

welcome ...



source: jetzt.sueddeutsche.de

Welcome to **THESAURUS**

Please drive
carefully, warily,
attentively, heedfully,
cautiously, conscientiously,
thoughtfully
through
the village, community,
town, hamlet, settlement.

treasuries of words



source: [Lifehack](#)

Authority File

Keyword List

Glossary

Classification Scheme

Synonym List

Thesaurus

Taxonomy

Folksonomy

Controlled Vocabulary

Ontology

Topic Map

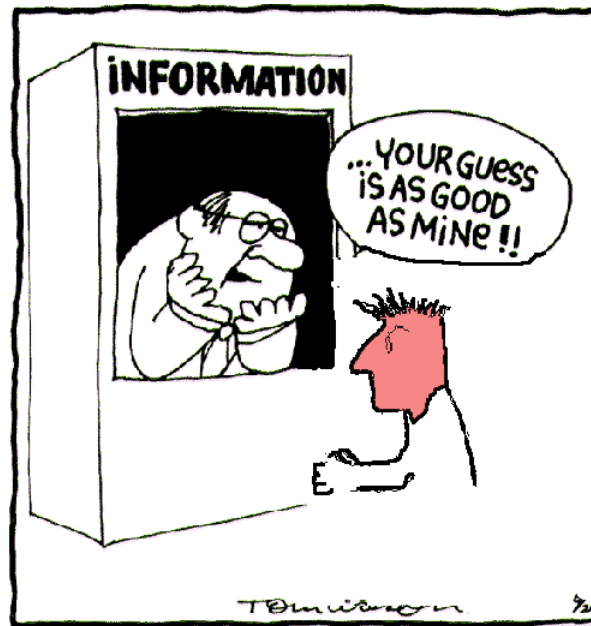
Controlled Vocabularies

what they are and how they
perform in various contexts

Frankfurt am Main, 30 May 2011

Jutta Lindenthal, Lübeck

what users may be looking for



- a special item or fact (known item search)
- collection of items or facts as search result
- guidance for discovery (serendipity)

