
Outils de lecture augmentée

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Plan

Qu'est-ce que la lecture augmentée ?

La recherche et la lecture d'articles scientifiques

De « nouvelles » fonctionnalités intégrées aux
gestionnaires de références

Les publications augmentées

Numérique et lecture

Lecture hypertexte (pré-web)

- (Landow, 1992 ; Aarseth, 1997)
- « *The concept of cybertext focuses on the mechanical organization of the text, by positing the intricacies of the medium as an integral part of the literary exchange. [...] During the cybertextual process, the user will have effectuated a semiotic sequence, and this selective movement is a work of physical construction that the various concepts of "reading" do not account for. This phenomenon I call ergodic, using a term appropriated from physics that derives from the Greek words ergon and hodos, meaning "work" and "path."* » [Aarseth, 1997]

Numérique et lecture

Lecture hypertexte (web) : découverte de la « surcharge cognitive » produite par le zapping hypertexte

- (Hayles, 2007) Hyper et deep attention.
La division générationnelle en modes cognitifs
- (Carr, 2010) Ce qu'Internet fait à notre cerveau.
- (Giffard, 2011) Lectures industrielles : constat de l'industrialisation de la lecture qui ne provient pas d'une propriété inhérente au numérique et à l'hypertexte mais qui « cantonne l'activité de lecture à une activité de communication » et éloigne la lecture de l'activité de réflexion

Croissance exponentielle des données et des articles

Bases d'articles en libre accès ou portails éditeurs

Serveurs d'archivage de résultats

Univers des données massives servant aux projets de recherche

⇒ Rendent nécessaire la performance de systèmes de filtrage

⇒ Développement d'outils de textmining moissonnant les métadonnées et explorant les contenus

Numérique et lecture

Vers la lecture machine (« machine reading »)

- Pré-lecture
- Décodage des métadonnées
- Associations automatisées entre portions de textes ou textes entiers
- Vers la « mesure » de la lecture, comme une activité comptabilisable par des « clics », des mentions « like », « hashtags », etc.

Gestionnaires de références face au « big data »

Caractéristiques de la génération « web »

- Fonctionnalités collaboratives
- Edition de métadonnées (ex : Zotero)
- Intègrent des moteurs de recommandations (vers d'autres lecteurs, vers d'autres documents)

Vers des fonctionnalités « annotatives » évoluées

- Surlignage
- Notes
- Mapping

Actes de lecture intégrant des activités d'écriture

Organisation de la bibliothèque

- Dossiers personnels
- Partage de documents dans les Groupes
- Automatisation de la mise-à-jour de dossiers

Importation de pdf et extraction de métadonnées
(auteur, titre, année de parution)

Annotation, catégorisation, surlignage

ReadCube

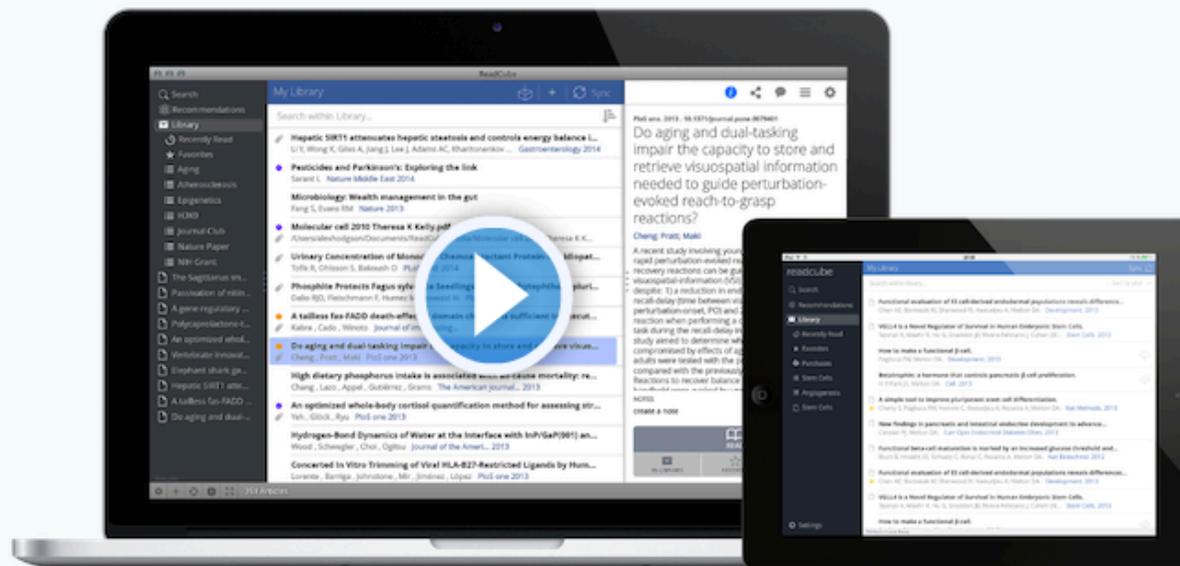
Gestion de la littérature scientifique comme un gestionnaire de références ET importation de ses propres documents

