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Seminario de la Red de Ingeniería
de software y **bases de datos**

La Infopragmática

Lluvia lingüística: una herramienta de
recuperación de información para
actualizar a jóvenes investigadores

Abril
2014





OBJETIVOS

1. DEMOSTRAR LA UTILIDAD Y EFICIENCIA DE LA LLUVIA LINGÜÍSTICA A TRAVÉS DE MATRICES DE VOCABULARIO CONTROLADO.
2. DESCRIBIR LA CONSTRUCCIÓN DE UNA MATRIZ DE VOCABULARIO CONTROLADO
3. CONTRASTAR RESULTADOS OBTENIDOS DE DIFERENTES SISTEMAS DE INFORMACIÓN ACADÉMICA COMERCIALES (SIAC) . PROVEEDORES ANALIZADOS: *PROQUEST, EBSCO, ELSEVIER.*
4. CONCLUSIÓN: LOS RESULTADOS OBTENIDOS INDICAN EL UNIVERSO SEMÁNTICO QUE UN JOVEN INVESTIGADOR DEBE CONSIDERAR PARA CONFIRMAR, MODIFICAR, ACTUALIZAR O CAMBIAR SUS TENDENCIAS Y MANUSCRITOS DE INVESTIGACIÓN.

Herramienta eficiente para recuperar información

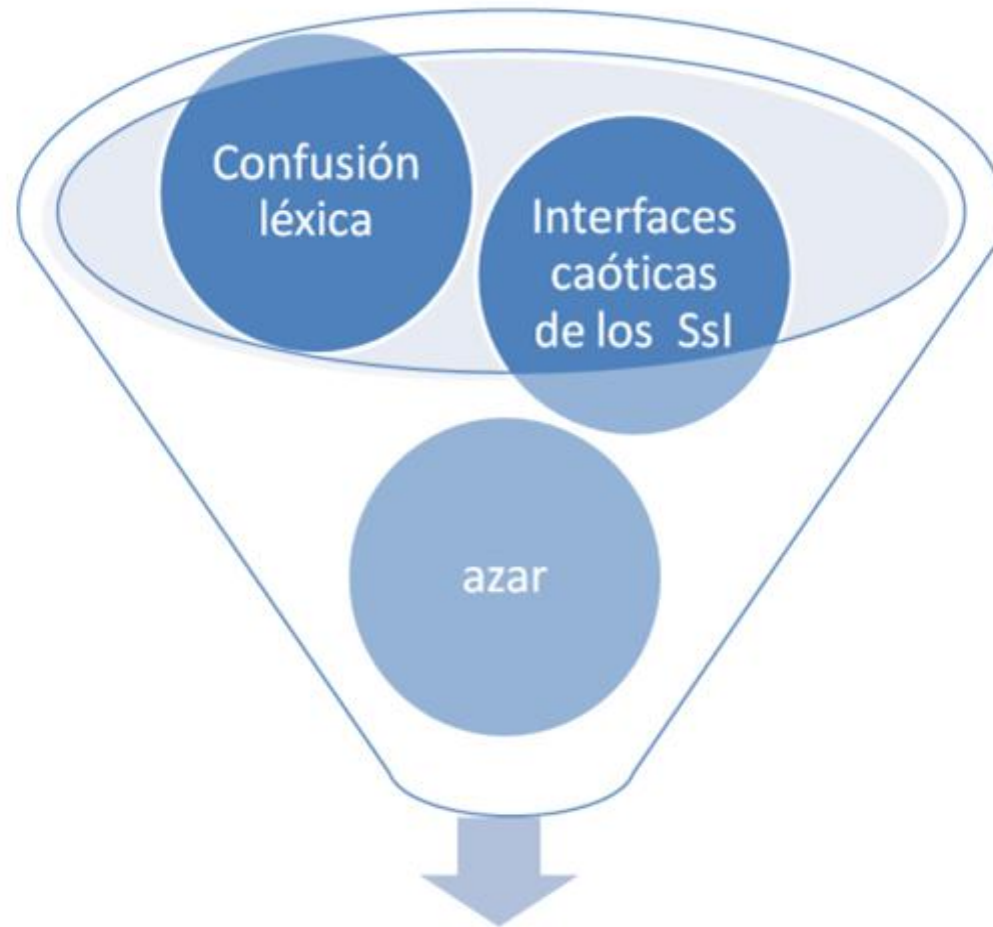


Panorama de nativo-hablantes del español que utilizan SIAC





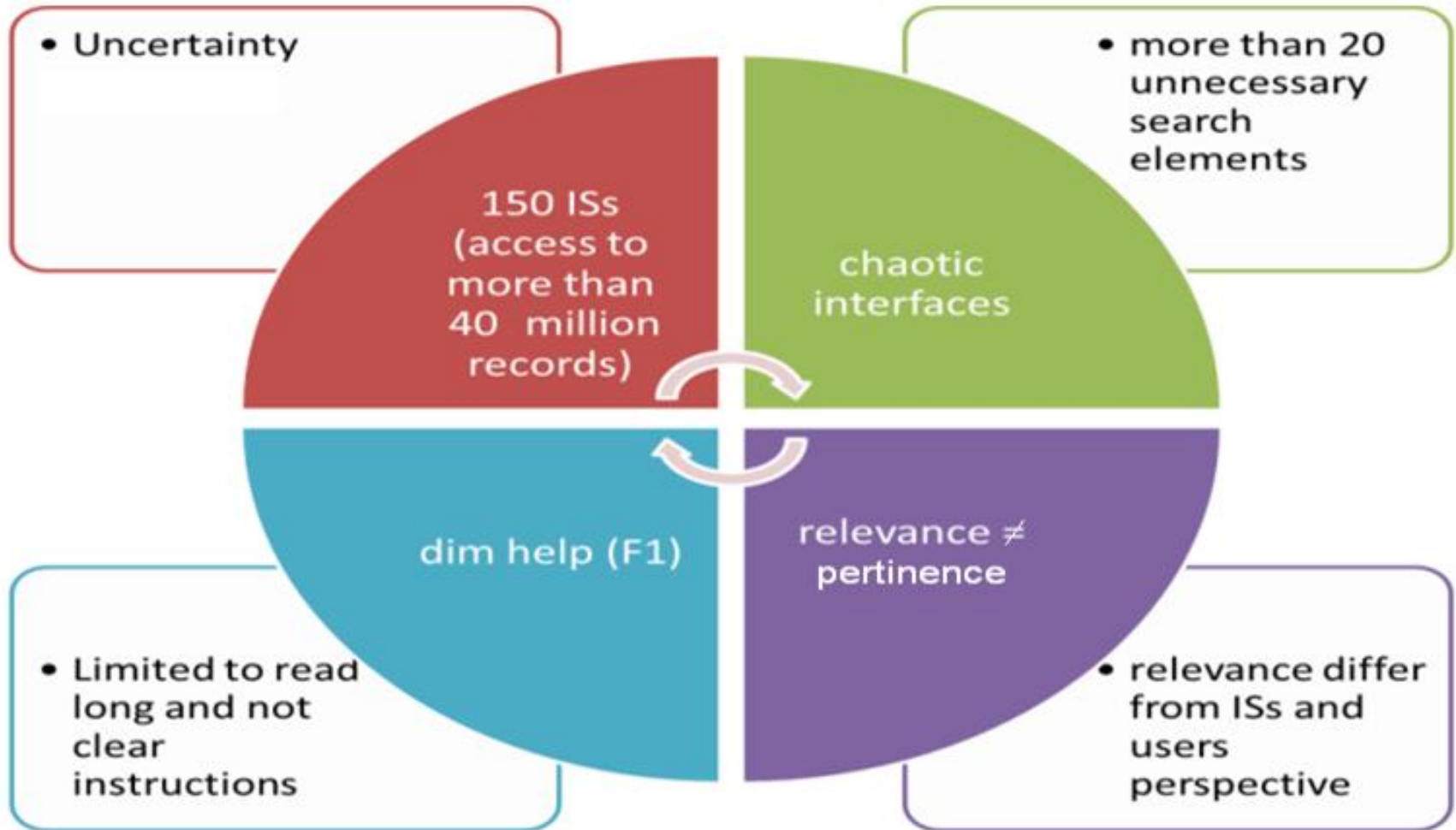
Efectos actuales por la falta de



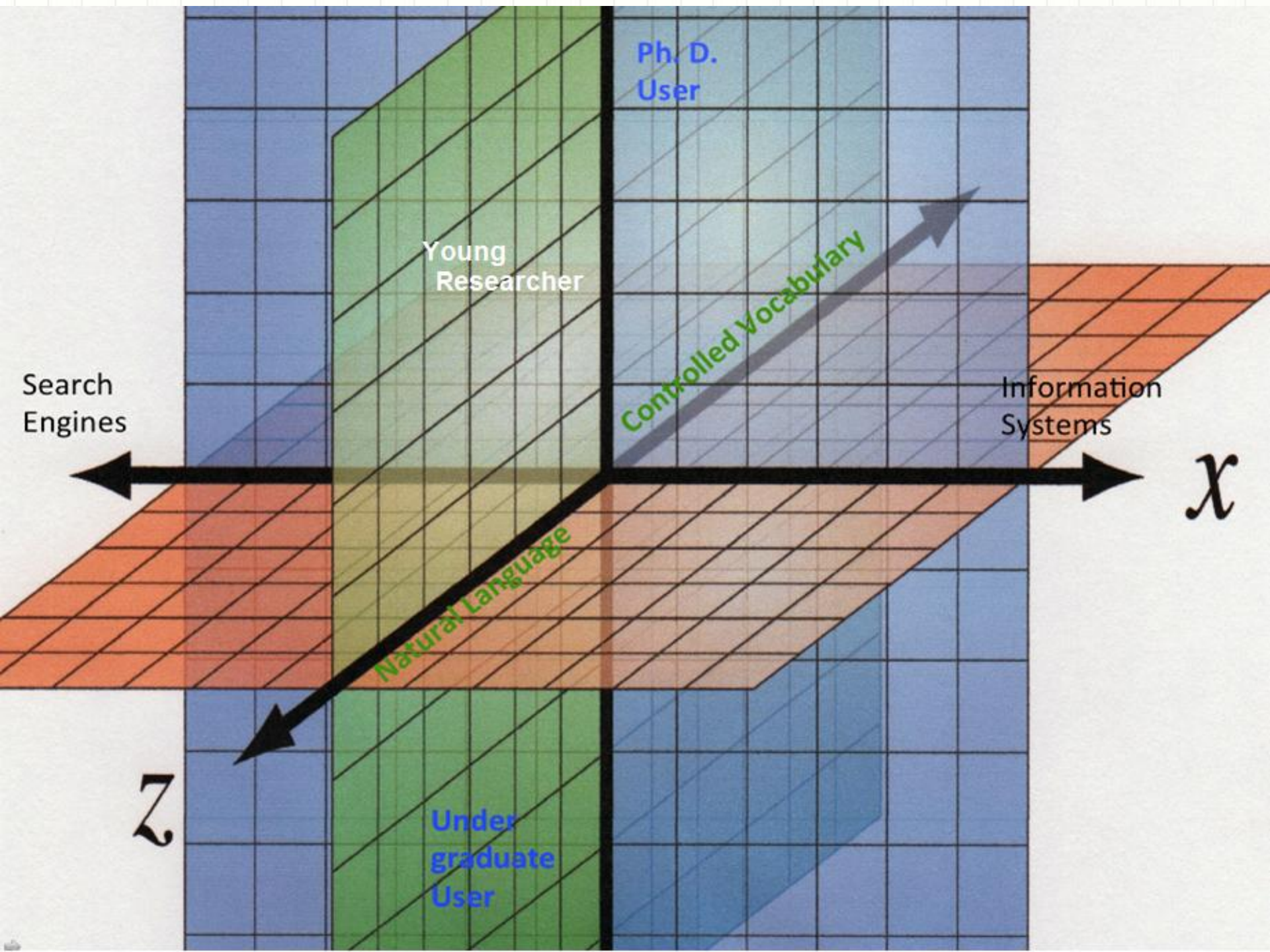
Registros *relevantes*



Information systems issues current state







Ph. D.
User

Young
Researcher

Controlled Vocabulary

Search
Engines

Information
Systems

x

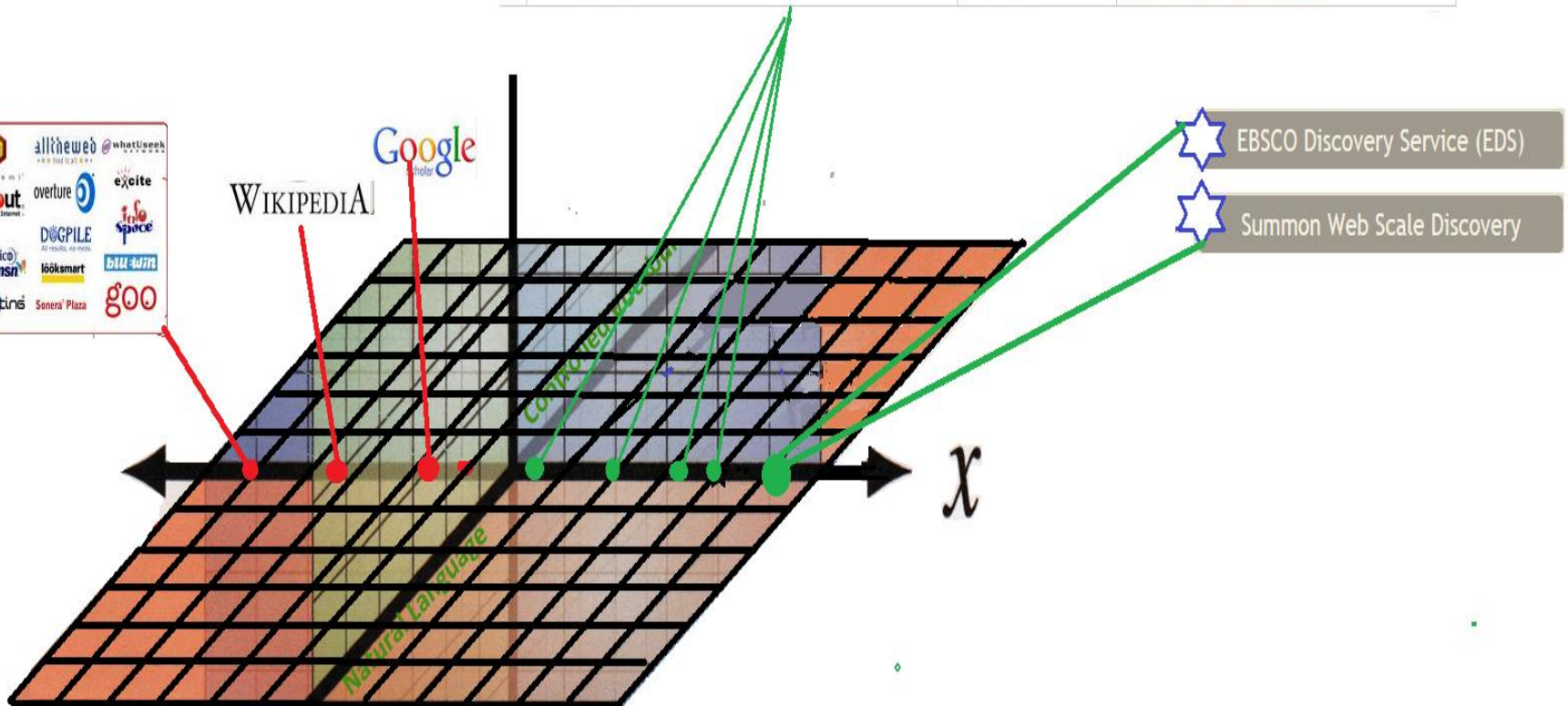
z

Under
graduate
User

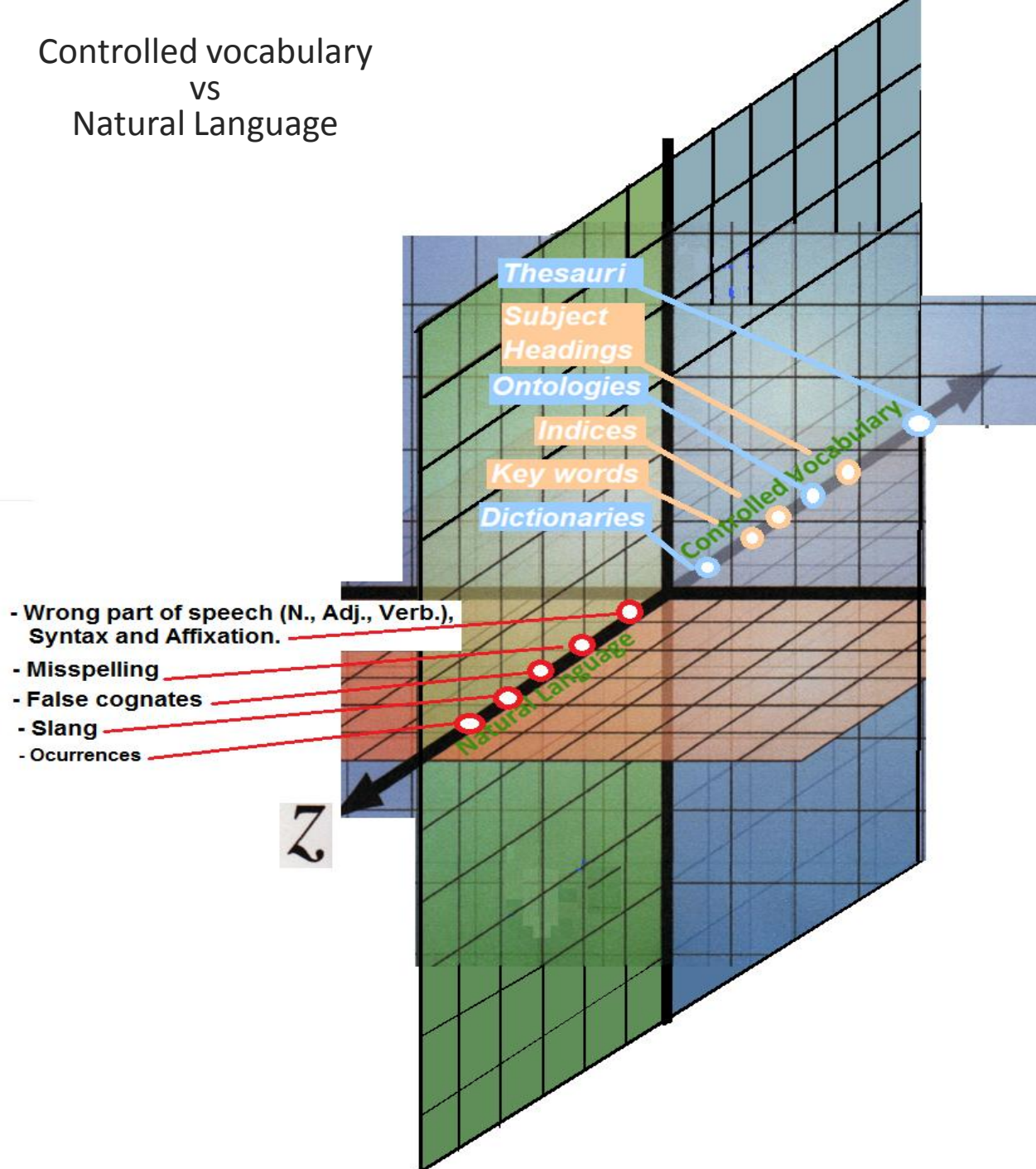
#	Título	Contenido	Enlace
1	Biotechnology and bioengineering abstracts	Referencial	Acceso por PROQUEST (Cubre desde 1982)
2	Chemical abstracts	Referencial	Acceso por CAS (Cubre desde 1975) Para su consulta se requiere realizar registro Ciencias Químicas
3	Computer and information systems abstracts	Referencial	PROQUEST (Cubre desde 1981)
4	Current contents connect: Engineering, computing & technology	Referencial	ISI (Cubre desde 1998)
5	Engineering village 2	Referencial	ELSEVIER (Cubre desde 1990) Acceso al tutorial
6	IEEE Xplore digital library	Texto completo	IEEE (Cubre desde 1980)
7	INSPEC	Referencial	EBSCO (Cubre desde 1969)
8	Mechanical engineering abstracts	Referencial	PROQUEST (Cubre desde 1981)
9	MicroPatent materials patents	Referencial	CAMBRIDGE (Cubre desde 1995)
10	Oceanic abstracts	Referencial	PROQUEST (Cubre desde 1981)