what users want and don't want

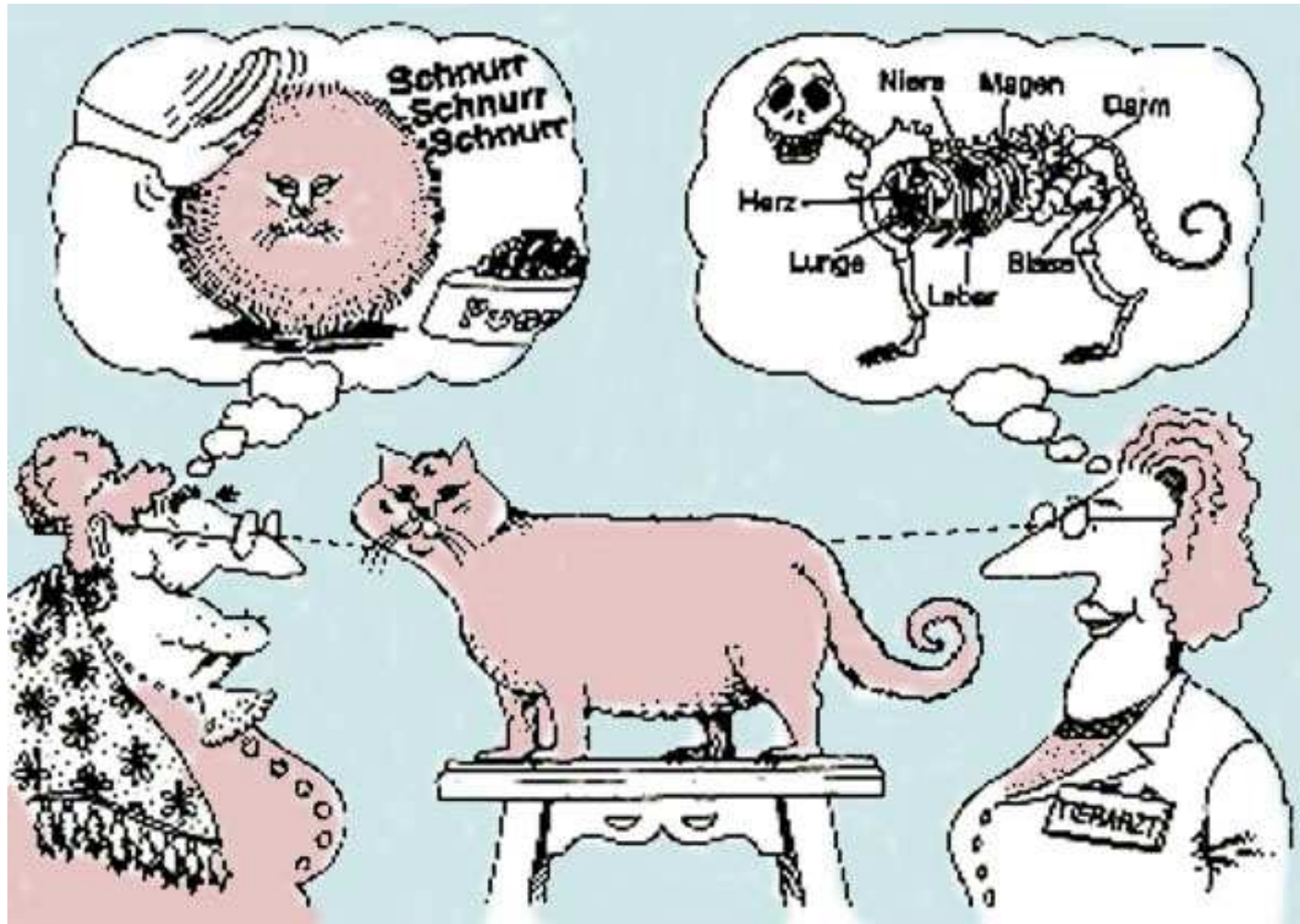
Users want to retrieve

- **all** interesting documents (**recall**)
- **only** interesting documents (**precision**)

Users don't want to

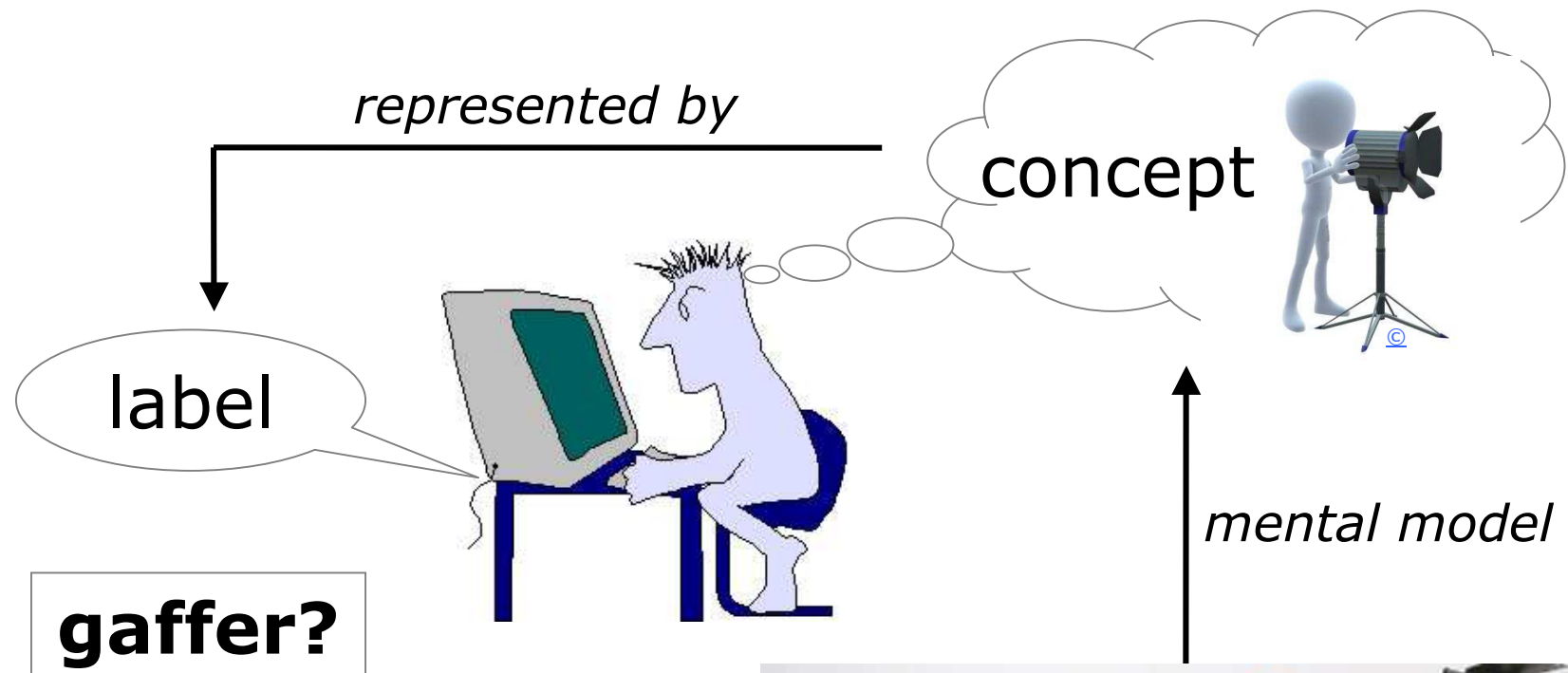
- lose information, that is to miss interesting documents
- retrieve irrelevant documents, they were not looking for

what's a cat ...



beauty is in the eye of the beholder

... and a gaffer?



gaffer?



looking for *gaffer* in Google images

gaffer google.com

About 274,000 results (0.16 seconds)



gaffer google.de

Ungefähr 275.000 Ergebnisse (0,07 Sekunden)



Seeking for images about *gaffer* in the sense of a film-making person, most of the retrieved hits are not relevant because of the homonymy of the search term. Results in German Google vary from that in the English language version because of the additional notion of *Gaffer* in German (meaning "rubbernecker").

more concepts

Gaffer {m}

gazer
gaper
gawper
gongoozler [sl.] [Br.]

