

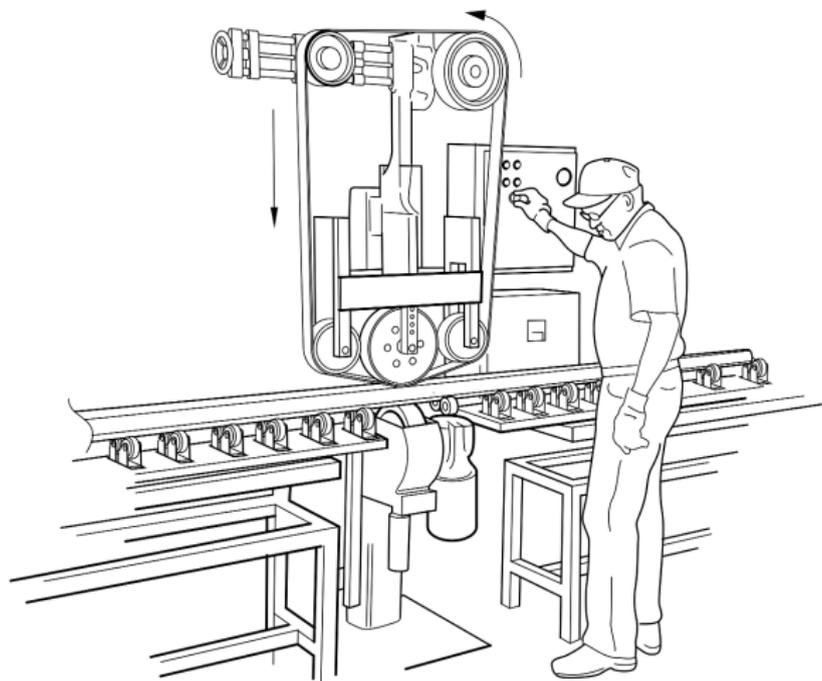
Le raisonnement analogique en lexicographie, son informatisation et son application au Réseau Lexical du Français

Sandrine Ollinger

15 décembre 2014



Contexte



Contexte



Contexte



Contexte

The screenshot shows the MvsDicet application window. The title bar reads "MvsDicet". The menu bar includes "Fichier", "Edition", "Nomenclature", "Carac. gramm.", "Morphologie", "Définitions", "Fonctions lexicales", "Exemples", and "Fenêtres". The main window title is "hold-up (lecture seule) - RLF (ATILF) - sandoll dn_fr/mysql/relief.atilf.fr:3306".

On the left, a tree view shows a hierarchy: "hold-up" (selected), "hold-up I", and "hold-up II". Below this is a form for editing the selected word:

- Vocabulaire**
- Identifiant : 27827 Préfixe : [dropdown]
- Nom : hold-up
- Indice : [dropdown] Exposant : [dropdown]
- Probabilité : [slider] 100%
- Statut : [dropdown] "En cours de validé"
- Activité : [dropdown] "Rss" Destinataire : [dropdown] "spot"
- Commentaires : pour publi

The main area displays a semantic network diagram:

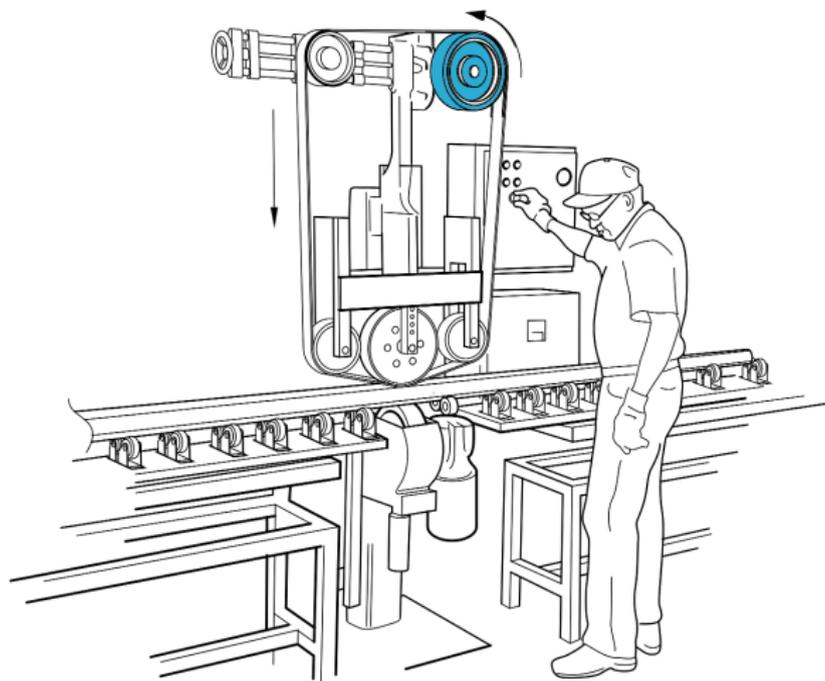
```
graph TD; A[hold-up I] -- "métaphore: comme si" --> B[hold-up II];
```

At the bottom, there are navigation buttons: [INF] [ICG] [IMO] [DF] [NB] [TR] [FL] [EX] [PH]. Below these is another form:

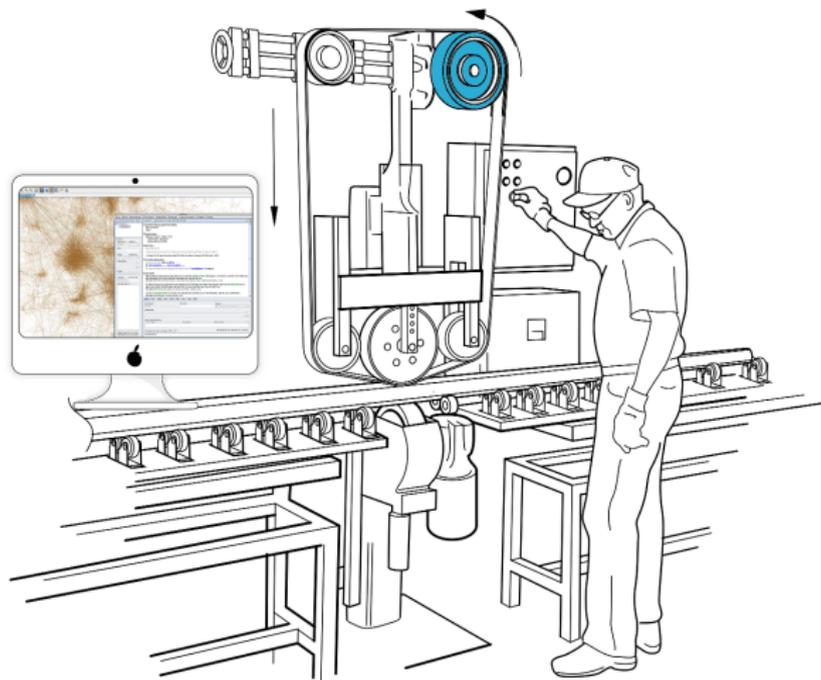
- Identifiant : [input] Numéro : [input] Statut : [dropdown]
- Probabilité : [slider] 100%
- Liens de polysémie : [table]
- Table with columns: ID, Lien, Acception, Description
- Commentaires : [text area]

Footer text: "Création par mvs le 16 ju..." and "Modification par apol le..."

