SPARQL voor Drupal

- **Questions**
- Why
- What
- How
- Where

Questions

- Linked Open Datastore?

- Content Management System?

- Drupal?

- SPARQL?

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It's hot !

- Open Data Repositories popping up
- W3C Standards are being defined
- Tim Berners Lee Wants it (*)
- Improved speed, Improved powers are enablers

* http://www.ted.com/talks/lang/dut/tim_berners_lee_on_the_next_web.html

The 5 stars of Open LinkedData

★ 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

http://inkdroid.org/journal/2010/06/04/the-5-stars-of-open-linked-data/

Examples Providers

- http://data.gov.uk/

- http://www.data.gov/

- http://data.worldbank.org/

- http://www.gent.be/open

Examples Consumers

- Mashup 'gaten in de weg' met 'wiplash'

- When should I put Trashbins outside

- Where does my tax money go to

- Show me all movies featuring Belgian Actors who studied at Studio Herman Teirlinck, and please add the IMDB rating too.

Why we need SPARQL?

- SPARQL is to the Semantic Web what SQL is to relational databases.

- One step beyond SOA. No need to define service operations.

- Cost effective

Data is what we need

- SPARQL is nice
- Semantic Web is nicer
- But no fun without DATA (*)

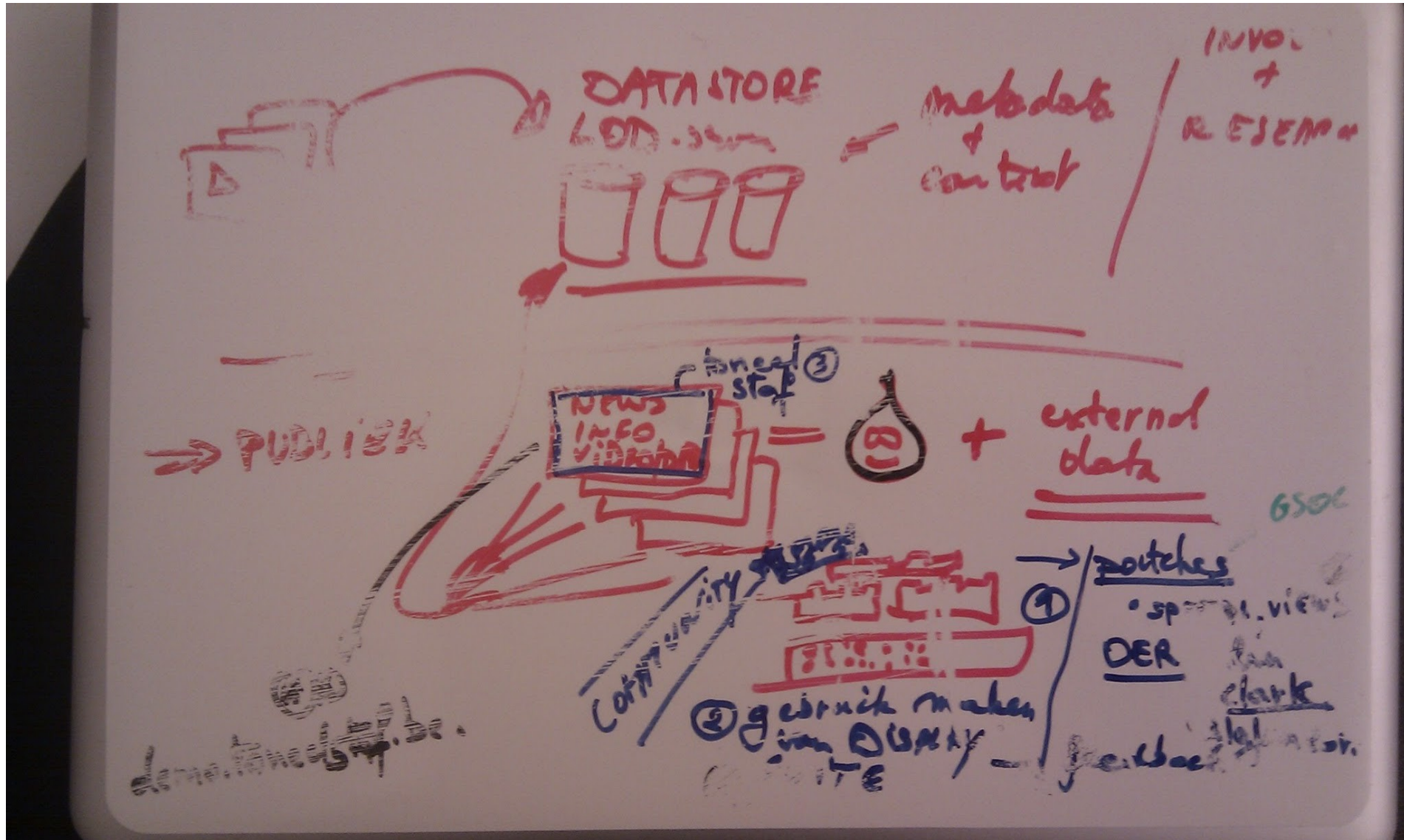* That's where the Archipel project comes to the rescue!