Gaffer {pl}

gazers
gawpers
gawkers

Gaffer {m} [ugs.]

rubberneck [coll.]
rubbernecker [coll.]

Gaffer {pl} [ugs.]

rubbernecks [coll.]
rubbernecker [coll.]

Gaffer {m} [Schaulustiger]

onlooker [gazer]

Homonyms

lead to
irrelevant
information



gaffer

Chef {m}
Gevatter {m}
Alterchen {n}
film Oberbeleuchter {m} <OB>

gaffer [Br.] [coll.]

Vorgesetzter {m}
jobs Meister {m} [Betriebsmeister]

gaffer [coll.: old man]

Opa {m} [ugs.: alter Mann]

gaffer [coll.: an old man]

Väterchen {n}

gaffer [chiefly Br.] [coll.]

Boss {m} [ugs.]

gaffer [foreman]

jobs Vorarbeiter {m}

gaffer [senior glassblower]

jobs Glasbläser {m} [Meister]

electrician [member of gaffer's crew]

film Beleuchter {m}

more words

...

and still more concepts

Chief Lighting
Technician

CLT

[chief electrician](#)

gaffa

Oberbeleuchter

OB

Synonyms

lead to
information
loss

[CLT](#)

Charlotte Douglas International
Airport

Chemnitzer Linux-Tage

Central limit theorem

Cognitive load theory

Community Land Trust

[OB](#)

OB (star)

Oberbürgermeister

Oberbundesanwalt

Oberhausen

Offizierbewerber

Old Badmintonians

Organizational behaviour

Ortsbeauftragter

Outside broadcasting



hence, need for vocabulary control

What we need

- uniquely addressable concepts
- unambiguous concepts
- terms or labels representing a concept
- semantic clarity for indexers and users
- permitting interoperability
- easily findable indexing and search terms

ISO 25964: Thesauri and interoperability with other vocabularies

- Part 1: Thesauri for information retrieval
 - Part 2: Interoperability with other vocabularies
-
- updates ISO 2788/5964, with input from BS 8723
 - information retrieval as the overall context
 - Part 1: monolingual and multilingual thesauri
 - Part 2: mapping between thesauri and other types of vocabulary

Thesauri for information retrieval

- differentiation between terms and concepts
- guidance on establishing semantic relationships
- guidance on applying facet analysis to thesauri
- recommendations on how to manage compound terms
- guidance on thesaurus development and maintenance
- requirements for software to manage thesauri
- data model and XML schema for data exchange
- multilingual examples

Interoperability with other vocabularies

- no normative statements about vocabularies other than thesauri
 - however, comparisons are made and key features described
 - emphasis is on interoperability, especially mapping
 - structural models for mapping
 - recommended mapping types
 - how to handle pre-coordination
 - practical aspects of mapping
- Classification schemes
 - File plans
 - Taxonomies
 - Subject heading schemes
 - Ontologies
 - Term banks
 - Name authority lists
 - Synonym rings

ISO 25964-2 – mapping guidance

- Basic mapping types
 - Equivalence
Laptop computers EQ Notebook computers
 - Hierarchical
Roads NM Streets; Streets BM Roads
 - Associative
e-Learning RM Distance education
- “Exact” or “Inexact” equivalence
 - Aubergines =EQ Egg-plants
 - Horticulture ~EQ Gardening

want a copy? want to get involved?

- Part 1 of the standard will be published in 2011
- Get it through your national standards body
- 17 countries already participate: Belgium, Bulgaria, Canada, China, Denmark, France, Germany, Finland, Korea, New Zealand, Russia, South Africa, Spain, Sweden, UK, Ukraine, USA
- Part 2 is still in draft ISO DIS 25964-2
There is time for you to contribute ideas on interoperability!
- Contact your national standards body, specifically the committee corresponding to ISO TC 46/SC 9/WG8
- Send an email to get informed when the DIS of part 2 is released to stella@lukehouse.org

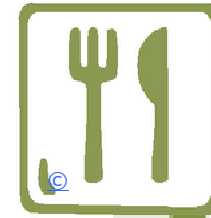
a word about *interface* and design considerations

Interface (preferred, en)

User interface (alternative, en)

Schnittstelle (preferred, de)

Nutzerschnittstelle (alternative, de)



