

KO across disciplines and media
online, 14 June 2024

Development and new applications of the Integrative Levels Classification

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Emanuela Valenzano


Integrative Levels Classification



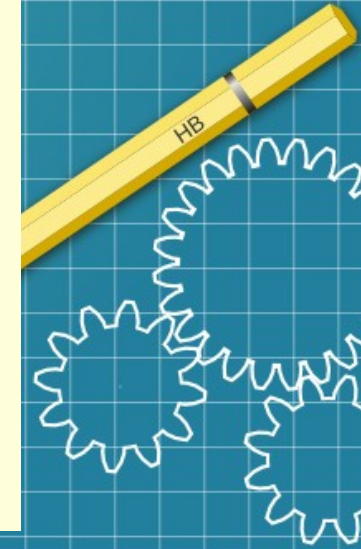
- A phenomenon-based KOS
- Freely faceted
- Developed since 2004 by an international team
- ILC2 published in SKOS
- ILC3 developing



a forms
b quantum fields
c spacetime
d particles
e atoms
f molecules
g bulk matter
h celestial objects
i rocks
j landforms



l cells
m organisms
n populations
o agency
p consciousness
q language
r production
s services
t communities
u polities
v legal entities
w customs
x creative arts
y scholarship



Facet kinds

Free facets:

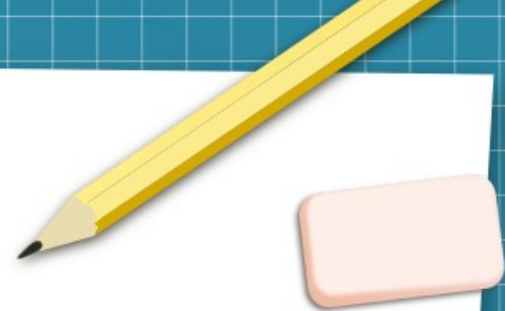
mq40rt “animals, disturbed by factories”

Parallel facets

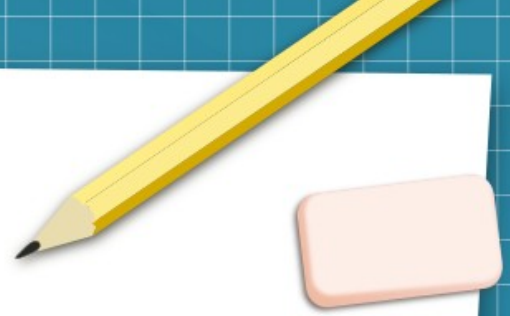
mq27ezpr “animals, in Algarve”

Bound facets

mq7q “animals, skeleton”



ILC documentation



- “How ILC works”
iskoi.org/ilc/how.pdf
- Video-tutorials
- Online classmark builder
(planned)

A screenshot of a web browser window. The address bar shows the URL iskoi.org/ilc/ilc.php with a warning icon and the text "Non sicuro". The page content includes the heading "ILC developing" and a section titled "main classes: (select + to expand)" with a list of items: "a forms +", "b quantum fields +", and "c spacetime +".

ILC developing

main classes: (select + to expand)

| | | |
|---|----------------|---|
| a | forms | + |
| b | quantum fields | + |
| c | spacetime | + |

Application to the domain of allergy



HAL science ouverte

Chercher un document, un auteur, un mot clef...



Télécharger
pour visualiser

Dates et versions

hal-04248829 ,
version 1 (20-10-2023)

Identifiants

HAL Id : **hal-04248829**, version 1

Communication Dans Un Congrès Année : 2023

Representing and organizing everyday medical terminology and conceptualization in a general faceted classification: towards a reconciliation between epistemological and ontological approaches

Marcin Trzmielewski

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TradEU demonstrator

Traditional Europe

A selected videography indexed by ILC

Click on one, two or three entries, following the top-down order, then on the "search" button:

☾ customs: games · initiation · marriage · Carnival · Easter · May Day · Christmas

🕒 region: Britain · Ireland · Germany · Benelux · France · Spain · Portugal · Italy

