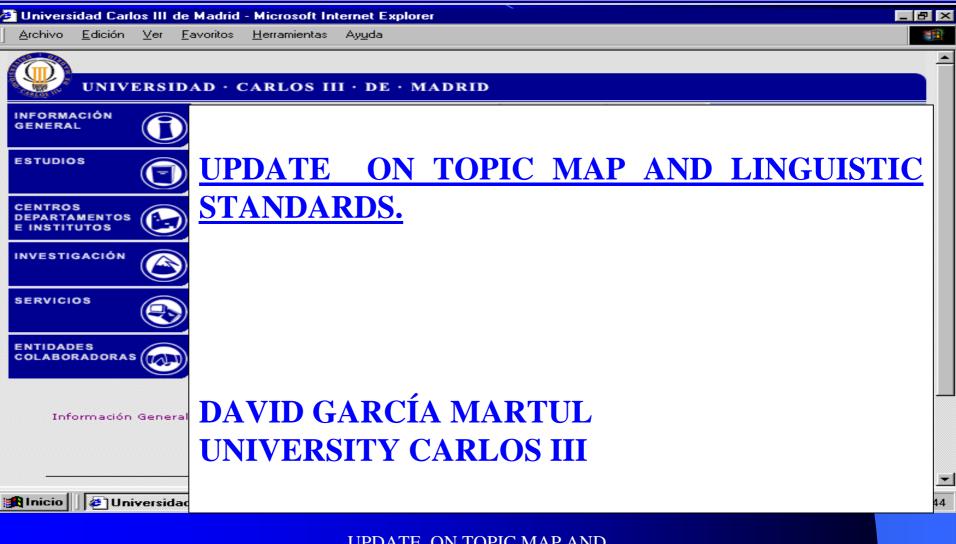


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OVERVIEW

- WHAT'S AN INDEX? 1.
- KNOWLEDGE **ORGANIZATION** 2. SYSTEMS IN DIGITAL LIBRARIES
- LINGUISTIC ONTOLOGIES 3.
- **KNOWLEDGE** MANAGEMENT 4. **ONTOLOGIES: TOPIC MAPS.**
- **IDENTITIES IN SUBJECTS** 5.
- SEMANTIC RELATIONSHIPS 6.
- **TOPIC MAPS: A CALL CENTRE TAX** 7. MAP.
- TOPIC MAPS: MERGING 8. **COMMUNICATION.**
- **CONCLUSIONS** 9. **NKOS 2004**

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WHAT'S AN INDEX?

- **TOPICS**
- TOPIC NAMES
- TOPIC CLASSES
- OCCURRENCES
- OCCURRENCES CLASSES
- ASSOCIATION
- ASSOCIATION CLASSES.

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NKOS 2004

UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

scope, 87-88

SUBJECT BASED CLASSIFICATION: **CONTROLLED VOCABULARIES**

LIST OF TERMS SORTED **ALPHABETICALLY** WITHOUT RELATIONSHIPS **BETWEEN EACH** ITEM.



BUBL LINK / 5:15 Catalogue of Internet Resources

Home | Search | Subject Menus | A-Z | Dewey | Countries | Types | Updates | Random | About

Archivo Edición Ver Favorito Dirección 🍘 http://bubl.ac.uk/link/menus.html 🗸 🏹 Ir

