style="list-style-type: none"> <li>- Distribution, remix, tweak, and build upon your work, even commercially ;</li> <li>- Mention of the author as credit for the original creation.</li> </ul>
	Attribution-ShareAlike CC BY-SA	<ul style="list-style-type: none"> <li>- Remix, tweak, and build upon your work even commercially ;</li> <li>- Mention of the author as credit for the original creation.</li> <li>- The new work will itself be distributed with the same license and terms</li> </ul>
	Attribution-NonCommercial CC BY-NC	<ul style="list-style-type: none"> <li>- Redistribution commercial or non commercial</li> <li>- mention of the author as credit for the original creation.</li> <li>- No modification at all on the original work</li> </ul>
	Attribution-NonCommercial-ShareAlike CC BY-NC-SA	<ul style="list-style-type: none"> <li>- Remix, tweak, and build upon your work non-commercially ;</li> <li>- Mention of the author as credit for the original creation.</li> </ul>
	Attribution-NonCommercial-ShareAlike CC BY-NC-SA	<ul style="list-style-type: none"> <li>- Remix, tweak, and build upon your work non-commercially,</li> <li>- Mention of the author as credit for the original creation.</li> <li>- The new work will itself be distributed with the same license and terms</li> </ul>
	Attribution-NonCommercial-NoDerivs CC BY-NC-ND	<ul style="list-style-type: none"> <li>- Mention of the author as credit for the original creation.</li> <li>- No modification at all on the original work</li> <li>- Non commercial distribution of the work</li> </ul>
	CC0-"No Rights Reserved"	<ul style="list-style-type: none"> <li>- Others can completely and freely build upon your work without any copyright restriction.</li> <li>- The original work is considered as public domain one.</li> <li>- No more copyright or credit for the original creation</li> </ul>

Creative Commons licenses description

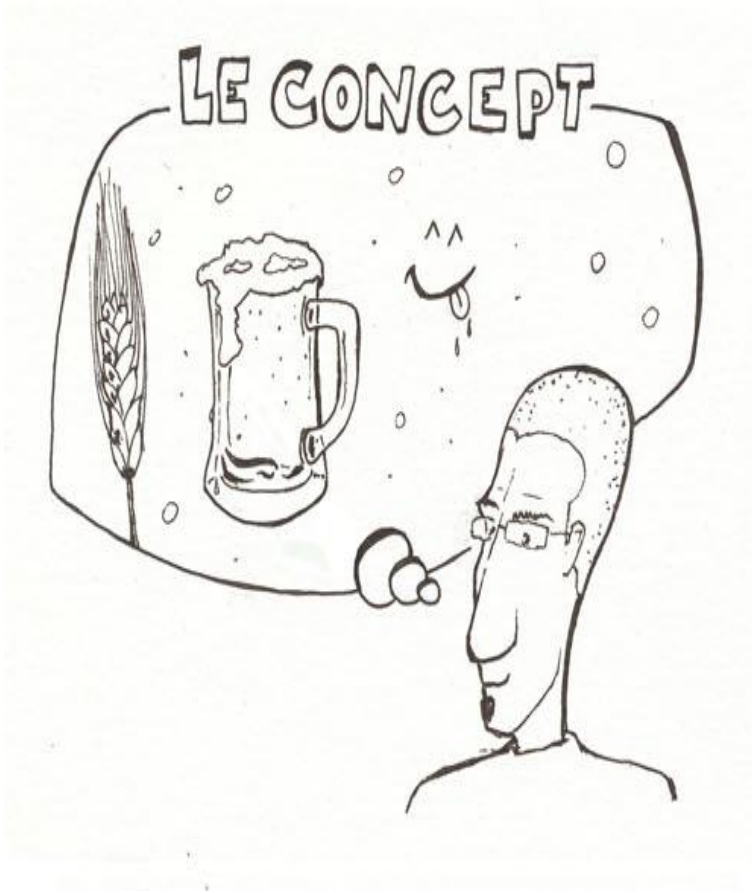
- ❑ Each institution is responsible for the licenses applied to their terminologies
- ❑ We recommend the use of a Creative Commons licence (CC-BY-SA or CC0) which are compliant with Open Data
- ❑ CC-BY-SA is the license in use in the Wikipedia model; CC0 in Europeana

# SKOS : Something Kool Original and Sexy

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- **Simplified Knowledge Organisation System (SKOS)**
- **Recommendation of the W3C since August 2009**
- **Interoperable format for thesaurus**
- **Descriptors became SKOS concepts expressed with labels as preferred terms (non-descriptors = non-preferred terms = alternative labels)**
- **Ideal compromise between a thesaurus and an ontology**

## Term vs Concept : The concept



### ■ The concept

- A concept is defined as a unit of thought
- Concepts can often be expressed in a variety of different ways. They exist in the mind as abstract entities independent of terms used to express them.
- There is no notion of language for the concept but only for the terms expressing the concept



## Term vs Concept : The term

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### ■ The term

- A term is defined as a word or phrase used to label a concept
- Examples : hops, leaven, pint, ...
- Thesaurus terms can be either preferred terms or non-preferred terms (descriptors/non-descriptors)

## Term vs Concept : the object

L'OBJET



MAIS



## SKOS : Short tutorial (1)

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- **Concept** : unit of thought (*skos:Concept*)
- **Concept scheme** : groups of concepts, micro-thesaurus (*skos:ConceptScheme*)
- **Collection** : thematic groups of concepts (*skos:Collection*)
- **Concepts are expressed with labels** :
  - Preferred Label : *skos:prefLabel*
  - Alternative label : *skos:altLabel*
  - Hidden Label : *skos:hiddenLabel*
- **Concepts are documented with notes**:  
*skos:note, skos:scopeNote, skos:editorialNote, skos:changeNote, skos:historyNote*

## SKOS : Short tutorial (2)

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### - Semantic relations :

- Hierarchical : *skos:broader / skos:narrower*
- Associative : *skos:related*

### - Mapping relations :

- Equivalence : *skos:exactMatch / skos:closeMatch*
- Hierarchical : *skos:broadMatch / skos:narrowMatch*
- Associative : *skos:relatedMatch*

