B. J. Kaplan. Implications of LIS Instructors' E-resource Selections for Student Privacy Interests and Academic Library Values. A Master's paper for the M.S. in L.S. degree. April, 2014. 158 pages. Advisor: Rebecca Vargha

This paper reviews materials from Fall 2013 courses and others at the School of Information and Library Science at the University of North Carolina-Chapel Hill to assess (a) how students' privacy interests were affected by instructors' choice of electronic resources and (b) the extent to which instructors utilized university libraries as a means through which to access resources.

Instructors choose resources and means of access that compromise students' privacy interests; students are directed to access third party websites, thereby agreeing to these websites' privacy policies and terms of service, which results in these websites inserting dataveillance mechanisms into students' computers' and continuously harvesting their personal information Nor do instructors seem to utilize University Libraries as a resource to the greatest extent possible, thus impeding University Libraries' ability to assess value.

Headings:

College and university libraries -- Reference services

Information science – Study & teaching

Library education

Library schools – curricula

Privacy

Reference services – Statistics

IMPLICATIONS OF LIS INSTRUCTORS' SELECTION OF E-RESOURCES FOR
STUDENT PRIVACY INTERESTS AND ACADEMIC LIBRARY VALUES

by
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of the School of Information and Library Science
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I. Background

The curriculum of the School of Information and Library Science ("SILS") at the University of North Carolina-Chapel Hill ("UNC") is sprinkled with references to/brief discussions of two aspects of privacy: the privacy interests of patrons,[1] which we are told is sacrosanct,[2] and privacy interests of human research subjects, the primacy of which is hammered home at least one required course[3] and throughout the term when research for the Masters' papers or projects is conducted;[4] further, students learn about UNC's Institutional Review Board ("IRB") and are cautioned to complete the IRB course and receive IRB approval[5] if the paper or project has the slightest connection to research involving human subjects.

However, there is one aspect of privacy that seems wholly overlooked: the privacy interests of SILS students (unless they are participants in graduate research projects), even though these students are also library patrons. Even in courses focused on

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[1] "Patrons" rather than "users" will be used herein to describe users of library materials.

[2] Principle III of the Code of Ethics of the American Library Association, originally adopted in 1939, and amended in 1981, 1995, and 2008, states: "We protect each library user's right to privacy and confidentiality with respect to information sought or received and resources consulted, borrowed, acquired or transmitted." Code of Ethics of the American Library Association, http://www.ala.org/advocacy/proethics/codeofethics/codeethics (last visited Mar. 23, 2014). Library science students are introduced to the Code of Ethics in at least one of their required courses (INLS 501, Reference).

[3] INLS 780, Research Methods (for students entering SILS before August 2013).

[4] INLS 992, Master Paper.

[5] INLS 780; Planning the Paper, no. 4, http://sils.unc.edu/current-students/masters-students/masters-paper/guidelines (last visited Mar. 23, 2014). Point number 4 includes a link to UNC's IRB proposal form and advises that Institutional Review Board approval is required before a student can conduct surveys using human respondents or conduct interviews with human subjects.

teaching[6] or required for the school library media specialization,[7] publicly-available course materials did not mention student privacy interests or the Family Educational Rights Privacy Act ("FERPA").[8]

This paper focuses on this last-mentioned aspect of privacy – students' privacy interests – and the way in which SILS instructors' selection of electronic resources (including reading materials, software, and means of access) affect them/how SILS instructors' selection of electronic resources (including reading materials, software, and access platforms/means of access reflected faculty awareness/concern/recognition of those privacy values.

It had already been observed that SILS instructors were not required to use Sakai[9] to create or house their classes' electronic presences or materials, or to access reading materials[10] through the UNC library system ("University Libraries"). Thus, the research objective was to determine the which resources were chosen, how instructors indicated they were to be accessed, and how those choices implicated students' privacy, focusing on whether or not those choices required students to share personal information (whether identifiable or technically not identifiable) third parties, whether these be for-profit entities, professional organizations, or members of the public cruising/surfing/using the Internet.

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[6] INLS 502, User Education; INLS 889 Seminar in Teaching Practice.