Main Subject Menus

Accounting	<u>Film Studies</u>	<u>Natural History</u>
Acquisitions	<u>Finance</u>	<u>Neuroscience</u>
Advertising	<u>Food and Drink</u>	<u>News and Newspapers</u>
Aerospace Engineering, Aeronautics	Folklore	Nuclear Physics
Agriculture, Forestry, Fisheries	Forestry	Nursing
Anatomy	French	Nutrition
Anthropology	Gaelic	<u>Oceanography</u>
Archaeology	Genealogy	<u>Opera</u>
Architecture	Genetics	Palaeontology
<u>Art, The Arts</u>	Geography	Patents
Astronautics	Geology	Pathology
Astronomy, Space	German	<u>Personnel Management</u>
Aviation, Air Transport	<u>Global Change</u>	Pharmacy
Banking	Government, Public Administration	Pharmacology
Biochemistry	Greek	Philosophy
Biology	Health	Photography
Biomedicine	Higher Education	Physics
Biotechnology	Higher Education Libraries	Physiology
Botany	History	<u>Planning</u>
Broadcasting, Radio, Television	<u>Human Rights</u>	<u>Plants</u>
Building	Humanities	Politics
Business	Immunology	<u>Population</u>
<u>Cardiology</u>	Information Management	<u>Psychiatry</u>
<u>Cartography, Mapping</u>	Information Science	<u>Psychology</u>
Chemical Engineering	Internet	Public Administration
Chemistry	<u>Italian</u>	Public Health
Civil Engineering	Japanese	<u>Publishing, Bookselling</u>
<u>Climatology</u>	<u>Journalism</u>	<u>Radiology</u>
Communications	Language	Reference

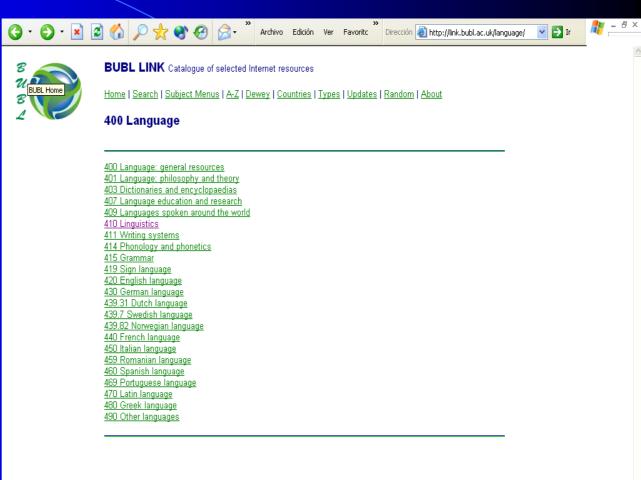
UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

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SUBJECT BASED CLASSIFICATION: TAXONOMIES

TAXONOMIES:
LIST OF TERMS
SORTED BY
HIERARCHICAL
RELATIONSHIPS



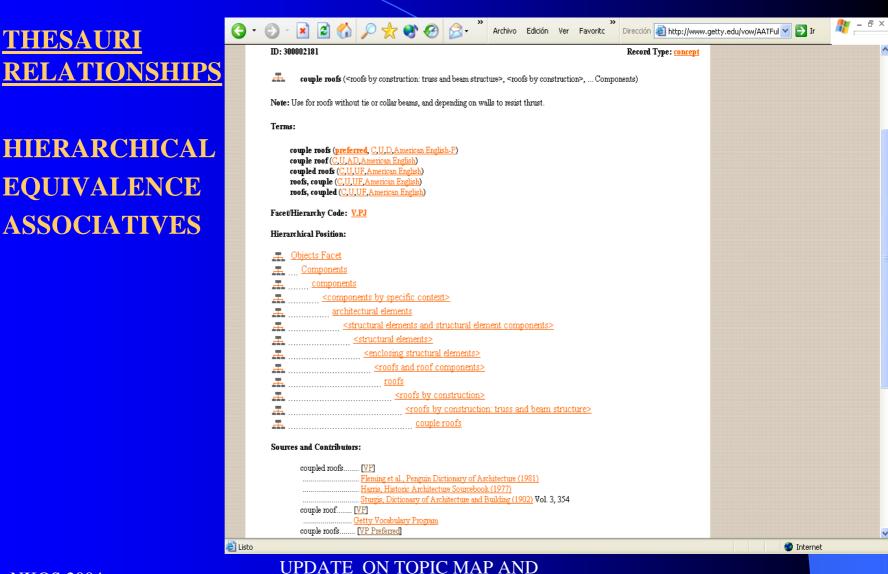
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🥝 Internet

SUBJECT BASED CLASSIFICATION: THESAURI

LINGUISTIC STANDARDS.



