HARMONY

Notes from the Semantic Web Working group

WHAT'S HARMONY?

HARMONY
Sogni a libro aperto

- 10 giorni 8 ore 27 minuti
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HARMONY Collezione

Amore per sempre
Una perfetta armonia di passione e romanticismo per grandi, indimenticabili storie d'amore.

Le nostre collane

Febbraio | Marzo | Aprile | Maggio

WHAT'S HARMONY?

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HARMONY
Collezione
Uno scapolo milionario
Cathy Williams


HARMONY
Collezione
Lo scandalo di Mia
Michelle Reid

VH HARMONY?)


HARMONY
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HARMONY
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HARMONY
Collezione
Audace vendetta
Melanie Milburne


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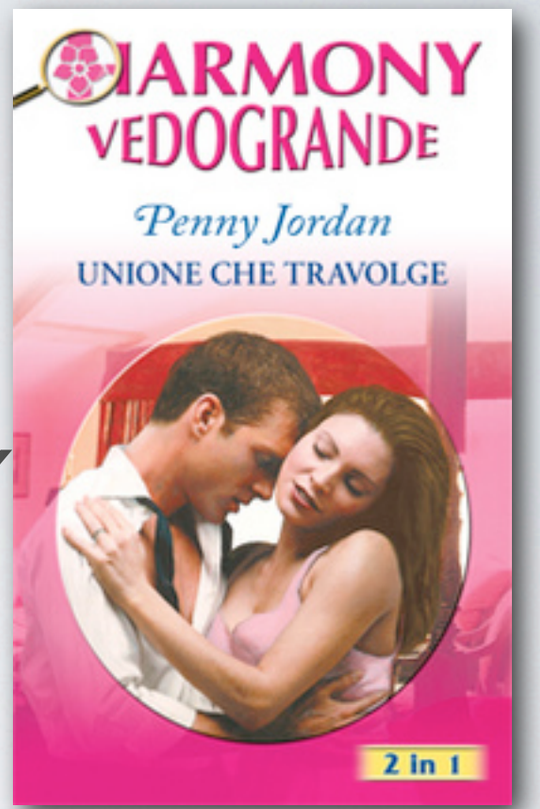
HARMONY
VEDOGRANDE
Penny Jordan
UNIONE CHE TRAVOLGE
2 in 1

SEMANTIC WEB WG: WHAT

Queries/RDF/ Integration

Semantics/ resoning

http://sourceforge.net/apps/mediawiki/biopax/index.php?title=Semantic_web/linking/CVs

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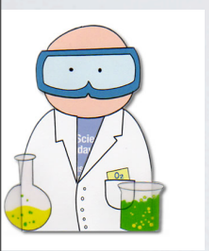
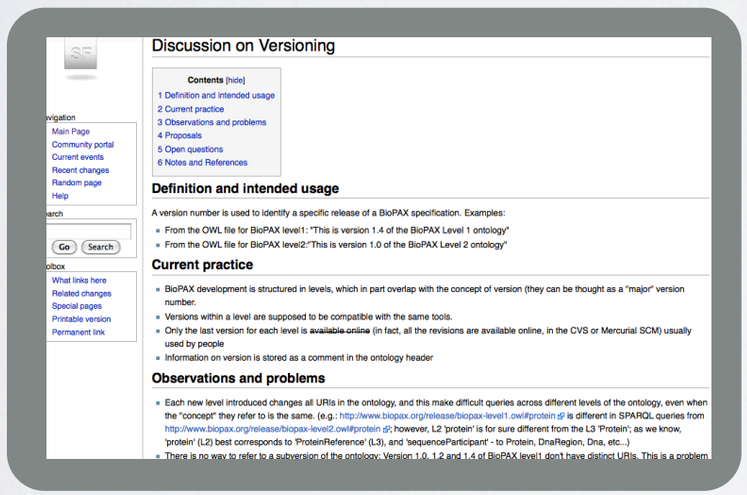
SEMANTIC WEB WG: HOW

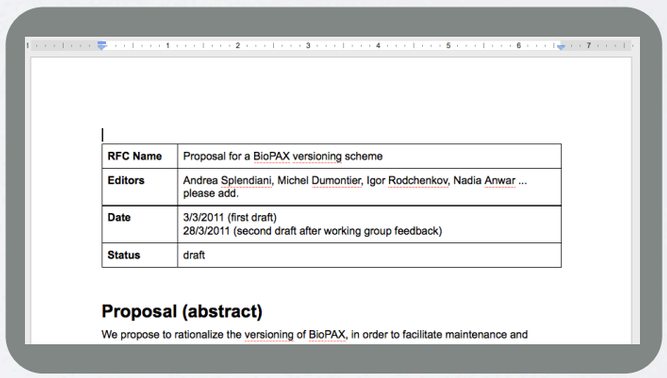
Problem/ issue/ idea



Proposal Life Cycle



wiki: requirements & ideas



RFC Name	Proposal for a BioPAX versioning scheme
Editors	Andrea Splendiani, Michel Dumontier, Igor Rodchenkov, Nadia Anwar ... please add.
Date	3/3/2011 (first draft) 28/3/2011 (second draft after working group feedback)
Status	draft