### - Transitive relations:

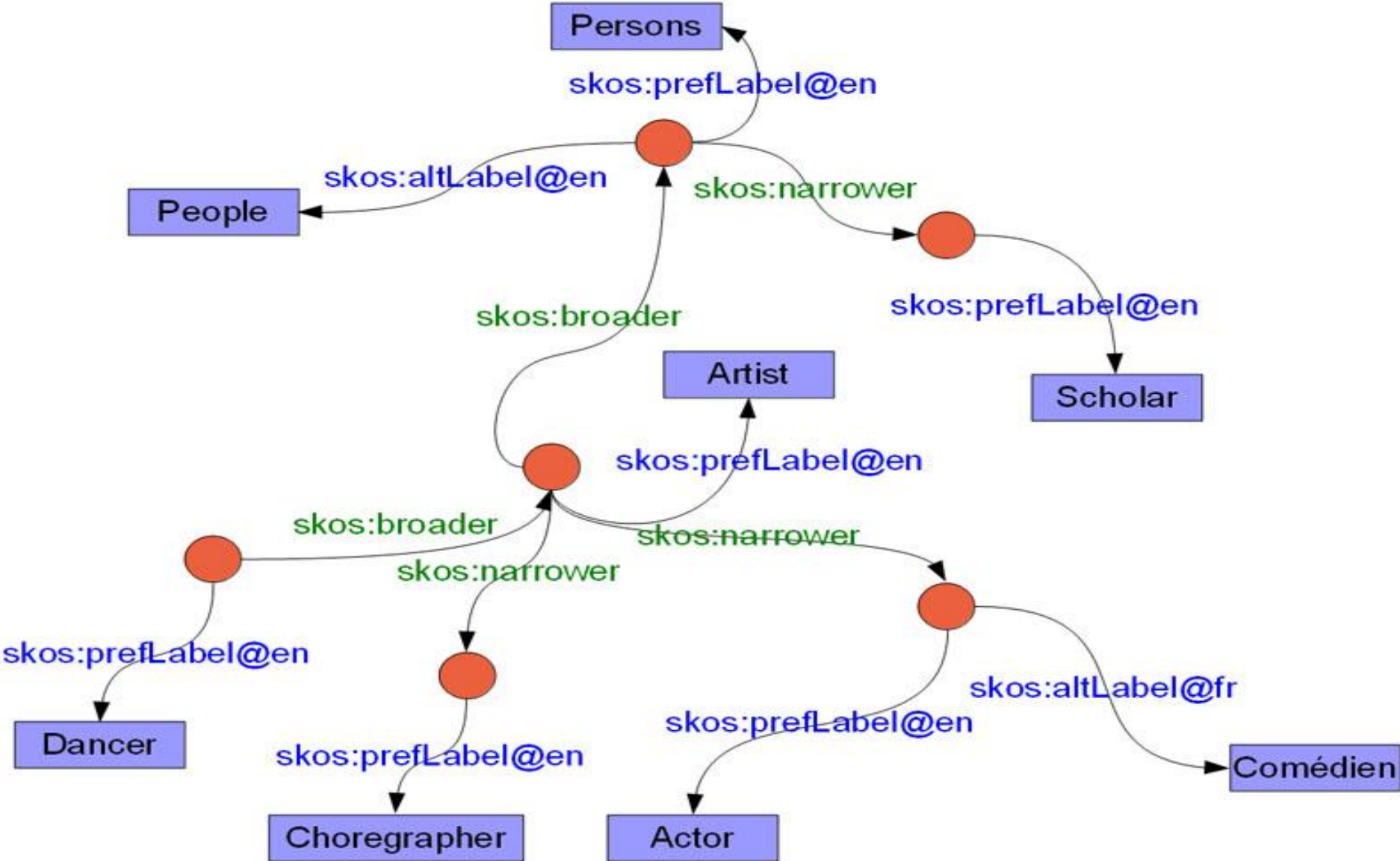
- Hierarchical : *skos:broaderTransitive / skos:narrowerTransitive*
- Associative : *skos:relatedTransitive*

## SKOS : Some basic rules

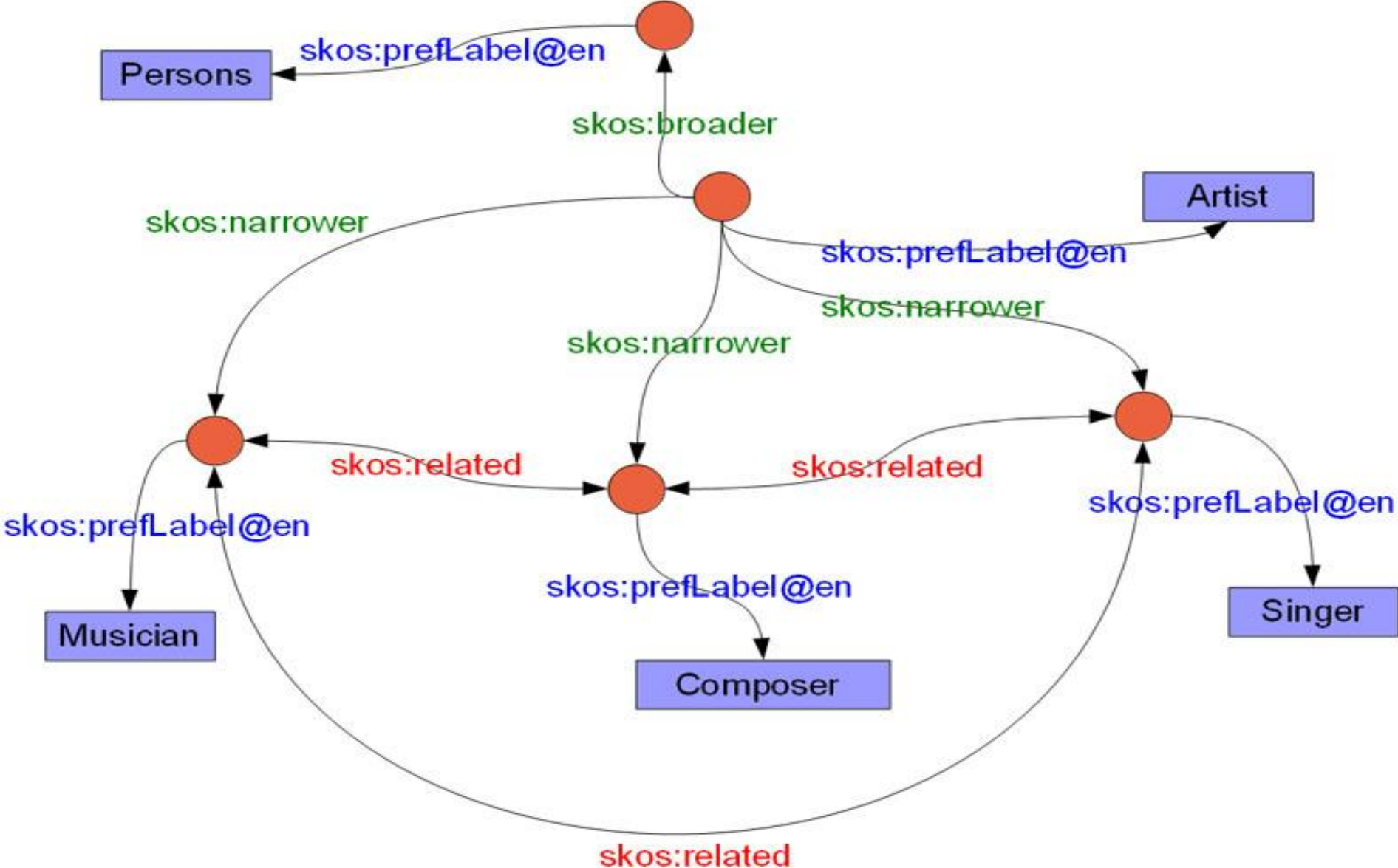
---

- prefix *skos* to state that these are SKOS/RDF triples
- Distinction between classes and properties thanks to the upper case letter right after the *skos*:
- Only one preferred label per language for one concept
- One concept can have as many preferred labels as required
- Semantic hierarchical relations (*skos:broader* / *skos:narrower* ) are inverse properties
- Distinction between standard properties and transitive properties.