2.

3.

SEMANTIC NETWORKS: WORDNET

LINGUISTIC STANDARDS.

 LEXICAL DATABASE composed by lexical unities and their relationships.

It organizes

 around a words
 collection with
 same root wich can
 be interchanged in
 a specific context:
 SYNSET

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WordNet 1.7.1 Search Search word: Find senses	
Overview for "taxonomy"	
The noun "taxonomy" has 3 senses in WordNet. 1. taxonomy (a classification of organisms into groups based on similarities of structure or origin etc)	
 2. taxonomy ((biology) study of the general principles of scientific classification) 3. taxonomy (practice of classifying plants and animals according to their presumed natural relationships) 	
Search for Synonyms, ordered by estimated frequency 🔽 of senses	
✓ Show glosses □ Show contracted help	
Show contextual help Search	
Return to WordNet home	
	•
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SEMANTIC NETWORKS: FRAMENET

- LEXICAL DATABASE wich provides a corpus of sentences noted syntacticly and semanticly that it evokes their differents means or scopes of one term.
- It's a script-like structure of inferences linked to meanings of linguistic units.
- Each frame identifies a set of frame elements (FEs) wich are frame specific semantic roles.
- The description of each lexical item identifies the frames wich underlie a given meaning and the ways in wich the (FEs) in structures headed by the word.
- It documents range of semantic and syntactic combinatory possibilities (valences) of each word in each of its senses, through manual annotation of example sentences and automatic summarization of the resulting annotations.
- It has been translated to RDF and OWL



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DEFINITION.

- FRAME ELEMENTS
- **RELATIONSHIPS BETWEEN FRAMES**

LEXICAL UNITS

RECORD **CONTROL:** Created by infinity on Thu Aug 16 10:34:25 PDT 2001

INDEX BY FRAME

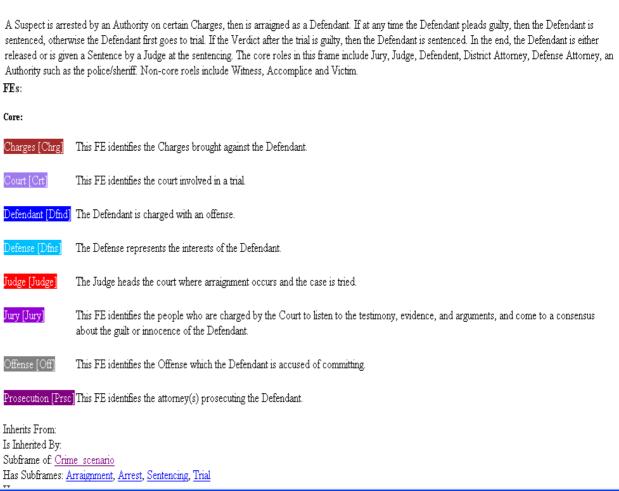
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Archivo Edición Ver Favoritos Herramientas Ayuda

Criminal process

Definition:

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🛃 Inicio C Microsoft PowerPoint ... FrameNet II Home - ... UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

INDEX OF LEXICAL UNITS

LINGUISTIC STANDARDS.

- It is an index to alphabetical lists of the names of the lexical units (LUs).
- Each LU name is followed by the part of speech, the name of the relevant frame, and its status
- The lexical entry provides two tables with information about the LU: Frame Elements and their Syntactic Realizations; and Valence Patterns

