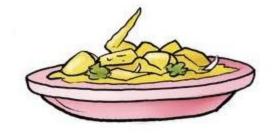


Cooking Assistant Mashup with Biologeek

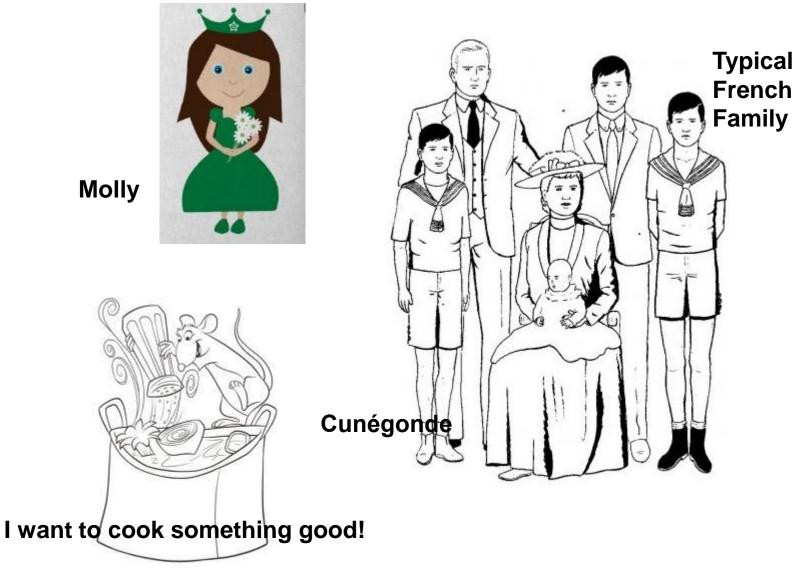


Mariano Belaunde, Frédérique Pinson, Olivier Collin (Orange-Labs)

ESWC 2013 – IA Mashup Challenge, 28 May 2013 Montpellier

S.

Telling the Story ...

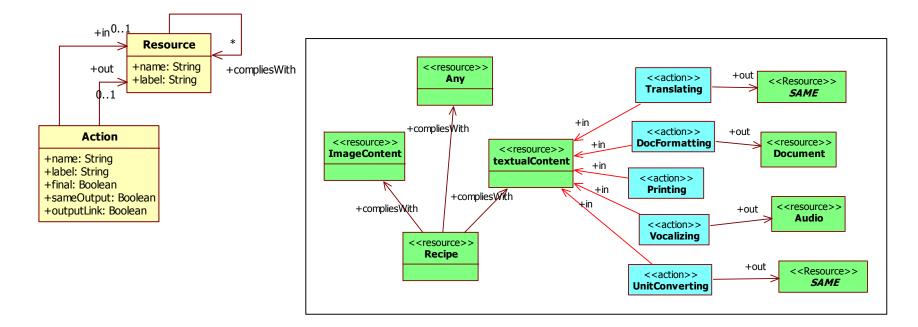


2

Construction of the mashup



Construction of the mashup (internals ...)

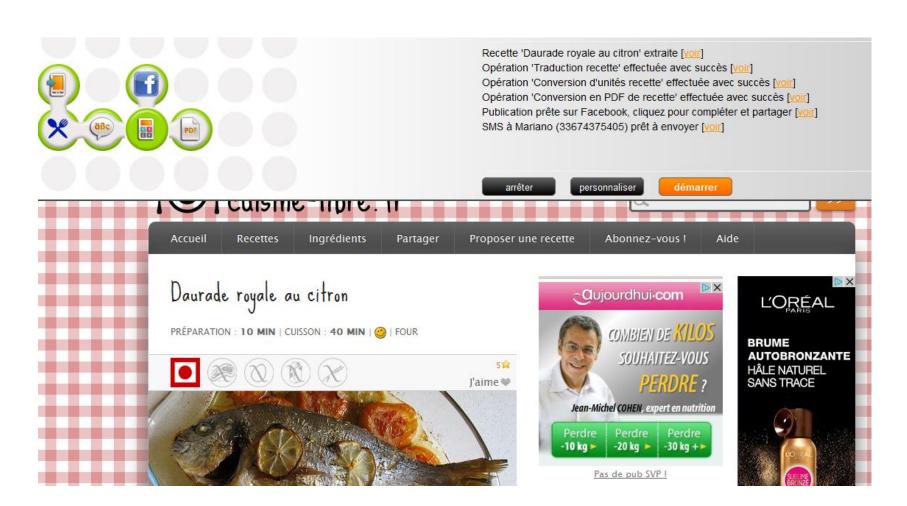


Declaring component compatibility at abstract level

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

France Telecom Group restricted 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 algoriythm 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