# SKOS : Relations



# SKOS : Relations



## Question of point of view





# SKOS example

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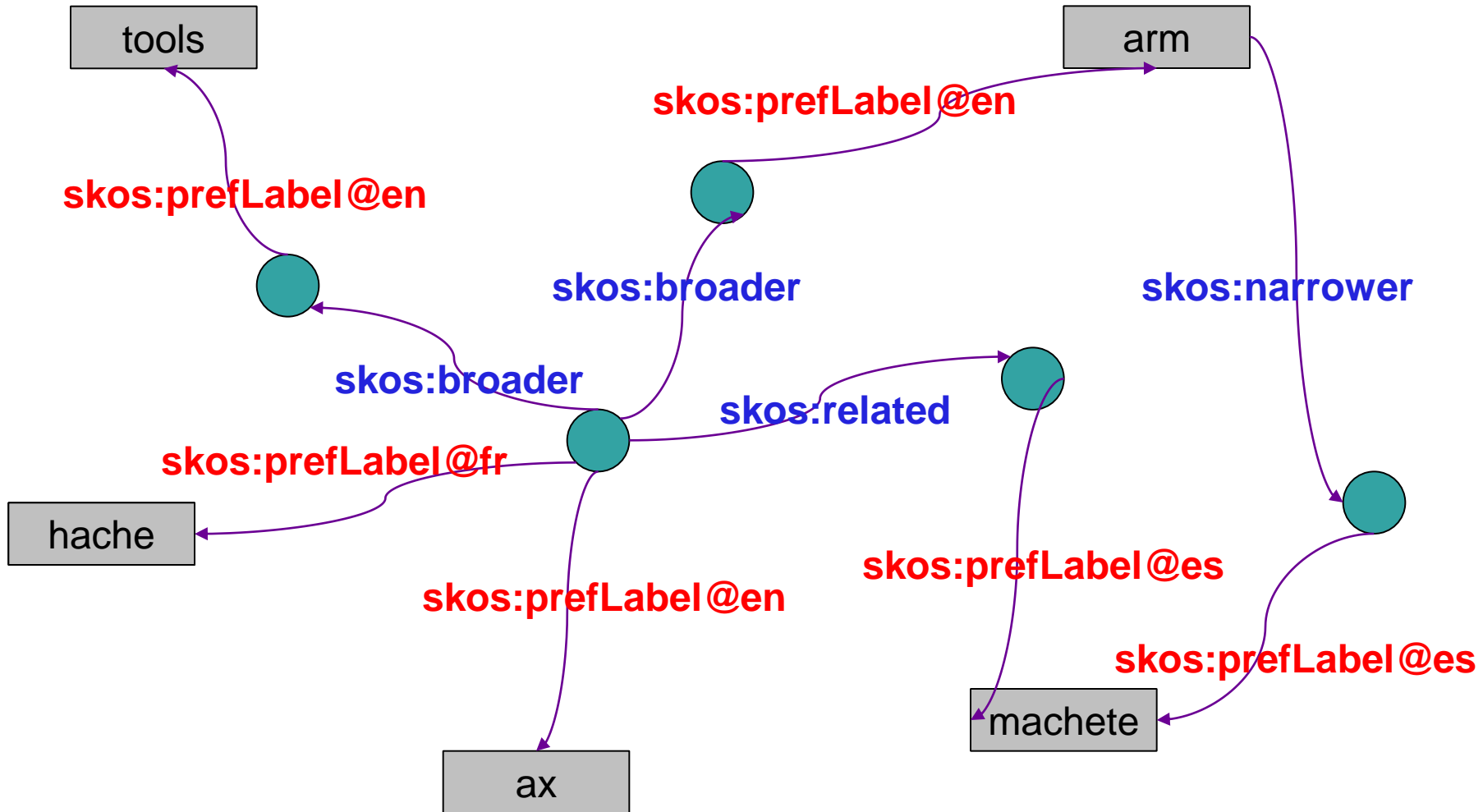
## - Tools

- Hammer
- Saw
- **Ax**

## - Arm

- Firearm
  - Gun
  - Pistol
- Cold steel
  - Sword
  - **Ax**
  - Crossbow

# SKOS example



# SKOS example

machete



This wallpaper made by redfill from Belverance. Main theme: Machete. See more my works at [www.redfillart.com](http://www.redfillart.com). Thanks a lot if you choose my work. Release date: 30 January 2010

# Example : JocondeLab

Français **English** Italiano Español Deutsch Português العربية Русский 简体中文 日本語 Català Euskara Brezhoneg Occitan

Joconde**Lab** » Home

## Welcome to JocondeLab

### About

Learn more about the JocondeLab experiment.

### World map

Discover the world through the collections of national museums of France.

### Chronology

Discover the collections of French national museums over time

### Index term

Select an artist, a portrayed subject, a field or an era with a single click

### Contribute

Help us describe the subject of an artwork via Wikipedia

### Creations gallery

Work by students of the Gobelins school.



**298597** works of French museums



# Example : JocondeLab

Français **English** Italiano Español Deutsch Português العربية Русский 简体中文 日本語 Català Euskara Brezhoneg Occitan

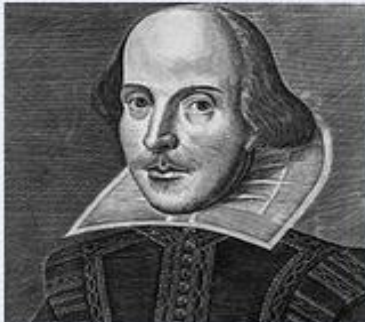
Joconde**Lab** » Results for: "William Shakespeare"

Home About World map Chronology Index term Contribute Creations gallery

William Shakespeare »



About **130** results for '**William Shakespeare**'



## William Shakespeare

Source: [Wikipedia](#)

William Shakespeare (baptised 26 April 1564; died 23 April 1616) was an English poet and playwright, widely regarded as the greatest writer in the English language and the world's pre-eminent dramatist. He is often called England's national poet and the "Bard of Avon". His surviving works, including some collaborations, consist of about 38 plays,

154 sonnets, two long narrative poems, and several other poems. His plays have been translated into every major living language and are performed more often than those of any other playwright. Shakespeare was born and brought up in Stratford-upon-Avon. At the age of 18, he married Anne Hathaway, with whom he had three children: Susanna, and twins Hamnet...



# Example : JocondeLab

Français **English** Italiano Español Deutsch Português العربية Русский 简体中文 日本語 Català Euskara Brezhoneg Occitan

Joconde**Lab** » Detailed record

[Home](#) [About](#) [World map](#) [Chronology](#) [Index term](#) [Contribute](#) [Creations gallery](#)



**Artist(s):** BUSSIERE G ; LAAS Henri (éditeur)

**School:** France

**Title:** ROMEO ET JULIETTE (titre inscrit)

**Field(s):** estampe

**Designation:** carte réclame | chromo

**Portrayed subject:** Balcony Kiss Romeo and Juliet

**Source:** Tragedy William Shakespeare

**Date:** 19th century

**Technique:** chromolithographie, emploi d'or, carton

**Dimensions:** H. 10.6, l. 6.5

**Origin:** Paris

**Preserved by:** Paris ; musée des Civilisations de l'Europe et de la Méditerranée

**Copyright notice:** © Paris, musée national des Arts et Traditions Populaires, Direction des musées de France, 2005

**Photo credits:** © Iconothèque MNATP

[This work on the Joconde portal](#)