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2	•	critical.a.A	(Judgment)	Fn1_sent <u>Lex</u>	ical entry Annotation		^
	•	criticism.n.l	N (Judgment	t communicati	on) Fn1_sent Lexical entry Annotation		
	•	criticize.v.V	(Judgment	communicatio	n) Fn1_sent Lexical entry Annotation		
	•	critique.n.N	I (Judgment	communicatio	n) Finished_initial Lexical entry Annotation		
	•	critique.v.V	(Judgment	communicatio	n) Insufficient_attestations Lexical entry		
				reated <u>Lexical</u>			
	•	croak.v.V (<u>Make Nois</u>	e) Fnl_sent	Lexical entry <u>Annotation</u>		
	•	croak.v.V (<u>Death</u>) Fini	shed_initial [exical entry Annotation		
	•	croak.v.V ((Communica	ation noise) F i	1_sent Lexical entry Annotation		
	•	crock.n.N	(Containers)	Finished_ini	tial Lexical entry Annotation		
	•	croissant.n.	N (<mark>Food</mark>) F	inished_initia	Lexical entry Annotation		
	•	croon.v.V (<u>Make Nois</u>	e) Fnl_sent	Lexical entry Annotation		
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	l	PDA	ΓΕ ΟΙ	N TOP	IC MAP AND		

LEXICAL ENTRY

- It is the classical entry of a dictionary
- It defines his morphological form
- It gives their frame elements, number of texts annotated with this word in each realization.
- Valence Patterns

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	Defi	nition				
	COI	D: an inve	stigatio	n.		
	Fra	ame Elei	nent I	Number A	nnotated]	Realizations
	Inc	ident		8		NMod 4
						P[into].Com 1.Mod 2
	Inv	estigator		4		P[by].Comp
	Val	ence Pa	ottorn	c.		
	v ar	ence ra	attern	5.		
	Thes	e frame e	element	ts occur in t	the followin	g syntactic p:
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UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

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1

3 TOTAL

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Comp

ANNOTATION

- It acts as a dictionary and a thesaurus. Like a thesaurus words are linked to the semantics frames in wich they participate, and frames are linked to wordlists and to related frames.
- It provides all texts used for analizing frame elements of each entry.
- Each sense of a polysemous word belongs to a different semantic frame.
- A script-like structure of inferences that characterize a type of situation, object or event.

and	FrameNet II Home - Microsoft Internet E	xplorer	
u	Archivo Edición Ver Favoritos Herramient	as Ayuda	
	probe.v		
S	Frame Elements	Core Type	
	Duration	Extra-Thematic	
	Incident	Core	
es	Investigator	Core	
S	Suspect	Core	
,	Time	Extra-Thematic	
	 T-NPcrime,allegation,murder-(1) 1 Police are PROBING alleg 	ations that Sage , 16 , hatched a biza	re plan to kill his dad 's handyman
_			seamen 's union revealed in the Daily Mirror last year .
sed			ast night by <mark>police</mark> PROBING a nightwatchman 's murder
	 4. SCOTLAND Yard is to P T-PPby-(1) 	ROBE allegations that British paras ex	recuted Argentine prisoners during the Falklands conflict .
	 NPpolice-T-(1) 		
•		woman were arrested yesterday by p	
	2. Andrea was too distraught	to speak as <mark>police</mark> PROBED <mark>the tra</mark> g	edy at Gabalfa , Cardiff , <mark>yesterday</mark> .

T-PPin, on, at-(1)

 Detectives are PROBING a break-in at the Smith Arms in Greatham, near Hartlepool

FrameNet II Home - ...

- T-PPof,from-(1)
- T-PPwith,to-(1)
- matched-(1)
- unmatched-(1)
- T-PPinto-(2)
 The Securities and Exchange Board of India , the government regulatory body , is PROBING into the dealings of stock brokers trading in Sock dama is according to according to
 - 2. The commissioners are also PROBING into irregularities in the management of a Capital Development Fund to pay for construction projects
- matched-(2)
- unmatched-(2)
 - BERN, Switzerland (AP) --- Switzerland 's prosecutor 's office on Wednesday approved releasing bank and corporate documents to Italian anti-corruption investigators PROBING former Prime Minister Silvio Berlusconi, DNI
 - 2. But police have vet to PROBE any connection of AUM with Russian military circles , the sources said .
 - ES 🔇 🔏 💡 💻 12:19

UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

C Microsoft PowerPoint ...