Recherche sur le web dans les revues scientifiques

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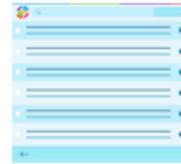
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- Supplements and related materials
- Clickable inline references
- Full Reference List
- Figure Browser
- 1-click author searches
- Related articles
- Inline notes and highlighting tools
- Full Screen Viewer

The screenshot shows the ReadCube interface for a scientific article. The main article title is "Elephant shark genome provides unique insights into gnathostome evolution" by Wesley C. Warren et al. The interface includes a sidebar with "Figures" and "Supporting Information" sections. The "Figures" section contains several small images and captions related to the article's findings on vertebrate evolution and bone formation. The "Supporting Information" section includes links to "Supplement 1 (PDF)" and "Supplement 2 (Zip)".

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ReadCube will automatically identify the author, title, journal citation and abstract for every article.

The screenshot shows the ReadCube interface with a sidebar on the left containing navigation options like Search, Recommendations, Library, Recently Read, Favorites, Aging, Atherosclerosis, Epigenetics, H3K9, Journal Club, Nature Paper, NIH Grant, The Sagittarius im..., and Passivation of nitin... The main area displays a search for 'cell' with a list of articles. The selected article is 'Kinase-selective enrichment enables quantitative phosphoproteomics of the kinome across the cell cycle.' by Daub, Henrik; Olsen, Jesper V; Bairlein, Michaela; Gnad, Florian; Oppermann, Felix S; Körner, Roman; Greff, Zoltán; Kéri, György. The interface includes a top navigation bar with 'My Library', a search bar, and icons for import, sync, and close. A table of search results is visible, with columns for author, journal, and title.



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Docear

Récupère toutes les annotations réalisées sur les pdf

- Commentaires
- Surlignage
- Signets

Organisation en classement des catégories affectées aux fragments

Fonctionne sur le mode des mindmaps

Annotations de documents pdf

“[...] on first impressions [Academic Search Engine Optimization] sounds like the stupidest idea I’ve ever heard.” [Gunn (2010)]

2.1 Introduction to Academic Search Engine Optimization (ASEO)

Based on the definition of *search engine optimization* pages (SEO), we define *academic search engine optimization* (ASEO) as follows:

admin 08.10.2013, 17:3...
Definition of Academic Search Engine Optimization

Academic search engine optimization (ASEO) is the creation, publication, and modification of scholarly literature in a way that makes it easier for academic search engines to both crawl it and index it.

8 Conclusion

As long as Google Scholar applies only very rudimentary or no mechanisms to detect and prevent spam, citation counts should be used with care to evaluate articles’ and researchers’ impact. Similarly,

“ASEO sounds good to me. I think it’s a good idea.”
[Ian (2010)]

Construction d'un plan de classement par catégories

The screenshot displays the Docear software interface in mind map mode. The central node is 'Literature & Annotations (click icon to refresh)'. It branches into 'Incoming' (with a sub-node 'Spam') and 'Search Engine Optimization'. 'Search Engine Optimization' further branches into 'ASEO' and 'Classic'. 'ASEO' branches into 'Definition', 'Opinions', and 'Papers'. Annotations are visible for 'Definition' and 'Papers'. The 'Definition' node contains two annotations: 'Definition of Academic Search Engine Optimization' and 'Academic search engine optimization (ASEO) is the creation, publication, and modification of scholarly literature in away that makes it easierfor academic search engines to both crawl it and index it'. The 'Opinions' node contains two annotations: '"ASEO sounds good to me. I think it's a good idea."' and '"[...] on first impressions [Academic Search Engine Optimization] sounds like the stupidest idea I've ever heard."' The 'Papers' node contains one annotation: 'Academic Search Engine Optimization (ASEO) -- Optimizing Scholarly Literature for Google Scholar and Co.pdf'. The software interface includes a menu bar (Hom, Node, Projec, Files and monitorin, Reference, Resource, Formattin, Search and filte, Navigat, Tools and setting, View, Help) and a toolbar with various monitoring and PDF management options.

