



**We grew up together: data.bnf.fr from the BnF
and Logilab perspectives**

IFLA 2014

Satellite meeting : Linked Data in Libraries: Let's make it
happen!

14/08/2014

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Global contractual agenda

2009-2010

Prefiguration
(Capgemini)

2010-2012

First public
contract (Logilab)

2012-2016

Second public
contract (Logilab)

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Outlines

- Why we did it
- So far, it works !
- Issues
- Perspectives



Source : <http://gallica.bnf.fr/ark:/12148/btv1b9045638g>



Why we did it

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Be part of the web

- Be visible on the web: web pages for people
- Federate data: one page to reach all BnF resources (FRBR model)
- Display RDF / JSON for machines and link to other datasets



data.bnf.fr

Charles Baudelaire (1821-1867)



Pays :	France
Langue :	français
Sexe :	masculin
Naissance :	Paris, 09-04-1821
Mort :	Paris, 31-08-1867
Note :	Poète. - Critique d'art. - Traducteur d'Edgar Allan Poe. - Signa ses premières oeuvres de son patronyme et du nom de sa mère Caroline Archenbaut-Dufays
Domaines :	Littératures
Autres formes du nom :	Pierre Dufays (1821-1867) Baudelaire- Dufays (1821-1867) Baudelaire-Dufays (1821-1867) Voir plus
ISNI :	ISNI 0000 0001 2122 1863

Outils

-  [Imprimer la page](#)
-  [Exporter en PDF](#)
-  [Signaler un problème sur la page](#)

Ressources BnF

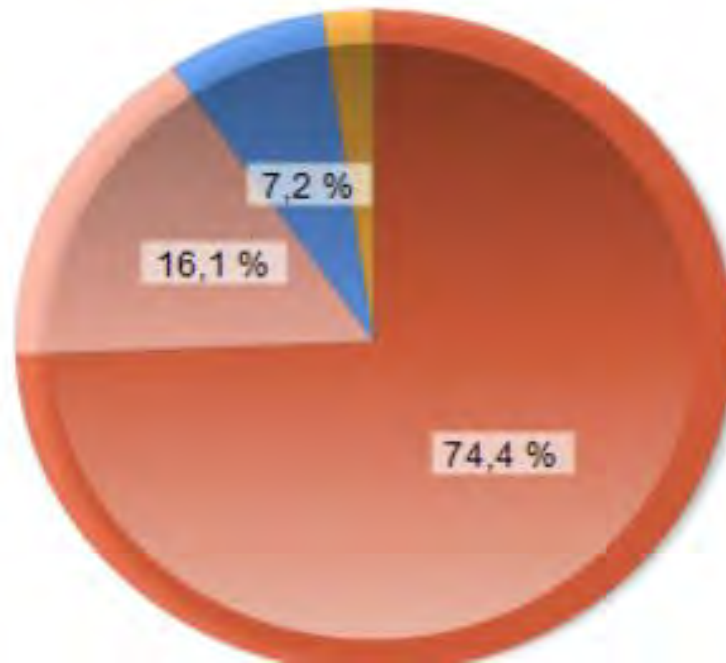
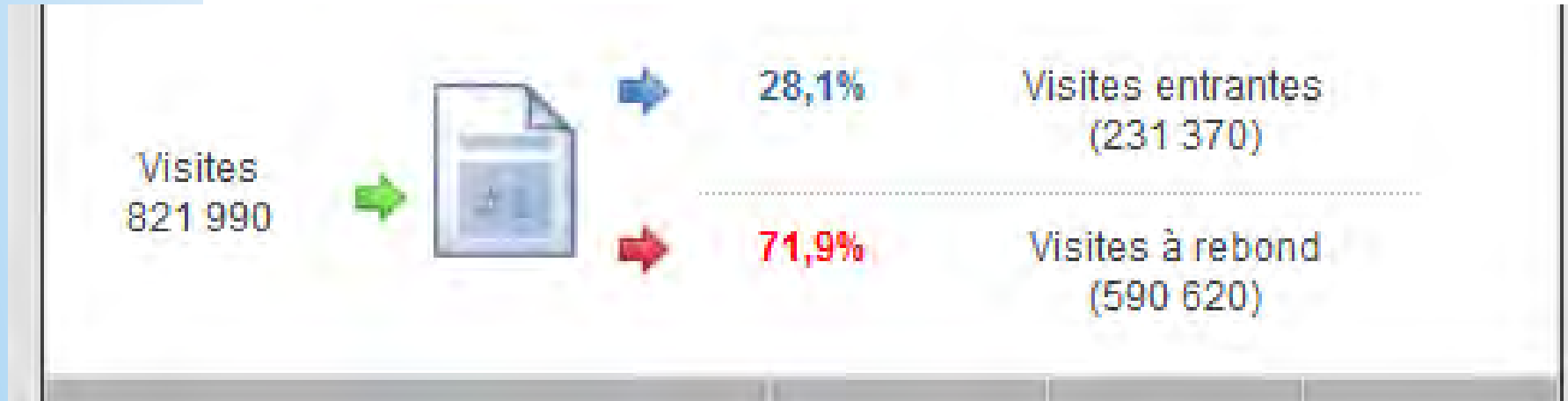
[> voir les 632 documents au sujet de cet auteur](#)

