Total-Impact

2011
PHP, Python, Javascript

Total-Impact is a Web service measuring the diverse impact\(^a\) of several types of research artifacts across the Web. It allows users to create collections of identifiers of research papers, datasets, slides, software projects and to generate reports of their respective impact in social media, blogs, wikis and other online scholarly outlets. The concept was originally hacked at the Beyond Impact Workshop\(^b\). The project is currently led by Heather Piwowar\(^c\) and Jason Priem\(^d\) and is funded by the Alfred P. Sloan Foundation.

Facts & figures

The code is released under the MIT License and is available on GitHub. Total-Impact is one of the top 10+1 applications shortlisted for the Mendeley-PLoS Binary Battle in November 2011. It tweets from @totalimpactorg.

\(^a\)http://altmetrics.org
\(^b\)http://www.beyond-impact.org/
\(^c\)http://researchremix.wordpress.com/
\(^d\)http://jasonpriem.org/
Notabilia

2011
Flash, Flare, JQuery

Notabilia is an interactive visualization of the 200 longest Article for Deletion discussions in the English Wikipedia. It’s the result of a collaboration with Moritz Stefaner\(^a\) (visualization) and Giovanni Luca Ciampaglia\(^b\) (data and analysis) and it was launched on the occasion of the 10th anniversary of Wikipedia.\(^c\) Article for Deletion discussions are represented by a thread starting at the bottom center of the screen. Each time a user recommends to keep, merge, or redirect the article a green segment leaning towards the left is added. Each time a user recommends to delete the article a red segment leaning towards the right is added. As the discussion progresses, the length of the segments as well as the angle slowly decay. Further analyses of deletion discussions in Wikipedia are available in this paper.\(^d\)

Facts & figures

Notabilia has been featured in BoingBoing, FlowingData, Co.Design (‘Infographic of the day’), Visualizing.org, Information Esthetics, DataVisualization.ch, NetzPolitik, BigThink, Bright Magazine (38/2011), Page Magazine (6/2011), Information Architects, Zooz Magazine and PopTech.

It was part of the InForm exhibit (2011) at the Adobe Museum of Digital Media and of the FutureEverything Art Exhibition (2012). It was listed by Co.Design among the ‘22 best infographics of 2011’ and shortlisted for the Information is Beautiful Awards (2012)

\(^a\)http://moritz.stefaner.eu
\(^b\)http://www.inf.usi.ch/phd/ciampaglia
\(^c\)http://ten.wikipedia.org
\(^d\)http://nitens.org/docs/qteso10.pdf
ReaderMeter.org

2010-present
PHP, JQuery, JSON

ReaderMeter.org is a Web app visualizing real-time author and article-level metrics for scientific papers based on readership data. It queries the Mendeley API\(^*\) for articles matching a given author string. It then parses the response and generates a report with several metrics quantifying the impact of an author’s scientific production based on its consumption by a large population of readers (the 1.8m-strong Mendeley user base). Readership metrics can be drilled down so as to display the scientific discipline, academic status and geographic location of readers of an individual publication. A JSON interface exposes author statistics in a machine-readable format and allows further reuse of this data under a CC-BY-SA 3.0 license.

Facts & figures

ReaderMeter was officially launched at Science Online London 2010\(^b\). It was the first application to build on the Mendeley API as part of a public Web service and the first proof-of-concept altmetrics application. As of August 2012, it has generated 1.7M+ publicly indexed, CC-licensed reports. It has been featured on the Wall Street Journal (Tech News), the Times Higher Education, the Journal of Informetrics, the Oxford Internet Institute’s report on the Future of Web Archives, TechCrunch, The Next Web, ProgrammableWeb (‘Mashup of the Day’), GigaOM, Library Journal, KnowledgeSpeak and Killer Startups. It is one of the top 10+1 applications that could impact science, shortlisted for the Mendeley-PLoS Binary Battle in November 2011.

\(^a\)http://dev.mendeley.com
\(^b\)http://www.scienceonlinelondon.org
Group Trackr

2007-present
PHP, Python, Javascript, SQL

**Group Trackr** is a Web service designed to track and analyse demographic and activity metrics for public Flickr groups. It pulls data from the Flickr API\(^a\) on a daily basis and generates analytic reports in a variety of formats. Graphs displaying recent group activity are updated on a daily basis and can be exported as widgets. Once a group is tracked, a detailed group activity report is generated with several performance indicators. Group growth data can also be syndicated via feeds or downloaded as CSV. The service includes an internal search engine and generates dynamic maps of the ‘flickrsphere’ based on individual group metrics.\(^b\) It allows group admins to register to the service in order to monitor the temporal evolution of their groups via a dedicated dashboard.