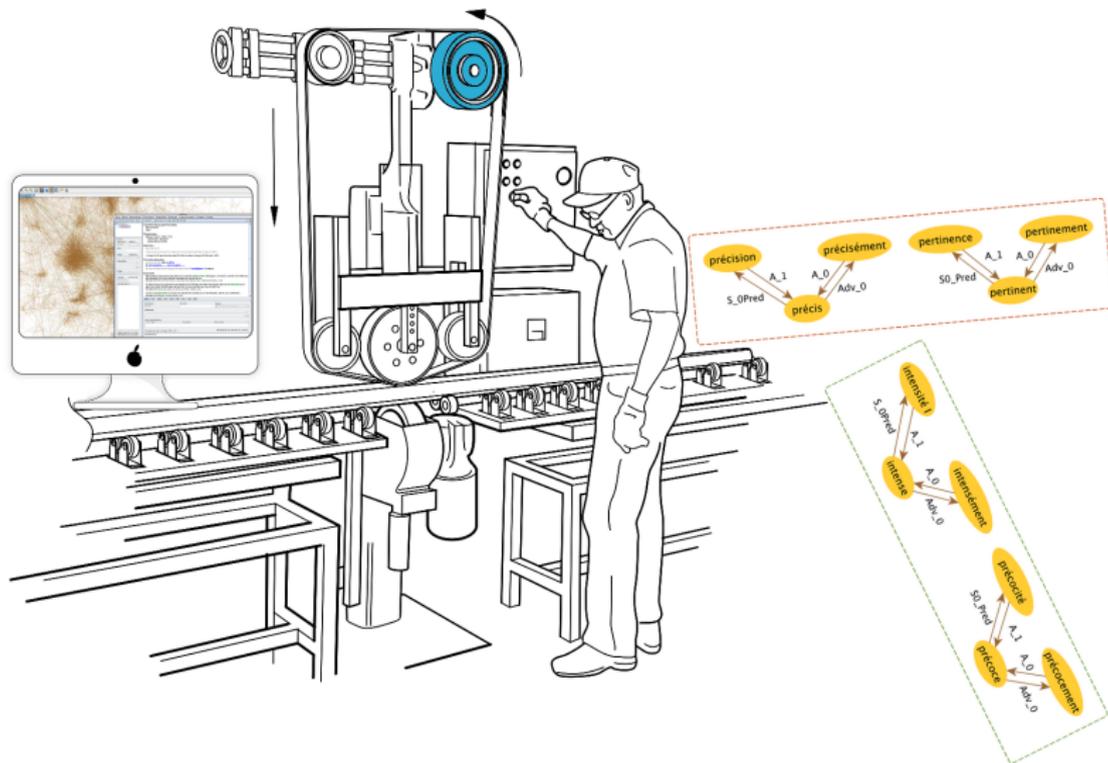
Contexte



Contexte



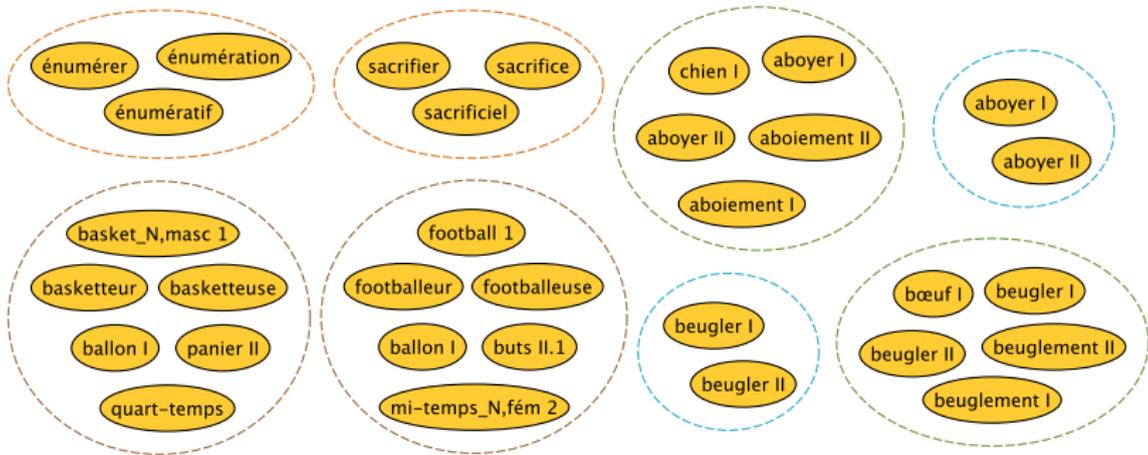
Contexte



Hypothèse

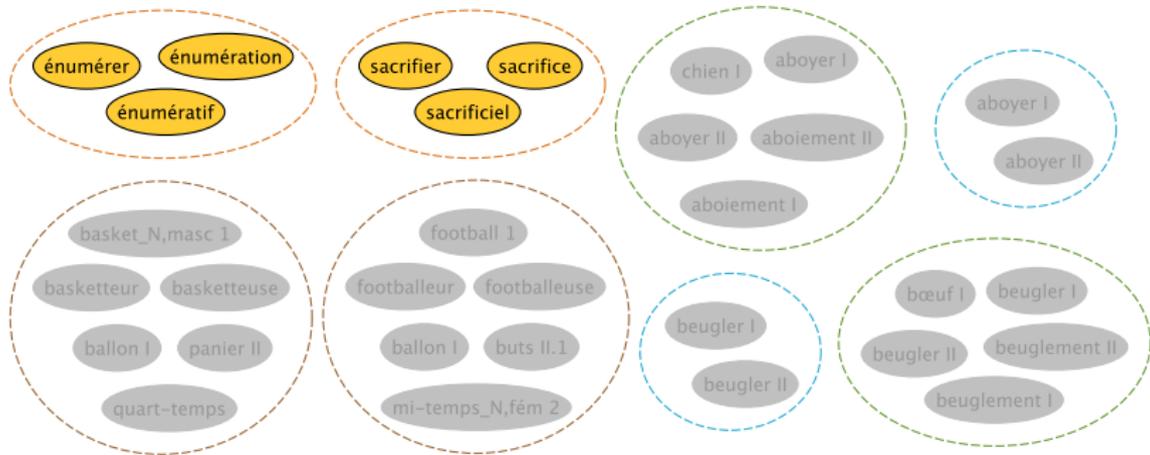
Hypothèse

Le lexique d'une langue regorge de sous-ensembles **analogues**.



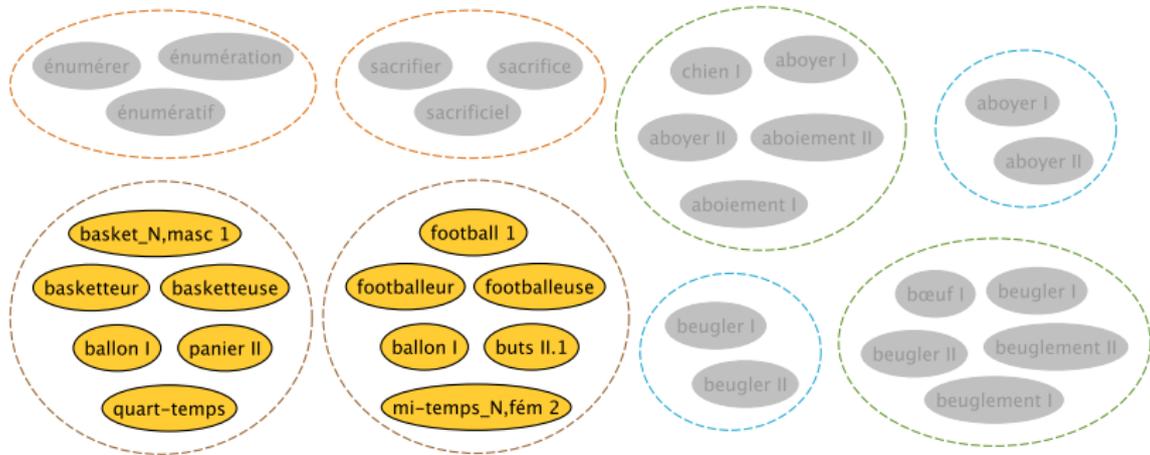
Hypothèse

Le lexique d'une langue regorge de sous-ensembles **analogues**.



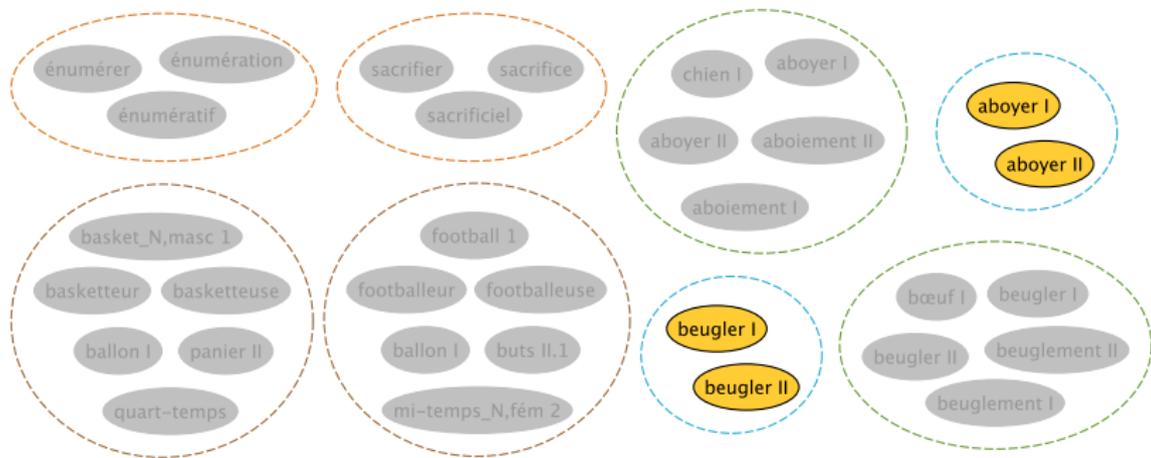
Hypothèse

Le lexique d'une langue regorge de sous-ensembles **analogues**.



