

Linked Open Data

Introduzione e nuovi punti di vista

Silvia Mazzini Antonella Pagliarulo

smazzini@regesta.com

apagliarulo@regesta.com

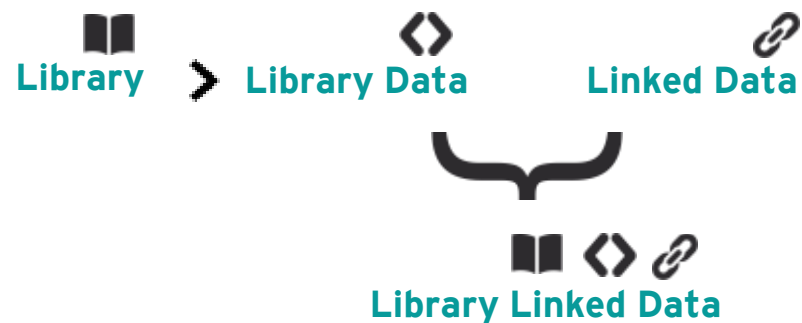


regesta.exe

Library Linked Data

W3C Incubator Group final report

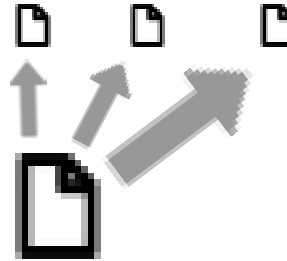
October 25, 2011



Key recommendations

 dataset  standard  conservazione

Web of Document



A screenshot of the European Data Forum 2012 website. The header includes the logo for 'european data forum' and the event title 'European Data Forum 2012 June 6-7, 2012, Copenhagen DK'. The main content area features a 'Welcome to the European Data Forum 2012' message, 'Important Dates' section, and 'Organizing Partners' including logos for IKS, LATC, LOOS, PlanetOut, and others.



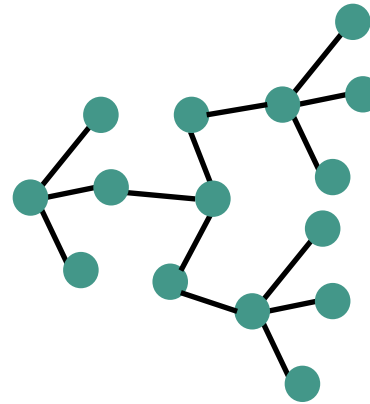
A screenshot of a social media profile page, likely LinkedIn, showing a profile picture, name, and various statistics.

A screenshot of a website with a prominent search bar at the top, a navigation menu, and a main content area with text and images.


A screenshot of a video player interface, showing a video player with a play button and a title 'Biggest Data Users in the World'.


A screenshot of a document page, likely a research paper or report, with a main text area and a sidebar containing navigation or search options.

A screenshot of a website featuring a world map at the top, a navigation menu, and a main content area with text and images.



Web of Data

foaf:homepage > <http://www.cbs.dk> > 

foaf:homepage > <http://linkeddata.org> > 

foaf:based_near > <http://www.geonames.org/2618425>

<http://data-forum.eu>





dcterms:subject > http://dbpedia.org/page/Linked_Data

Welcome to the European Data Forum 2012
 The European Data Forum (EDF) 2012 will take place on June 6-7, 2012 in Copenhagen (Denmark) at the Copenhagen Business School (CBS). It is a meeting place for industry, research, policymakers and government officials to discuss the challenges of big data and the emerging data economy and to develop concrete action plans to address these challenges. It is a meeting place for industry, research, policymakers and government officials to discuss the challenges of big data and the emerging data economy and to develop concrete action plans to address these challenges. It is a meeting place for industry, research, policymakers and government officials to discuss the challenges of big data and the emerging data economy and to develop concrete action plans to address these challenges.