What to consider when designing a vocabulary

- how the vocabulary may be used for searching
- how the vocabulary may be used for indexing
- how the vocabulary supports decisions to be made by software
- how well a vocabulary can be aligned with other vocabularies
- how vocabulary items suit metadata statements

methods of indexing or annotating

abstracting

Joyeux Noël (Merry Christmas) is a 2005 film about the World War I Christmas truce of December 1914, depicted through the eyes of French, British and German soldiers.

classifying

[700 Arts & recreation](#)

790 Sports, games & entertainment

791 Public performances

791.4 Motion pictures, radio, television

791.4302 Specific aspects of motion pictures



indexing

[World War I](#)

[Christmas truce](#)

war drama

Western Front

annotating

hasDirector

isBasedOn

isVersion

hasColour

hasGenre

tasks of retrieval

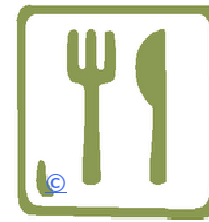
browsing vs. searching as information seeking strategies

- browsing is always selection-based, requiring that the search system makes sensible proposals
- when the browsing options are well-represented, browsing works better than keyword search
- browsing interfaces should seamlessly integrate keyword querying with navigation of the underlying information structure
- imperative search (keyword search) is prone to typing errors
- requires mastering of search syntax and operators
 - LexisNexis: HEADLINE:("Johnny Depp" w/5 "Chocolat")
 - DIALOG: (Johnny ADJ Depp AND Chocolat) ti
 - Google: "Chocolat" "Johnny Depp"



A **keyword list**

- is a controlled vocabulary
 - may or may not have synonyms
 - not structured, simple flat list
 - limited number of items
 - self-explanatory meaning
 - hence no need for a structured vocabulary
- typically presented by a pick list
 - simple sort order

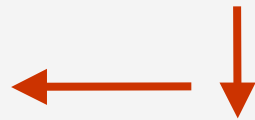


keyword list: colour

Black & White

Colour

B/W & Colour



Tinted / Toned / Hand coloured

Colour & B/W



n/a

Schwarz & Weiss

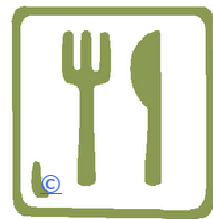
Farbe

S/W & Farbe

koloriert, viragiert, handkoloriert

Farbe & S/W

k.A.



Black & White



example: looking up *black&white* in Europeana

Matches for: black&white

black

black

blackrock

blacksmith

black&white

blackpool

blackburn

blackhall

Texts (8)

Images (3,804)


Videos (3)

Sounds (2)

Results 1 - 12 of 3,817

Page: 1 2 3 4 5 6 7 8 9 10 →


share



maker


Jack Mackenzie, one of the many unemploy...

Hulton Getty
Scran




Shipbuilder who worked on the liner 'Que...

Hulton Getty
Scran




Shipbuilder who worked on the liner 'Que...

Hulton Getty
Scran

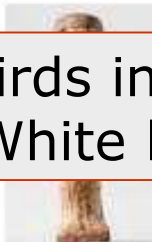


13301962_2046




Bowl. Fragment. Base.

Medelhavsmuseet
Swedish Open Cultural Heritage



Ushebti

Medelhavsmuseet
Swedish Open Cultural Heritage



Canopic jar/lid

Medelhavsmuseet
Swedish Open Cultural Heritage

two birds in blue and black.
White background

matt black, white
and red paint

example: looking up *tinted* in Europeana

Matches for: *tinted*

All Texts (494) Images (7,066) Videos (13) Sounds (16)

Results 1 - 12 of 7,589 Page: 1 2 3 4 5 6 7 8 9 10 → share



Zeichnung
Becker, Hugo (Künstler)
1950
Stadtgeschichtliches Museum
Leipzig
Athena



Sehltorhaus: Aufriss und Grundriss (Foli...
1610
Landesarchiv Baden-Württemberg



Beach scene at Ayr
East Lothian Museums Service
Scran



Fein ausgeführte Skizze einer Säule für ...
Landesarchiv Baden-Württemberg





La statua è dipinta in tinte tenui,

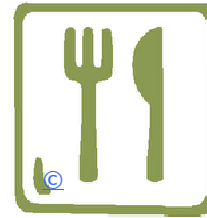


Technik: Tinte



A **taxonomy**

- is a controlled vocabulary
 - usually no synonyms
 - hierarchically structured
 - often with notations
 - usually broad categories
 - relatively low precision
- top down navigation
 - search expansion
 - not designed for post-coordination
 - but possibility to enable faceted browsing



classification scheme: FIAF Glossary

A Basic Identifiers

- A.1 Title
- A.2 Date
- A.3 Country

B Credits and Cast

- B.1 Location of Credits
- B.2 Producing
- B.3 Directing
- B.4 Writing
- B.5 Cinematography
- B.6 Production Design
- B.7 Cast
- B.8 Special Effects
- B.9 Sound
- ...