Drafting

The screenshot shows the Docear mind map software interface. The central node is "My New Paper". It has several main branches:

- Introduction**:
 - In the past years, many academic search engines evolved such as (links to Google Scholar, Google Scholar Website, Mr. DLib, Original paper of Mr. DLib)
 - Recently, some researchers provided guidelines on optimizing academic papers for academic search engines (they called this "Academic Search Engine Optimization (ASEO)") (links to ASEO, original paper)
 - The same authors discovered that Google Scholar is prone to spam (links to (First?) paper about spam on Google Scholar (authors did various experiments))
 - In this paper we present the results of our research on the vulnerability of Microsoft Academic to spam (and so on...)
- Related Work**:
 - The idea of "optimizing" papers for academic search engines evolved in 2010 (links to ASEO, original paper)
 - Feedback in the academic community was diverse:
 - Pro**: "I'm not a big fan of this area of research [...]. I know it's in the call for papers, but I think that's a mistake."
 - Con**: Motivation why researchers might do academic search engine spam
 - (and so on...)
- Other nodes**:
 - WWW 2013, SIGIR 2013: Potential Conferences to publish the paper
 - talk with supervisor
 - ask John to proof-read (todo)

A citation table is visible in the bottom right corner:

year	2010
title	{A}cademic search engine spam and {G}oogle {S}cholar's resilience against it
authors	{J}oeran {B}eel and {B}ela {G}ipp
journal	Journal of Electronic Publishing
key	Beel2010

The status bar at the bottom shows: "Map Version: docear 1.1 project://1419864231C34AUXEDRIBQ6Y72UJYBDIWXBS/literature_repository/Example%20PDFs/Academic%20search%20engine%20spam%20and%20Google%20Scholars%20resilience%20against%20it"

Publication augmentée

Projet « Enhanced publications » (Jankowski, 2013)

Connexion de l'article

- à des illustrations, graphiques, à ses jeux de données
- à ses sources
- aux corpus de documents apportant les preuves du travail
- à des ressources supplémentaires
- hyperliens et fonctionnalité « recherche web »

Publication augmentée

Evolution de la notion de publication comme des parties interconnectées (disparition du corps principal de l'article ?)

Extrait Définition Wikipédia (nov. 2014)

- * *1 Packaging of related research assets*
- * *2 Web 2.0 reading capabilities*
- * *3 Interlinking research outputs*
- * *4 Re-production and assessment of scientific experiments*
- * *5 References*

Altmetrics

Métrique du « web social » par Priem et Costello
(2010)

Mesure du retentissement des mentions scientifiques
dans les médias sociaux

- Réseaux sociaux
- Microblogging
- Blogs, News
- Téléchargement
- Gestionnaires de références bibliographiques

Mesure des usages ?