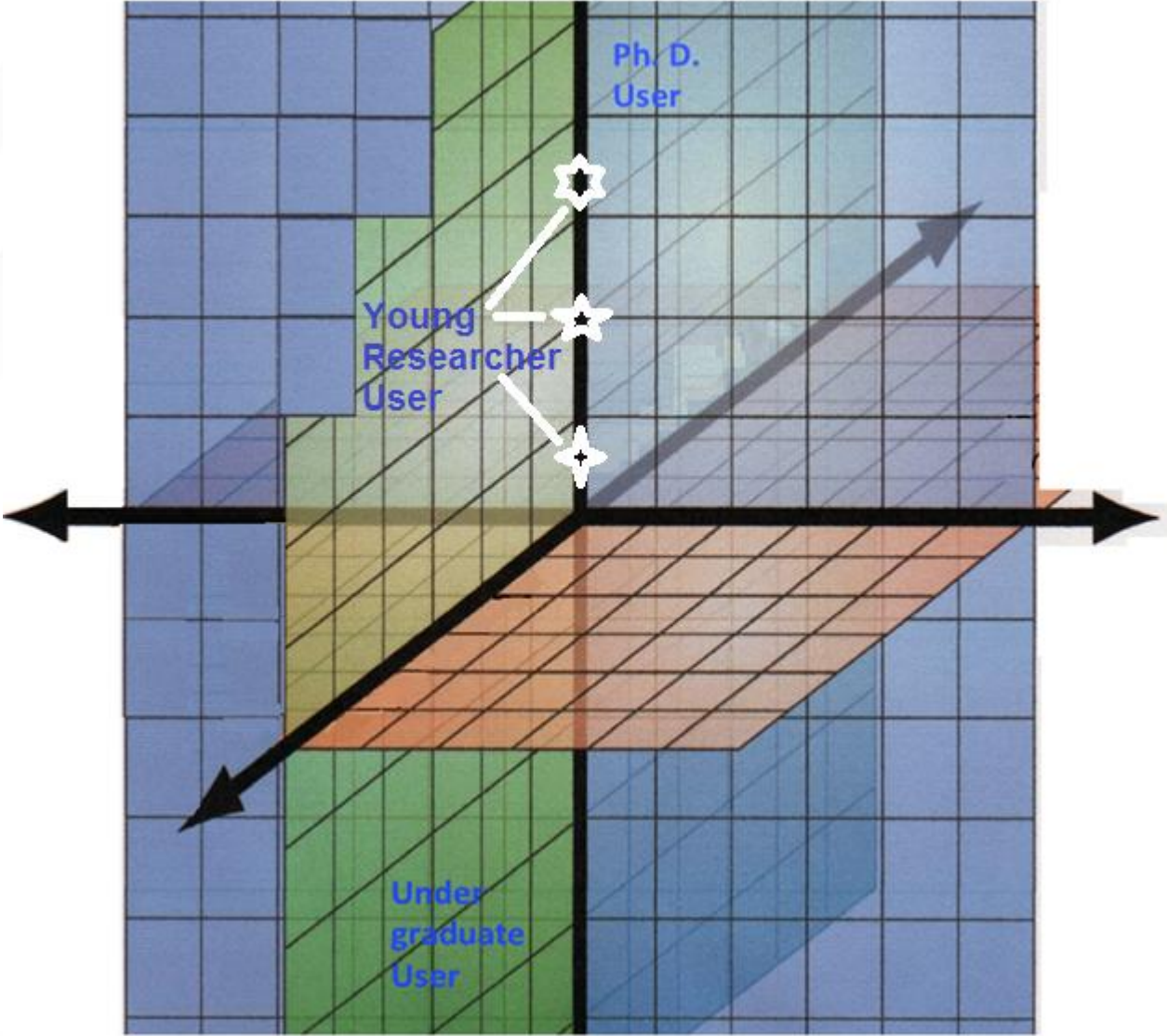
WIKIPEDIA
Google



Controlled vocabulary vs Natural Language



Users



Evidencia de fallas comunes



150 ISs chaotic interfaces, dim help, controlled vocabulary

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Journal/Book title Volume Issue Page [Search ScienceDirect](#)

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Diferencias entre resultados relevantes y pertinentes I.

poor language competence in English




Original Quest:	Protección → Radiológica (syntax)	Spa. (Noun + Adj.)	ProQuest Cambridge Medline	EBSCO Health Source: Nursing/Academic: Edition	ScienceDirect ELSEVIER
First try	Radiology Protection	English (Noun + Noun)	1396	1	14,645
Second try	Radiologic Protection (wrong suffix)	English (Adj. + Noun)	5	15,519	4,027
Third try	Radiological Protection	English (Adj. + Noun)	1,336	67	16,152

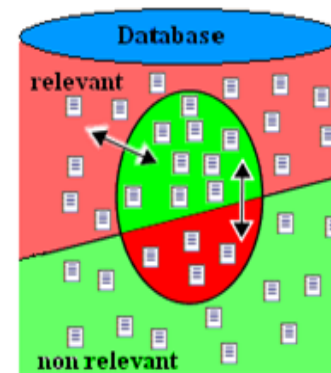
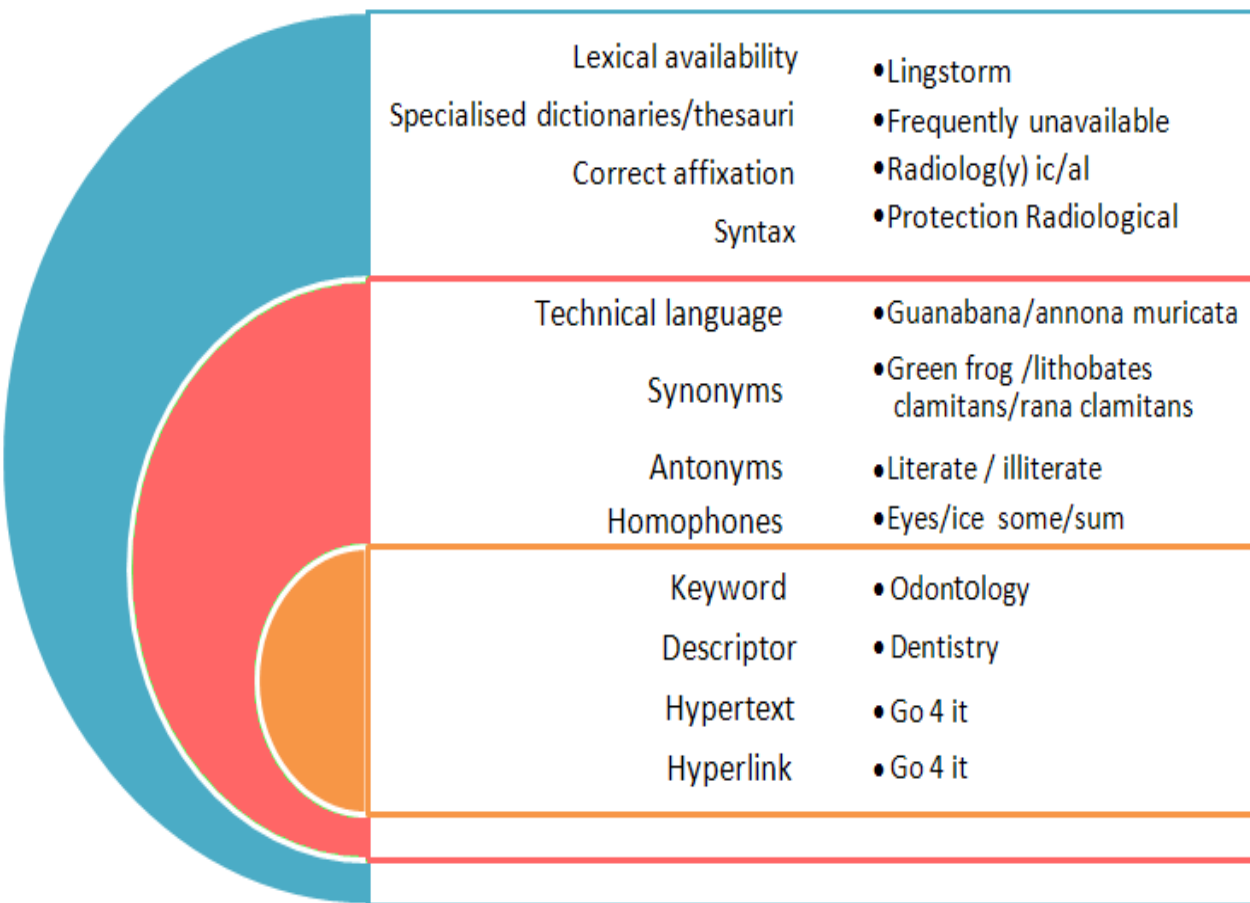
Original Quest:	Rana → Verde (syntax)	Spa. (Noun + Adj.)	ProQuest Biological Sciences	EBSCO Academic Search Premier	ScienceDirect ELSEVIER
Nat. Lang.	Frog Green	(Noun + Adj.)	11	1	19,574
Nat. Lang.	Green Frog	(Adj. + Noun)	309	64	19,574
Ctrld. Voc.	Lithobates Clamitans	(Noun + Adj.)	1	52	13
Alternative	Rana Clamitans	(Noun + Adj.)	262	40	550