C Distribution and Exhibition

- C.1 Censorship and Rating
- C.2 Copyright and Distribution
- C.3 Exhibition and Prizes

D Form and Content

- D.1 Form
- D.2 Content

E Technical Properties

- E.1 Sound Film
- E.2 Silent Film
- E.3 Language, Original Language
- E.4 Subtitles, Subtitles by,
Captions, Closed Captions
- ...



A **thesaurus**

- is a controlled vocabulary
- has synonyms
- hierarchically structured
- has related concepts
- higher degree of specificity
- relatively high precision



- search expansion
- alternative search terms
- support for refining a search
- suited for post-coordination
- identification of common spelling mistakes

Electronic images

[Home](#) ► [Electronic images](#)

Scope note:

Images recorded and stored in computer and video systems.

UF Images, Electronic

Electronic images

NT1 *Digital images* [+]
NT1 *Transmitted images* [+]

RT *Pictures*

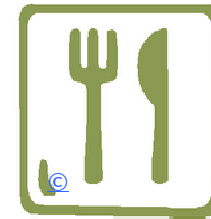
Digital images

NT2 *Computer graphics* [+]
NT2 *Digital photographs*

BT *Digital images*
BT *Photographs*

Computer graphics

NT3 *Computer-aided designs*

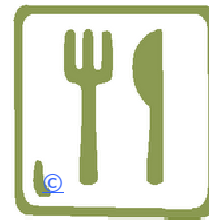


- ☐ Photographs
- ☐ Digital images
- ☐ Pictures

MADS Zthes SKOS-Core BS8723-5 XTM DC



An **ontology**



- is a conceptual model of a domain of interest
- provides a vocabulary for concepts and properties
- hierarchically structured, including properties
- following logical rules
- annotation of instances
- Sparql querying
- supports semantic search
- search refinement
- inference based search expansion
- allows for queries across different collections of metadata

example: query for *director* in OpenCyc

OpenCyc Collection: film director

Unique ID: [Mx4rvVjqs5wpEbGdrcN5Y29ycA]

English ID: [Director-Movie]

English Aliases: ["film directors", "filmmaker", "filmmakers", "movie director", "movie directors"]

An instance of `PersonTypeByOccupation`. Each instance of `Director_Movie` is a person responsible for the development of the production of a film.

A Type of: artist, leader

Instance of: type of profession

Subtypes: amateur film director

Instances: Brian De Palma, Martin Scorsese, Blake Edwards, Orson Welles, Roman Polanski, John Derek, Frank Capra, Michael Moore, Alfred Hitchcock, Rocco Siffredi, George Lucas, Quentin Tarantino, John Glenn, Sergio Leone

Same as:

http://umbel.org/umbel/sc/Director_Movie

Copyright © 2001-2009 Cycorp, Inc.

source: <http://www.opencyc.org/>; see also <http://www.cyc.com/>

ontology: Vocabulary Mapping Framework (VMF)

Scope of the mapped vocabularies is:

- Resource categories (eg CD, Ebook, Photograph)
- Resource-to-Resource relators (eg IsVersionOf, HasTranslation)
- Resource-to-Party relators (eg Author, EditedBy)
- Party-to-Party relators (eg AffiliatedTo)
- Party categories

Example of the Concept Family for "Adapt":

Table 4: Concept Family example

Concept Type	no	Term name	Definition
Verb or ContextType	1	Adapt / AdaptingEvent	To Derive an Adaptation.
Agent	1-n	Adapter	A Deriver of an Adaptation.
Patient	1-n	Adaptation	A Derivation made by changing an existing Creation.

faceted based navigation with Flamenco Search

PEOPLE

[agency](#) (245) [designer](#) (270)
[architect](#) (16266) [developer](#) (91)
[artist](#) (1773) [historical figure](#) (225)
[author](#) (289) [instructor](#) (725)
[culture](#) (690) [photographer](#) (103)

PERIODS

[17 & 18th C](#) (1400) [Islamic-Hegira, 622 CE](#) (1391)
[19th Century](#) (2261) [Modern](#) (5634)
[20th Century](#) (17827)

LOCATIONS

[Africa](#) (1440) [Middle East](#) (1813)
[Antarctica](#) (37) [North America](#) (11585)
[Asia](#) (2864) [South America](#) (654)
[Australasia & Pacific Islands](#) (186) [Southeast Asia](#) (465)
[Central America](#) (70) [Western Europe](#) (11744)
[Eastern Europe](#) (1165)

STRUCTURE TYPES

[architectural elements](#) (5068) [cultural landscapes](#) (435)
[book elements](#) (192) [details](#) (3239)
[buildings \(by design\)](#) (863) [human settlements \(by condition\)](#) (481)
[buildings \(by function\)](#) (20166) [human settlements \(by economic base\)](#) (107)
[buildings \(by height\)](#) (205) [human settlements \(by form\)](#) (179)
[buildings \(by location or context\)](#) (560) [more...](#)
[buildings \(by massing or shape\)](#) (774)