[7] INLS 530 Young Adult Literature, INLS 534 Youth and Technology in Libraries, 732 Children's Literature, 745 Curriculum Issues and the School Library, 796 Field Experience in School Library Media, a diversity course. SILS' school library media program prepares graduates to meet the North Carolina state licensure requirements.

[8] 20 U.S.C. § 1232g; 34 C.F.R .Part 99

[9] The Sakai Collaboration and Learning Environment, described as a "full-featured system supporting technology-enabled teaching, learning, research and collaboration for education." Sakai CLE, https://sakaiproject.org/node/2260 (last visited Mar. 23, 2014).

[10] Excluding, of course, hard-copy materials, such as textbooks, that students were required to buy, rent, or otherwise obtain.

Publicly-available information about the SILS courses for the Fall 2013 term was used as the research corpus. For purposes of this paper, "publicly-available information" means those materials accessible without being on the UNC campus, ONYEN login, or other password, since that is the universe of information readily available to students and prospective students at the time they determine whether or not to enroll in a particular SILS course or a SILS program.

Results fell into two principal categories of selections, both of that compromised student privacy interests: first, websites that required students to register for accounts with third party websites in order to complete mandatory assignments or participate in mandatory class discussions or commentary and that also collected students' personal information via surveillance (or, as Roger Clark so aptly described it just over a quarter-century ago, "dataveillance"[11]) by means of tracking devices placed on their computers, and second, websites that did not require registration but nonetheless collected students' personal information in the same manner. Some of these websites stated that this collection occurred, others did not. A third category comprised websites best characterized as passive in that they did not appear to be collecting information, though given the many means of data collection possible today and the difficulty of detection (described in greater detail in Part III below), it was impossible to be certain.

Though the original review did not set out to measure the extent to which SILS instructors obtained electronic resources through University Libraries, its electronic databases, and its proxy server, rather than through third parties, However, it did reveal some surprising results – 40% of the e-resources for which students were sent outside the

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[11] Roger A. Clarke, *Information Technology and Dataveillance,* 31 COMMUNICATIONS OF THE ACM 498 (1988).

system were readily available within it. Lack of utilization of University Libraries might suggest a lack of regard for, or failure to integrate, a mainstay of LIS teaching, namely, the support for libraries (where, after all, many SILS graduates work) into actual practice. It also undermines University Libraries' efforts to analyze how its resources are used; in an age where libraries must continuously prove their value via performance measures, SILS instructors should least be practicing what they preach. Furthermore, students' privacy would be safeguarded by accessing those resources via the University Libraries' proxy server, since the third party websites would register only an IP address it provided – not the IP address of the actual computer or other means of electronic access used by students.

In short, the findings suggest a disconnect, or dissonance, between privacy rhetoric and privacy practice, and between reciting how valuable libraries are and showing this value through utilization of their resources.

II. A Very Brief History of Information Privacy in the Information Age

Although computers have been around since ENIAC,[12] only in the 1970s could information, including personal information, be collected on any kind of grand scale.[13] In the early 1970s, then-Secretary of Health, Education, and Welfare Elliot L. Richardson made a public interest determination that

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[12] Steven Levy, *A Brief History of the ENIAC Computer,* SMITHSONIAN (Nov. 2013), available at http://eds.a.ebscohost.com.libproxy.lib.unc.edu/ehost/detail?vid=4&sid=7e9d89ab-da63-4865-b0c3-742611ba1950%40sessionmgr4005&hid=4208&bdata=JnNpdGU9ZWhvc3QtbGl2ZSZzY29wZT1zaXRl#db=a9h&AN=91685011.

[13] Berkeley Privacy Office, *FIPPs Fair Information Practice Principles: The Gold Standard for Protecting Personal Information* (2012), https://security.berkeley.edu/sites/default/files/uploads/FIPPs.pdf) (last visited Mar. 21, 2014).

The use of automated data systems containing information about individuals is growing in both the public and private sectors . . . . .The Department itself uses many such systems, and in addition, a substantial number . . . are used by other organizations, both public and private, with financial or other support . . .from the Department. . . . .At the same time, there is a growing concern that automated personal data systems present a serious potential for harmful consequences, including infringement of basic liberties. This has led to the belief that special safeguards should be developed to protect against potentially harmful consequences for privacy and due process.[14]

To investigate these concerns, Richardson he established an Advisory Committee on Automated Personal Data Systems,[15] which in its 1973 report entitled "Records, Computers, and the Rights of Citizens" ("HEW Report") recommended that:

•There must be no personal data record-keeping systems whose very existence is secret.