RELATIONSHIP FRAMENET & SEMANTIC WEB

 Need to describe semantic relationships between different information resources for recalling by subject context in computers.

In a Domain of Knowledge we can implement recognizing of nuances with semantic networks but we need use ontologies implementation languages (OWL) for computers can do it.

NKOS 2004

③ • ③ • ▲ ② ☆ ♀ ☆ ⊗ ⊗ ⊗ ◇ * Archivo Edición Ver Favoritc Dirección @ http://www.ala.org/PrinterTemplate > Ir Taxonomy of Subject Relationships

compiled by Dee Michel with the assistance of Pat Kuhr June 1996 draft (hierarchical display)

Note: Asterisks following a relationship term in the taxonomy indicates that the term was considered by some sources to pe Hierarchical and by other sources to be Associative.

ASSOCIATIVE RELATIONSHIPS

Combined ideas Conceptually related terms Contiguity Definition-based contiguity Empirical knowledge-based contiguity Defiinitional associative relationships Different hierarchy associative relationships Environmental relationships Abstract environmental relationships Discipline/object studied pairs Entity/framework pairs Entity/school of thought pairs Field of endeavor/practitioner pairs Concrete environmental relationships Entity/environment pairs Entity/place pairs Position in time and space Process/environment of application pairs Through situation Situation or condition/what may occur pairs Etymologically related associative relationships Process issue relationships Entity/counteragent pairs Process/counteragent pairs Thing/counteragent pairs Indirect object Instigator/process pairs* Agent/process pairs* Entity/counteragent pairs* Instrument/goal pairs* 🙆 Listo

UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

🥝 Internet

CONCEPT OF TOPIC MAPS

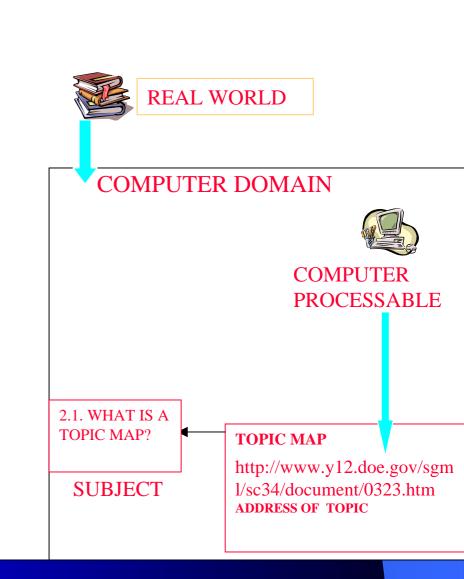
STANDARD ISO/IEC 13250.

A set of information resources regarded by a topic map application as a bounded object set whose hub document is a topic map document conforming to the SGML architecture defined by this International Standard. Or it's any topic map document conforming to the SGML architecture defined by this International Standard.



SUBJECT IDENTITY & SUBJECT INDICATORS

- <u>Subject Identity</u>: To achieve a one to one relationship between topics and the subjects that they represent, in order to ensure that all knowledge about a particular subject can be accessed via a single topic.
- When the subject is an addressable information resource, its identity may be established directly through its address. However abstract subjects are not directly addressable. This problem is solved through the use of subject indicators
- <u>Subject Indicator</u>: It's a resource that is intended to provide a positive, unambiguous indication of the identity of a subject. Because it's a resource a subject indicator has an address that can be used as a subject identifier.



PUBLISHED SUBJECT INDICATORS

LINGUISTIC STANDARDS.

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- A Published Subject Indicator is a subject indicator that is published and maintained at an advertised location for the purposes of supporting topic map interchange and mergeability. A published subject is any subject for which there exists at least one published subject indicator. A published subject identifier is the subject identifier of a published subject indicator.
- This is a set of published subject indicators useful for identifying languages by URI. The The identifiers are URIs based on the bibliographic three-letter codes in the ISO 639 standard (Codes for the representation of names of languages).

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Each of the rows in the table below indicate a different subject. For each row, the subject indicated is the subject identified by the three given ISO 639 codes and the French and English names for that subject as given in ISO 639-2. The last column gives the subject identifier for each language or language group, based on the terminological code.

