LT-INNOVATE SUMMIT 2012

Daedalus at iHealth

June 2012



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What innovations do you foresee for iHealth using language technology?

- Language Technology (LT) is not widely used in health systems but LT could be useful in many ways:
 - Providing automatic **annotation** and **classification** of medical files. For example, according to ICD-9.





Automatic anonymization of medical files.

• Making **information search** easier over text, audio or video.





What barriers are there to achieving these innovations and how can these barriers be overcome through cooperation?



- In some countries, health issues are managed by Public Institutions, hardly accessible by small companies.
- Severe legal restrictions (related with company size, experience, tests performed to the systems to provide) are applied for companies providing services to Public Institutions.





Is it possible to reach agreements with existing IT systems providers to introduce LT?



Technology available at Daedalus (I)

Annotation of medical texts according to thesaurus such as UMLS



Automatic classification according to predefined classes



Information extraction from texts

Anonymization of forms and documents



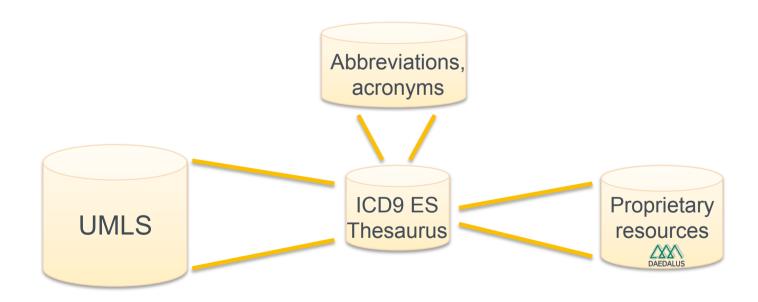
Multilingual + Multimedia Environments



Technology available at Daedalus (II)

ICD-9 AUTOMATIC TAGGING OF MEDICAL DIAGNOSTICS

 A tool combining: thesaurus in the medial domain and propietary linguistic processing.

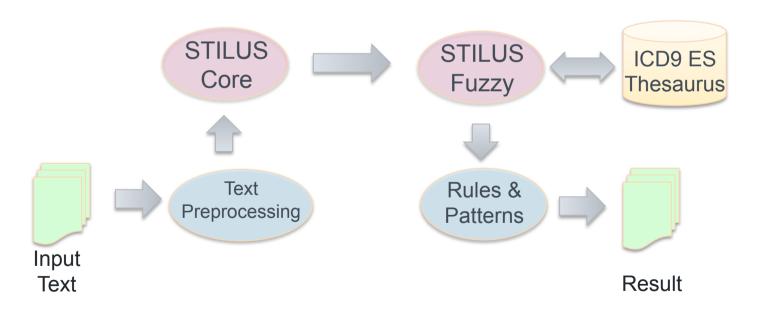




Technology available at Daedalus (III)

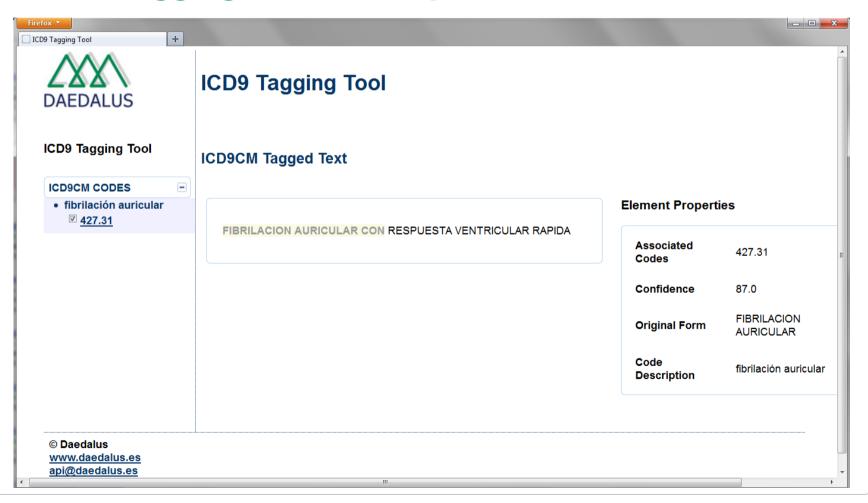
ICD-9 AUTOMATIC TAGGING OF MEDICAL DIAGNOSTICS

Input text is analyzed and parsed. For each segment, possible ICD-9 codes are assigned.





ICD9 Tagging Tool - Example





THANK YOU!



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