Open up that Data

- A huge amount of media is currently stored on tapes, disks, servers
- In best case stored in Linked Open Data Stores
- Great for doing research
- Great for adding context and meta-data
- But … still not accessible for general public
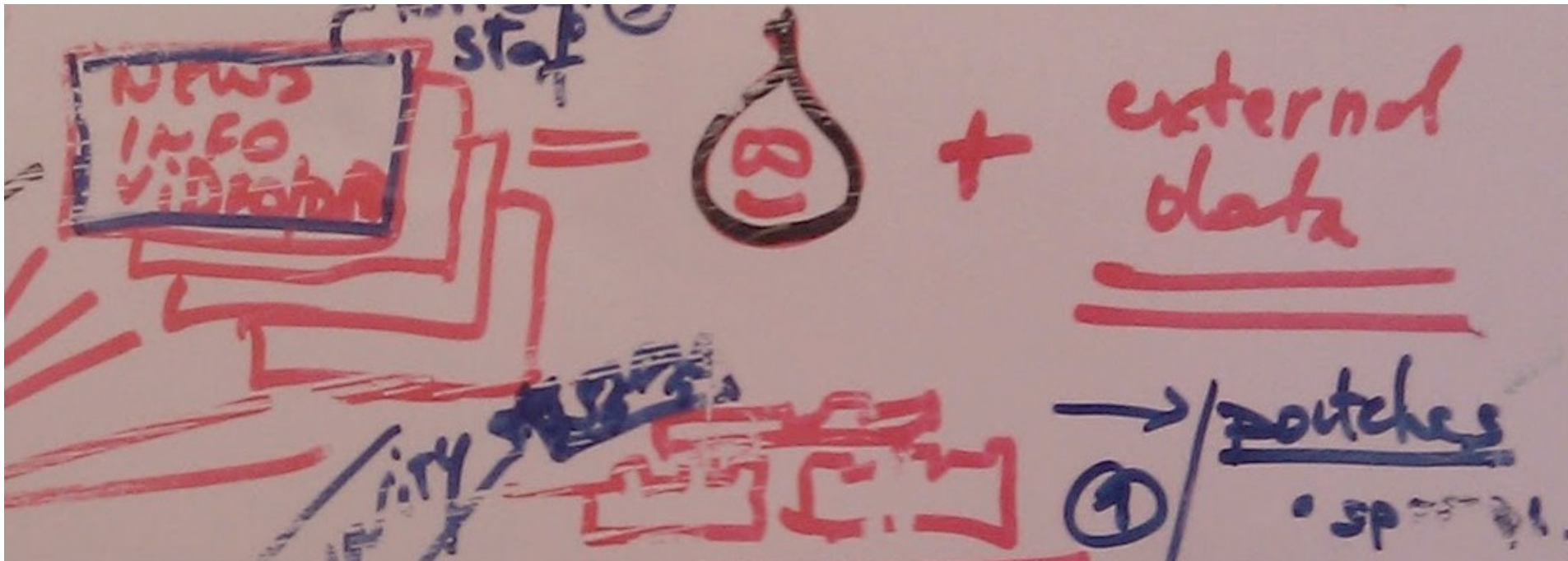- Goal -> Show media + related info on website(s)

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The grand Plan

What's a website?