🌿 symbols: clothes · effigies · flags · plant parts · animals

🕯️ rites: dressing up · procession · itinerant begging · bonfire · meal

🎵 instruments: song · percussion · drums · stringed · wind



This is an experimental demonstrator of the [Integrative Levels Classification](#) research project in collaboration with [Lo Stivale che Balla](#)

Out of 65 audiovisual documents in the directory, 4 (sorted by classmark) include the chosen combination.



w192ezpe7h76w75Uo70rb5c50wg

feast days,
typical of Central Portugal,
religious symbol,
flowers,
cattle,
using,
procession,
games



w192fs76g50xn53nq53nrw53no53d

feast days,
typical of Basilicata,
stem,
dances,
with bagpipes,
with accordions,
with oboes,
with membranophones

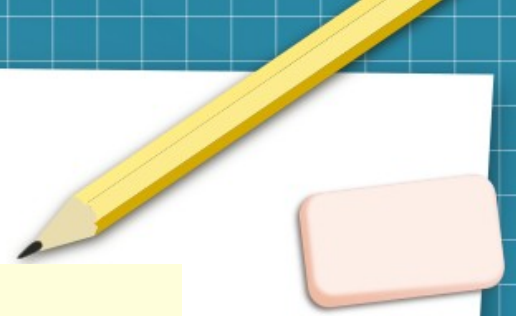
Application to ethnicity-racism studies



- A sensible domain
- How can ethnic groups be defined?...
- Relationships to lower levels:
 - colours as radiation → colours of bulk matter
 - human skin
 - languages
 - countries
- See Barcellos d'Almeida & Campos in this event

Revision of matter classes

- c spacetime
- d particles
- e atoms
- f molecules
- g bulk matter
- h celestial objects
- i rocks
- j landforms
- k genes



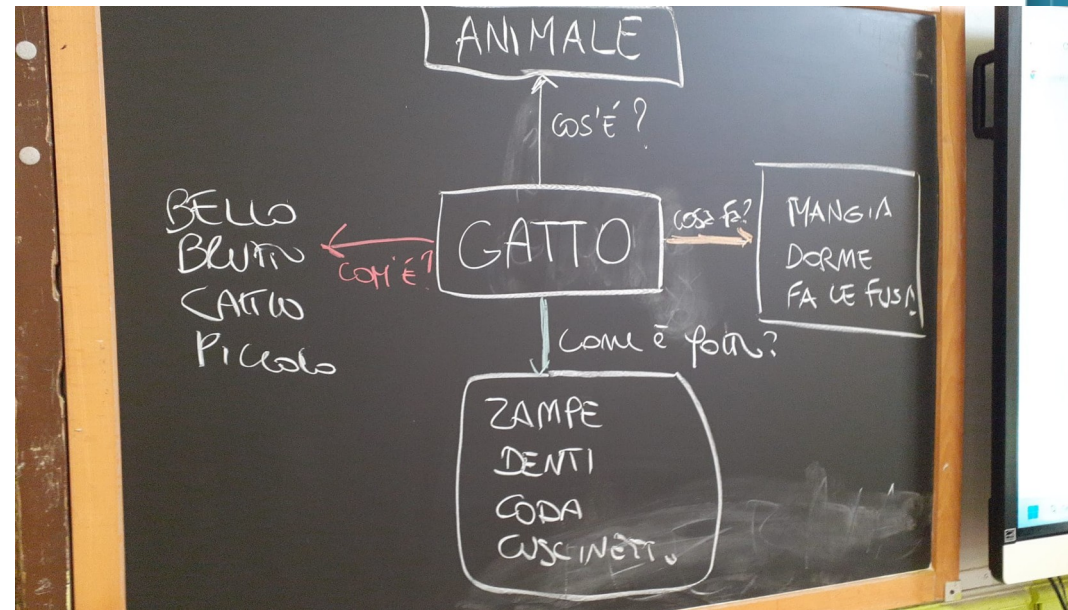
Revision of matter classes



| | |
|-------|--|
| g | liquids ≈ DDC 532 |
| g 55g | vaporization |
| g 55s | solidification; freezing |
| g g | foams; gas-in-liquid mixtures |
| g go | liquid foams <i>including whipped cream, shaving cream</i> |
| g l | liquid mixtures |
| g lo | emulsions <i>including milk, mayonnaise, hand cream</i> |
| g s | solid-in-liquid mixtures |
| g so | liquid sols <i>including pigmented ink, blood</i> |
| g su | muds |

