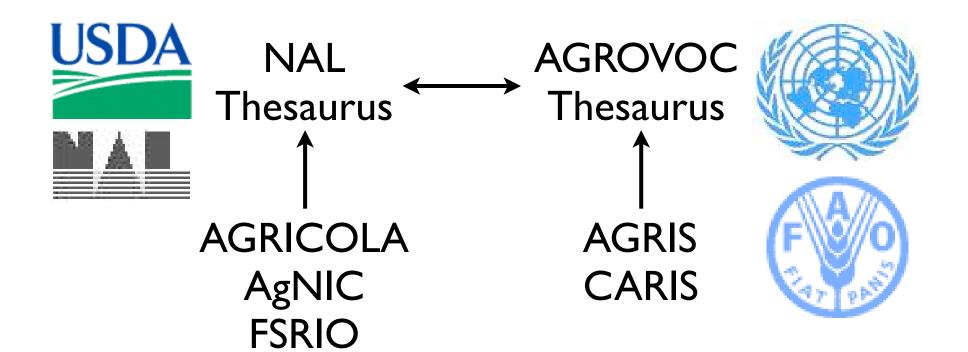
OAEI 2006 - food task

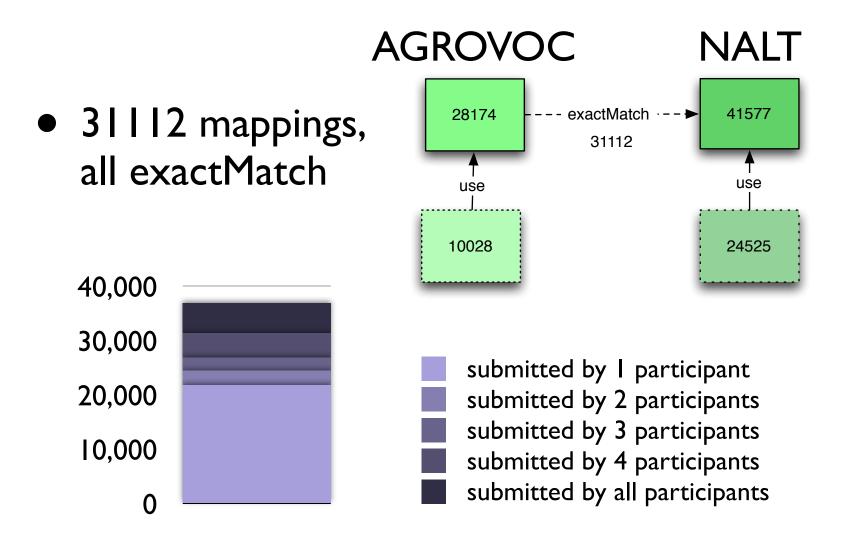
Willem Robert van Hage

Free University Amsterdam and TNO Science & Industry

NALT & AGROVOC



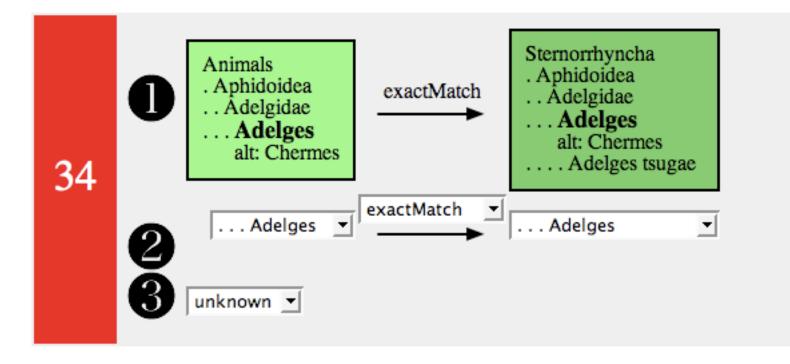
some numbers



sample evaluation of precision

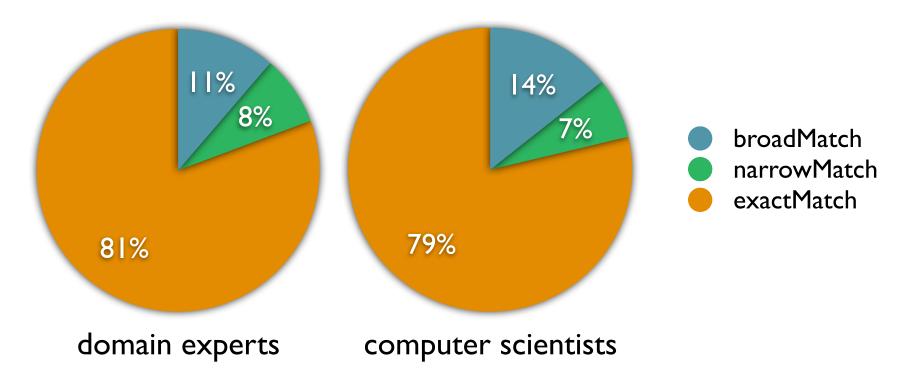
- domain experts evaluated 7% of the mappings
- these were chosen in such a way that
 - all participants were equally represented
 - all levels of consensus amongst the participants were equally represented
 - different topics were represented fairly
- evaluation repeated with computer scientists