Diferencias entre resultados relevantes y pertinentes II

Original Quest :	Bolsa mexicana de valores	 ProQuest ABI/ INFORM	 EBSCO Academic Search Premier	 ScienceDirect
Nat. Lang.	Mexican bag of values	4	1	1,475
Ctrl'd. Voc.	Mexican stock exchange	610	164	2,727

natural language

Original Quest :	Spa. odontología	 ProQuest Cambridge Medline	 EBSCO Academic Search Premier	 ScienceDirect
Nat. Lang.	Eng. odontology	1,893	1,394	13,563
Ctrl'd. Voc.	Eng. dentistry	134,846	29,404	108,143



pertinent records

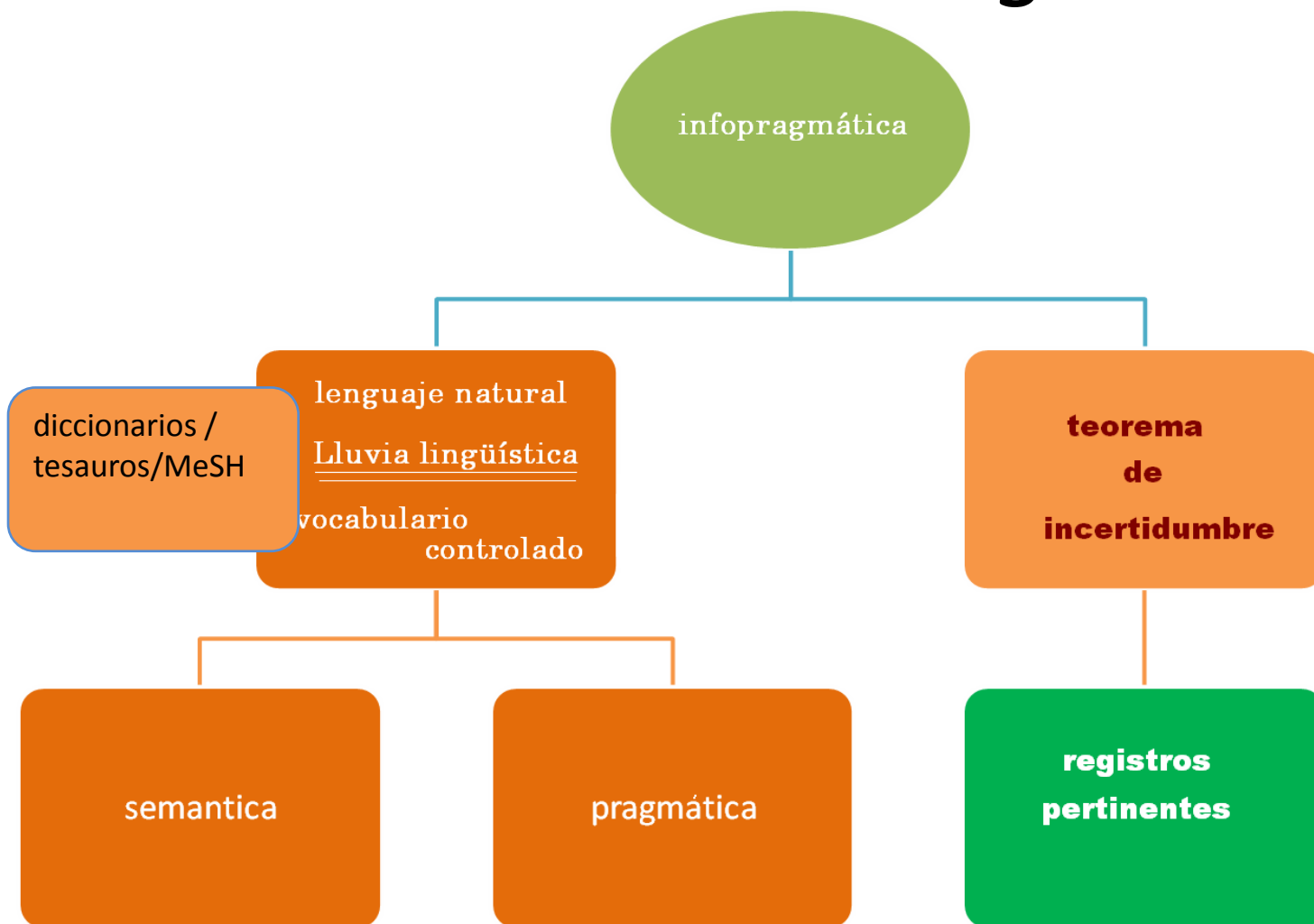
displayed results

- -restrict
- -enhance
- -read abs.

Casos & soluciones



Fuente de la Lluvia Lingüística





Características lingüísticas

lingstorm
dictionary/thesauri
correct affixation
syntax

warrants entrance to controlled vocabulary

- avoids confusing results (nouns -> verbs -> adjectives)
- syntax observed

semantics
technical language
synonyms
antonyms
homophones

manages controlled vocabulary

- enriches results
- negotiates meaning through verbal aids

pragmatics
keyword
descriptor
hypertext
hyperlink

opens pragmatic new paths

- profits previous steps
- dynamises external links

Uncertainty theorem

I.- If there is no information is due to...

- **User lacks lexical abilities**
- **Syntax is wrong**
- **Used terms are not equivalent in meaning**
- **Context is no the appropriate**
- **There is nothing in the used data base**

II.- If the information does not fit is due to...

- **Inappropriate technical language**
- **Incorrect spelling**
- **Key words or descriptors are not such**





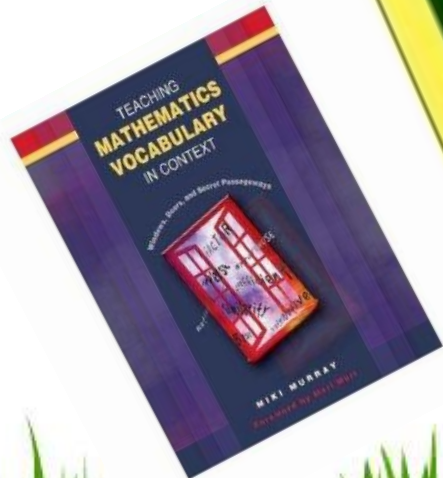
Welcome!