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	Name (English)	Name (French)	A2	A3E	A31	Published subject identifier
c	Afar	afar	aa	aar	aar	http://psi.oasis- open.org/geolang/iso639/#aar
	Abkhazian	abkhaze	ab	abk	abk	http://psi.oasis- open.org/geolang/iso639/#abk
hich	Achinese	aceh		ace	ace	http://psi.oasis- open.org/geolang/iso639/#ace
	Acoli	acoli		ach	ach	http://psi.oasis- open.org/geolang/iso639/#ach
A	Adangme	adangme		ada	ada	http://psi.oasis- open.org/geolang/iso639/#ada
is	Afro-Asiatic (Other)	afro-asiatiques, autres langues		afa	afa	http://psi.oasis- open.org/geolang/iso639/#afa
	Afrihili	afrihili		afh	afh	http://psi.oasis- open.org/geolang/iso639/#afh
	Afrikaans	afrikaans	af	afr	afr	http://psi.oasis- open.org/geolang/iso639/#afr
bject	Akan	akan		aka	aka	http://psi.oasis- open.org/geolang/iso639/#aka
ying	Akkadian	akkadien		akk	akk	http://psi.oasis- open.org/geolang/iso639/#akk
	Albanian	albanais	sq	alb	sqi	http://psi.oasis- open.org/geolang/iso639/#alb
on the odes	Aleut	aléoute		ale	ale	http://psi.oasis- open.org/geolang/iso639/#ale
odes	Algonquian languages	algonquines, langues		alg	alg	http://psi.oasis- open.org/geolang/iso639/#alg
mes	Amharic	amharique	am	amh	amh	http://psi.oasis- open.org/geolang/iso639/#amh
	English, Old (ca.450-1100)	anglo-saxon (ca.450-1100)		ang	ang	http://psi.oasis-
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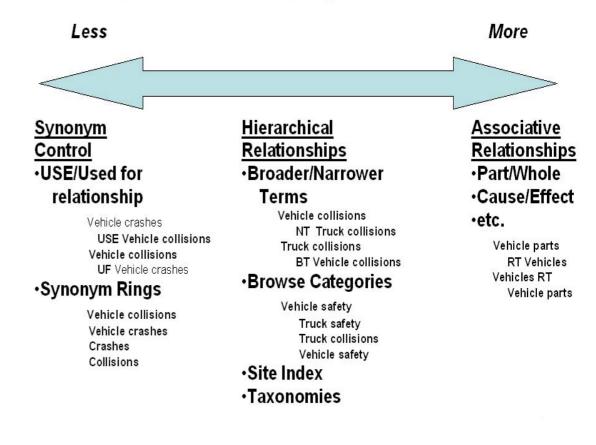
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SEMANTIC RELATIONSHIPS

CURRENT STANDARD

Only accounts for explicit Equivalence relationships. Hierarchical relationship only allowed for genus -species relationship, with few exceptions. Associative relationship only allowed across categories.