sample evaluation of precision



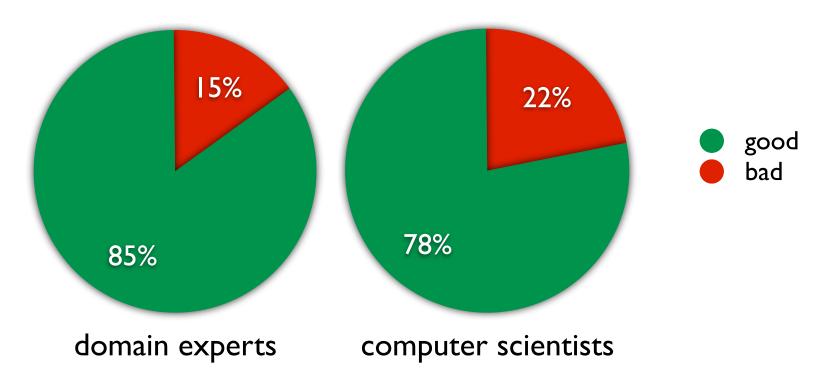
domain experts vs computer scientists

• 72% agreement between domain experts and computer scientists

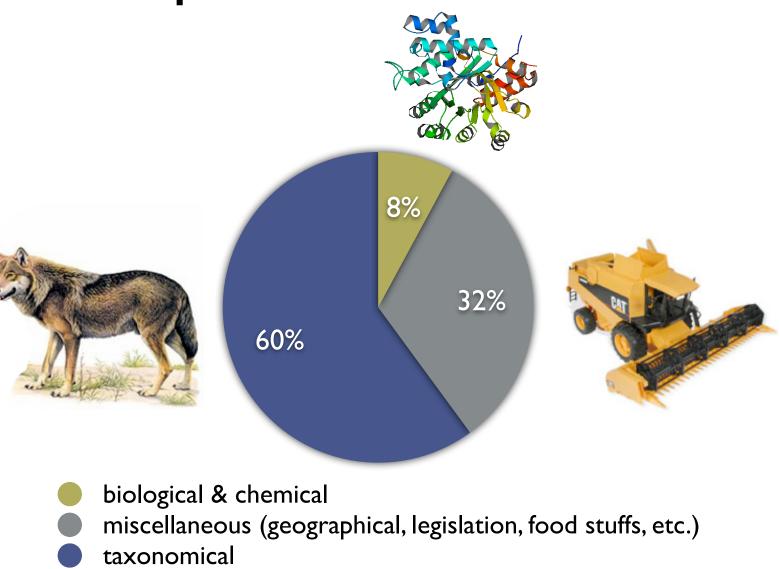


domain experts vs computer scientists

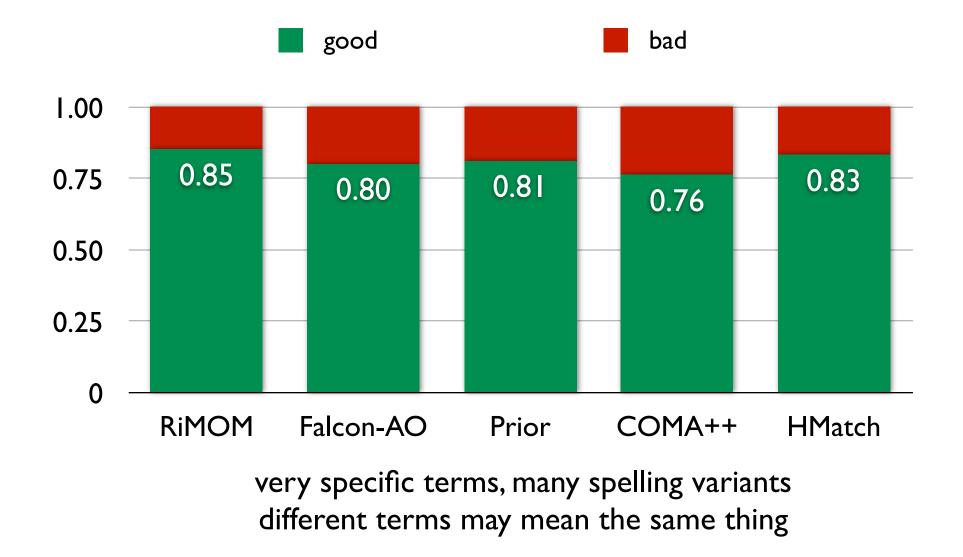
• 72% agreement between domain experts and computer scientists