Linked Data Design Issues

Tim Berners Lee

June 18, 2009

-  **1 Use URIs**
as names for things
-  **2 Use HTTP URIs**
so that people can look up those names
-  **3 Use the standards (RDF, SPARQL)**
providing useful information
-  **4 Include links to other URIs**
so that they can discover more things

RDF

resource description framework

RDF is a standard model for data interchange on the Web

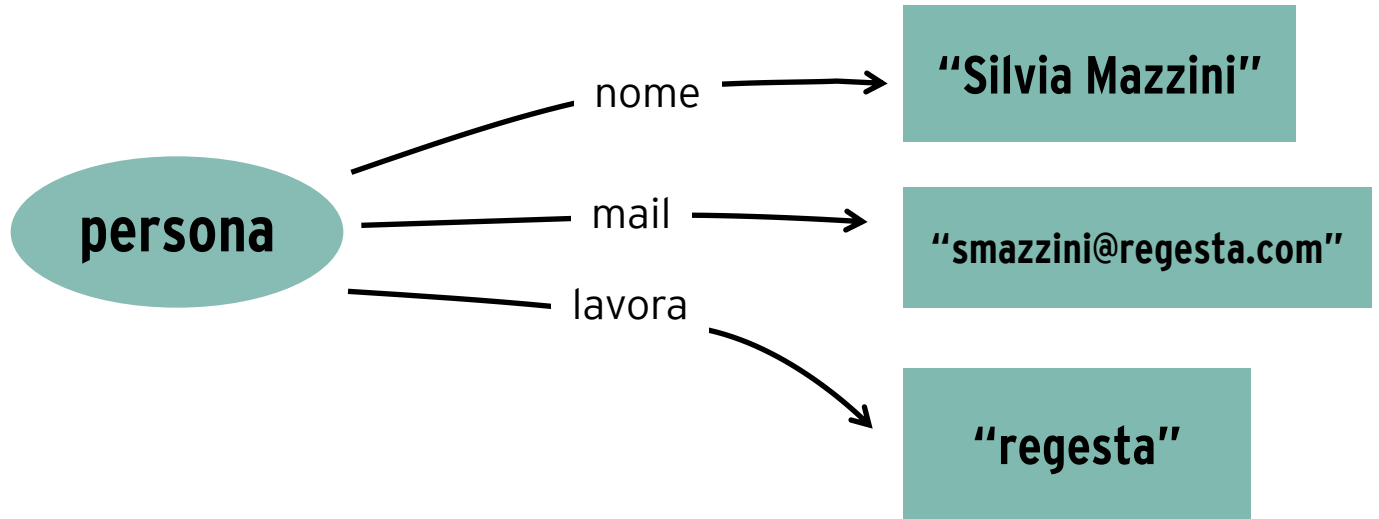
RDF è lo strumento base proposto dal W3C per la codifica, lo scambio e il riutilizzo di metadati strutturati

RDF consente l'interoperabilità tra applicazioni che si scambiano informazioni sul Web