Proposal (abstract)

We propose to rationalize the versioning of BioPAX, in order to facilitate maintenance and

GoogleDocs: interactive discussion

Proposal:
- actions for "next" release
- notes for future developments

PROPOSALS

Proposal	Status
Versioning	GoogleDoc draft
5 star	GoogleDoc draft
URIs	GoogleDoc draft
Standardization	concept
Shared relations	concept/discussion
Metadata	concept/disucssion

VERSIONING

- URL for BioPAX which allows versioning tracking
- Distinction between URL of the BioPAX specs, and URL of the BioPAX entities

Want to know more ?

VERSIONING

- URL for BioPAX which allows versioning tracking
- Distinction between URL of the BioPAX specs, and URL of the BioPAX entities

To the following model:

`http://www.biopax.org/specification/level3/biopax.owl` -> latest (level3)
`http://www.biopax.org/specification/level3/v1/biopax.owl`
`http://www.biopax.org/specification/level3/v2/biopax.owl`

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To the following model:

```
http://www.biopax.org/specifi
http://www.biopax.org/specifi
http://www.biopax.org/specifi
```

Example of a possible header:

```
<owl:Ontology rdf:about="">
      <owl:versionInfo>BioPAX version 3.2 day/month/year</owl:versionInfo>
      <owl:priorVersion
rdf:resource="http://www.biopax.org/specification/biopax-level3/v1/"/>
      </owl:priorVersion>
      <owl:backwardCompatibleWith
rdf:resource="http://www.biopax.org/specification/biopax-level3/v1/"/
      </owl:backwardCompatibleWith>
      <owl:incompatibleWith
                                  org/specification/biopax-level2/"/


                                  org/specification/biopax-level1/"/
```

Want to know more ?

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To the following

http://www.
http://www.
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BioPAX Level1:
URI of the ontology: `http://www.biopax.org/specification/biopax-level1.owl`
URI of the protein class:
`http://www.biopax.org/specification/biopax-level1/protein`

BioPAX Level2:
URI of the ontology: `http://www.biopax.org/specification/biopax-level2.owl`
URI of the protein class:
`http://www.biopax.org/specification/biopax-level2/protein`

ır</owl:versionInfo>
pax-level3/v1/"/>
pax-level3/v1/"/
rg/specification/biopax-level2/"/
rg/specification/biopax-level1/"/

Want to know more ?

5 STAR MODEL

- Inspired by OpenData projects.
- How much is a BioPAX version Semantic Web friendly ?
- Soft evaluation (1 to 5 stars) depending on the compliance to a set of desired characteristics (in preparation)

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the 5 stars of open linked data

While perusing the minutes of today's w3c egov telecon I noticed mention of Tim Berners-Lee's Bag of Chips talk at the gov2.0 expo last week in Washington, DC. I actually enjoyed the talk not so much for the bag-of-chips example (which is good), but for the examination of Linked Data as part of a continuum of web publishing activities associated with gold stars, like the ones you got in school. Here they are:

★ make your stuff available on the web (whatever format)
★★ make it available as structured data (e.g. excel instead of image scan of a table)
★★★ non-proprietary format (e.g. csv instead of excel)
★★★★ use URLs to identify things, so that people can point at your stuff
★★★★★ link your data to other people's data to provide context

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0 star

An export whi
- makes use

***) 1 star**

An export is r
- passes the

****) 2 star**

An export is r
- it passes the
- it provides u
- it provides URIs that based on their domain name (basic provenance).

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URIS

- Coherent usage of URIs in BioPAX
- Should URIs be resolvable ?
- Should they resolve to what ?
- Is there a canonical form for URIs ?
- When do URIs change ?

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they are essentially bank notes. It is not important that these URIs ae consistent across resources.

We propose that URIs for BioPAX entities should follow the same principles (see 5star model RFC):

- URIs should be unique. In other words, the same URI cannot be used to denote different entities. If for instance a pathway database export the same protein for two distinct organisms, two different URIs should be used.
- As a consequence, URIs should change (only?) when the entity they refer to changes.
- URIs should be persistent
- URIs should be URLs resolvable over http

Why should we have this constraints? Why not just "URIs should be resolvable"? My understanding of the BioPAX format is that it is not supposed to be read and written by humans and that Web browsers are not the preferred tools to open such files.

- For terminologies and identifiers which are coming from other resources, where these provide stable URIs, the original URIs should be used (e.g.: Uniprot, OBO, …)
- For other entities (and with the exception of utility classes) data providers should:

IN PREPARATION

- Standardization:
  - rdfs:label, dc:title,.... instead of biopax:name ? ...
- Shared relation:
  - Can we define "participates in" and similar relations across standards ?
- Metadata:
  - Provenance, (Versioning), ...