**Add new keywords** The terms displayed are from Wikipedia.

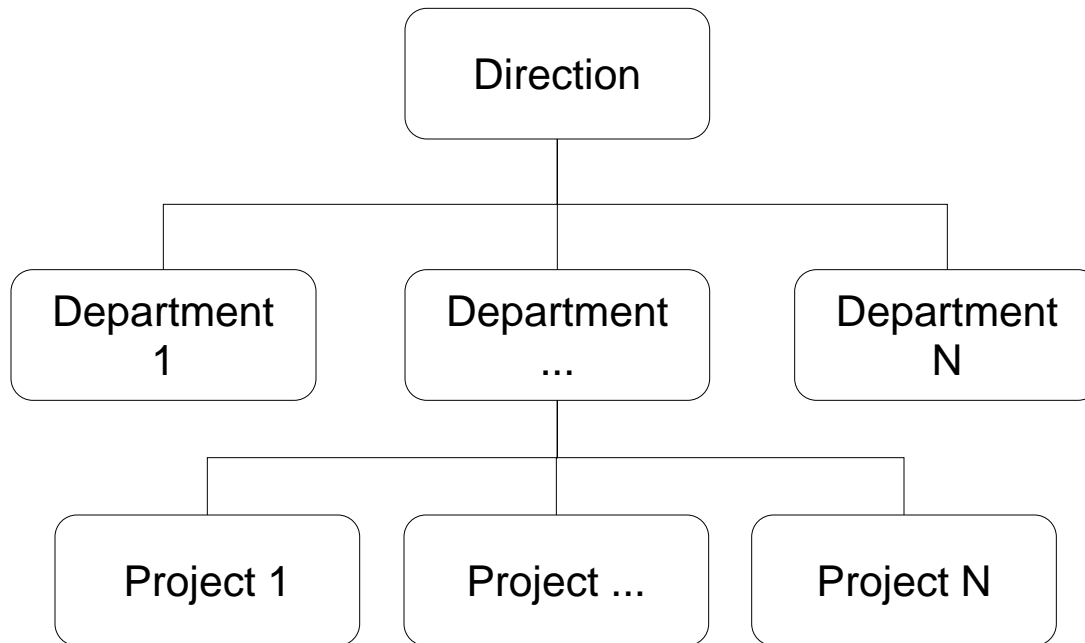
## SKOS preview

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```
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  <skos:altLabel xml:lang="en">Style moderne</skos:altLabel>
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  <skos:prefLabel xml:lang="nl">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="hr">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="de">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="es">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="sl">Moderen stil</skos:prefLabel>
  <skos:prefLabel xml:lang="sv">Jugend (Modern stil)</skos:prefLabel>
  <skos:prefLabel xml:lang="pt">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="pl">Modern Style</skos:prefLabel>
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  <skos:prefLabel xml:lang="it">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="fr">Modern Style</skos:prefLabel>
  <skos:altLabel xml:lang="fi">Modernismi (Modern Style)</skos:altLabel>
  <skos:prefLabel xml:lang="fi">Modern Style</skos:prefLabel>
  <skos:prefLabel xml:lang="hu">Szecesszió (Modern Style)</skos:prefLabel>
  <skos:altLabel xml:lang="ca">Estil Modern</skos:altLabel>
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  <skos:broader rdf:resource="http://partage.vocnet.org/part00349"/>
  <skos:exactMatch rdf:resource="http://vocab.getty.edu/aat/300375743"/>
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</skos:Concept>
```

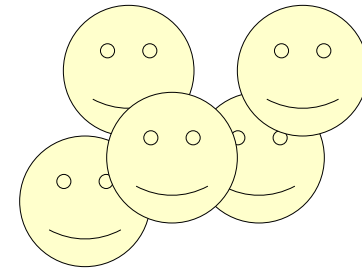
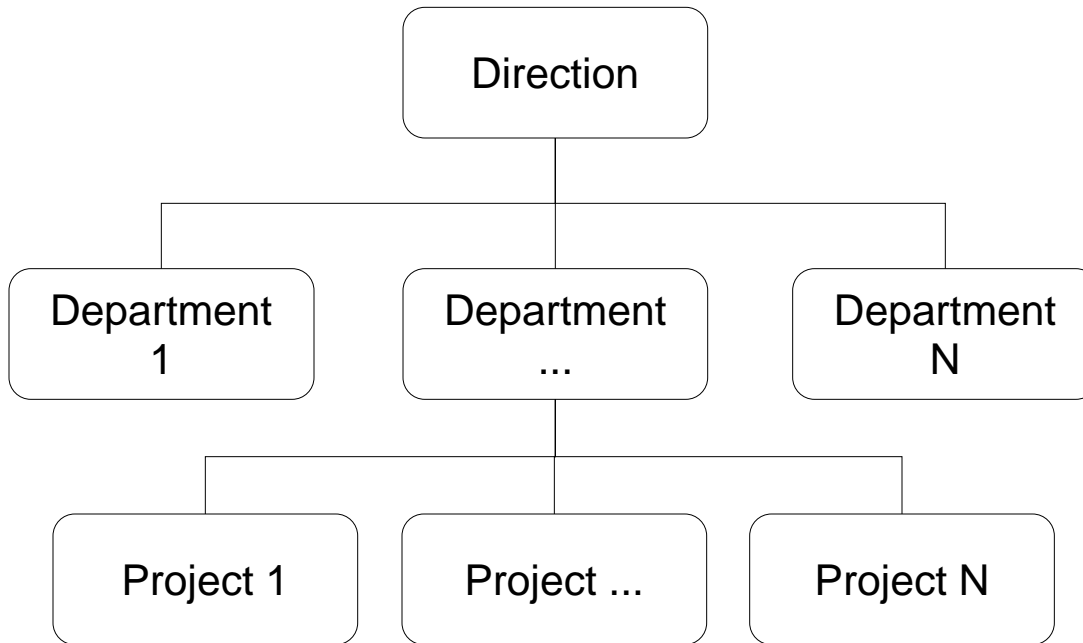
# An organisation that want a thesaurus...

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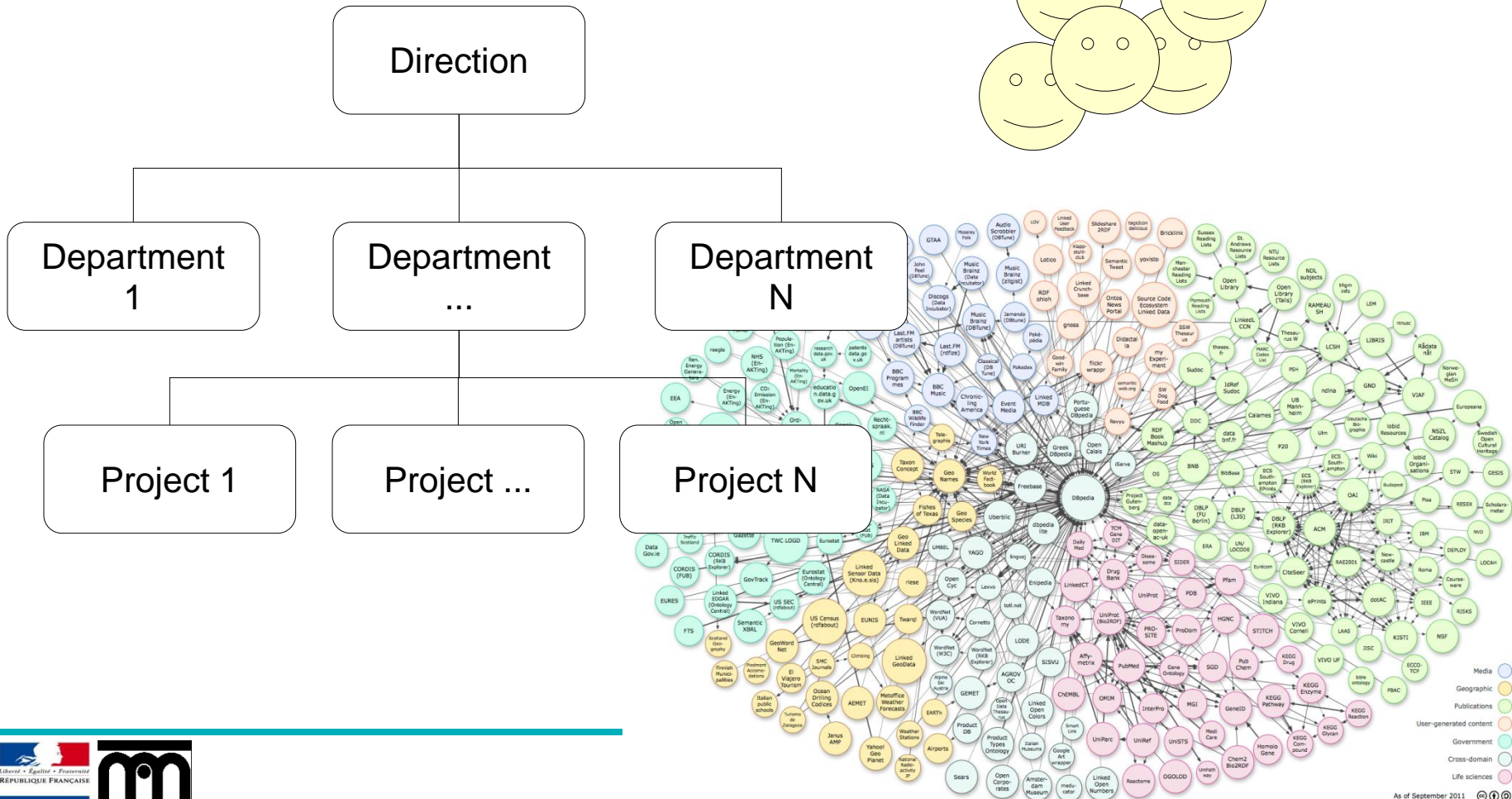
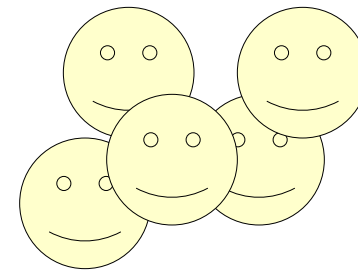




# Put some happy few “experts” in a room...



# And get THE thesaurus...



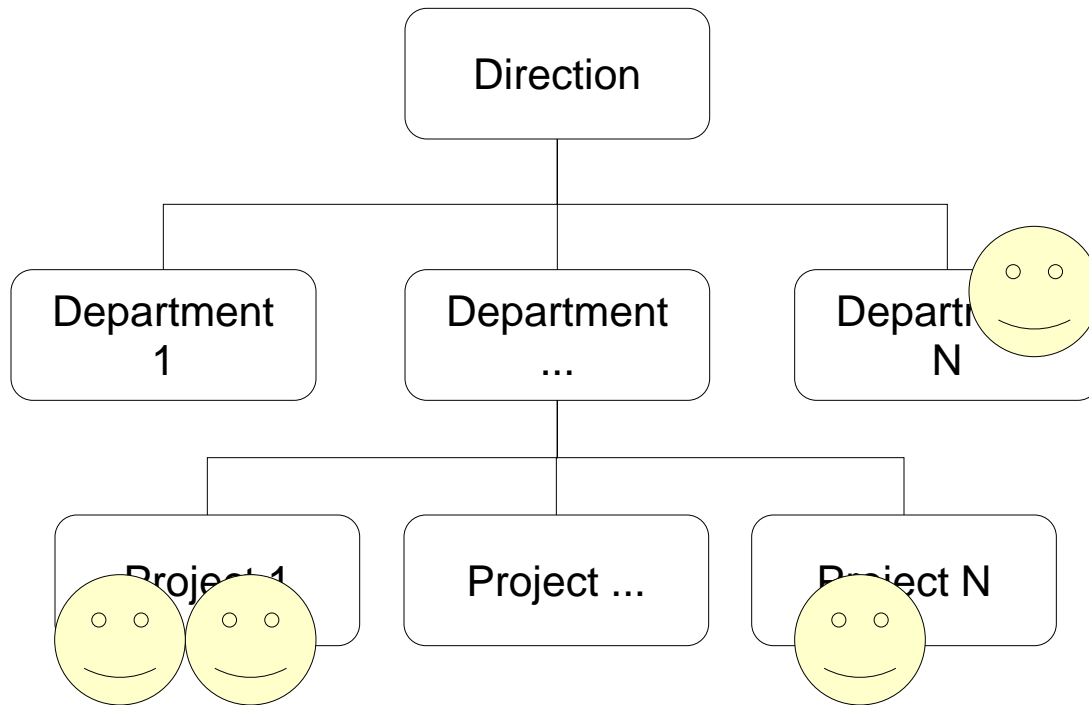
**But...**

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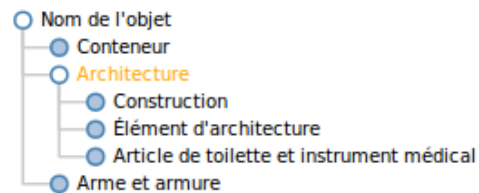
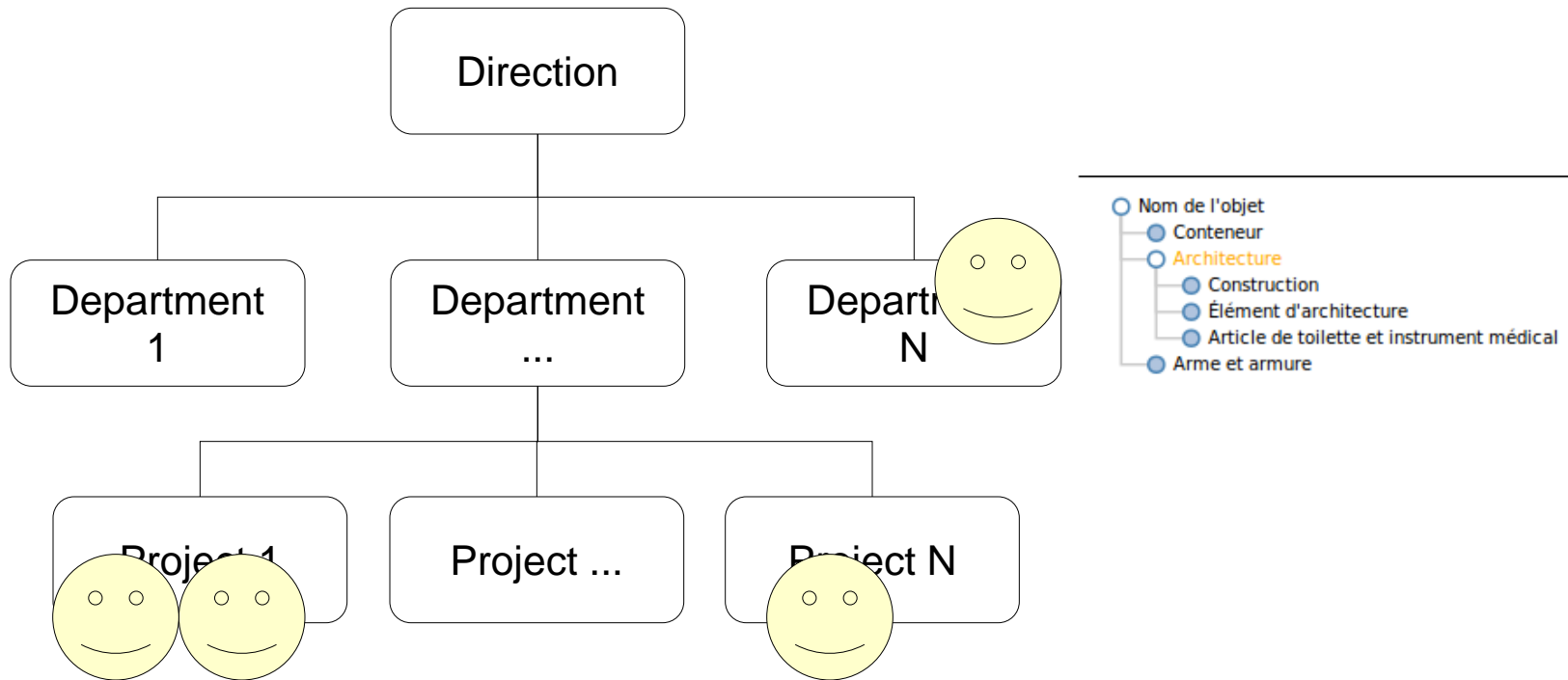
- This was done one first time...**
- And updated some few times later...**
- And for a long while the domain knowledge changes and evolves without updating the KOS**
  
- And most of the time the thesaurus is done in a « non actionable format » (Excel file, text file,...)**

# Local / on the ground experts

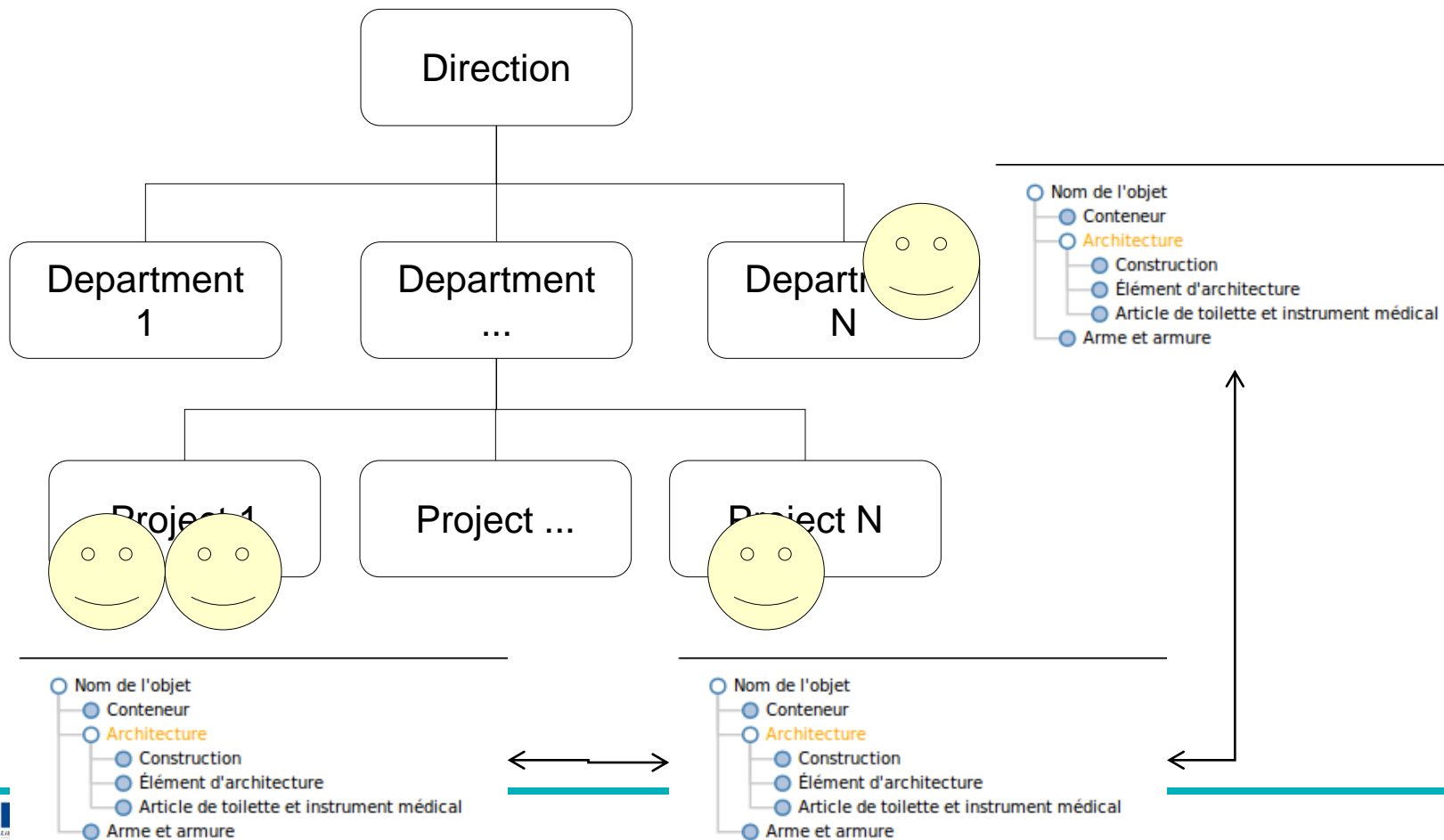
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# Create local, manageable, standard and interoperable thesauri