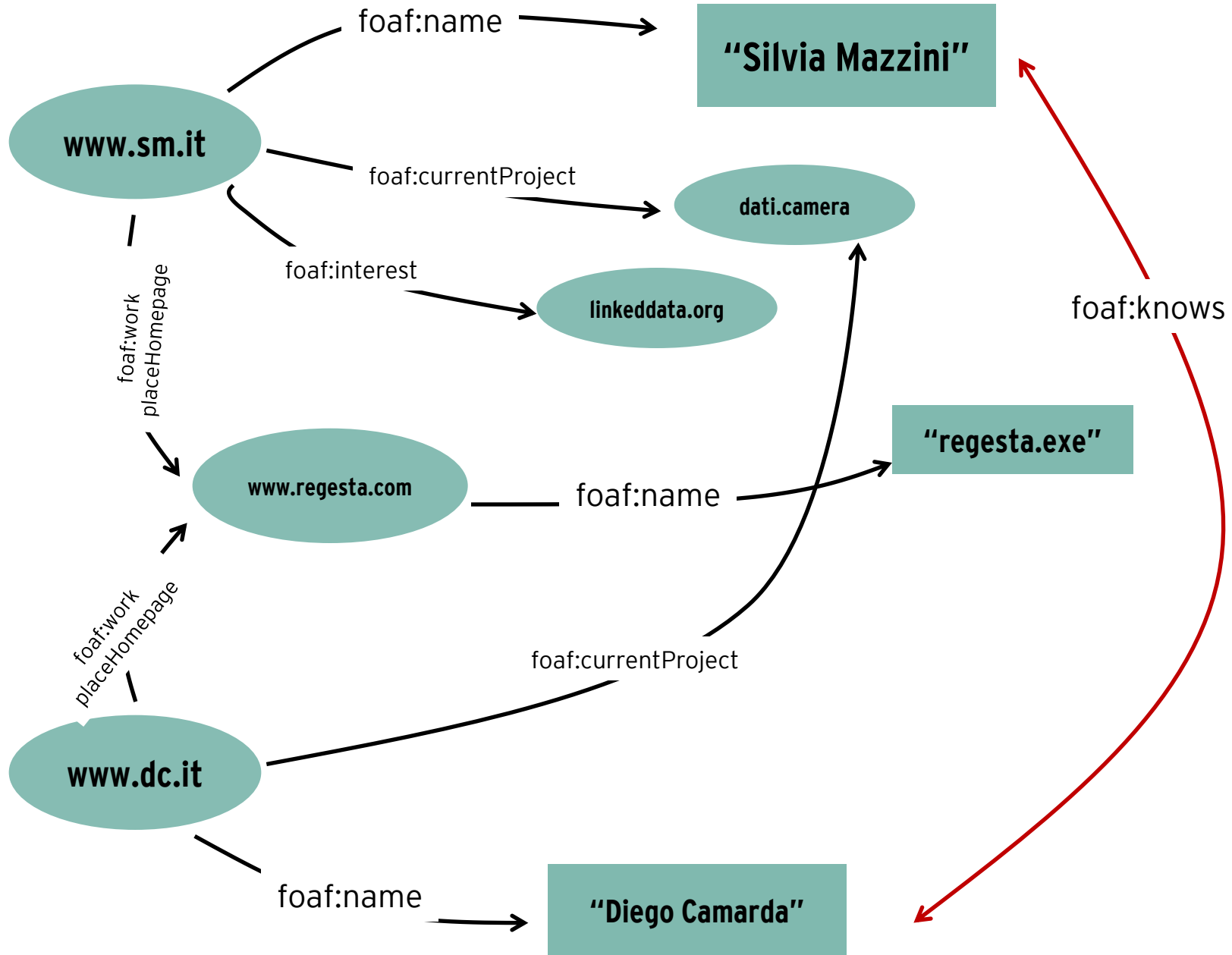
persone

nome	mail	website	lavoro
Silvia Mazzini	smazzini@regesta.com	www.sm.it	Regesta
Diego Camarda	dcamarda@regesta.com	www.dc.it	Regesta

RDF
triple



RDF
triple



è una rappresentazione formale, condivisa ed esplicita
di una concettualizzazione di un dominio di interesse

Ontologia

 foaf

 dublin core

 skos

 geonames

 ...

I  reuse

è un vocabolario per mettere in collegamento le persone

foaf



```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/">
  <foaf:Person>
    <foaf:name>Leigh Dodds</foaf:name>
    <foaf:firstName>Leigh</foaf:firstName>
    <foaf:surname>Dodds</foaf:surname>
    <foaf:mbox_sha1sum>7100fbc3ca 5</foaf:mbox_sha1sum>
    <foaf:knows rdf:resource="#dan">
  </foaf:Person>
  <foaf:Person rdf:ID="dan">
    <foaf:name>Dan Brickley</foaf:name>
    <foaf:mbox_sha1sum>15fc210f9e9137262c252e</foaf:mbox_sha1sum>
    <rdfs:seeAlso rdf:resource="http://rdfweb.org/people/danbri/foaf.rdf"/>
  </foaf:Person>
</rdf:RDF>
```