[> Auteurs reliés à Charles Baudelaire \(1821-1867\)](#)

Recherche dans :



Statistics January-July 2014



Métrique : Visites	
Moteurs	(74,4 %)
Accès Direct	(16,1 %)
Autres niveaux 2	(7,2 %)
Sites affluents	(2,3 %)
Notoriété	(<0,1%)
Webmails	(<0,1%)

Xiti stats

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The project

So far, it works

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BnF existing strengths

- **ARK identifiers** for authority records, bibliographic records, Gallica digital documents, virtual exhibitions, bookbindings description.

[ark:/12148/cb11947965f](https://nbn-resolving.org/urn:nbn:fr:bnf-12148-cb11947965f)

- **Authority files :**
 - 2 millions persons and organizations
 - 200 000 titles
- **Pre-existing links** between authority files and bibliographic descriptions

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NAF 14825

Sommaire

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NAF 14825 • Mélanges littéraires, XIXe siècle. XIXe s. - cote

Lettres de [Charles Baudelaire](#) à [Proudhon](#) (3-7), à [Poulet-Malassis](#) (8-9).
F. 3-9 (foliotation)

Sous-unités de description

F. 3-9 • Baudelaire, Charles. Lettre(s)

[Link to](#)
ark:/12148/cb118905823

Authority record : Charles Baudelaire



Affichage public

ISBD

Intermarc

Unimarc

Type : texte imprimé, monographie

Auteur(s) : [Baudelaire, Charles \(1821-1867\)](#)

Titre(s) : Les Fleurs du mal [Texte imprimé] : [épreuves d'imprimerie] / par Charles Baudelaire

Publication : Paris : Poulet-Malassis et de Broise, [mars-juin]1857

Impression : Alençon : impr. de Poulet-Malassis et de Broise

Description matérielle : [324 p.] ; 20 cm

Note(s) : Charles Baudelaire, Correspondance, I, Pleiade, 1993. - Epreuves d'imprimerie de l'édition originale, complète des pièces condamnées

Notice n° : FRBNF37174593

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... yet, we dont have everything in the MARC records.
Some links are calculated by data.bnf.fr :

Example : « [Sanctuary](#) » by [Faulkner](#) :

<http://data.bnf.fr/ark:/12148/cb11968321t>



The software: CubicWeb

- CubicWeb is a data management framework
- It stores data in relational database
- Select your data with an high-level query language similar to SPARQL