MATERIALS

[animal material](#) (36) [ceramic tile](#) (207)
[artists' materials](#) (31) [chalk](#) (8)
[asphalt](#) (2) [chemical compounds](#) (16)
[brick](#) (1380) [clay](#) (20)
[building materials](#) (727) [coating](#) (482)
[cement](#) (6) [more...](#)
[ceramic](#) (5)

STYLES

[African](#) (599) [Early Near Eastern](#) (777)
[Ancient](#) (74) [European](#) (13699)
[Asian](#) (3755) [Iron Age](#) (26)
[Australian & Pacific Island](#) (187) [Islamic](#) (583)
[Bronze Age](#) (26) [North American](#) (14232)
[Central American](#) (2) [more...](#)
[Early Mediterranean](#) (2112)

VIEW TYPES

[axonometrics](#) (119) [design drawings](#) (318)
[city aerial views](#) (702) [drawings](#) (178)
[city details](#) (356) [elevations](#) (306)
[city general views](#) (1566) [exterior details](#) (2087)
[city maps and plans](#) (934) [exterior views](#) (10619)
[construction views](#) (170) [more...](#)
[decorative elements](#) (42)

CONCEPTS

[access](#) (1) [in the arts](#) (3792)
[barrier-free design](#) (4) [legal](#) (24)
[circulation](#) (2) [philosophical](#) (21)
[cultural](#) (145) [political](#) (70)
[economic](#) (17) [psychological](#) (116)
[environmental](#) (471) [more...](#)
[housing](#) (1188)

SOURCE

[book](#) (13937) [periodical](#) (3953)
[donor](#) (10956) [vendor](#) (7731)

source: <http://orange.sims.berkeley.edu/cgi-bin/flamenco.cgi/spiro/Flamenco>; s.a. <http://www.museosuomi.fi/>

xTree: vocabulary management tool

- web-based
- suitable for distributed work
- concept-based – unique URI
- preferred and non-preferred labels, customisable for display
- supports all standard relationships of KOS
- consistency checks (doublet control, refuse of circles, etc.)
- webservice based on vocnet exchange format
- exchange format compatible with SKOS, BS8723-5 model
- future: term management, systematic display
- contact: L. Landwehr, A. Vitzthum - digiCULT-Verbund eG
<http://www.digicult-verbund.de/index.php?p=Kontakt>

Treesearchlist

-

K

FIAF GLOSSARY (en)

-

K

B CREDITS AND CAST (en)

-

K

B.1 Location of Credits (en)

+

K

B.2 Producing (de)

-

K

B.3 Directing (en)

-

K

B.3.1 Director, Direction, Directed by

+

C

Direction (arts) (en)

+

C

Director (en) (ID: 00000047)

+

K

B.3.5 Script Supervisor, Continuity,

+

K

B.4 Writing (en)

+

K

B.5 Cinematography (en)

+

K

E TECHNICAL PROPERTIES (en)

-

K

ASSOCIATED CONCEPTS (en)

+

K

EVENTS (en)

-

C

Truce (en)

-

C

Christmas Truce (WW I) (en)

-

C

War (en)

-

C

First World War (en)

Basic dataRelationsMappingsNotesForum

? Id:

00000047

? Type:

Concept

? Label:

Director (en) **Role:** preferred

⌵ Sources (0)

Režisér (cs) **Role:** preferred

⌵ Sources (0)

Instruktør (da) **Role:** preferred

⌵ Sources (0)

Regisseur (de) **Role:** preferred

⌵ Sources (0)

Σκηνοθέτης (el) **Role:** preferred

⌵ Sources (0)

Director (es) **Role:** preferred

⌵ Sources (0)

Ohjaaja (fi) **Role:** preferred

⌵ Sources (0)

Réalisateur (fr) **Role:** preferred

⌵ Sources (0)

Rendező (hu) **Role:** preferred

↑

↑

↑

Categories for systematic display; Concepts for indexing; Labels representing a concept

xTree: vocabulary management tool

? **Id:** mov00044

? **Type:** Concept

? **Label:** First World War (en) **Role:** preferred

← preferred label

⊕ Sources (0)

WW I (World War, 1914-1918) (en) **Role:** alternativ

⊕ Sources (0)

World War, 1914-1918 (en) **Role:** alternativ

← alternative label

⊕ Sources (1)

Erster Weltkrieg (de) **Role:** preferred

⊕ Sources (0)

1. Weltkrieg (de) **Role:** alternativ

⊕ Sources (0)

Weltkrieg (1914-1918) (de) **Role:** alternativ

⊕ Sources (1)