è un vocabolario utile per descrivere qualsiasi materiale digitale

dublin core



```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:dc="http://purl.org/dc/elements/1.1/">
  <dc:title>Dublin Core Metadata Element Set: Reference Description</dc:title>
  <dc:creator>Stuart Weibel</dc:creator> <dc:creator>Eric Miller</dc:creator>
  <dc:subject>Metadata, Dublin Core element, resource
description</dc:subject>
  <dc:description>This document is the reference description of the Dublin
Core Metadata Element Set designed to facilitate resource
discovery.</dc:description>
  <dc:Publisher>OCLC Online Computer Library Center, Inc.</dc:publisher>
  <dc:identifier>http://purl.org/metadata/dublin_core_elements</dc:identifier>
  <dc:format>text/html</dc:format>
  <dc:Type>Technical Report</dc:Type>
  <dc:Language>en</dc:Language>
  <dc:date>1997-11-02</dc:date>
</rdf:RDF>
```

è un linguaggio basato su RDF creato per rappresentare glossari, classificazioni, tassonomie e qualsiasi tipo di vocabolario strutturato

skos

simple knowledge
organization system

```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:skos="http://www.w3.org/2004/02/skos/core#"
xmlns:skosext="http://www.w3.org/2004/02/skos/extensions#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <skos:Concept rdf:about="http://www.biblio.liuc.it/1661">
    <skos:prefLabel>Economia</skos:prefLabel>
    <skos:broader rdf:resource="http://www.biblio.liuc.it/4591">Scienze
sociali</skos:broader>
    <skos:narrower rdf:resource="http://www.biblio.liuc.it/318">Aspetti
economici</skos:narrower>
    <skos:narrower
rdf:resource="http://www.biblio.liuc.it/1660">Econometria</skos:narrower>
    <skos:related rdf:resource="http://www.biblio.liuc.it/scripts/1047">Condizioni
economiche</skos:related>
    <skos:related rdf:resource="http://www.biblio.liuc.it/1640">Dottrine
economiche</skos:related>
    <skos:related rdf:resource="http://www.biblio.liuc.it/5010">Storia
economica</skos:related>
    <skos:scopeNote>BNCF con il significato di "attivit  economiche". Usare solo in
riferimento alla disciplina.</skos:scopeNote>
  </skos:Concept>
</rdf:RDF>
```

è un database geografico *open* con oltre 10 milioni di nomi di luogo, disponibili in formato rdf