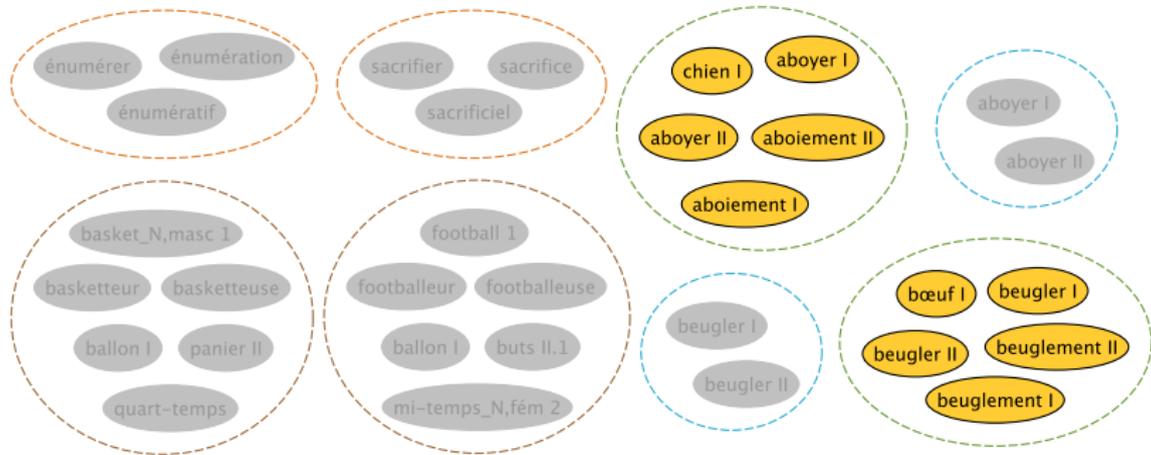
Hypothèse

Le lexique d'une langue regorge de sous-ensembles **analogues**.



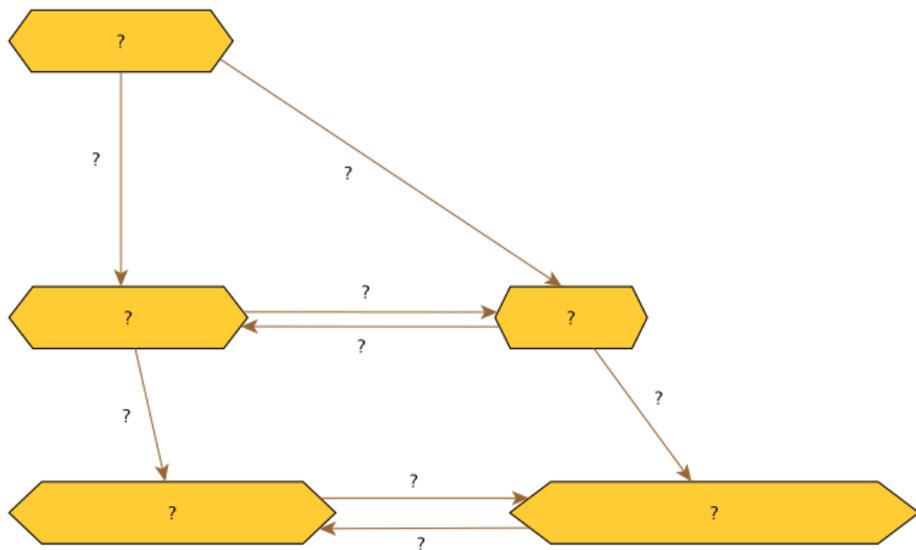
Hypothèse

Le lexique d'une langue regorge de sous-ensembles **analogues**.

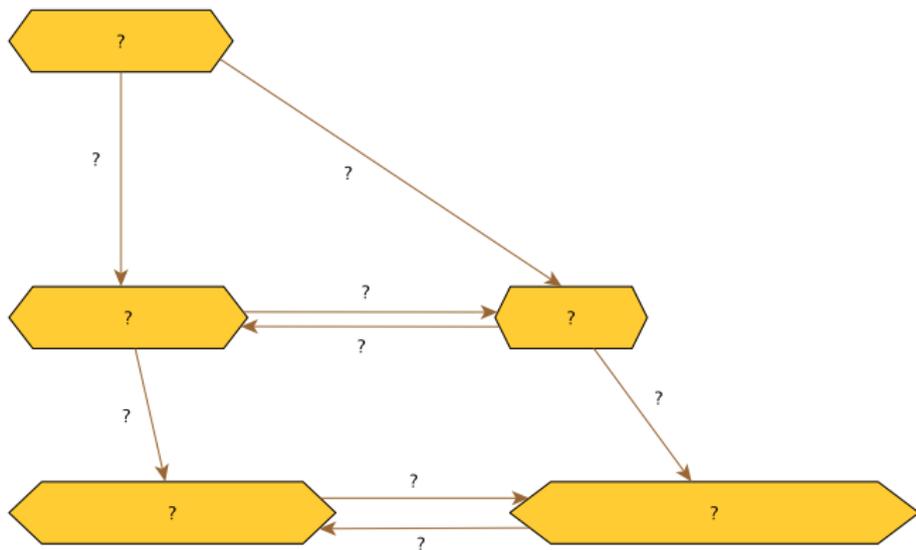


Configurations de dérivations lexicales

Configurations de dérivation lexicales

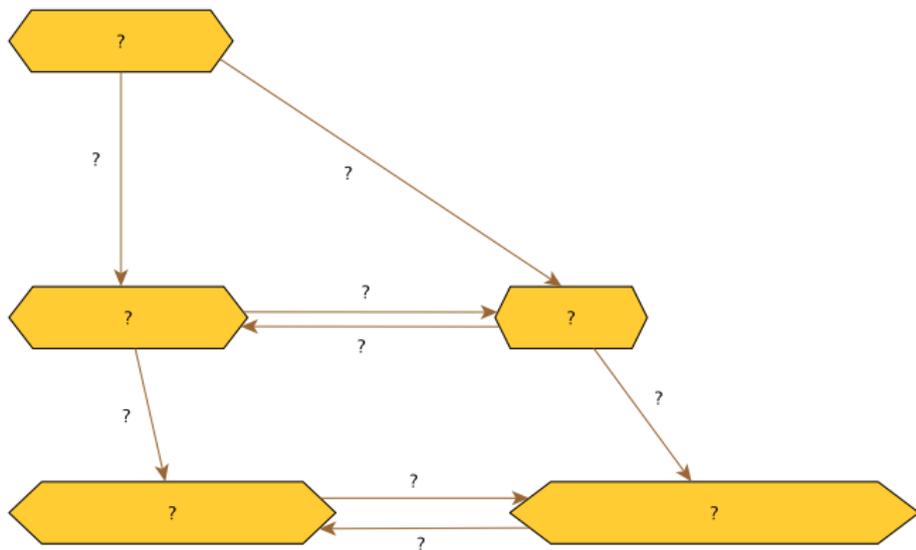


Configurations de dérivations lexicales



Lexicographie

Configurations de dérivations lexicales



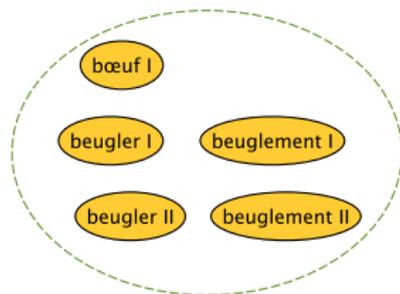
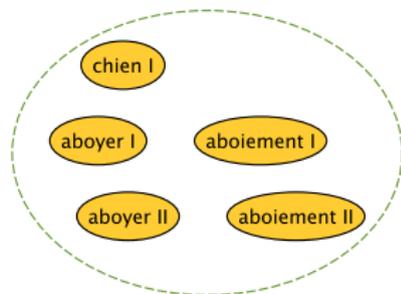
Lexicographie

Lexicologie

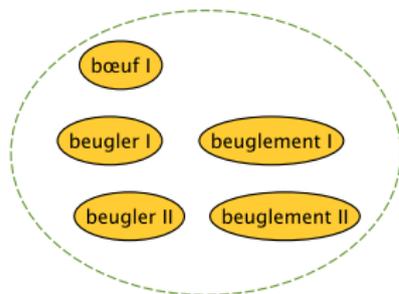
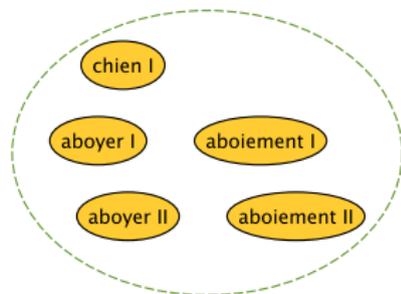
Analogues ?