← label source

GND - Gemeinsame Normdatei page: 4079163-4

? **URI:** movie.vocnet.org/mov00044

← URI in vocnet namespace

Preferred and alternative labels for concept "First World War"

xTree: vocabulary management tool

Basic data		Relations	Mappings	Notes	Forum
? Identifier:	http://www.getty.edu/vow/AAT		http://www.imdb.com/glossary/D#director		
? Type of identifier:	URI		URI		
? Type of mapping:	exactMatch		exactMatch		
? source:	AAT		IMDb		
? Label:	directors (performing arts)		Director		
? Identifier:	http://d-nb.info/gnd/4049050-6		http://stitch.cs.vu.nl/vocabularies/rameau/		
? Type of identifier:	URI		URI		
? Type of mapping:	exactMatch		narrowMatch		
? source:	GND		Rameau		
? Label:	Regisseur		Réalisateurs de cinéma		
? Identifier:	http://id.loc.gov/authorities/sh85088067		Mx4rvVjqs5wpEbGdrcN5Y29ycA		
? Type of identifier:	URI		Local		
? Type of mapping:	broadMatch		narrowMatch		
? source:	LSCH		OpenCyc		
? Label:	Motion picture producers and directors		Director-Movie		

Concept "Director" mapped to a concept or class in different schemes

xTree: vocabulary management tool

Basic data	Relations	Mappings	Notes	Forum
------------	-----------	----------	-------	-------

C Director (00000047) (en)

Superordinate:

Subordinate:

C Audio drama director (00000145) (en)	Type: BTG/NTG
C Christian Carion (mov00050) (en)	Type: BTI/NTI
C Film director (mov00006) (en)	Type: BTG/NTG
C Television director (00000048) (en)	Type: BTG/NTG
C Theatre director (00000137) (en)	Type: BTG/NTG

Related: C Direction (mov00008) (en) Type: association

Assigned: K B.3.1 Director, Direction, Directed by (mov00051) (en)

BTG/NTG: generic relationship

BTI/NTI: instance relationship

Concept "Director" and its hierarchical and associative relationships

xTree: vocabulary management tool

C Christmas Truce (WW I) (mov00047) (en)

Superordinate: C First World War (mov00044) (en)
C Truce (mov00048) (en)

Type: BTP/NTP

Type: BTI/NTI

Subordinate:

Related: C Western Front (WW I) (mov00049) (en)

Type: association

Assigned:

view in tree

BTP/NTP: partitive relationship

BTI/NTI: instance relationship

K ASSOCIATED CONCEPTS

K EVENTS (en)

C Truce (en)

C Christmas Truce (WW I) (en) (ID: mov00047)

C War (en)

C First World War (en)

C Battle of Verdun (en)

C Christmas Truce (WW I) (en)

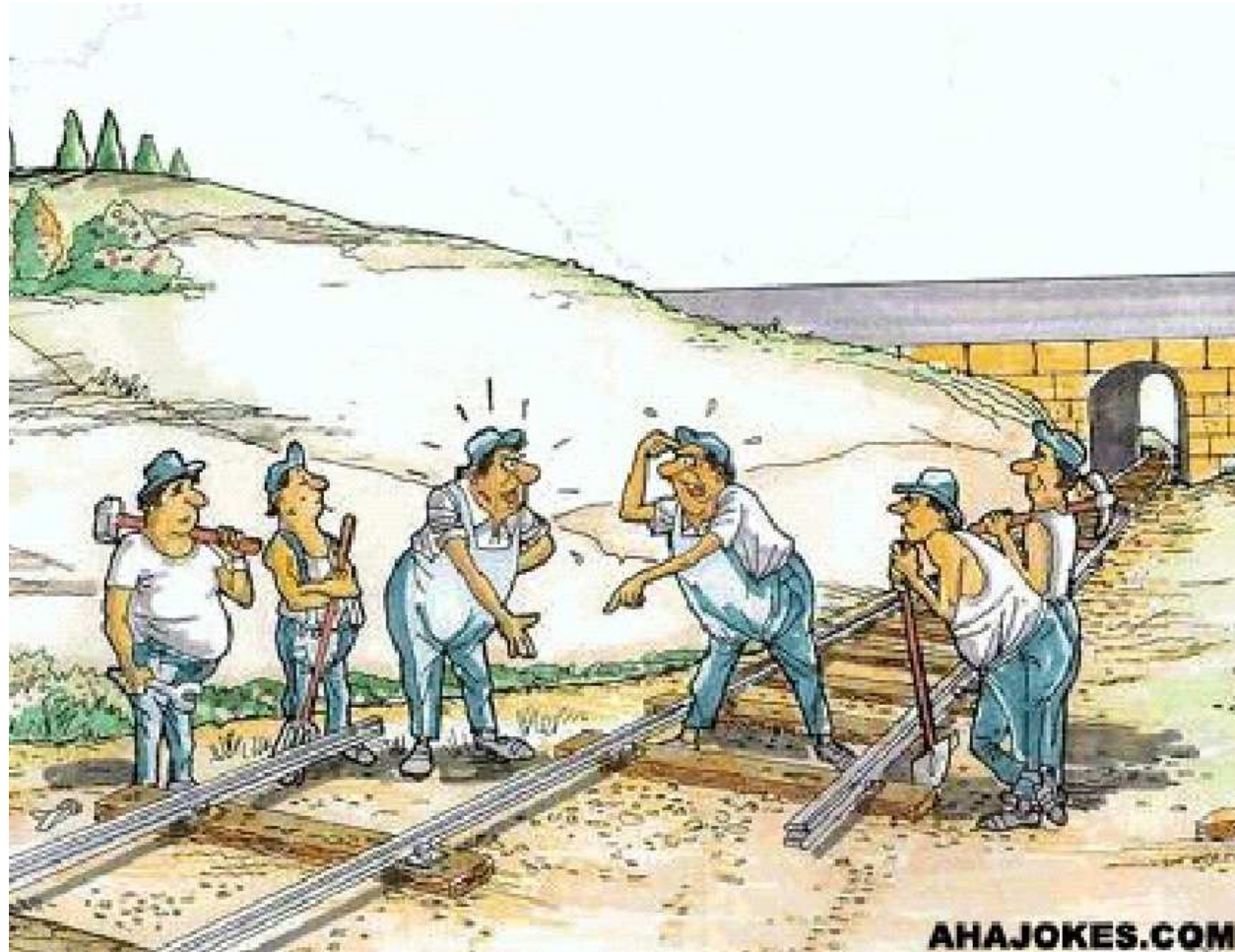
Concept "Christmas Truce" and its hierarchical and associative relationships