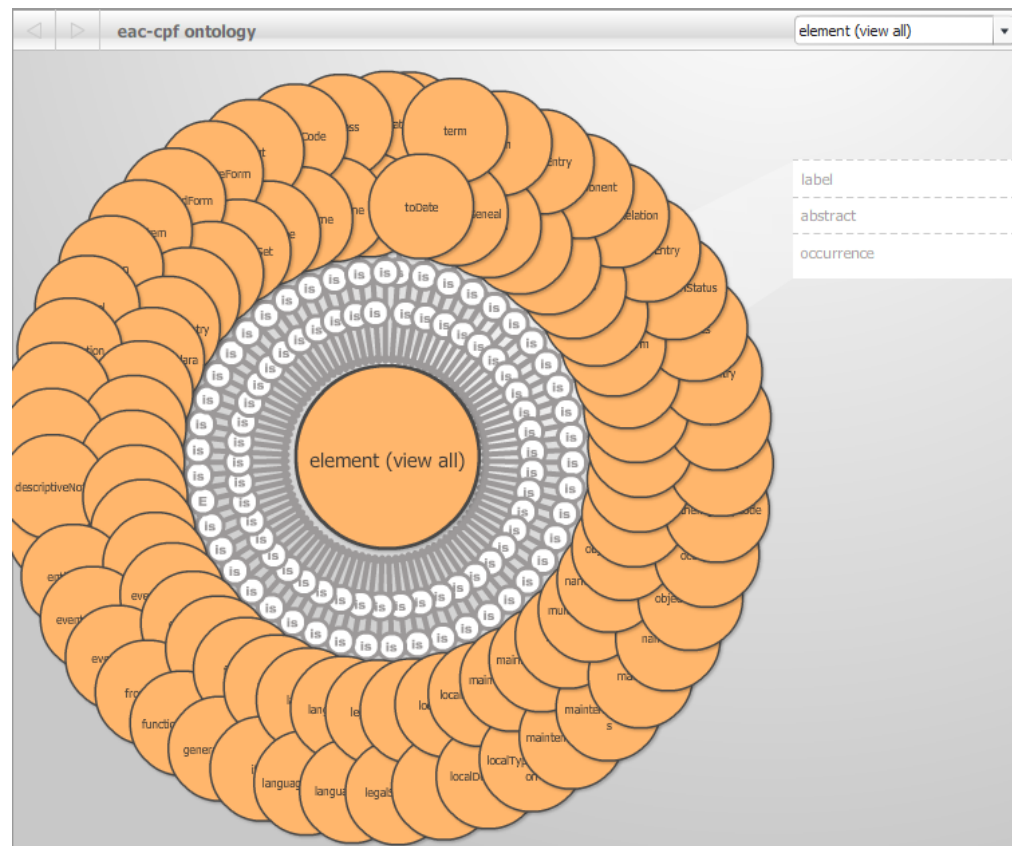
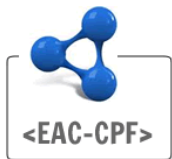
```
<rdf:RDF xmlns:cc="http://creativecommons.org/ns#" xmlns:dcterms="http://purl.org/dc/terms/"
xmlns:foaf="http://xmlns.com/foaf/0.1/" xmlns:gn="http://www.geonames.org/ontology#"
xmlns:owl="http://www.w3.org/2002/07/owl#" xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:wgs84_pos="http://www.w3.org/2003/01/geo/wgs84_pos#">
  <gn:Feature rdf:about="http://sws.geonames.org/3169070/">
    <rdfs:isDefinedBy>http://sws.geonames.org/3169070/about.rdf</rdfs:isDefinedBy>
    <gn:name>Rome</gn:name>
    <gn:officialName xml:lang="en">Rome</gn:officialName>
    <gn:featureClass rdf:resource="http://www.geonames.org/ontology#P"/>
    <gn:featureCode rdf:resource="http://www.geonames.org/ontology#P.PPLC"/>
    <gn:countryCode>IT</gn:countryCode>
    <gn:population>2563241</gn:population>
    <wgs84_pos:lat>41.89474</wgs84_pos:lat>
    <wgs84_pos:long>12.4839</wgs84_pos:long>
    <gn:parentFeature rdf:resource="http://sws.geonames.org/3169071/">
    <gn:parentCountry rdf:resource="http://sws.geonames.org/3175395/">
    <gn:parentADM1 rdf:resource="http://sws.geonames.org/3174976/">
    <gn:parentADM2 rdf:resource="http://sws.geonames.org/3169069/">
    <gn:parentADM3 rdf:resource="http://sws.geonames.org/3169071/">
    <gn:nearbyFeatures rdf:resource="http://sws.geonames.org/3169070/nearby.rdf"/>
    <gn:locationMap rdf:resource="http://www.geonames.org/3169070/roma.html"/>
    <gn:wikipediaArticle rdf:resource="http://af.wikipedia.org/wiki/Rome"/>
    <rdfs:seeAlso rdf:resource="http://dbpedia.org/resource/Rome"/>
  </gn:Feature>
</rdf:RDF>
```

geonames



è un vocabolario per la descrizione dei soggetti produttori di
archivio in RDF

eac-cpf



regesta.exe

via monte zebio 19, 00195 roma
vox +390637501056