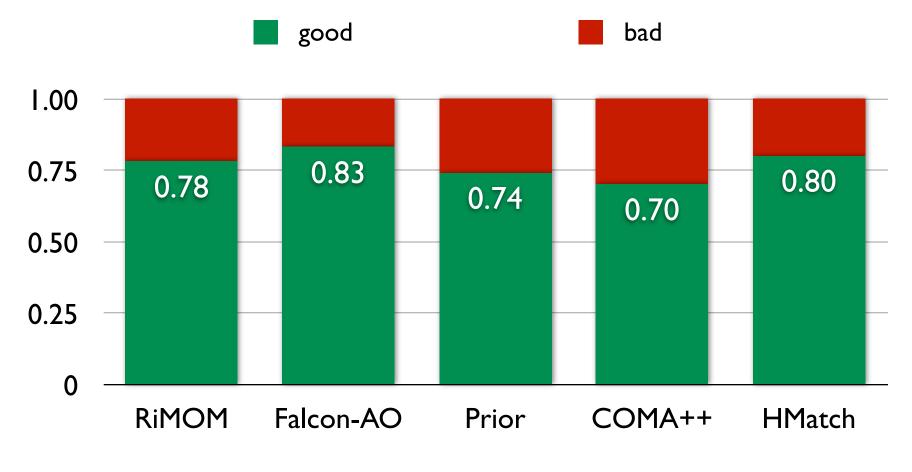
topics in the results



precision of biological & chemical mappings

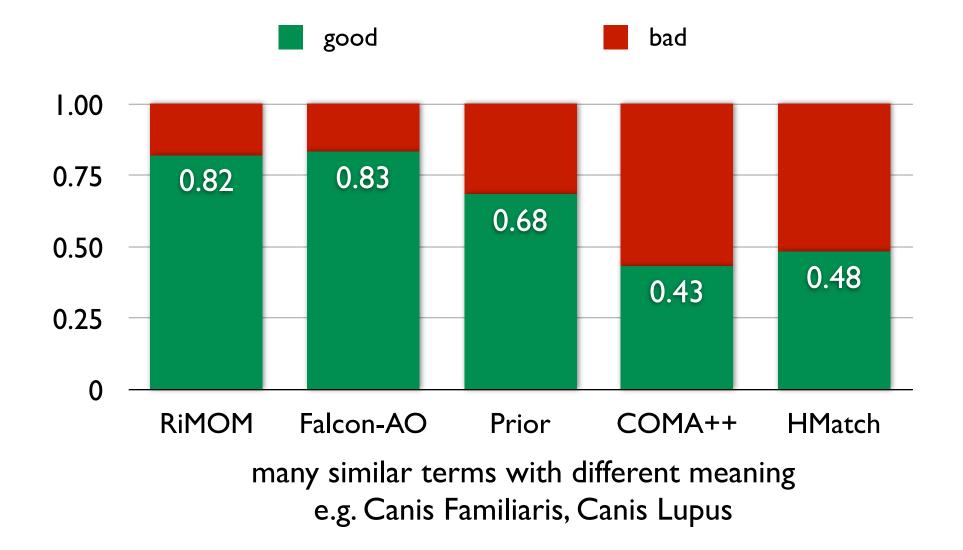


precision of miscellaneous mappings

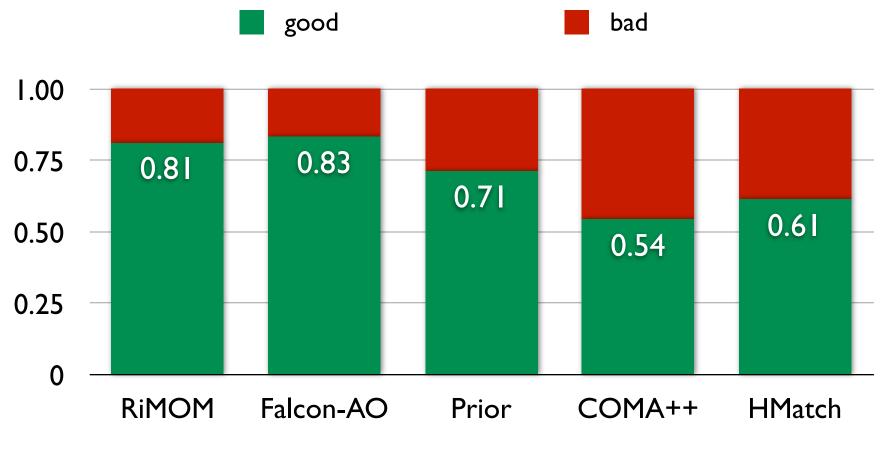


diverse topics, similar terms usually have similar meaning

precision of taxonomical mappings



overall precision

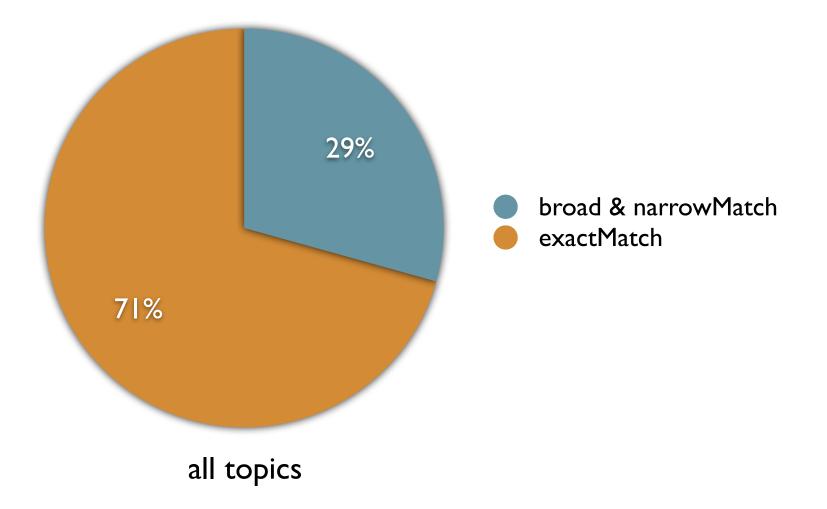


taxonomy weighs the most