Lingstorm tools,
examples and results.

Lingstorm examples and results



He that would perfect his work must first sharpen his tools.



THESAURUS OF PSYCHOLOGICAL INDEX TERMS,
5th. Ed., 1988, p. 106

Vocablo: Language

Language 67

PN 3271

SC 27740

- N** Dialect 73
 - Figurative language 85
 - Foreign languages 73
 - Form classes (language) 73
 - Homographs 73
 - Neologisms 73
 - Nonstandar English 73
 - Numbers (numerals) 67
 - Phrases 73
 - Sentences 67
 - Sign Language 73
 - Vocabulary 67
 - Written language 67
- R** Bilingualism 73
 - Grammar 67
 - Language Development 67
 - Linguistics 73
 - Literacy 73
 - Monolingualism 73
 - Multilingualism
 - Symbolism 67
 - Verbal Communication 67

Language 67

año en que el término fue empleado por primera vez en la literatura psicológica

PN 3271

número de veces acumuladas en que apareció el término en el año (1987)

SC 27740

código del tema o materia

N

término restringido

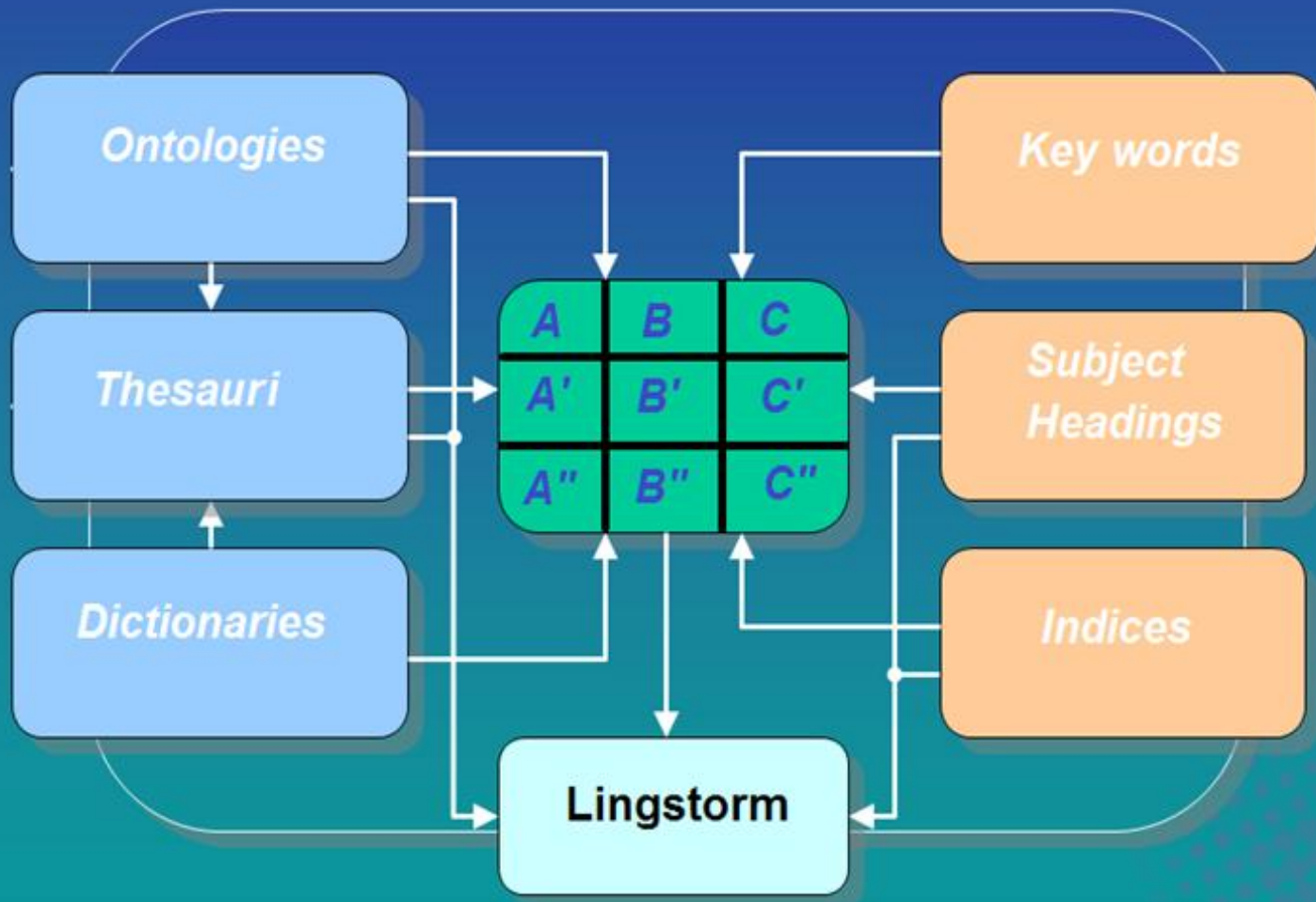
R

término relacionado

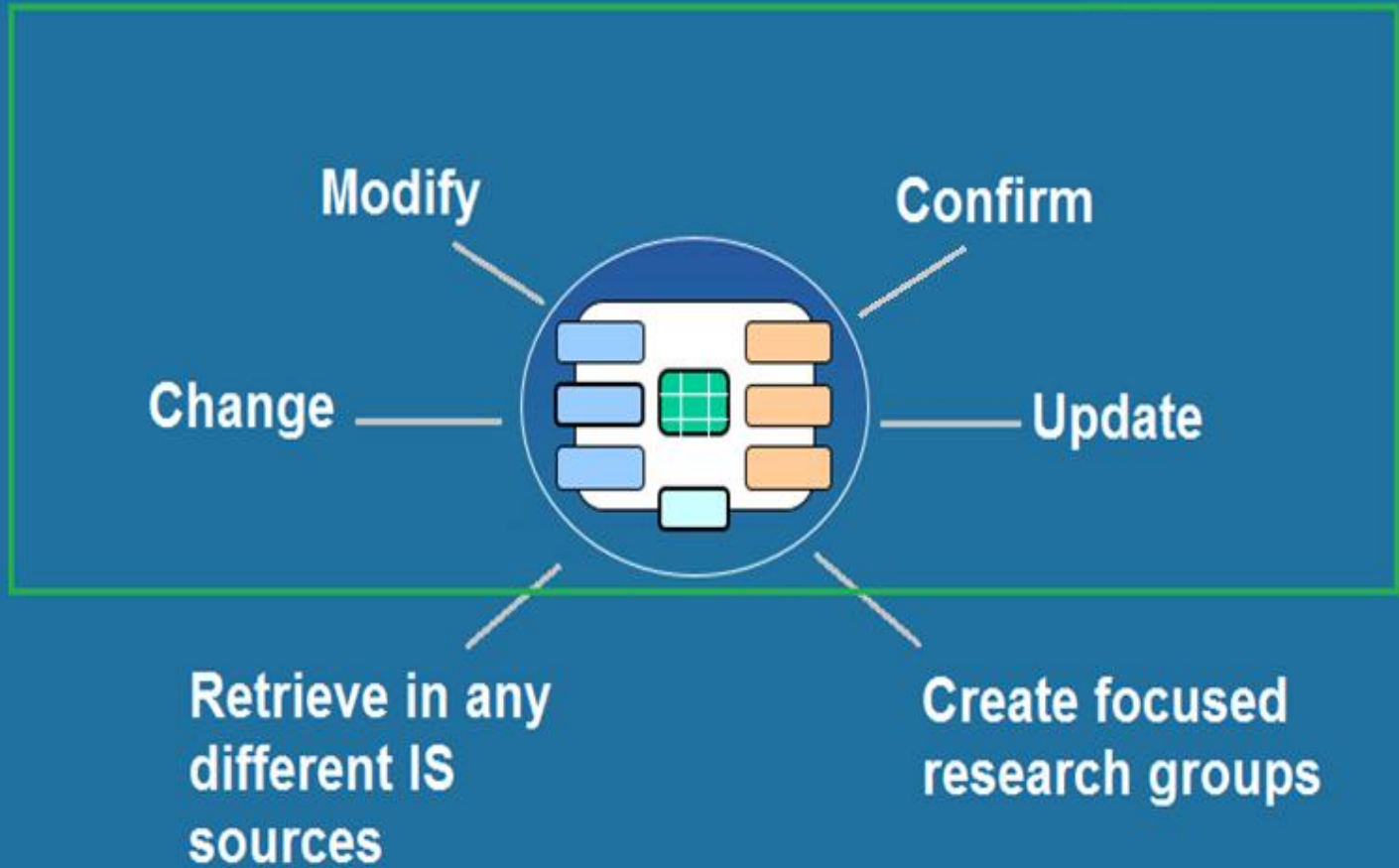
B

término general

LINGSTORM SOURCES



Research



Basic steps

1

- Write your research purpose and select the key words

2

- Get a lingstorm based on specialised thesauri or similar tools

3

- Consult an appropriate database



1

Write the purpose of the research

Example: To assess metallurgic slag as **Fenton-like catalyst** on **disinfection** water by means of slag- H_2O_2 - **solar** light

2

Choose the words that represent the key of your research

Key words: Fenton-like, disinfection, photocatalyst, solar Fenton

3

Get a Lingstorm based on specialised thesauri or similar tools, by creating a matrix of controlled vocabulary, by means of related terms.

Example:

Fenton	Disinfection	Photocatalysis
Oxidation	Cleaning*	Catalysis
Catalytic oxidation	Water treatment	Photochemical reactions

The previous example the terms were collected from the thesaurus integrated in the [Engineering Village](#) Database, from Elsevier.

Do the combination of the selected terms to be entered in a IS:

A	Fenton	B	Disinfection	C	<u>Photocatalysis</u>
A'	Oxidation	B'	Cleaning*	C'	Catalysis
A''	Catalytic oxidation	B''	Water treatment	C''	Photochemical reactions

Check the results

A	B	C	7
A	B'	C	1
A	B''	C	16

A	B	C'	7
A	B'	C'	2
A	B''	C'	71

A	B	C''	3
A	B'	C''	0
A	B''	C''	10

A'	B	C	135
A'	B'	C	268
A'	B''	C	88

A'	B	C'	114
A'	B'	C'	968
A'	B''	C'	465

A'	B	C''	32
A'	B'	C''	115
A'	B''	C''	5

A''	B	C	44
A''	B'	C	88
A''	B''	C	211

A''	B	C'	30
A''	B'	C'	465
A''	B''	C'	700

A''	B	C''	5
A''	B'	C''	5
A''	B''	C''	33

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1785 TO 2014
 1 Updates

SORT BY i

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Lingstorm comments



- Si considero los términos por separado

Fenton: 4331 resultados

Disinfection: 2854 resultados

Photocatalysis: 460 resultados

- Si uso los 3 primeros términos:

Fenton and disinfection and photocatalysis

no obtengo resultados

(Descuido en la selección de la base de datos por demora)

Esta búsqueda fue la más útil para los propósitos de mi trabajo:

Si uso sólo 2 términos

- Fenton and disinfection: 30 artículos
- Fenton and photocatalysis: 21 artículos
- Disinfection and photocatalysis: 21 artículos

Combinando los términos principales con los términos relacionados

- Fenton and cleaning and catalysis: 2
