

Link-Checking the E-Journal Portal: Trust, But Verify

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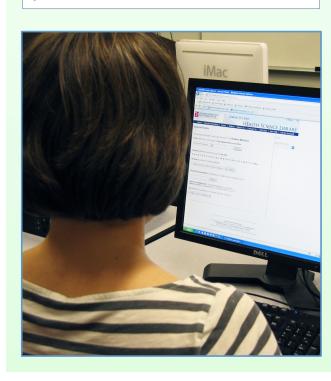
Question

Can an academic library proactively check the validity of links provided by a third-party e-journal portal?

Setting

The UNT Health Science Center serves more than 1,500 students in biomedical sciences, public health, allied health, and medicine.

Lewis Library provides access to more than 20,000 iournals online.



Methods

Using Excel spreadsheets, text files, and the free Xenu Link Sleuth software, we developed a procedure for testing the links provided through our e-journal portal:

- 1. Download an Excel file containing the links from the e-journal portal vendor.
- 2. Remove all data except the URLs and, using Find and Replace, strip out the proxy strings within URLs. Including proxy strings caused the linkchecking process to exceed the proxy software's connection limits.
- 3. Divide the URL list into smaller groups of approximately 5,000. If the files were too large, Link Sleuth would run but would fail to generate a
- 4. Save the resulting URL lists as text (.txt) files. This was necessary in order to use Link Sleuth's "Check URL list" function; it would not process data within Excel files.
- 5. To prevent checking beyond the URLs provided, set the Maximum Level in the Link Sleuth Options to zero. Then run Link Sleuth against each text file and generate a report.
- 6. Using the Link Sleuth report and the original Excel file, match up broken links with titles and ISSNs.
- 7. Verify the broken links and resolve them. We handled these in one of several ways:
- · Directly replace the URL used in our e-journal portal with a functioning one.
- Provide a functional URL to the e-journal portal vendor and ask them to correct their database.
- Simply deactivate the link in the e-journal portal. This is typically used for journals that have ceased publication or that have moved from a free site to a commercial site.

Results

Each time URLs were checked, broken ones were found; most of them were associated with freely available journals. In three checks of URL files generated several months apart, a total of 57 journals were found to have broken links. The journal error rates for the three tests were .06%, .03%, and .06%.

In addition to those for e-journals, we found that broken links were being generated for a significant portion of the titles within a single newspaper database. Further investigation revealed problems with both the links and the title list. By working with both the database publisher and the e-journal portal provider, these problems were largely corrected.

Report from Link Sleuth

Broken links, ordered by link:

http://bjoc.beilstein-journals.org/articles/browse.asp
error code: 404 (not found), linked from page(s):

http://bjp.rcpsych.org/supplements.shtml
error code: 404 (not found), linked from page(s):

http://brain.oxfordjournals.org/
error code: 12002 (timeout), linked from page(s):

http://brain.oxfordjournals.org/archive error code: 12002 (timeout), linked from page(s):

http://brain.oxfordjournals.org/archive/

http://cebp.aacrjournals.org/search
error code: 12002 (timeout), linked from page(s):

http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1268-7731 error code: 404 (not found), linked from page(s):

http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1467-8721 error code: 404 (not found), linked from page(s):

http://www.apfmj-archive.com/archive.htm
error code: 12007 (no such host), linked from page(s):

http://www.clinicalcardiology.org/productcart/pc/previous.html error code: 403 (forbidden request), linked from page(s):

http://www.ehealthinternational.org/articles/browse.asp error code: 404 (not found), linked from page(s):

Conclusions

We found that periodically checking our e-journal portal links is a feasible project that can reduce the number of broken links being delivered to our patrons, thereby improving their online experience with the Library. We also demonstrated the utility of this process for identifying linking problems at the database level. Though the broken links represent a very small percentage of the total, we know from experience that our patrons do find and report them. Therefore, we plan to continue the checks on a quarterly basis.

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	URLs Checked	Number Broken	Percentage
March	36,384	23	.06%
July	38,630	104 (12 journals, 92 newspapers)	.27% (journals = .03%)
Sept	39,189	22	.06%



Journals with Broken Links

American Indian and Alaska Native Mental Health Research

Annals of General Hospital Psychiatry Archives of Gastroenterohepatology

Asia Pacific Family Medicine

Beilstein Journal of Organic Chemis

British Journal of Psychiatry, Supplen Canada Communicable Disease Report : CCDR weekly

Clinical Cardiology

Current Allergy & Clinical Immunology Current Directions in Psychological Science

Ehealth International

Foot and Ankle Surgery Genes to Cells : Devoted to Molecular & Cellular Mechanisms

Herpes

Humanidades Médicas

Indian Journal of Nuclear Medicine

Iranian Journal of Pharmacology & Therapeutics Journal of Indian Academy of Oral Medicine and Radiology

Journal of Indian Prosthodontic Society Journal of Oral and Maxillofacial Surgery

Journal of the Anatomical Society of India

Journal of the Pakistan Medical Association

Nursing Outlook

Open Access Rheumatology : Research and Reviews

Open Access Surgery

Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontics

Otolaryngology--Head and Neck Surgery

Planning for Higher Education

PMC Physics. A

PMC Physics. B Reumatologia

Revista Archivo Médico de Camague Revista Cubana de Enfermería

Revista Cubana de Estomatologia Revista Cubana de Hematología, Inmunología y Hemoterapia

Revista Cubana de Higiene y Epidemiología

Revista Cubana de Investigaciones Biomédicas

Revista Cubana de Medicina Revista Cubana de Medicina General Integra

Revista Cubana de Medicina Militar

Revista Cubana de Medicina Tropical

Revista Cubana de Obstetricia y Ginecología

Revista Cubana de Oftalmologia Revista Cubana de Ortopedia y Traumatología

Revista Cubana de Pediatria

Revista Cubana de Plantas Medicinales

Revista de Salud Animal

Revista Mexicana de Reumatologi

Texas Medicaid Bulletin

Viewbox

World Psychiatry