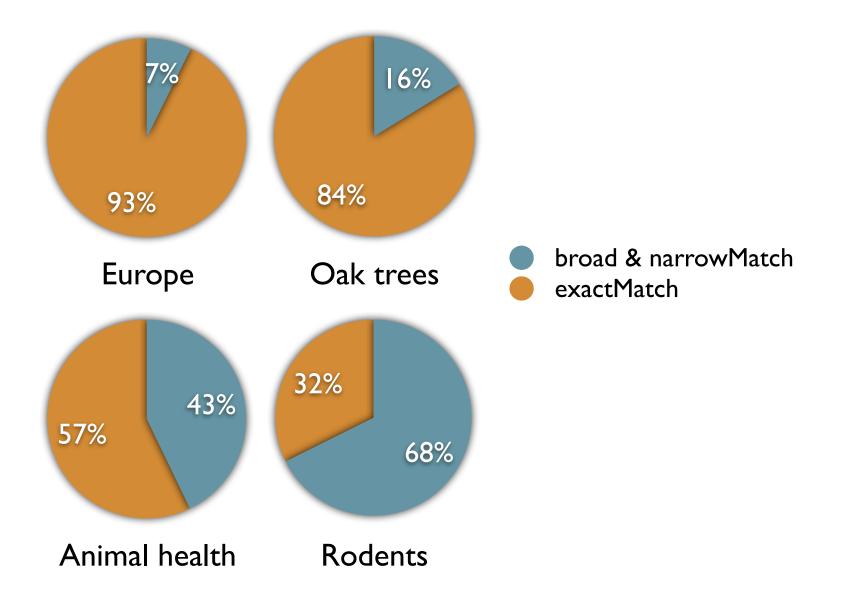
sample evaluation of recall

- evaluating a sample large enough to lead to significant results for recall was not feasible
- preliminary results are on 191 mappings in the miscellaneous and taxonomical domain
 - two sets from the miscellaneous domain: "animal health" and "geography of europe"
 - two sets from the taxonomical domain: "rodents" and "oak trees"