- Fenton and water treatment and photochemical reactions: 9
- Oxidation and photocatalysis and photocatalysis: 166



- Esta actividad me permitió:

- 1) darme cuenta que al menos en esta base de datos **Fenton** no forma parte de un lenguaje controlado; no obstante, cuando realizo la búsqueda en la base de datos sí obtengo resultados Descuido en la selección de la base de datos pordemora
- 2) Con el uso del thesaurus pude depurar la búsqueda de artículos relacionados con mi tema de estudio
- 3) Encontré al menos dos artículos de gran interés
- 4) Identifiqué una revista para publicación: *Chemosphere*.





Chemosphere

Welcome to the online submission and editorial system for *Chemosphere*.

Chemosphere is an international journal designed for the rapid publication of original communications as well as review articles. Chemosphere, as a multidisciplinary journal, offers maximum dissemination of investigations related to all aspects of environmental science. Chemosphere will publish:

- Original communications describing important new discoveries or further developments in important fields of investigation related to the environment and human health
- Reviews, mainly of new developing areas of environmental science
- Special, themed issues on relevant topics.

The following sections and subject fields are included:

- Persistent Organic Pollutants and Dioxins
- Environmental Chemistry
- Environmental Toxicology and Risk Assessment
- Science for Environmental Technology

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Guide for Authors



INTRODUCTION

- Types of paper

BEFORE YOU BEGIN

- Ethics in Publishing
- Conflict of interest
- Submission declaration
- Changes to authorship
- Copyright
- Retained author rights
- Role of the funding source
- Funding body agreements and policies
- Open access
- Language and language services



Introduction

Submission of Papers

All manuscripts should be submitted electronically through Elsevier Editorial System (EES) which can be accessed at <http://ees.elsevier.com/chem>.

During submission papers should be marked for the attention of a subject Editor or the relevant section, if possible. Failure to provide this information will significantly delay processing of the manuscript.

Types of paper

Chemosphere accepts Research Papers, Review Papers, Short Communications, Letters to the Editor, Replies and Discussion Papers. Please note that papers with a routine nature and lacking originality, novelty and uniqueness will not be accepted for publication.

A Short Communication should be of significant scientific merit (a novel finding that warrants immediate publication).

Article structure



- Submission
- Referees

PREPARATION

- Use of wordprocessing software
- Article structure
- Essential title page information
- Abstract
- Graphical abstract
- Highlights
- Keywords
- Abbreviations
- Acknowledgements
- Nomenclature and units

- Math formulae
- Footnotes
- Artwork
- Tables
- References
- Video data
- Supplementary data
- Submission checklist
- Additional information
- AFTER ACCEPTANCE**
- Use of the Digital Object Identifier
- Proofs
- Offprints
- AUTHOR INQUIRIES**

Linguistic Storm II

Purpose:

The purpose of this paper is to describe a comprehensive characterization of fungal metabolites by means of the active extract of an endophytic fungus bioassay guided fractionation.