- General pages, news, contact, …
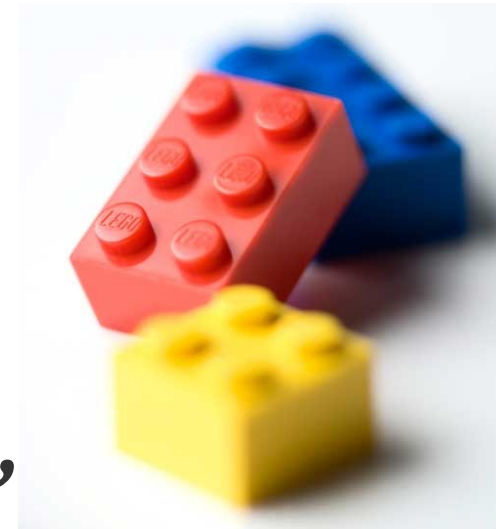- Media retrieved from one or more external sources

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Why Drupal?

- Content Management System
  - Page, news, press, ...
- Modular – *think "**Lego blocks!**"*
- Open Source – *think "**Freedom!**"*
- Growing – *think "**Whitehouse, StuBru, Monarchie**"*
- Huge Community

Drupal has Views

- Views provides this flexibility by offering up a graphical user interface (pictured below) that allows you to query the Drupal database for content and choose the format of the content display without having to write SQL queries

Drupal has Views

Edit view *"frontpage"*

List   Add   Edit   Import   Tools

View *frontpage*, displaying items of type Node.

Defaults

Page

Page

[Add display]

Defaults   *Default settings for this view.*

View settings
Tag: None

Basic settings
Name: Defaults
Title: None
Style: Unformatted
Row style: Node
Use AJAX: No
Use pager: Mini
Items per page: 10
More link: No
Distinct: No
Access: Unrestricted
Header: None
Footer: None
Empty text: None

Relationships   [+] [↑↓]
None defined

Arguments   [+] [↑↓]
None defined

Sort criteria   [+] [↑↓]
Node: Sticky asc
Node: Post date asc

Filters   [+] [↑↓]
Node: Promoted to
front page True
Node: Published True

Click on an item to edit that item's details.

[Save]   [Cancel]

Display:
Defaults

Arguments:

[Preview]

Separate arguments with a / as though they were a URL path.

Drupal has SPARQL Views

- SPARQL Views allows you to use Views to access remote and local SPARQL endpoints. In the near future, it will also work for RDFa on Web pages and hopefully microdata. Once the data is in Views, you can use Views style and display plugins to format your data.

SPARQL Views

SPARQL Views

View Version control

Posted by linclark on *June 3, 2010 at 2:14pm*

Description

SPARQL Views allows you to use Views to access remote and local SPARQL endpoints. In the near future, it will also work for RDFa on Web pages and hopefully microdata. Once the data is in Views, you can use Views style and display plugins to format your data.

- Google Summer of Code Project
- DERI Galway
- Lin Clark + Stephane Corlosquet

SPARQL Views (IMPROVED)

- Many Patches have been applied

    - We love Open Source !

- The Archipel project was used as test-scenario

- Feedback provided + Roadmap updated

Displaying data ?

- 'Views' allows to gather (and combine) data
- But doesn't allow an easy way to display data
- In comes .. Display Suite (TM) - Krimson

Display Suite

Display suite

View   Version control

Posted by swentel on *October 18, 2009 at 3:32pm*

Display Suite allows you to take full control over how your content is displayed using a drag and drop interface. Arrange your nodes, views, comments, user data etc. the way you want without having to work your way through dozens of template files. A predefined list of layouts (D7 only) is available for even more drag and drop fun!

- Drag and Drop fields, video, tags
- Now also available for SPARQL retrieved data!

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Combine it all

- Several use cases have been investigated
- A demo for Toneelstof has been built

To Conclude

- Drupal SPARQL Views Modules improved
- Drupal Display Suite allows Drag'n'Drop for SPARQL data
- Toneelstof website has been built using combined datasets.