Does pain hurt in both French and English?

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_ecture ↔ Lecture False Friends Physicien ↔ Physician False Friends

False Friends (Faux Amis) = pairs of words in two languages that are perceived as similar but have different meaning.

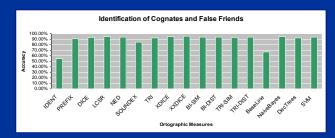
Éducation ↔ **Education** Cognates **Exposition** ↔ **Exhibition** Cognates

Cognates or True Friends (Vrais Amis) = pairs of words that are perceived as similar and are mutual translations. The spelling can be identical or not.

Importance – Second Language Learning, Machine Translation, Cross-Language Information Retrieval

Task1: Identify Cognates and False Friends between French and English

Method: Use Machine Learning techniques, a set of 12 orthographic similarity measures, a list of pairs of words in French and English, and a bilingual dictionary



Task2: Create complete lists of Cognates and False Friends

Use pairs of words from a French-English bilingual dictionary 55% Cognates; 2% False Friends
Create pairs of words from two monolingual word lists 0.03% Cognates; 32% False Friends

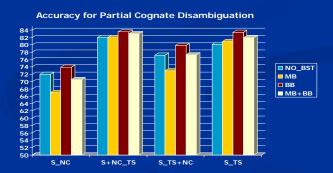
Note ↔ Note Cognates/False Friends
Facteur ↔ Factor Cognates/False Friends

Le comité prend note de cette information. The Committee takes note of this reply.

Ce sont toujours les consommateurs qui paient la **note**. Consumers are always the ones paying the **bill**.

Task: Determine the sense/meaning of a Partial Cognate in a French context (Cognate or False Friend with the equivalent English word)

Method: Supervised Machine Learning techniques and two Semi-Supervised techniques based on Bootstrapping



Practical Application – Computer Assisted Language Learning Tool