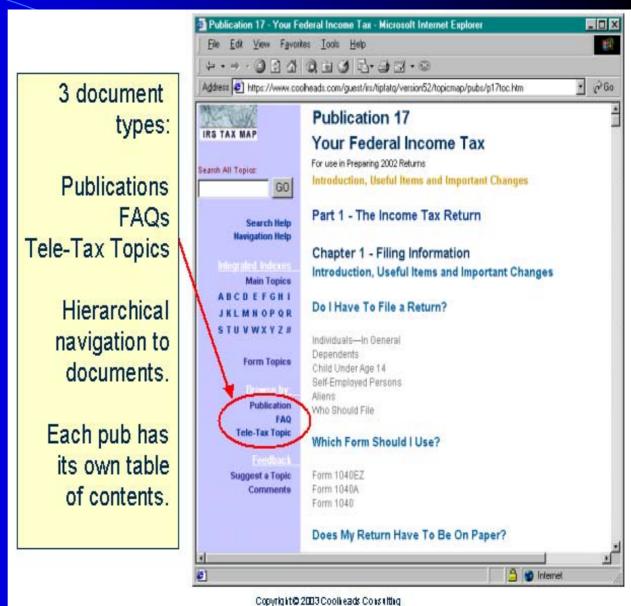
Continuum of Vocabulary Control



NKOS 2004

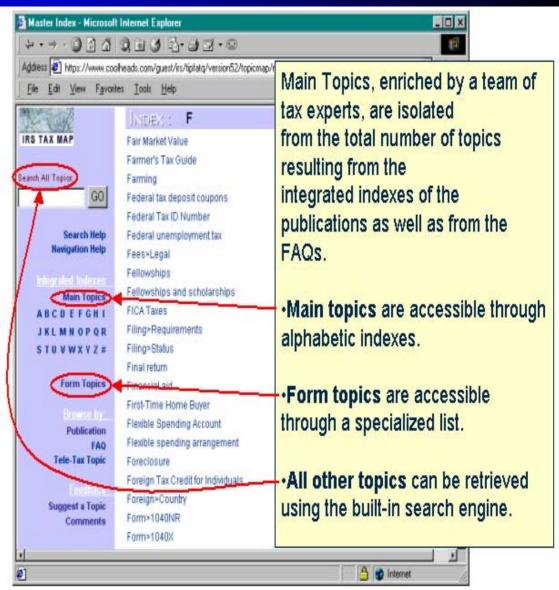
TOPIC MAPS USE CASE: A CALL CENTRE TAX MAP

- The tax map was designed and implemented to increase the accuracy of information given to the public by optimizing access to relevant information for the call assistors.
- Tax map is an integrated navigation system that gives access to tax related information by topic.
- It also enables direct navigation between related topics, in addition to the traditional access to documents by document type and through tables of contents.



TAX MAP: KNOWLEDGE ORGANIZATION LEVEL

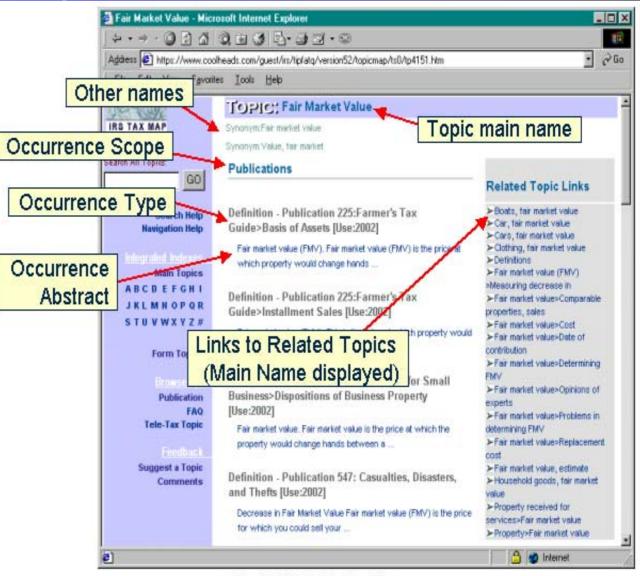
- Topics originate from the collation of all indexed terms in the Tax Information Publications as well as from keywords used in the publications known as FAQ.
- Topics collated from FAQ's are considered the most frequently used topics, and are given the type of "key topic".
- The set of key topics has been enriched "by hand" by a team of tax experts.
- Key topics are accesible through an alphabetical index and topics in relation with forms are accesible through a specialized "Form topic" index.



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TAX MAP: OCCURRENCES LEVEL

- Each topic has its own web page wich gives access to all places it occurs among the various document types. In addition each topic is linked to related topics, enabling access from one topic page to another.
- When a topic has several names, they are preserved so that they can be accessed by their value in the index.
- One name is chosen as the "main name" and each of the other names are displayed as synonyms on the topic page.