Appariement structurel (Gentner 1983)

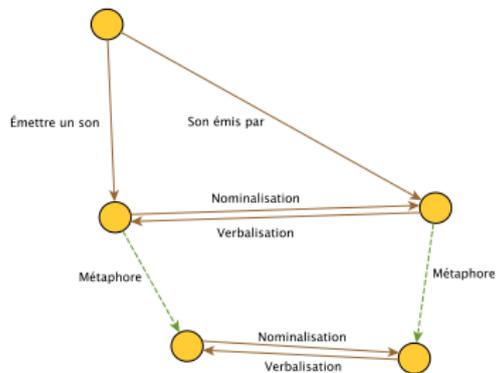
Appariement structurel (Gentner 1983)



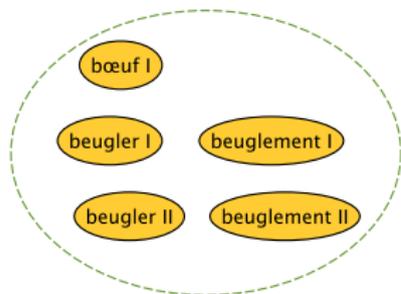
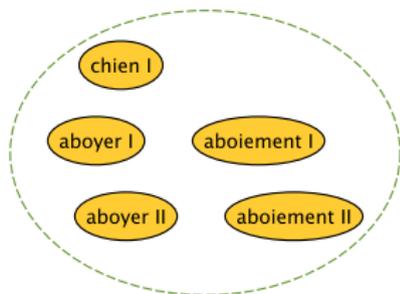
Appariement structurel (Gentner 1983)



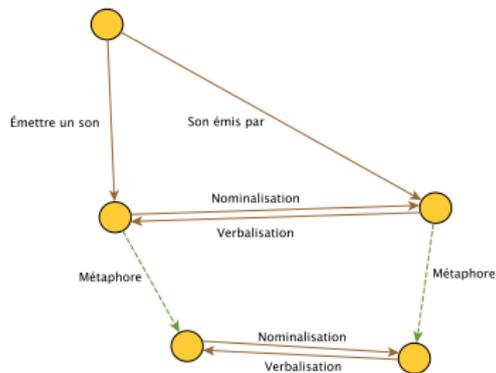
Relations



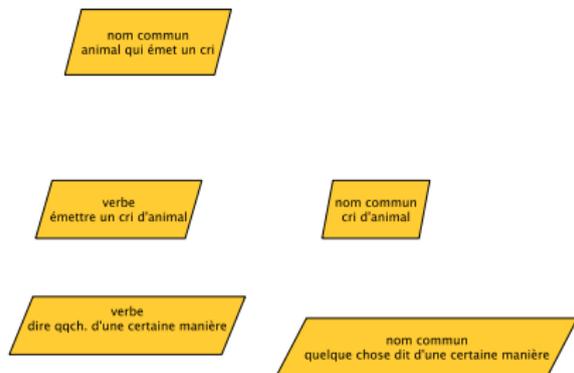
Appariement structurel (Gentner 1983)



Relations

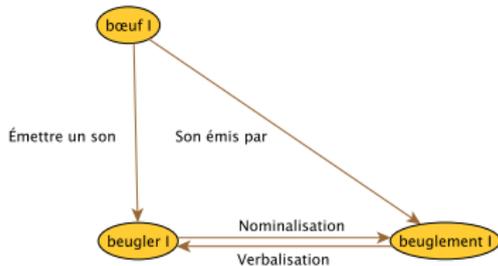
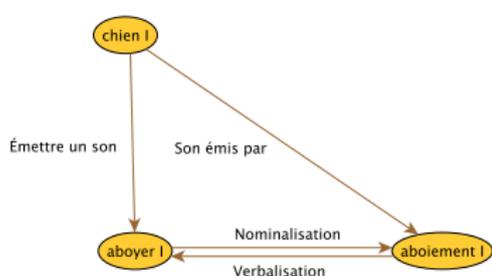


Attributs

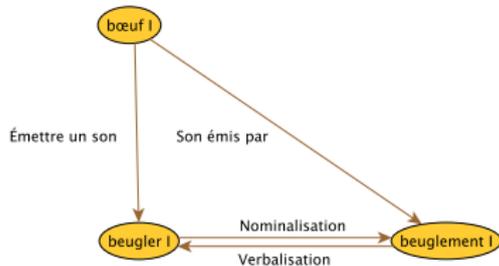
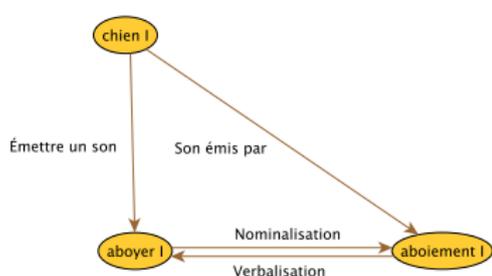


Combinaison de proportions (Turney 2008)

Combinaison de proportions (Turney 2008)

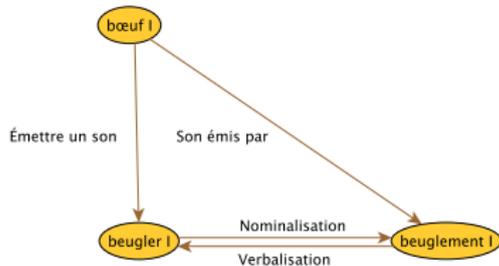
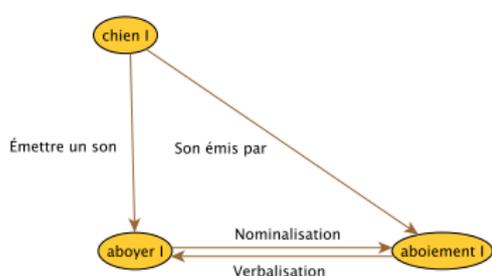


Combinaison de proportions (Turney 2008)



aboyer I est à chien I ce que beugler I est à bœuf I

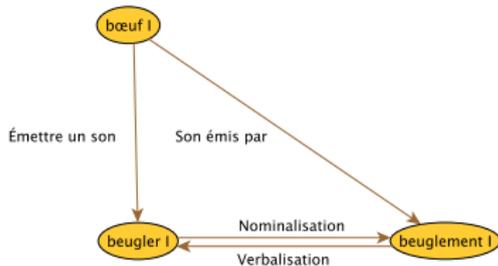
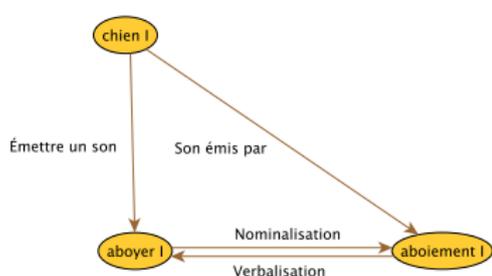
Combinaison de proportions (Turney 2008)



aboyer I est à **chien I** ce que **beugler I** est à **bœuf I**

abolement I est à **chien I** ce que **beuglement I** est à **bœuf I**

Combinaison de proportions (Turney 2008)

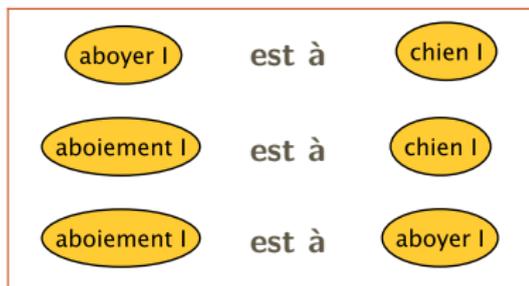
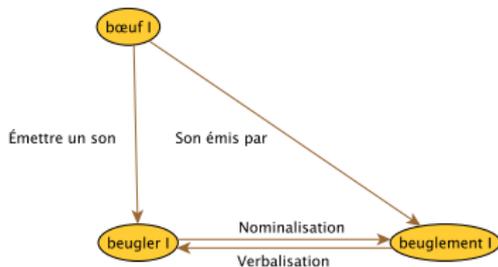
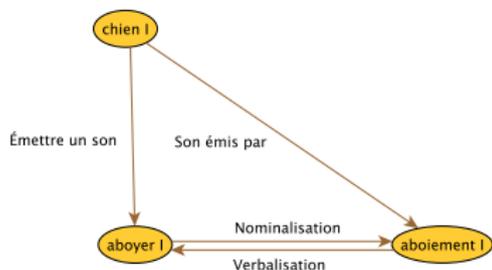


aboyer I est à chien I ce que beugler I est à bœuf I

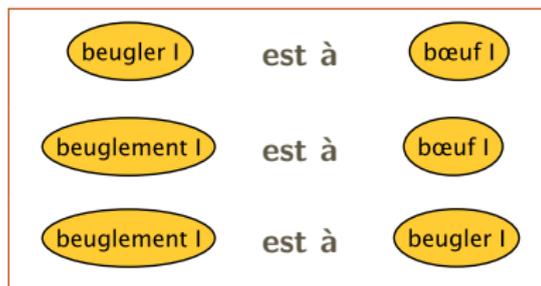
abolement I est à chien I ce que beuglement I est à bœuf I

abolement I est à aboyer I ce que beuglement I est à beugler I

Combinaison de proportions (Turney 2008)