# Map them together and create a cool global thesaurus



# SCENT

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- **Semantic and Collaborative Environment for a network of terminologies for the GLAM sector**
  - **Developed and maintained by the Michael Culture Association**
  - <http://www.scent-glam.eu>
  - **Open source (available on Github)**
- Key features :**
- **SKOS/RDF registry**
  - **SKOSification**
  - **Mapping**
  - **Export**
  - **Visualization**
  - **Collaboration and control throw suggestions**

Semantic and Collaborative Environment for a Network of Terminologies  
for the Galleries, Libraries, Archives and Museums

[Home](#)[Login](#)[Sign In !](#)[Browse my terminologies](#) ▼[Terminologies](#)[Concept](#)[Facet](#)[Provider](#)

## Welcome to SCENT for GLAM!

SCENT (Semantic and Collaborative Environment for a Network of Terminologies) is the accessory that you were waiting for!

SCENT is a tool box that allows you to :

- create or import a terminology,
- SKOSify a terminology
- edit a terminology,
- do mapping of concepts from your terminology to other ones,
- export in SKOS your terminology and mappings

SCENT is developed in respect with the Semantic Web standards.

Semantic Web is about making data available in a machine-understandable format. **SKOS (Simple Knowledge Organisation System)** is one of the standards that allows you to publish your terminology (thesaurus, classification, flat list of terms or any controlled vocabulary) as part of the Semantic Web.

### Some Figures

563 concepts  
12 terminologies  
7 languages



### About SCENT

SCENT is a toolset for creating and managing your terminologies in SKOS format. SCENT has been developed within the eContentPlus AthenaPlus Project.

[Learn More](#)[SPARQL Endpoint](#)[Help](#)[FAQ](#)[Disclaimer](#)



# SCENT Create an account

## SCENT for GLAM

Semantic and Collaborative Environment  
for the Galleries, Libraries, Archives and Museums

Home

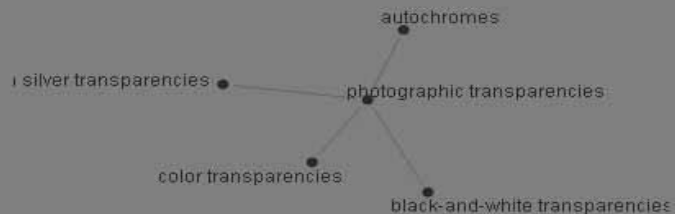
Browse my  
terminologies

Terminologies

Concept

Facet

Provider



## Create your account!

Email\*

Firstname\*

Lastname\*

Password\*

Confirm  
password\*

Institution\*

OK

Cancel

EN FR

Login

Sign In

## Some Figures

563 concepts

12 terminologies

7 languages

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waiting fo

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SCENT is

Semantic

**Organisation System** is one of the standards that allows you to publish your terminology (thesaurus, classification, flat list of terms or any controlled vocabulary) as part of the Semantic Web.

ou were

ledge

# SCENT Create an organisation

## Create your account!

Email\*

Firstname\*