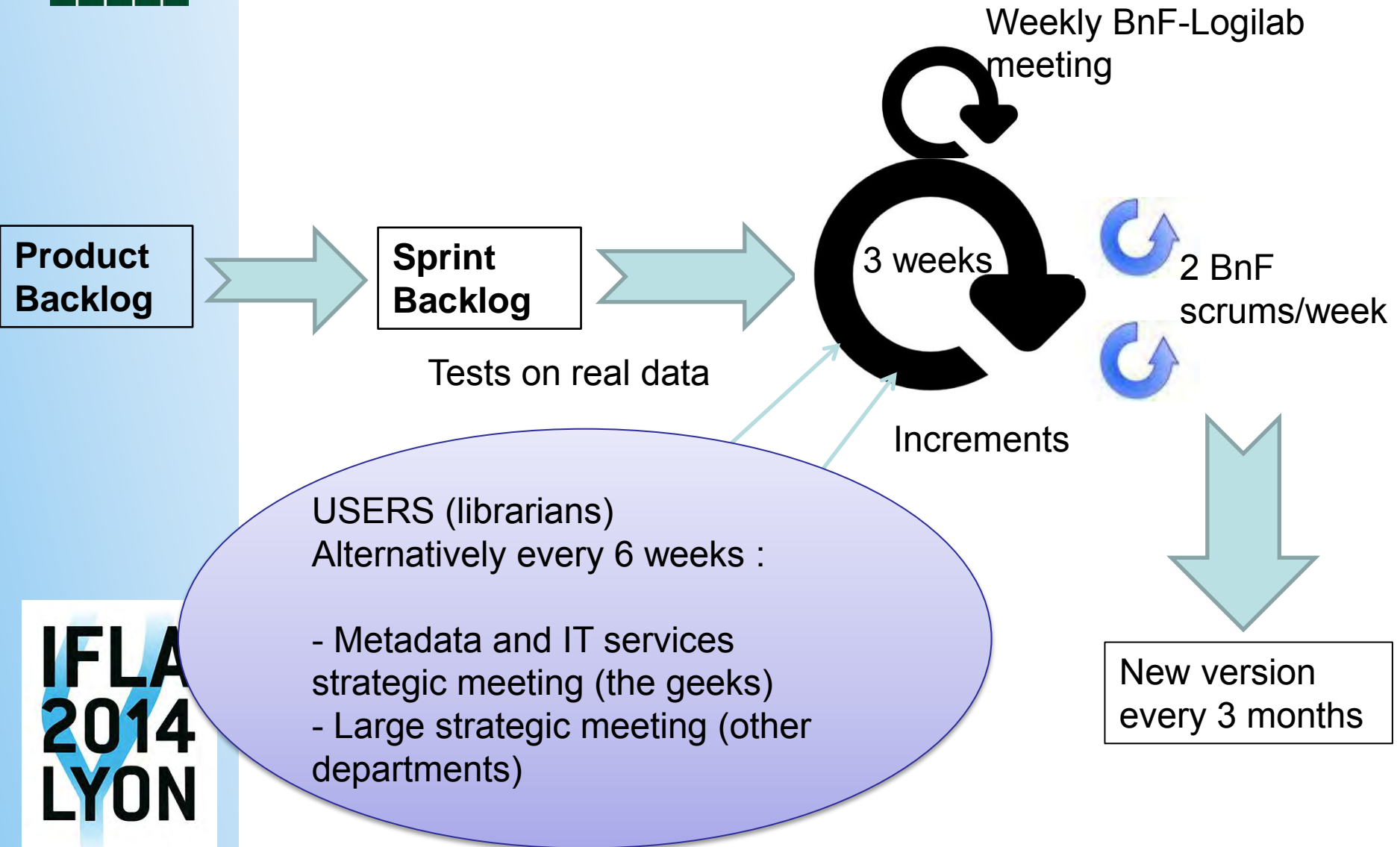
Any F,B WHERE

P preferred_form PF, PF firstname F,
P birthplace B, PF surname "Balzac"

- Choose among standard visualizations :
 - HTML : lists, tables, maps... ;
 - Other formats : RDF, JSON, CSV...
- Or define your own ones



The method: scrum



USERS (librarians)
Alternatively every 6 weeks :

- Metadata and IT services strategic meeting (the geeks)
- Large strategic meeting (other departments)