ce que

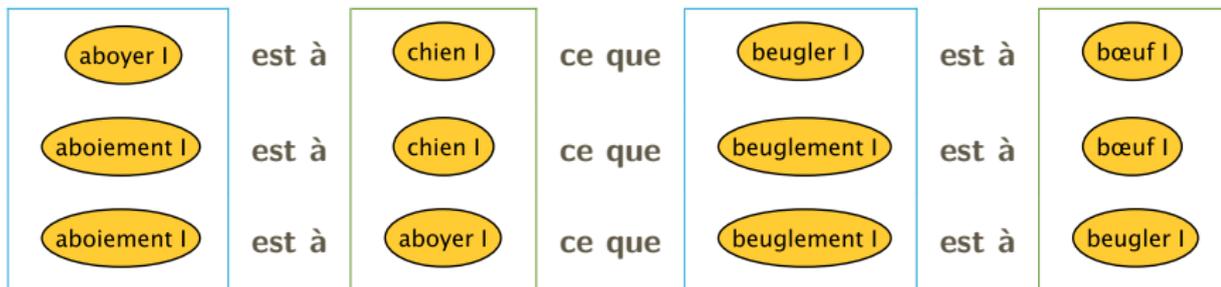
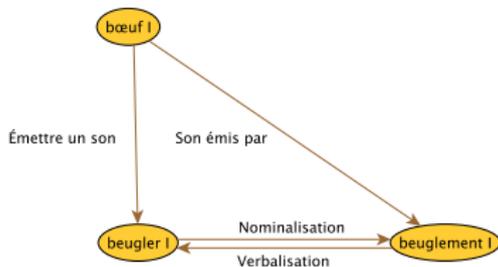
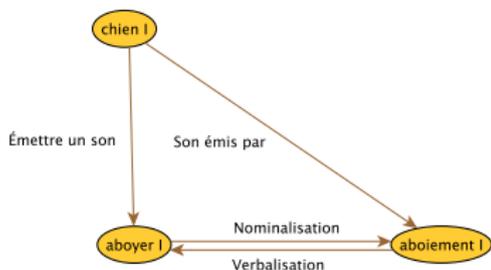


ce que

ce que

Similarité de Relations complète.

Combinaison de proportions (Turney 2008)



Similarités d'Attributs partielles.

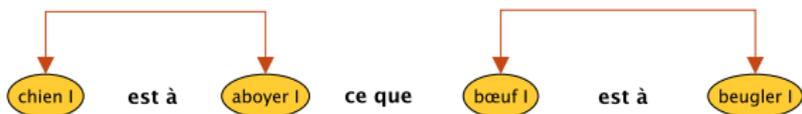
Analogies équivalentes (Lepage 2003)

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aboyer I est à chien I ce que beugler I est à bœuf I

Analogies équivalentes (Lepage 2003)

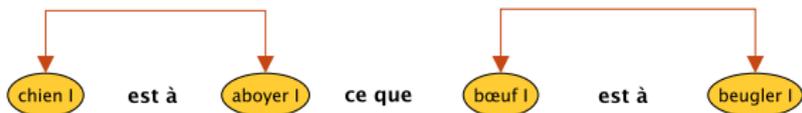
aboyer | est à | chien | ce que | beugler | est à | bœuf |



par inversion des rapports

Analogies équivalentes (Lepage 2003)

aboyer | est à | chien | ce que | beugler | est à | bœuf |



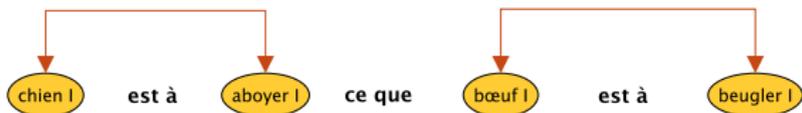
par inversion des rapports



par symétrie de la conformité

Analogies équivalentes (Lepage 2003)