Lastname\*

Password\*

Confirm password\*

Institution\*

OK

Cancel

## Create your account!

Email\*

Firstname\*

Lastname\*

Password\*

Confirm password\*

Institution\*

Country

English name\*

Name

Organisation acronym

Type

Address

Organisation url

Organisation description

OK

Cancel





# SCENT Import

SCENT  
for GLAM

EN FR

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for the Galleries, Libraries, Archives and Museums

Home

 mvleroi.culture@gmail.com   

Tools



Administration



Browse  
terminologies



1) Select your format

2) Import

3) Configuration

4) Metadata

skos

csv

Next





# SCENT Import

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for GLAM

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Tools



Administration



Browse  
terminologies



1) Select your format

2) Import

3) Configuration

4) Metadata




Parcourir... Aucun fichier sélectionné.


# SCENT SKOSification




EN FR




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for GLAM


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for the Galleries, Libraries, Archives and Museums


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**Tools** 

**Administration** 

**Browse terminologies** 

- 1) Select your format
- 2) Import
- 3) Configuration
- 4) Metadata

Does your import look good ? **No**





	This col is : <input type="text" value="A property"/>	This col is : <input type="text" value="A property"/>	
This col is : <input type="text" value="Not mapped"/>	Of type: <input type="text" value="prefLabel"/>	Of type: <input type="text" value="prefLabel"/>	This col is : <input type="text" value="Not mapped"/>
	Language: <input type="text" value="French"/>	Language: <input type="text" value="Dutch"/>	This col is : <input type="text" value="Not mapped"/>
			This col is : <input type="text" value="Not mapped"/>
			This col is : <input type="text" value="Not mapped"/>
			This col is : <input type="text" value="Not mapped"/>

ID	prefLabel@fra	prefLabel@nl	prefLabel@eng	broader	SN@nl	SN@en
41875	Nom de l'objet	Objectnaam	Object name			
41877	Architecture	Architectuur	Architecture	41875	Topterm voor architecturale elementen en onderdelen van architecturale elementen	Algemene benaming voor alle



# SCENT Metadata

Home

 mvleroi.culture@gmail.com   

Tools



Administration

Browse terminologies

1) Select your format

2) Import

3) Configuration

4) Metadata

Title \*

Subject \*

Select a value

Languages \*

Select language(s)...

Edition \*

Creator \*

Ministry of Culture

Publisher \*

Rights \*

Attribution (CC BY)

Create Terminology !



# SCENT Editing

SCENT  