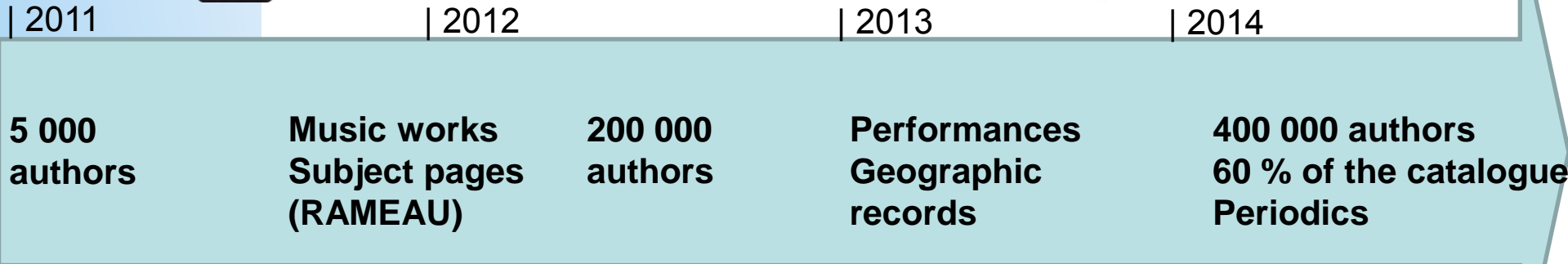


LICENCE OUVERTE
OPEN LICENCE

Start small, evolve step by step

Schema.org

SPARQLendpoint



External links
(LCSH,
Dbpedia...)

Lab (Atelier)

Pages about places

Pages about dates

FRBR « Expressions »

Documents
about an
author/work

Web legal deposit

ISNI
reliures.bnf.fr, bp16.bnf.fr





Issues

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Issue 1: project management

Goal:

- “sustainable development” with data.bnf.fr
- keep updated validation tests
- minimize the “technical debt”

Solutions:

- Document and stabilize the evolutions: for the IT service / on the librarian side / for the public.
- Enhance the BnF - contractant cooperation: give the code, transmit the skills.



Issue 2: scalability and updates

Goals and expectations:

- 100% catalogue and data update: every 2 weeks
- Increase of users

Solutions:

- Optimize
- Lighten the pages by replacing contents by links

http://data.bnf.fr/11890582/charles_baudelaire/#rdt680-11890582

- Provide alternative to content negotiation :
JSON for light exports
SPARQL endpoint : <http://data.bnf.fr/sparql>

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Issue 3: dependency

Issue :

External datasets change

Solutions:

- Check up and maintain the links
- Use broadly used data sets and reliable data hubs (VIAF for authors, for instance)

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Issue 4: improve the catalogues

Goal:

- put back into the catalogue the links that have been calculated by data.bnf.fr.
- such as links between bibliographic records and authority titles records.

Solutions:

- Test on all the catalogue (copy of the catalogue)
- Improve the algorithms
- Create actual links in the MARC data



Before

Type : texte imprimé, monographie

Auteur(s) : [Faulkner, William \(1897-1962\)](#)

Titre(s) : Sanctuary [Texte imprimé] / by William Faulkner, with a new introduction by the author

Publication : New York, Yhe Modern librarycop. 1932

Description matérielle : 1 vol. (VII-380 p.) ; 19 cm

Collection : Modern library of the World's best books ; 61

Lien à la collection : [Modern library of the world's best books](#)

(Rel.)

Notice n° : FRBNF41091147

<http://catalogue.bnf.fr/ark:/12148/cb41091147n/PUBLIC>

After !



Rappel de la recherche : MOT = PRR1P01

Mes achats

Affichage public

ISBD

Intermarc

Unimarc

Type : texte imprimé, monographie

Auteur(s) : [Faulkner, William \(1897-1962\)](#)

Titre conventionnel : [\[Sanctuary\]](#)

Titre(s) : Sanctuary [Texte imprimé] / by William Faulkner, with a new introduction by the author

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Lien à la collection : [Modern library of the world's best books](#)

(Rel.)

Notice n° : FRBNF41091147

<http://draco.bnf.fr:9080/ark:/12148/cb41091147n/PUBLIC>



Perspectives

- Keeping on exploring and innovating (<http://data.bnf.fr/atelier/>)
- Promote reuse and settle new partnerships
- Improve the source catalogues and become the driver for internal bibliographic change

Thank you for your attention