aboyer | est à | chien | ce que | beugler | est à | bœuf |



par inversion des rapports

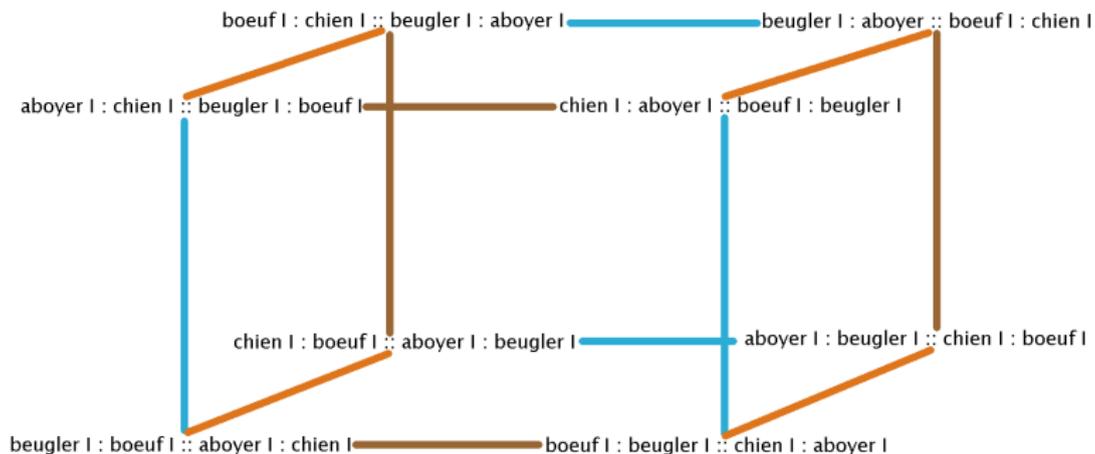


par symétrie de la conformité

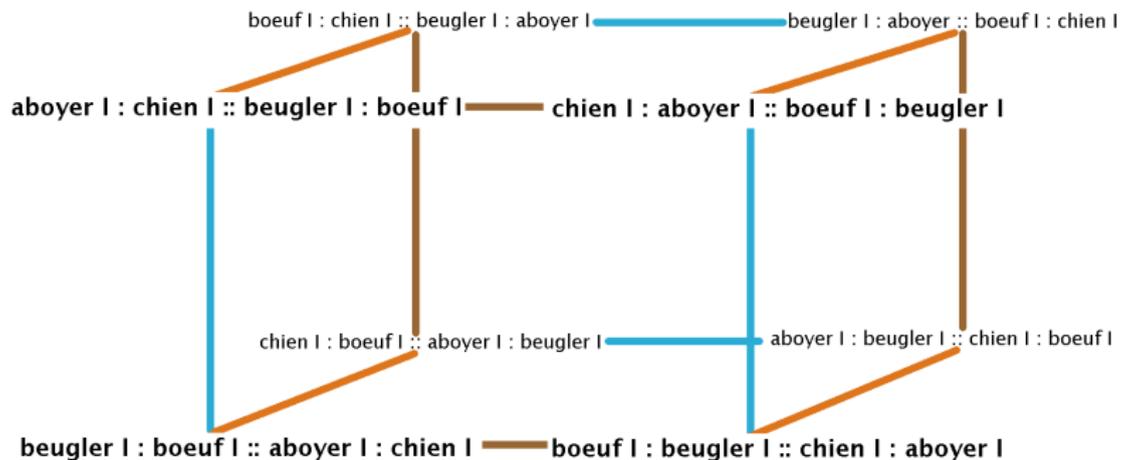


par permutation des extrêmes

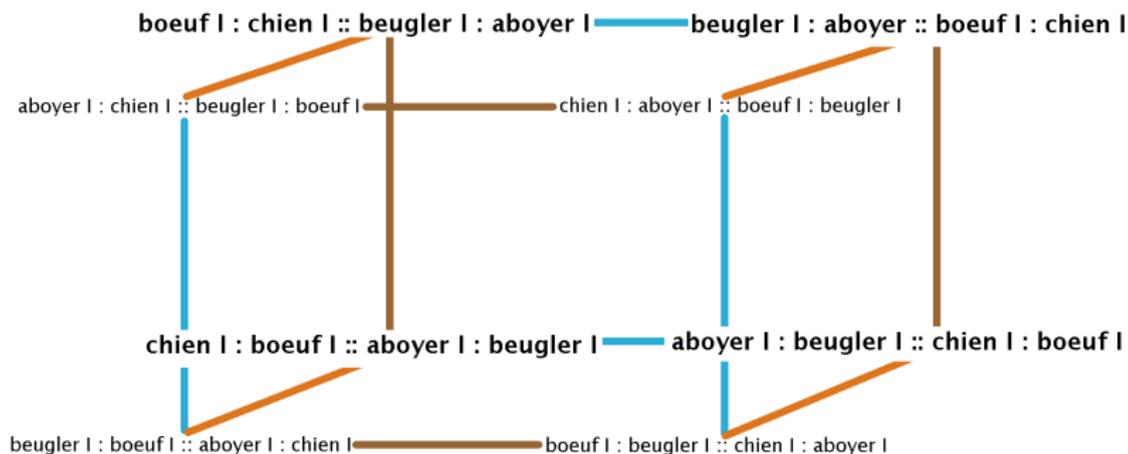
Cube analogies équivalentes



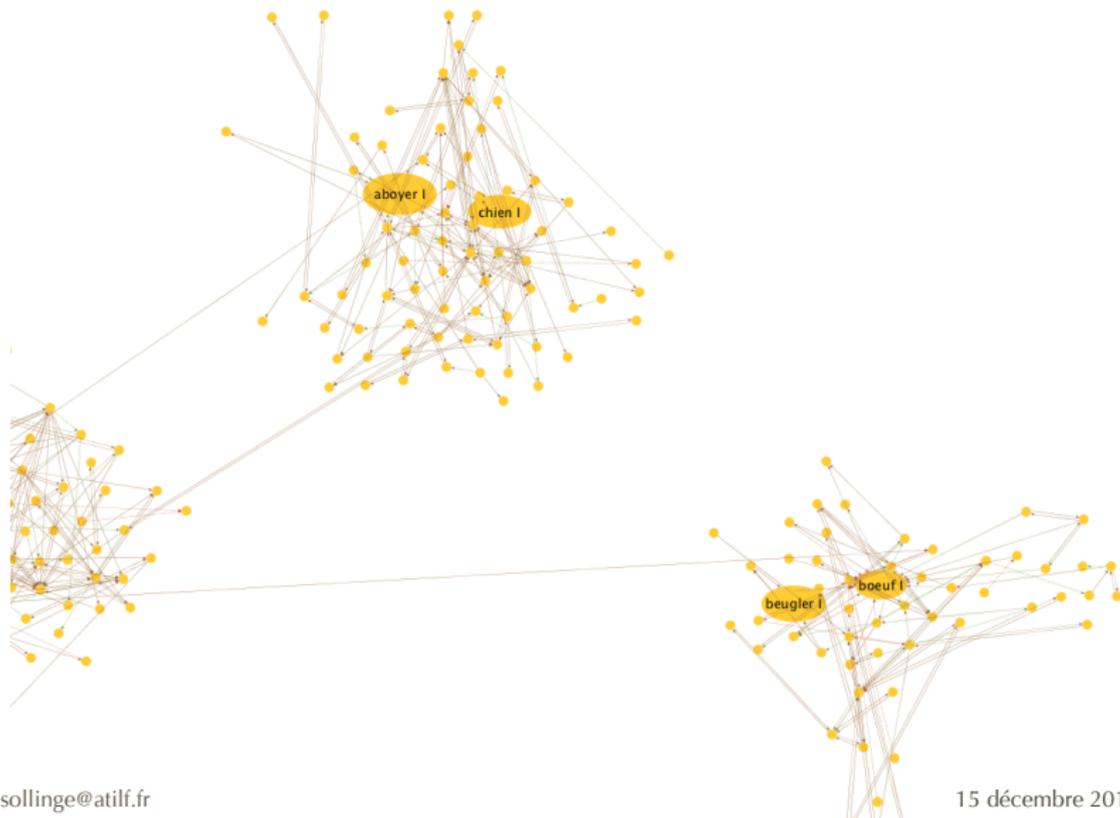
Cube analogies équivalentes



Cube analogies équivalentes



Dimension topologique



RL-fr



RL-fr



- Ressource purement lexicale

RL-fr



- Ressource purement lexicale
- Graphe lexical

RL-fr

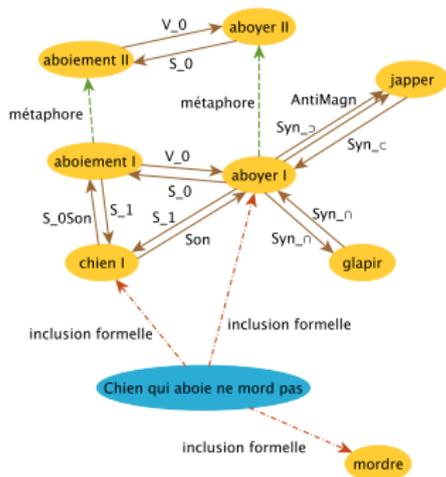


- Ressource purement lexicale
- Graphe lexical
- Granularité fine
- Grande modularité

Relations et Attributs dans le RL-fr

Relations et Attributs dans le RL-fr

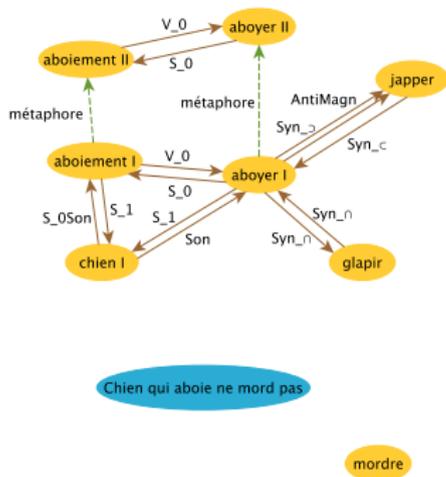
Relations



Sélection

Sélection

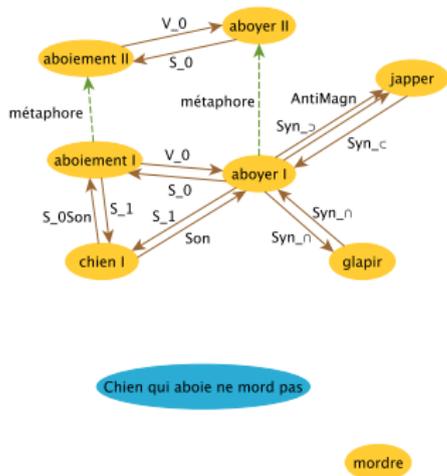
Relations



Sélection

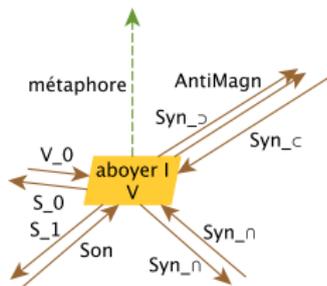
Relations

Attributs



Sélection

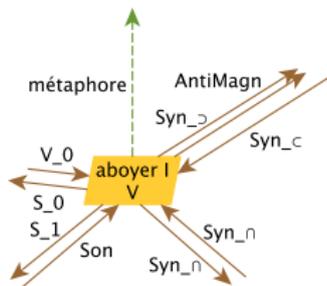
Attributs



- Partie du discours

Sélection

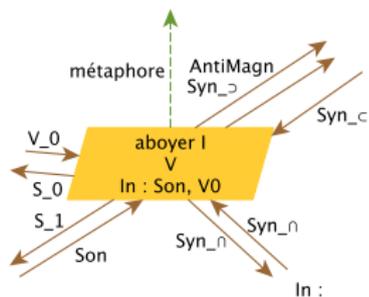
Attributs



- Partie du discours
- Grands types de Relations

Sélection

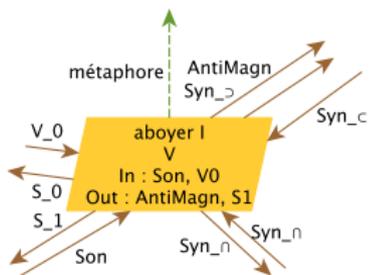
Attributs



- Partie du discours
- Grands types de Relations
 - liens entrants

Sélection

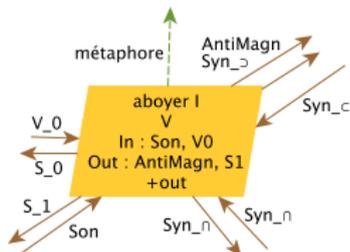
Attributs



- Partie du discours
- Grands types de Relations
 - liens entrants
 - liens sortants

Sélection

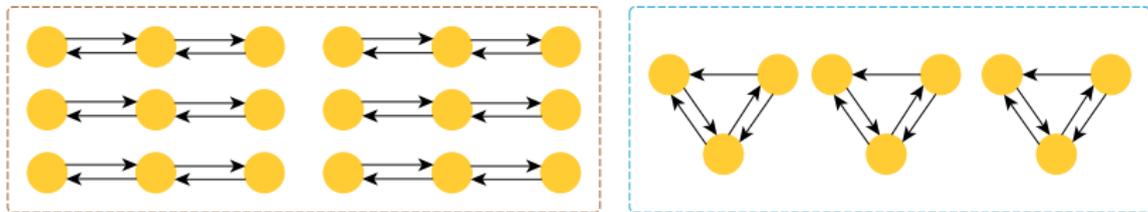
Attributs



- Partie du discours
- Grands types de Relations
 - liens entrants
 - liens sortants
- Indice de grammaticalité

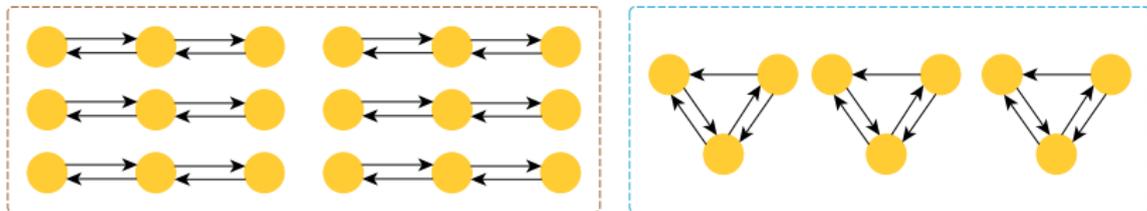
Exploration

Exploration

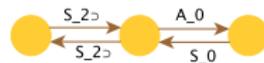
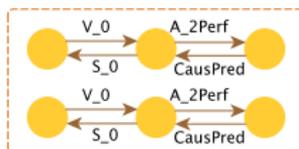
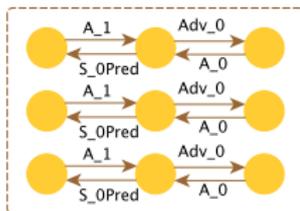