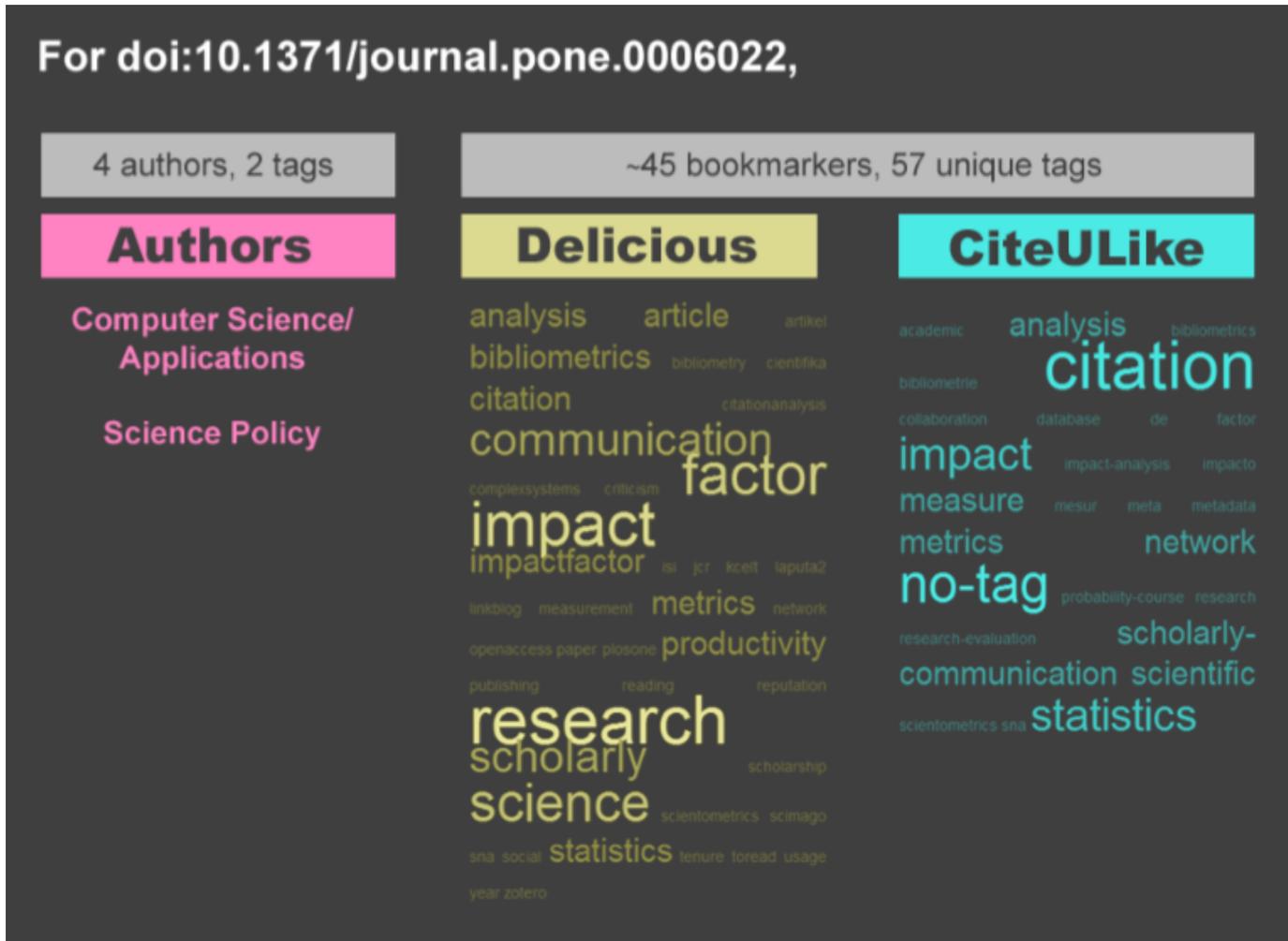
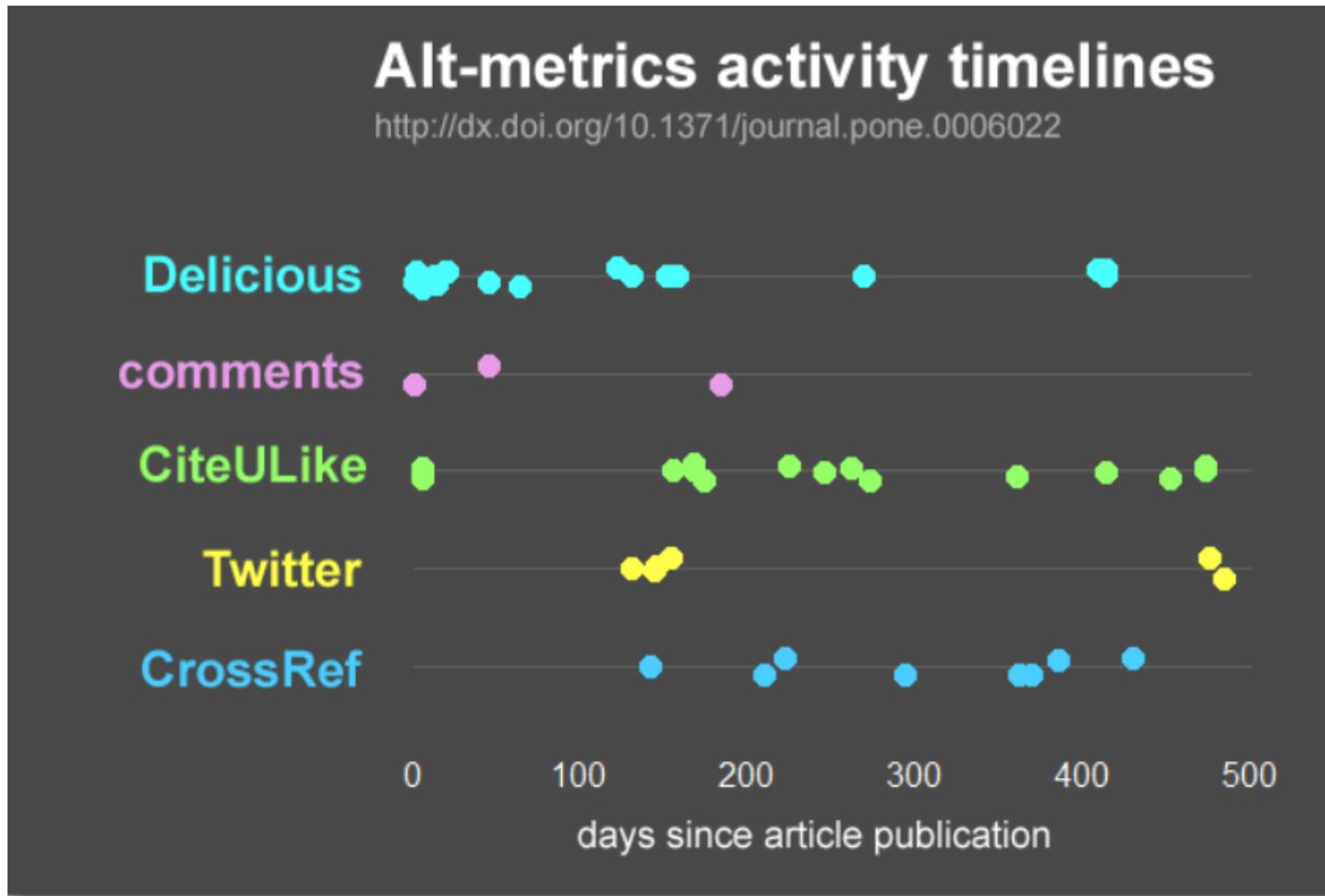