xTree: vocabulary management tool

	<div>Extract ▼ Change Note Definition Editorial Note Example Explanation Extract Glossary Entry History Note Miscellaneous Note Note Scope Note</div>	← type of note
? Type of note:	Extract	
? For label:	Director (en)	
? Text:	The person with the overall responsibility for all creative and technical aspects of making a film. He or she orchestrates the activities of the cast and crew as effectively as possible with the goal of interpreting the screenplay and turning it into a fully realized motion picture. The Director's authority and scope of duties can vary depending on the individual, his or her contractual obligations, and the overall production environment.	
? Source:	FIAF - GLOSSARY OF FILMOGRAPHIC TERMS	

Note for concept "Director": extract from FIAF Glossary

Good luck!



- Look for authorities, rather than start from scratch
- Make things as simple as possible, but not simpler

Thank you!



resources

xTree - vocabulary management tool

Contact: digiCULT-Verbund eG: Lütger Landwehr, Axel Vitzthum, Björn Schill

<http://www.digicult-verbund.de/index.php?p=Kontakt>

or Jutta Lindenthal

jutta.lindenthal@googlemail.de

Stella Dextre Clarke

ISO 25964 - the new standard for thesauri and interoperability with other vocabularies

http://eurovoc.europa.eu/drupal/sites/all/files/conference2010/EuroVocConference_ISO25964preview.ppt

Draft Format for exchange of thesaurus data conforming to ISO 25964-1

<http://www.niso.org/schemas/iso25964/>

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The Vocabulary Mapping Framework and its potential for improving metadata
interoperability in the Semantic Web

<http://eurovoc.europa.eu/drupal/sites/all/files/conference2010/Dunsire%20Eurovoc2010.ppt>

The Vocabulary Mapping Framework (VMF): an introduction, v1.0, December 12, 2009

<http://cdlr.strath.ac.uk/VMF/documents/VocabularyMappingFrameworkIntroductionV1.0%28091212%29.pdf>

resources

FIAF - International Index to Film Periodicals

http://www.fiafnet.org/uk/publications/iifp_subjectHeadings.cfm

FIAF - GLOSSARY OF FILMOGRAPHIC TERMS

<http://www.fiafnet.org/publications/Glossary%20of%20Filmographic%20Terms%20%28English%20Version%292008%20revision.pdf>

IMDb Movie Terminology Glossary

<http://www.imdb.com/glossary/>

IMDb Movie Keyword Analyzer (MoKA)

<http://www.imdb.com/Sections/Keywords/>

Taxonomy Warehouse

<http://www.taxonomywarehouse.com/index.asp>

TaxoBank – List of Vocabularies

<http://www.taxobank.org/terminologies>

MARS Authority Control

<http://ac.bslw.com/community/blog/2011/01/were-expanding-rbms-and-tgm-databases-available-for-searching/>

resources

National Monuments Record Thesauri

<http://thesaurus.english-heritage.org.uk/frequentuser.htm>

MDA Terminology Initiatives

<http://www.mda.org.uk/spectrum-terminology/termwork>

Vocabularies and Thesauri

<http://www.vrafoundation.org/ccoweb/cco/vocab.html>

Guidelines for Constructing a Museum Object Name Thesaurus

<http://www.mda.org.uk/spectrum-terminology/holm>

Thesaurus for Graphic Materials I & 2

<http://www.vocabularyserver.com/tgm1/>

<http://www.vocabularyserver.com/tgm2/>

The Moving Image Genre-form Guide

<http://www.loc.gov/rr/mopic/migintro.html>

Further links (German)

<http://www.jlindenthal.de/mb/index.html>