**Facts & figures**

The project started in 2007 and has been partly funded since 2008 by FP6 PATRES project\(^c\) as a tool to obtain data for a series of empirical studies on online group dynamics. As of december 2009, it tracks the daily growth of more than 15K groups and counts 4K registered users.\(^d\) It currently attracts an average of 30K visits per month and serves 30Gb of traffic per month. It has been featured in popular social media outlets such as Lifehacker, Programmable Web (‘Best new mashup’), Computational Aesthetics, Flickrbits, Search Engine Journal and the Flickr App Garden.

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\(^a\) [http://www.flickr.com/services/api](http://www.flickr.com/services/api)

\(^b\) [http://dev.nitens.org/flickr/group_trackr.php?compare](http://dev.nitens.org/flickr/group_trackr.php?compare)

\(^c\) [http://www.patres-project.eu](http://www.patres-project.eu)

\(^d\) [http://dev.nitens.org/flickr/group_trackr.php?about](http://dev.nitens.org/flickr/group_trackr.php?about)
WikkaWiki

2004-present
PHP, Javascript, SQL, XML

WikkaWiki is a flexible, standards-compliant and lightweight wiki engine written in PHP and using MySQL to store pages. Designed for speed, extensibility, and security. Released under the GPL license.

Facts & figures

I contributed to the project as a developer (2004-2006) and since 2006 as project leader, coordinating a team of 9 developers. a WikkaWiki is currently among the most popular open source wiki engines, b it has a large userbase, a thriving community of contributors and a regular release cycle (2-3 upgrades per year c). It powers thousands of wikis in 37 languages d and is used as a lightweight knowledge management system by large companies such as Apple, IBM, Alcatel, ABN Amro, HSBC, universities (including Harvard, MIT, CalTech, UCLA, GMU, ETH Zürich) or scientific consortia (such as the Global Biodiversity Information Facility and Visioneer).

a http://www.ohloh.net/p/wikka/contributors
b http://www.wikimatrix.org/statistic
c http://blog.wikawiki.org/category/releases
d http://wikawiki.org/WikkaSites
IJN Library Management System

2003
PHP, Javascript, SQL

The IJN Library Management System is a software designed to manage the electronic catalogue, loans and users for the Jean Nicod Institute’s library. It features a browsable public interface to the catalogue, with search and filter options and a list of recent acquisitions; an interface to borrow and return books using barcodes generated by the system; a backend allowing the library administrator to manage new additions and users, generate barcodes for users and books, set automatic reminders and notifications via email; display general usage statistics.

Facts & figures

The system and its documentation were commissioned by the Jean Nicod Institute\(^a\) in 2003 and they are currently still in use for the daily management of the library. As of December 2009 the library has a userbase of ca. 300 registered users and 2000 bibliographic records.

\(^a\)http://www.institutnicod.org
IJN Content Management System

2002
PHP, Javascript, SQL

The IJN Content Management System is a software designed to manage the database-driven website of the Jean Nicod Institute (Paris). It includes a backend that allows the webmaster to manage information about users and activities of the institute in French and English and to maintain an archive of former members and activities. It integrates the user database with the library management system.

Facts & figures

The system was commissioned by the Jean Nicod Institute in 2002 and is currently still in use for the daily management of the IJN website.

http://www.institutnicod.org
S&M Content Management System

2002
PHP, Javascript, SQL

The S&M Content Management System is a software designed to manage the database-driven website of the French Sémantique and Modélisation research network. The purpose of the system is to coordinate researchers from 20 French institutions and labs\(^a\) participating in a number of joint research activities. The CMS includes a backend that allows the administrator to manage information about participants, research tracks, research sub-projects and labs, each of which could stand in many-to-many relations with each other.

Facts & figures

The CMS was commissioned by the coordinator of the S&M research network in 2002 and is currently still in use for the daily management of network activities.

\(^a\)http://semantique.free.fr/main.php?page=e
Programming skills

Scripting languages: PHP, Python, shell-script, JavaScript, ActionScript • Markup: XHTML, CSS, XML, XSD, JSON, microformats • Query languages: SQL • Statistical analysis: Mathematica • Social Network analysis: NetworkX, Pajek, Gephi • Revision control: CVS, Subversion, Git, Mercurial • Digital typesetting: TeX, \LaTeX, Xe\LaTeX

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