Vivre ou revivre un événement sur le Web

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General Objectives

- Existing services to explore, share and discover events

- Aggregate these heterogeneous data sources

- Enrich with media and social data
What happened in ICWSM-12?

- How to get a summary?
  - Spread Information
  - Keyword Search
  - Short life of some media (e.g. tweets)
Overview

- Create a real-time environment to browse **conferences** as well as their various representative **media**: images, micro-posts, slides, videos, etc.

- **Best Concept** award in the "Linked Data-a-Thon" challenge of ISWC 2011.

"Confomaton"

**Semantic Web Application**
Architecture

Media Collector
(Node.js)

Event Collector
(RSS, dumps)

Real-time Reconciliation
Based on Tag + Named-Entity

Linked Data API
User Interface

Data Modelling

Virtuoso RDF Store

Linked Data API
Media Collector

- Runs on the top of Node.js
- Scrapes through key search data coming from media API services (Flickr, Twitter, Slideshare)

```json
{
  - GooglePlus: [
    - {
      mediaurl: https://plus.google.com/104855266174873098326,
      storyurl: https://plus.google.com/106144680131189887520/posts/VuRb6zewdC8,
      - message: {
          text: "ICWSM is now on Google+ <a href="http://gplus.to/icwsm">http://gplus.to/icwsm</a> ICWSM is now on Google+"
      },
      user: https://plus.google.com/106144680131189887520,
      type: "photo",
      timestamp: 1338495220000,
      published: "2012-05-31T20:13:40.000Z"
    },
    - Instagram: [
      - {
          mediaurl: http://distilleryimage11.s3.amazonaws.com/2f7ab398a9cd11e1a39b1231381b7ba1 7.jpg,
          storyurl: http://instagr.am/p/LOVp1hzAz/,
          - message: {
              text: "Hrwaldram #icwsm. icwsm",
              clean: "Hrwaldram icwsm. icwsm"
          }
      }
    ]
}
Event Collector

- **Lanyrd** providing RSS feeds of about 250 conferences per month

http://lanyrd.com/conferences/

- **Semantic Web Dog Food** providing RDF fine-grained descriptions of conferences:
  - Sub-events (tutorials, talks, sessions, etc.)
  - Papers that were presented
  - People who attended and the organizations they come from.
Data Modelling for Events

LODE Ontology

http://linkedevents.org/ontology/

http://lanyrd.com/places/greece/

lode:atPlace

http://lanyrd.com/profile/username/

lode:involvedAgent

lode:Event

rdf:type

Conference:63952

dc:title

9th Extended Semantic Web Conference

lode:atTime

lode:inSpace

time:Instant

http://twitter.com/ESWC/status/20810745

geo:Point

2012-05-27T09:30:00

^^xsd:dateTime

35.2401

^^xsd:float

24.8092

^^xsd:float
# Data Modelling for Media

[Diagram showing relationships between resources such as images, slides, tweets, and links, with labels like "http://farm7.static.flickr.com/6115%2F6279003399_678b6e6e74_b.jpg", "http://www.slideshare.net/OlafGoerlitz/splendid-9858478", "http://www.slideshare.net/OlafGoerlitz/", "#Confomaton wins the best effort at #ISWC2011"]
Data Scraping and Interlinking

Semantization of Data

Last.fm + Upcoming

Machine tags “lastfm:events”

Eventful

Random sampling filtered by the tag "music"

Flickr

2 million images over 140,000 events

Data Freshness

Tag = *:event

Per week

• 1500 Photos
• 130 events

SPARQL endpoint: http://eventmedia.eurecom.fr/sparql
Technology

- **User Interface:**
  - HTML + CSS + Javascript

- **LDA: Linked Data API**
  - A set of REST methods to publish the data stored in the RDF storage behind

- **RDF Storage:**
  - Backed up by Virtuoso (RDF triple store)

- **SPARQL endpoint:**
  - [http://eventmedia.eurecom.fr/sparql](http://eventmedia.eurecom.fr/sparql)
Re-living Past Experiences

http://semantics.eurecom.fr/eventmedia/

Where: Bonn - Germany

What: Rheinkultur

When: January – December 2008
With different user interfaces

Sliverlight Pivot Viewer: [http://semantics.eurecom.fr/eventmedia/pivot.html](http://semantics.eurecom.fr/eventmedia/pivot.html)
Démo

http://eventmedia.eurecom.fr/confomaton

Conferences

Media

http://data.linkedevents.org/event/e6487d0e-bab2-4ef0-8811-eb2eca3b08d8

Event tweets

Un 'cône virtuel' pour illuminer l'ordinateur du futur http://t.co/Smgv1pB #ciencia #tecnologia #hannover

Locate promising business contacts and let others locate you at #CeBIT http://t.co/3WsmxN90