Identification de sous-graphes isomorphes

Exploration

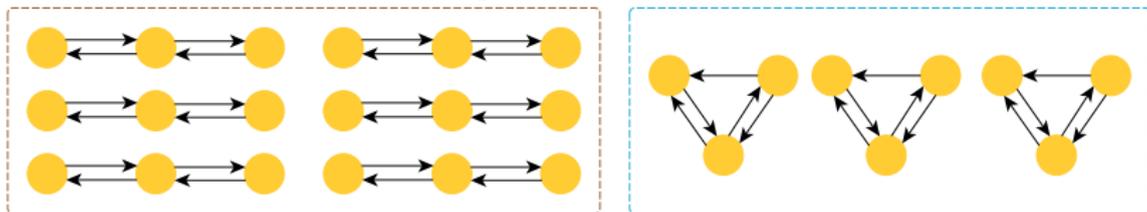


Identification de sous-graphes isomorphes

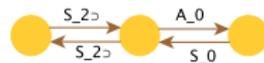
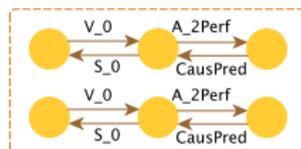
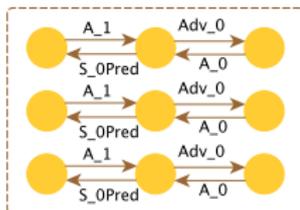


Similarité de Relations

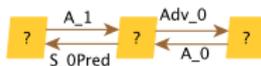
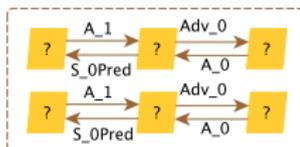
Exploration



Identification de sous-graphes isomorphes

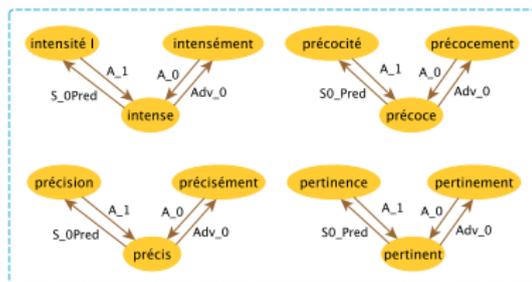


Similarité de Relations

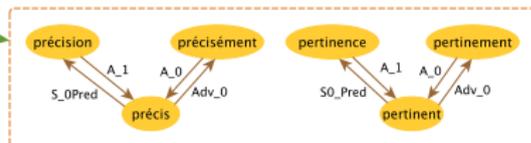
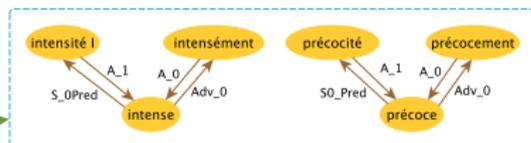


Similarité d'Attributs

Exemple

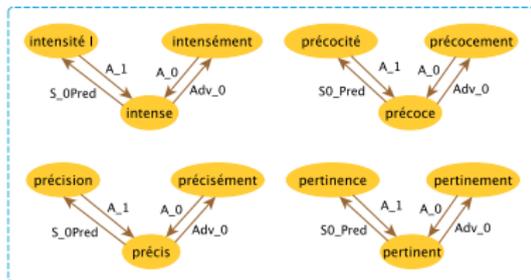


Similarité de relations complète

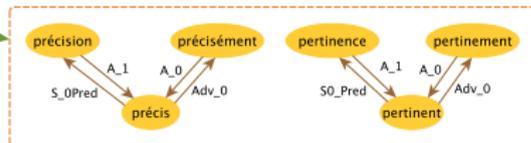
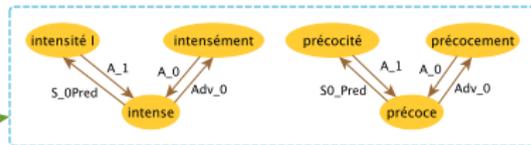


$\text{Sim}_a(\text{intensité I}, \text{précocité}) = 1 \dots$

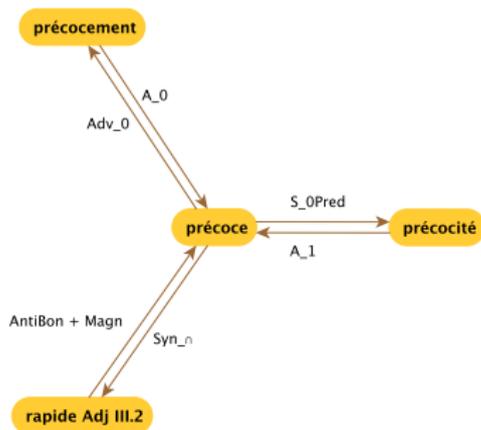
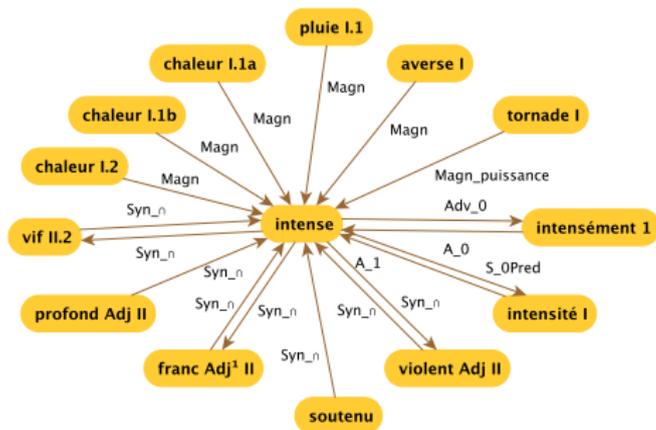
Exemple



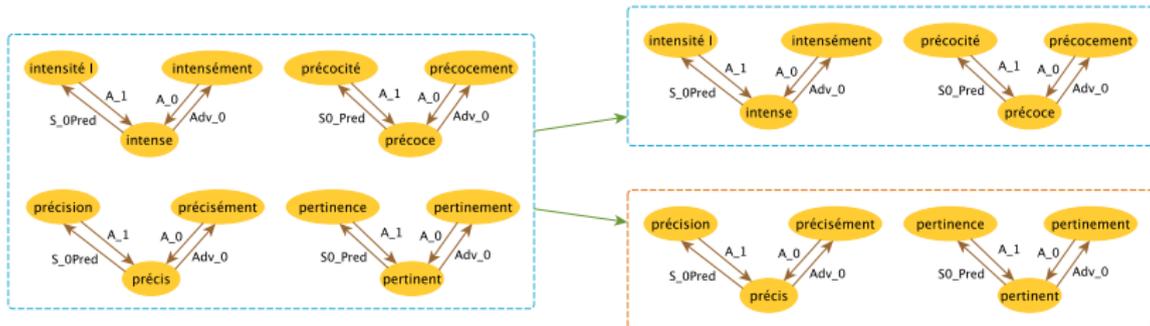
Similarité de relations complète



Sim_a(intensité I,précocité) = 1 ...

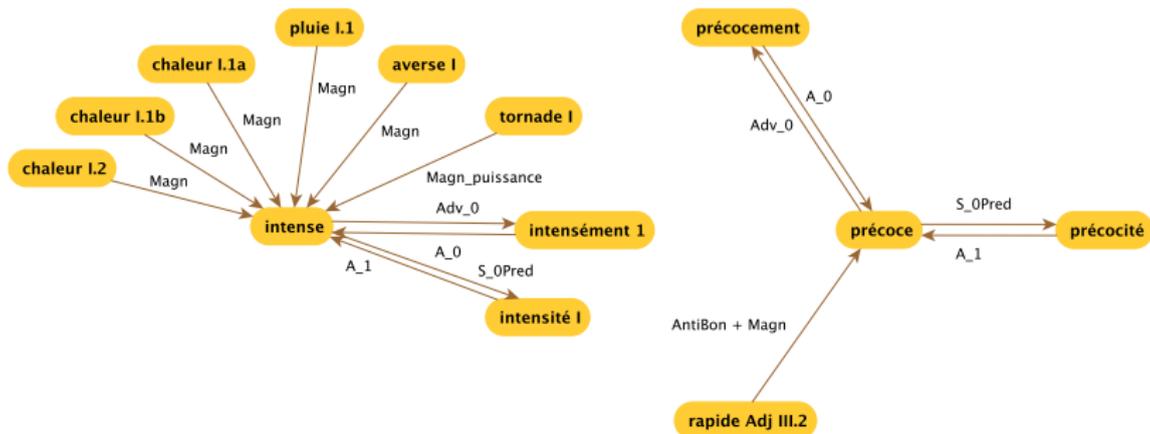


Exemple

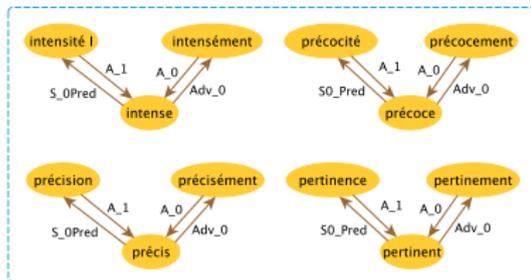


Similitude de relations complète

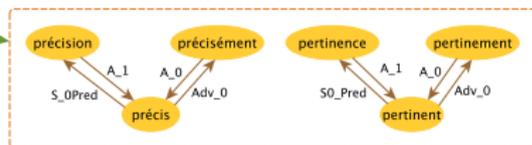
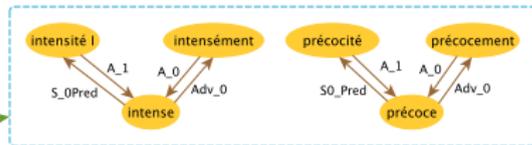
Sim_a(intensité I, précocité) = 1 ...



