Cooking Assistant Mashup with Biologeek

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ESWC 2013 – IA Mashup Challenge, 28 May 2013
Montpellier
Telling the Story …

Molly

Typical French Family

Cunégonde

I want to cook something good!
Construction of the mashup
Construction of the mashup (internals …)

Declaring component compatibility at abstract level

MAPPINGS_DATA = {
  'stdlib.cooking.CuisineLibre' : {'resource' : 'Recipe','action':'Searching'},
  'stdlib.news.LeMonde' : {'resource' : 'Article'},
  'stdlib.news.CNN' : {'resource' : 'Article'},
  'stdlib.music.Deezer' : {'resource' : 'Music','action':'Playing'},
  'stdlib.video.Dailymotion' : {'resource' : 'Video','action':['Publishing','Playing']},
}

Declaring concrete versus abstract mappings
Execution of the mashup
Looking at Results and Generated Recommendations

- **Video recommender:**
  - Two methods:
    - Basic: Counting similar words in title and recipe (locally).
    - Strong: Based on pre-compiled word distances using an external corpus (french wikipedia) and algorithm of Paul Vitanyi in “Similarity of Objects and the Meaning of Words. TAM'06”
    - Second is good only if videos description contain full recipe description.
    - TILT used for lemmatization

- **Song Recommender**
  - Combine automatic extraction (Larousse Cuisine, Deezer, Parolesmania) with human vote for song popularity.

- **Expressions/Dictons Recommender**
  - No real complexity: aggregating various web sources
Conclusions and Next Steps

■ Cooking: Good example of content aggregation:
  – Independence in respect to content providers
  – May pose difficult challenges (automatic linkage between songs and lyrics)

■ Next Steps
  – Working on composition recommendations
  – New interface exploiting composition recommendation