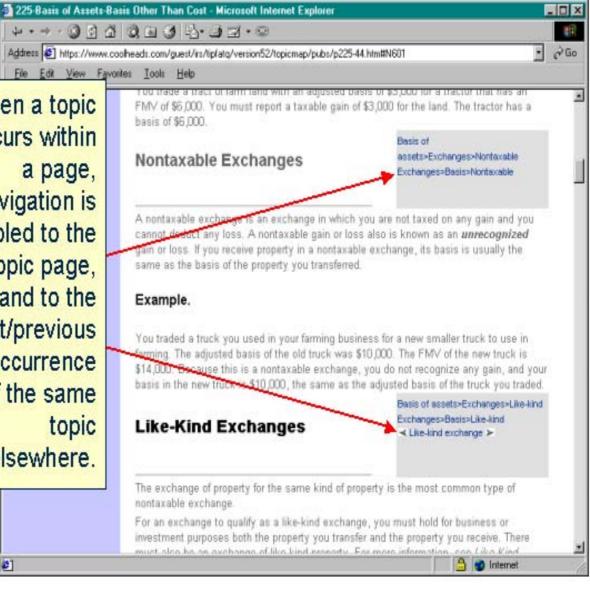
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TAX MAP: BROWSING

- **Occurrences** of a topic are represented on its topic page and are linked to the relevant locations in the publications.
- **Occurrences** are differently represented according to the publication type in wich they are found.
- The occurences are grouped (scoped) according to the type of document in wich they are found.

When a topic occurs within a page, navigation is enabled to the topic page, and to the next/previous occurrence of the same topic elsewhere.

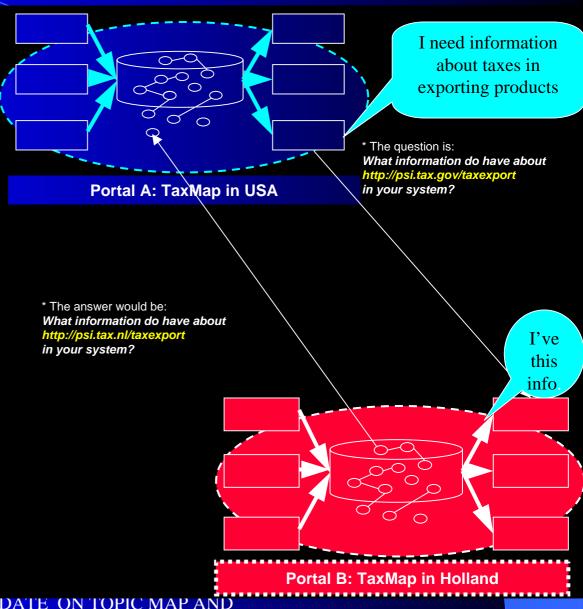
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Copyright@ 2003 Coolheads Consulting UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

TOPIC MAPS REMOTE ACCESS PROTOCOL

- Service for communicating between topic maps applications
- It defines a set of operations for construction of integrated topic map portals
- It works with integration of topic pages, topic occurrences and topic map portal services.
- The key is subject-based organization of information
- It is expected that the improvement of additional services based on TMQL help the communication and networks of topic maps.



NKOS 2004

CONCLUSIONS

- Topic Maps are a Metaindex wich properties are improved with interaction between distributed topic maps.
- 2. Framenet is a Lexicographyc System tied to last works in computational linguistics about terminological information retrieval and lexicography. It could provide a lexicographic database for automatic building of knowledge organization systems.
- **3. Framenet could help to disambiguation of topics in knowledge organization systems through treatment of marked corpora.**
- 4. The bigger problem is the identity of subjects represented by PSI
- **5.** We will need measures of identity of subjects for communication distributed topic maps.
- 6. Progressive appearance of standards for communication and queries to differents topic maps.

7. Development of topic maps will go tied to development of Portals and Digital Libraries. NKOS 2004 UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.

THANK YOU VERY MUCH

UPDATE ON TOPIC MAP AND LINGUISTIC STANDARDS.