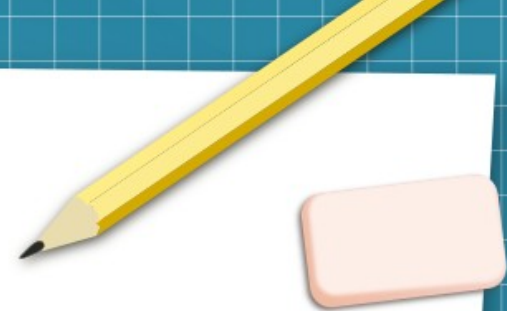
Application to language acquisition

- as part of the MaVi (Marcatori Visivi) learning method by Sebastiani & Valenzano
- children increase their vocabulary better if new words are connected to a semantic network

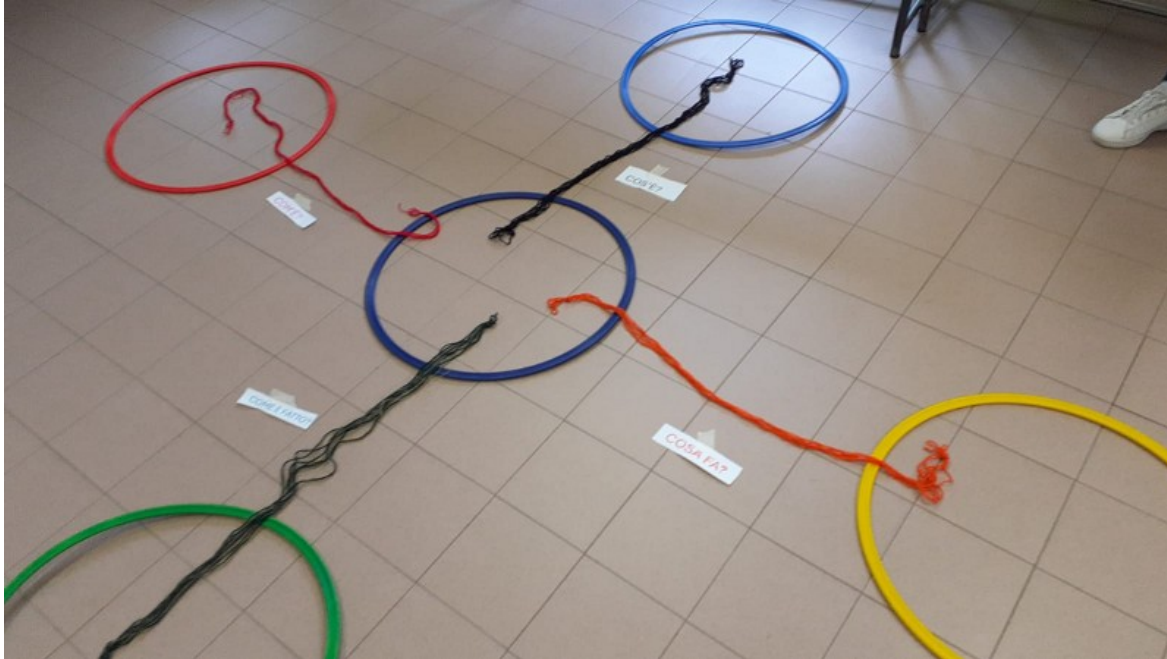


ILC facet categories

- 0 as for perspective
- 1 at time
- 2 in place
- 3 by agent
- 4 opposed to
- 5 undergoing change
- 6 having property
- 7 with part
- 8 in quantity
- 9 of quality



Playing semantic networks



First experiments at Primary School of Buttigliera d'Asti

Playing semantic networks



Thanks = grazie = obrigados

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