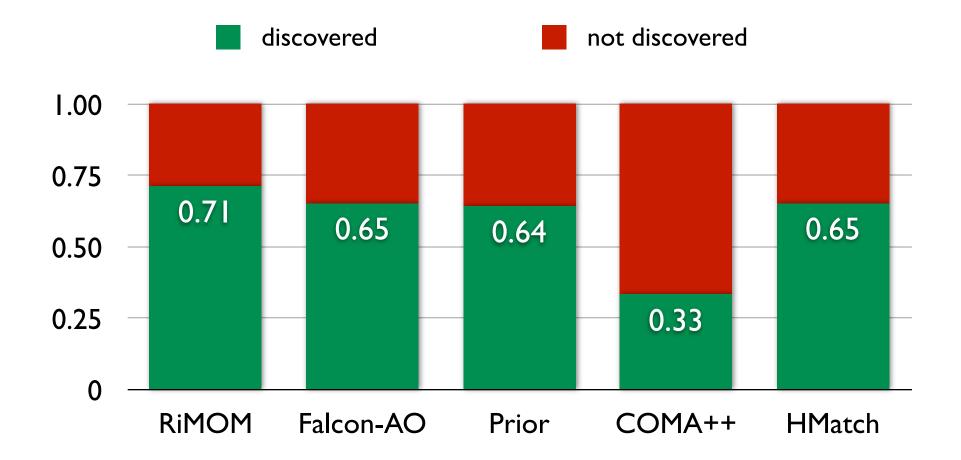
gold standard mapping relations



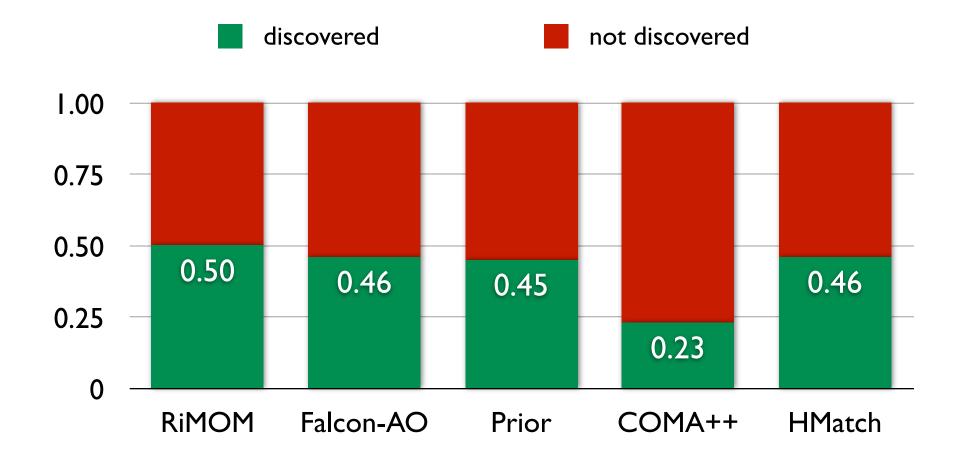
gold standard relations



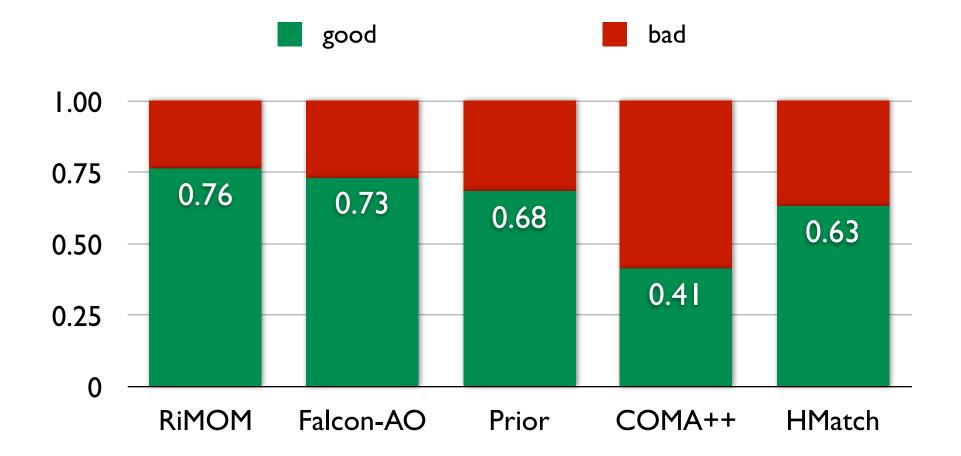
recall of only exactMatch mappings



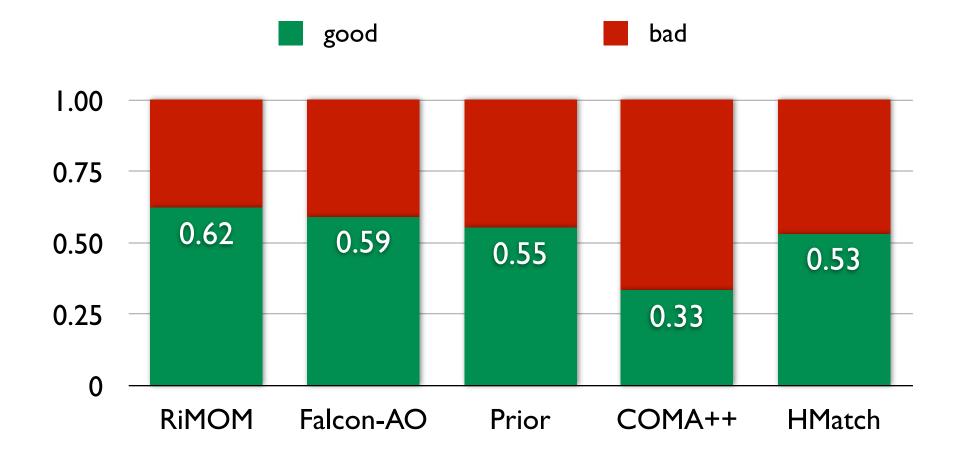
recall of exact, broad & narrowMatch

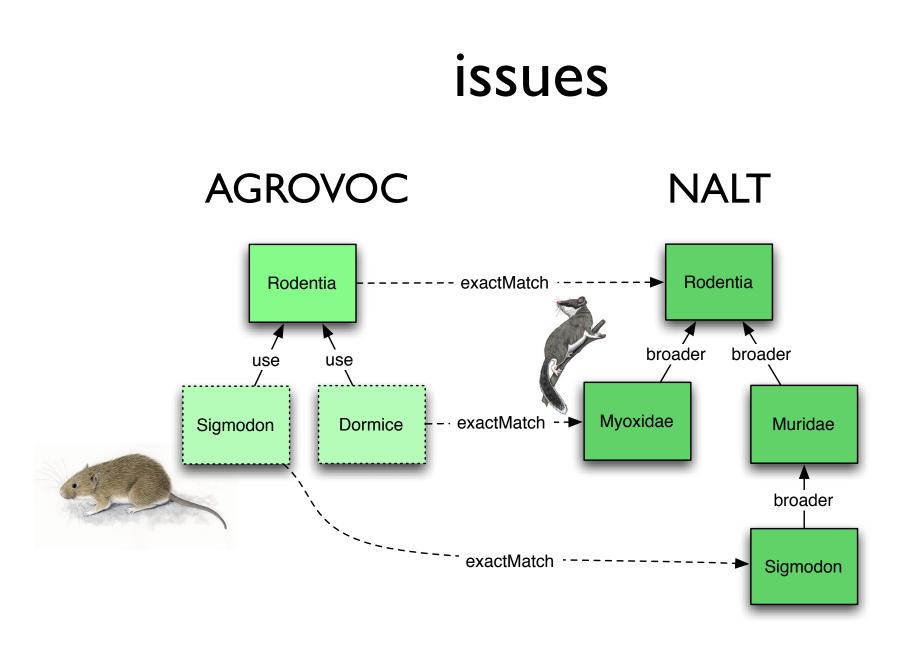