Selected keywords:

Endophytic fungus / endophytes

Antifungal / anti-fungal / fungicides

Herbicidal / herbicides / phytotoxicity

1 st keyword	2 nd keyword	3 rd keyword	Counts
Endophytic fungus	Antifungal	Herbicidal	29 *
		Herbicides	96
		Phytotoxicity	66
	Anti-fungal	Herbicidal	4
		Herbicides	15
		Phytotoxicity	11
	Fungicides	Herbicidal	14
		Herbicides	111
		Phytotoxicity	63
Endophytes	Antifungal	Herbicidal	22*
		Herbicides	77
		Phytotoxicity	50
	Anti-fungal	Herbicidal	5
		Herbicides	16
		Phytotoxicity	8
	Fungicides	Herbicidal	8
		Herbicides	125
		Phytotoxicity	52
Endophytic fungus	Antifungal	Or Herbicidal	820 *
Endophytes	Antifungal	Or Herbicidal	739 *

*This search led to the discovery of new and interesting papers



Linguistic Storm III

Resultados

A	B	C	30
A	B	c'	0
A	B	c''	14

Resultados

A'	B	C	0
A'	B	c'	2
A'	B	c''	2

Resultados

A''	B	C	2
A''	B	c'	0
A''	B	c''	2

	0	1	2
A	Abelian variety	Tori	Torus
B	Complex multiplication	CM-algebra	CM algebra
C	cyclotomic	primitive root of unity	cyclotomic field

A	B'	C	0
A	B'	c'	0
A	B'	c''	0
A	B''	C	0
A	B''	c'	0
A	B''	c''	0

A'	B'	C	0
A'	B'	c'	0
A'	B'	c''	0
A'	B''	C	0
A'	B''	c'	0
A'	B''	c''	0

A''	B'	C	0
A''	B'	c'	0
A''	B'	c''	0
A''	B''	C	0
A''	B''	c'	0
A''	B''	c''	0

Búsquedas realizadas en SUMMON , 28 nov, 2013

Restringidas a ARTÍCULOS

Abelian variety	Complex multiplication	cyclotomic	304
Tori	CM-algebra	primitive root of unity	0
Torus	CM algebra	cyclotomic field	52

Búsquedas en GOOGLE SCHOLAR sin restricción.

3610
4
1290

HOMEWORK WORKSHOP PUBLISH YOUR RESEARCH. 🚩

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DESCRIPTION_OF_CHILD_HUMAN_RIG...docx (256 KB)

- Hola Rafael:

Te envió en documento anexo el título, el propósito y las palabras clave del artículo, con la búsqueda que hice en pubmed.

Tengo algunas preguntas:

- - 1) Busqué los términos del vocabulario controlado, el cual incluí en las palabras de mi propósito, pero no encontré una palabra en vocabulario controlado para **pediatra**, solamente physician, ¿me recomiendas que quite este término como palabra clave, porque physician no se ajusta exactamente a mi propósito?
 - 2) En pubmed en los términos mesh (vocabulario controlado) encontré la definición de **child como niño en edad escolar**, y **minor que abarca a todos los menores de edad**, pero en la búsqueda existen muchos más artículos y que si están relacionados con mi tema con la palabra child. En mi artículo yo describo a niños de todas las edades, ¿me recomiendas que deje la palabra minor?

Esta búsqueda fue muy ilustrativa y productiva, identifiqué los términos de inglés controlado de mi tema, encontré algunas revistas que no tenía idea que existían super específicas para el mismo, creo que por fin encontré vocabulario más adecuado para mi propósito y encontré artículos útiles que me servirán de referencias.

En el documento que te envió lo primero hasta donde inicia background es la tarea, lo demás ignóralo por favor, son los ensayos y búsquedas que hice hasta llegar a la parte de arriba.

Un favor, puedes enviarme el link de la clase pasada. Gracias.

Que tengas buena tarde.

Aby Casas

Resume



- Define and write your research purpose
- Consider lingstorm steps
- Select an appropriate IS
 - Look and demand for linguistic tools

A brief survey on the utility of Lingstorm

1. How did you find the *Lingstorm* as a tool to retrieve pertinent information?

Not useful _____ Not very useful _____ Totally useful _____

2. Did you use an Information Retrieval tool before using *Lingstorm*?

NO _____ YES _____

3. Would you like to take a workshop to work more on *Lingstorm*?

NO _____ YES _____

4. Would you recommend the *Lingstorm* to your colleagues?

NO _____ YES _____

5. What element, do you think, *Lingstorm* misses to be more complete?





ΕΥΧΑΡΙΣΤΩ

Quick Search

68 articles found in Compendex & GEOBASE for 1785-2014: ((fenton) WN All fields) AND ((disinfection) WN All fields)

[New Search](#) | [Edit](#) | [Save Search](#) | [Create Alert](#) | [RSS feed](#) | [Search history](#)

Refine results

Add a term

Controlled vocabulary

- Disinfection** (52)
- Oxidation (26)
- Wastewater Treatment (21)
- Hydrogen Peroxide (13)
- Escherichia Coli (12)
- Wastewater (12)
- Coagulation (10)
- Water Treatment (10)
- Biological Materials (9)
- Chemicals Removal (Water Treatment) (9)

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Database

- Compendex (48)
- GEOBASE (20)

Author

- Fernandez, Ibanez P. (9)
- Pulgarin, Cesar (7)
- Polo, Lopez M.I. (6)
- Fernandez, Ibanez Pilar (5)
- Malato, Sixto (5)

[View more](#)

Author affiliation

Classification code

Country

Document type

Language

Year

Source title

Run new search with selected facets

Display: 25 results per page

Go to page: of 3 | [Next >](#)Select: Selected Records (0) | Delete All
 Email | Print | Download | Save to Folder | Remove Duplicates

Sort by: Relevance

1. **Electron microscopic investigation of the bactericidal action of electrochemical disinfection in comparison with chlorination, ozonation and Fenton reaction**
Diao, H.F. (State Key Jt. Lab. Environ. S., Dept. of Environ. Sci. and Eng., Tsinghua University, Beijing 100084, China); Li, X.Y.; Gu, J.D.; Shi, H.C.; Xie, Z.M. Source: *Process Biochemistry*, v 39, n 11, p 1421-1426, July 30, 2004
Database: Compendex
[Abstract](#) | [Detailed](#) | [Show preview](#) | [Cited by in Scopus \(82\)](#) | [Full text](#)
2. **Drinking water and biofilm disinfection by fenton-like reaction**
Gosselin, F. (Université de Lorraine and CNRS, LCPME, UMR 7564, 405 rue de Vandoeuvre, 54600 Villers-lès-Nancy, France); Madeira, L.M.; Juhna, T.; Block, J.C. Source: *Water Research*, v 47, n 15, p 5631-5638, October 1, 2013
Database: Compendex
[Abstract](#) | [Detailed](#) | [Show preview](#) | [Full text](#)
3. **Disinfection of real and simulated urban wastewater effluents using a mild solar photo-Fenton**
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