for GLAM

EN FR

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for the Galleries, Libraries, Archives and Museums

Home

 mvleroi.culture@gmail.com   

Tools



Administration

Browse terminologies



**Title :** PICO Thesaurus **Author :** Ministère de la Culture

- when
- what
  - Laws and regulations
  - Competitions
  - Interventions
  - Academic subject areas
  - Events
    - Exhibitions**
    - Meetings / debates
    - Talk shows
    - Conferences / seminars
    - Openings
    - Festivals
    - Awards
    - Shows / Fairs
    - Celebrations
    - Book presentations
    - Commemorations

English

Linguistic dimension

Labels Documentary notes

preferred label

alternative label  (+)

hidden label  (+)

Conceptual dimension

Hierarchical relations Associative relations Mapping relations

has broader  (+)

has narrower  (+)

# SCENT Mapping

Title : Europeana Photography Author : Ministère de la Culture



- Photographic techniques
- types / photographic practice
- keywords
  - arts, culture and entertainment
  - society
  - human interest
  - health
  - lifestyle and leisure
    - travel
    - hobby
    - holiday
    - game
    - toys
    - recreation facilities
    - club and association
    - Clothing and personal ornament
      - Women's clothing**
        - containers for personal grooming and personal hygiene
        - Men's clothing
        - Jewellery
  - labour
  - politics
  - disaster and accident

Title : Designation Author : Ministère de la Culture



- vaisselle
- meuble domestique
  - siège
    - canapé**
    - fumeuse
    - voyeuse
    - chaise
    - tabouret
    - selle
    - escabeau
    - banc
    - fauteuil
    - banquette
    - pouf

Labels	Notes	Relations
preferred label	Women's clothing	
alternative label		
hidden label		

Select the type of the link ✕

Select a value ▾

relatedMatch

Labels	Notes	Relations
preferred label	canapé	
alternative label	sofa	
hidden label	canapés	




# SCENT Export

## SCENT for GLAM

EN FR


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Home

 mvleroi.culture@gmail.com   

Tools 














Administration 

Browse terminologies 

Show  entries

Search:

Title 	Subject 	Languages 	Author 	Actions 
<a href="#">Designation</a>	Decorative arts	fr, fr	Ministère de la Culture	
<a href="#">Designation MCC</a>	Decorative arts	fr, fr	Ministère de la Culture	
<a href="#">Europeana Photography</a>	Decorative arts	de, en, fr	Ministère de la Culture	
<a href="#">test</a>	Architecture	fr	Ministère de la Culture	
<a href="#">testmcc</a>	ContemporaryArts	fr	Ministère de la Culture	
<a href="#">TestTermino</a>	Archaeology	fr	Ministère de la Culture	