f-score of only exactMatch mappings

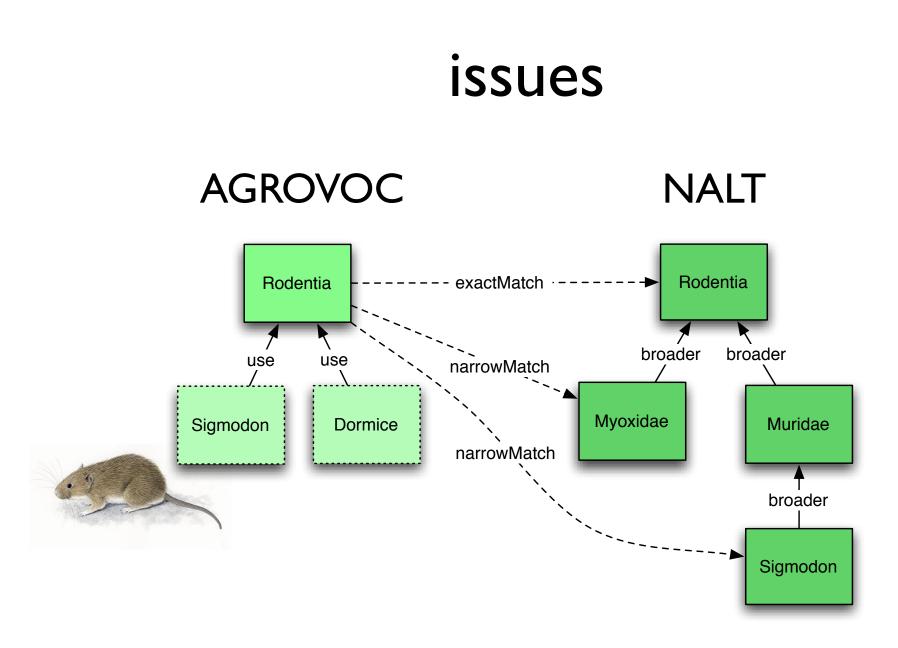


f-score of exact, broad & narrowMatch

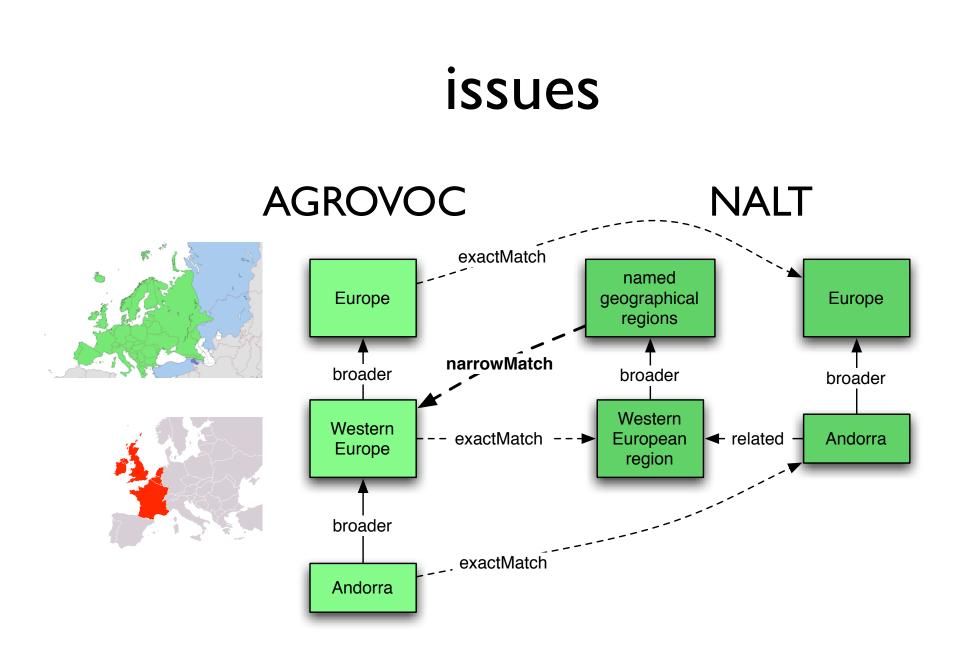




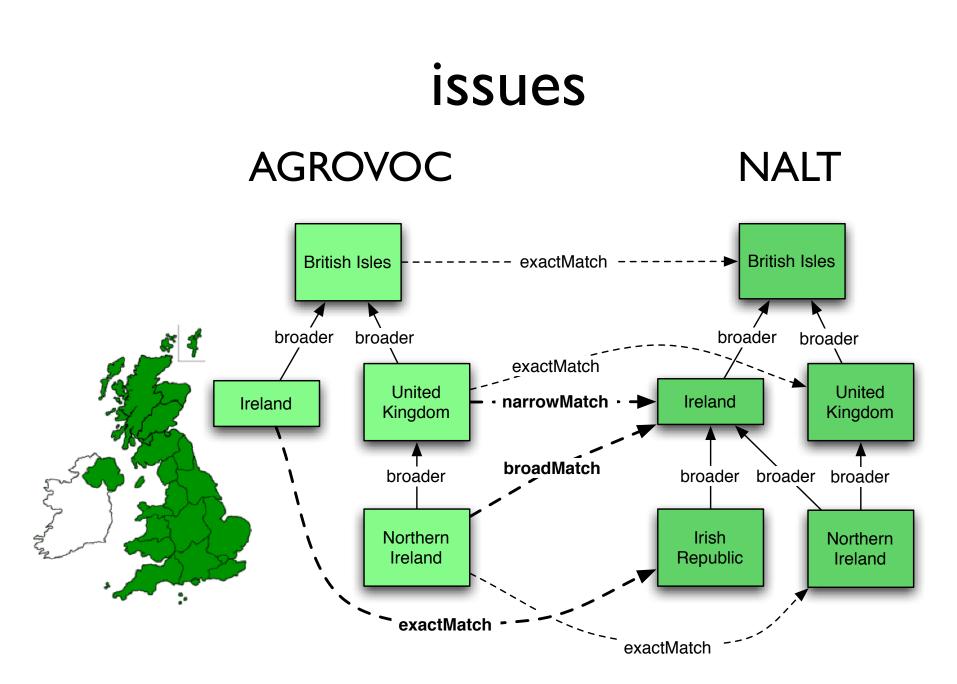
How do you deal with the USE relations / skos:altLabel?



How do you deal with the USE relations / skos:altLabel?



How do you find this relation?



What kind of background knowledge will reveal this difference?

issues AGROVOC NALT exactMatch --> Scyllaridae Quercus Quercus broader broader broader Quercus Quercus **Ibacus** 5 cm exactMatch · pubescens pubescens pubescens

How can you define a generic rule about pre- and postfixes in concept names? (consider **sofsem:has_the_last_name** and **confious:last_name**)

issues AGROVOC NALT exactMatch ---Quercus Scyllaridae Quercus broader broader broader Quercus Quercus **Ibacus** 5 cm exactMatch pubescens pubescens pubescens exactMatch

How can you define a generic rule about pre- and postfixes in concept names? (consider **sofsem:has_the_last_name** and **confious:last_name**)