Image : Jason Priem)

Mesure du web 2.0



(Image : Jason Priem)

Altmetrics

Elargissement de l'évaluation à d'autres types de publics et donc élargissement du « filtrage collaboratif » qui permettrait d'améliorer la « trouvabilité » des publications

Etude d'une éventuelle relation entre indicateurs de citation de revues et altmetrics sur 500 229 publications (Costas et al., 2014)

- Présence élevée d'altmetrics (19% pour les sciences de la vie et médecine) néanmoins réservée aux publications récentes
- Corrélation faible entre taux de citation et altmetrics

L'article scientifique connecté

Constat de la multiplication des fonctionnalités logicielles liées à l'acte de lecture de l'article scientifique en amont et en aval de l'acte de publication

Une nouvelle direction : améliorer le référencement

Publication augmentée = promesse de l'optimisation de l'indexation par les moteurs de recherche ?

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JOURNAL OF MANAGEMENT STUDIES

A Prescriptive Analysis of Search and Discovery[†]

James O. Fiet [✉](#)

First published: 19 February 2007 [Full publication history](#)

DOI: 10.1111/j.1467-6486.2006.00671.x

[Citing literature](#)



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(fiet@louisville.edu).

Abstract

ABSTRACT I develop a prescriptive



Volume 44, Issue 4
June 2007
Pages 592-611

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work gets
seen, read
and cited

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Conclusion

Double constat de modifications de la lecture

- Vers une lecture de consultation contrainte par des effets communicationnels : « lecture industrielle »
- Les nouveaux LGRB intègrent des fonctionnalités d'écriture (lecture enrichie)

Altmetrics : tentatives de relier la mesure de la « lecture industrielle » aux indicateurs de citation des revues

Publication augmentée

- Vers un éclatement du noyau de la publication (éclatée en fragments mesurables ?)
- Nouveaux acteurs éditeurs

Repères biblioweb

Aarseth, E. *Cybertext: Perspectives on Ergodic Literature*, The Johns Hopkins University Press, 1997

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