Showing 1 to 6 of 6 entries

[Previous](#)[Next](#)

# SCENT Visualisation

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Home

Enter email

Password

Login

Sign In I

Browse my  
terminologies

Terminologies

Concept

Facet

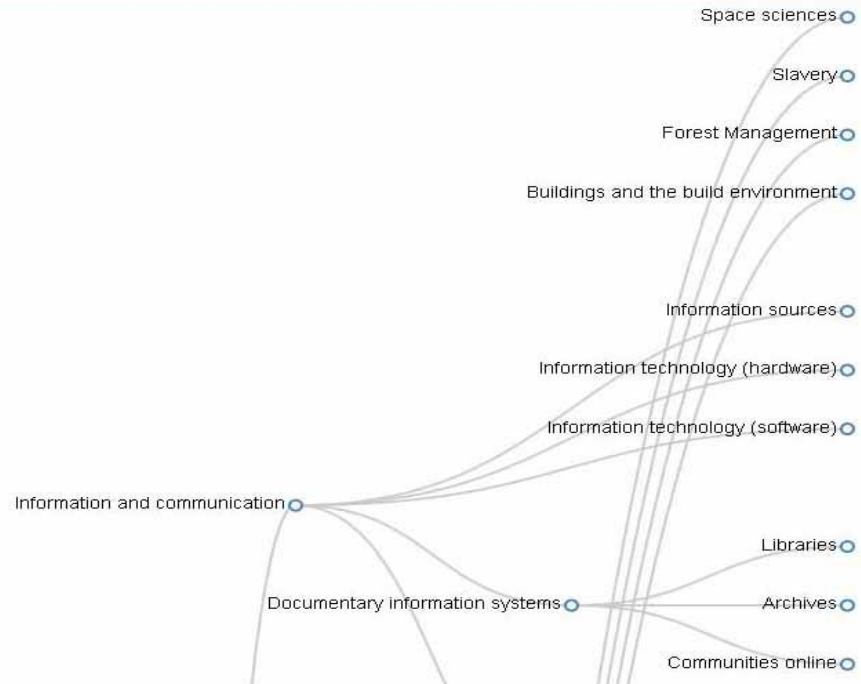
Provider



Dendogram Force directed

Select the language :

English



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Tools



Administration

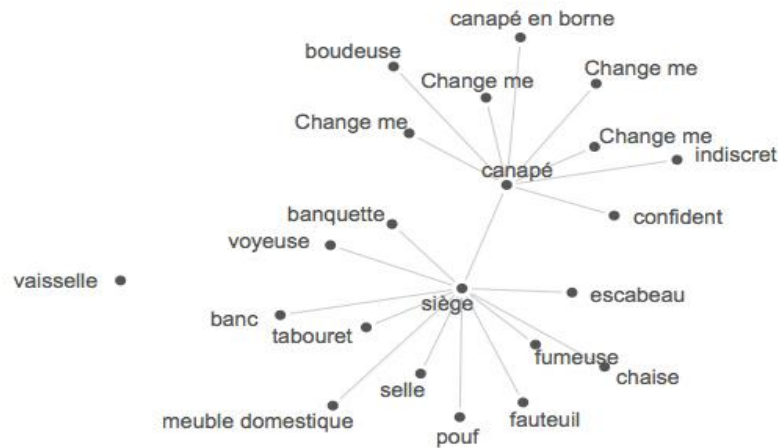
Browse  
terminologies



Dendogram Force directed

Select the language :

Français



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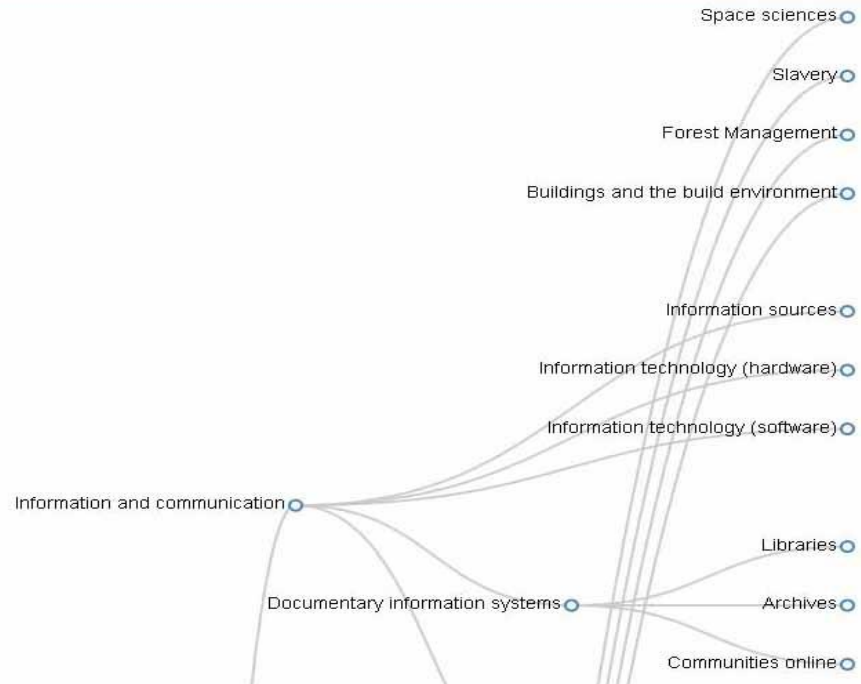
Provider



Dendogram Force directed

Select the language :

English

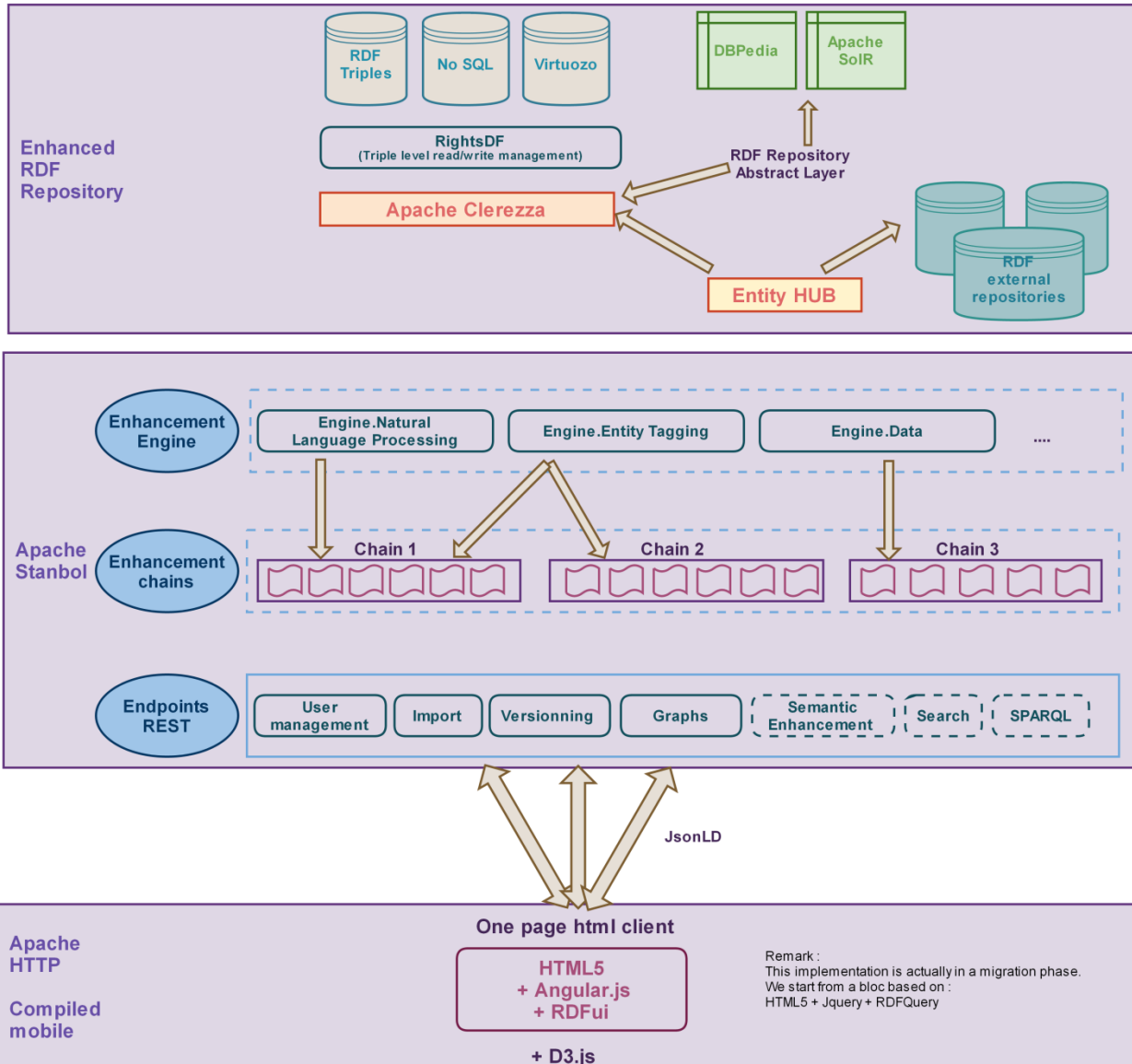


## Learned so far

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- Really few tools manage RDF from back-end to user interface
- SKOS ontology is pretty well defined but some constraints are not formalized (for example : only one prefLabel by language)
- GLAM sector (Galleries, Libraries, Archives and Museums) have their own professional practices for organizing and managing their objects and collections and so different needs in term of ontology
  - SKOSXL tends to supersede SKOS
  - Not all knowledge description can be express in SKOS...
- Knowledge based organisation need users to write RDF without knowing they actually do it

# Roadmap for the next version



## Roadmap for the next version

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- Improve the user experience
- Improve collaboration and modification control through suggestions
- Make available an history of modification management and a workflow for managing versions
- Manage access and modification rights on a atomic (RDF's triples) level
- Improve genericity of libraries for allow editing of any kind of RDF

## Why a generic RDF editor can make the difference ?

---

-RDF is actually the better framework to formalize data, group them into pieces of information and create links between this information in order to create a knowledge graph.

-But this format is actually pretty hard to edit and manage by non technical people

-This is why Scent for Glam wants to achieve the goal to make RDF editing as easy as a tweet for anyone.

-Beside this goal, the next version of the software will act as a domain independent and collaborative referential server in order to manage and maintain a common knowledge base.



# Contact

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**Thank you for your attention !**

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