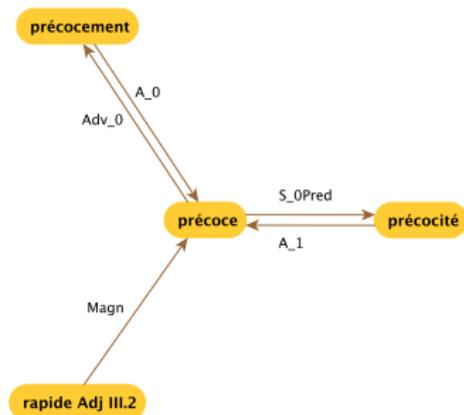
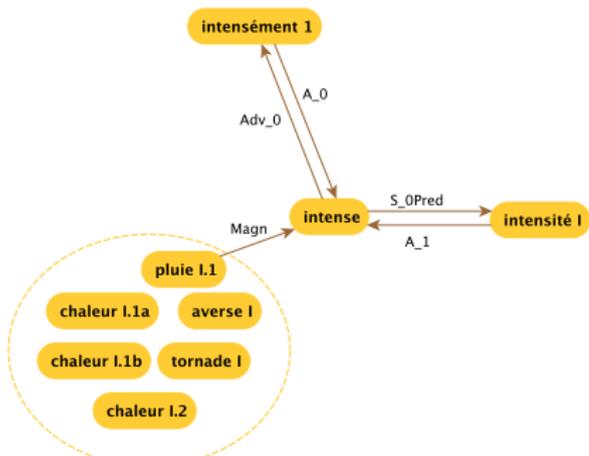
Exemple



Similarité de relations complète



$Sim_a(intensité\ I, précocité) = 1 \dots$



Limites

Limites

- Ressource en cours de développement

Limites

- Ressource en cours de développement
- Obsolescence

Limites

- Ressource en cours de développement
- Obsolescence
- Phénomènes linguistiques ?

Résultats

Résultats

- Sous-graphes analogues

Résultats

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- Attributs pertinents

Résultats

- Sous-graphes analogues
- Attributs pertinents
 - Exclure

Résultats

- Sous-graphes analogues
- Attributs pertinents
 - Exclure
 - Affiner

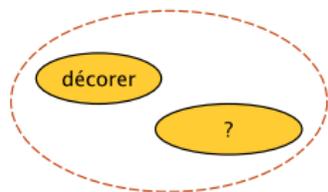
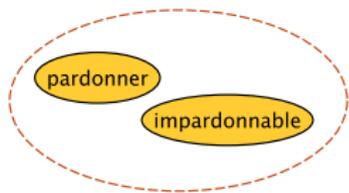
Résultats

- Sous-graphes analogues
- Attributs pertinents
 - Exclure
 - Affiner
- Abstraction de configurations de dérivations lexicales

Perspectives

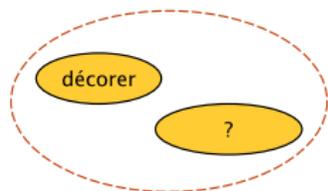
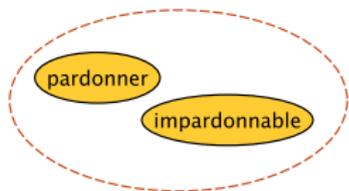
Perspectives

Néologie formelle

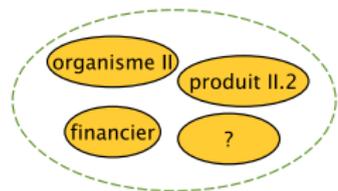
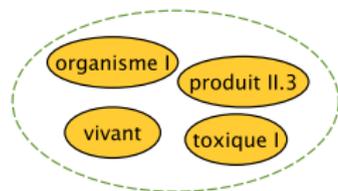


Perspectives

Néologie formelle

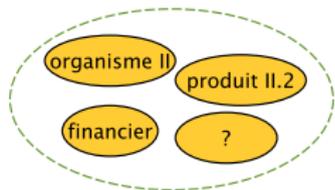
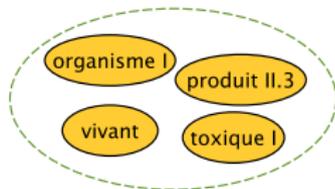


Néologie sémantique



Néologie sémantique

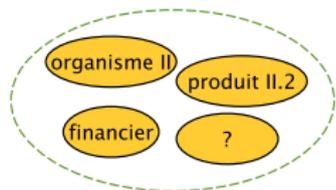
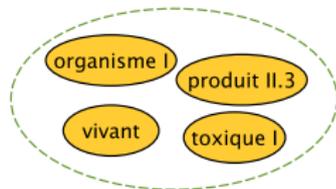
Néologie sémantique



Néologie sémantique

- Qualification des néologismes

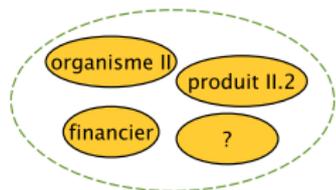
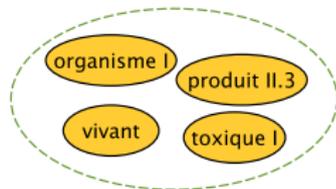
Néologie sémantique



Néologie sémantique

- Qualification des néologismes
 - Copolysémie

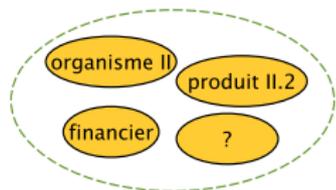
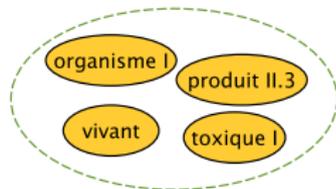
Néologie sémantique



Néologie sémantique

- Qualification des néologismes
 - Copolysémie
 - Inclusion sémantique

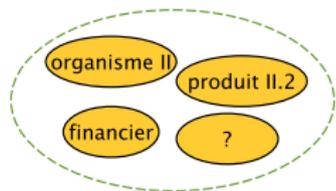
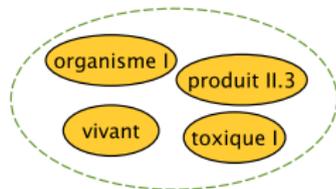
Néologie sémantique



Néologie sémantique

- Qualification des néologismes
 - Copolysémie
 - Inclusion sémantique
- Impact topologique

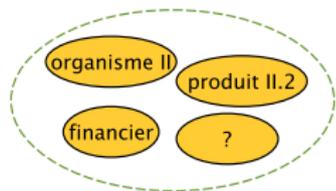
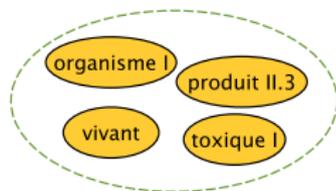
Néologie sémantique



Néologie sémantique

- Qualification des néologismes
 - Copolysémie
 - Inclusion sémantique
- Impact topologique
 - Microstructure

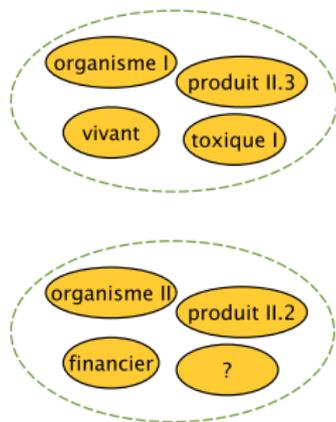
Néologie sémantique



Néologie sémantique

- Qualification des néologismes
 - Copolysémie
 - Inclusion sémantique
- Impact topologique
 - Microstructure
 - Macrostructure

Néologie sémantique



Merci