•There must be a way for an individual to find out what information about him is in a record and how it is used.

•There must be a way for an individual to prevent information about him that was obtained for one purpose from being used or made available for other purposes without his consent.

•There must be a way for an individual to correct or amend a record of identifiable information about him.

• Any organization creating, maintaining, using, or disseminating records of identifiable personal data must assure the reliability of the data for their intended use and must take precautions to prevent misuse of the data.[16]

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[14] U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, RECORDS, COMPUTERS, AND THE RIGHTS OF CITIZENS: REPORT OF THE SECRETARY'S ADVISORY COMMITTEE ON AUTOMATED PERSONAL DATA SYSTEMS, DHEW PUB. NO. (OS) 73-94 (1973) (hereafter "HEW Report"), Preface (unnumbered page preceding p. ix).

[15] *Id.*

[16] *Id.*, pp. xx-xxi.

These principles, though not enforceable *per se*, have been incorporated into the privacy laws of the United States; in fact, their essence was already part of the Fair Credit Reporting Act of 1970.[17] These principles were incorporated into the signature privacy laws of the 1970s, 1980s, and 1990s, beginning with in the 1974 Privacy Act,[18] which "embraced a full set of FIPPS to protect personal information."[19]

Thus, by the time that the Federal Trade Commission ("FTC") articulated five FIPPs (notice, choice, access, security, and accountability) as the framework for self-regulatory and regulatory initiatives,[20] a leading commentator could well argue that its "market based approach to privacy in the electronic commerce sphere"[21] was a "a departure from a tradition of privacy laws,"[22] which Congress had already extended to the on-line world with the Children's On-line Privacy Protection Act of 1998.[23] Moreover, as Turow states:

> The [FTC]'s approach omitted several important data protection principles that were recognized by the Organization for Economic Cooperation and Development Guidelines ("OECD"), including the concepts of "data minimization," which requires companies to restrict the amount of personal information collected to only that which is necessary for a transaction, and "purpose specification," which requires companies to have a clear and legitimate purpose for data collection."[24]

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[17] 15 U.S.C. §§ 1681, 1681a-1681x (1970); Joseph Turow, Chris Jay Hoofnagle, Deirdre K. Mulligan, Nathaniel Good & Jens Grossklags, *The Federal Trade Commission and Consumer Privacy in the Coming Decade,* 3 I/S: J. L. & POL'Y FOR INFO. SOC'Y 723, 728 (2007-08).

[18] 5 U.S.C. §552a (1974).

[19] Turow *et al.*, *supra* note 17.

[20] *Id.*.

[21] *Id.*

[22] *Id.*

[23] 15 U.S.C. §§6501-6506 (1998). It could be argued that the PATRIOT Act of 1998 eviscerates all privacy for personal information, but that is a topic for another paper.

[24] Turow *et al.*, *supra* note 17.

Turow believes that "[t]he absence of these two principles has led firms to collect

extraneous information and to repurpose information without consumer consent. . . ."[25] –

in other words, to the position consumers find themselves today.

How did they wind up in this position? A detailed recitation of on-line history,

from ARPANET to Internet to World Wide Web is beyond this paper's scope; suffice it

to say that surfing the public web was at first a passive activity: there were no search

engines, and one had to know a website's name to access the information it contained.[26]

One went to specific website for specific purposes, and then signed off – given the cost

of access, spending one's life online was a costly proposition.

Times have changed. Google has eclipsed the early search engines such as

Altavista and even Yahoo!. Netscape introduced cookies to support on-line shopping

carts in 1994[27] (the same year Amazon opened), and now one need not have a destination

or even a thought-through search. Google saves us the trouble of thinking by anticipating

our searches and thoughtfully filling in search terms for us – and then delivering tailored

results. It does this by analyzing the millions of searches done on its site every day and

by analyzing the searches we ourselves have done in the past – because it "remembers"

us from our previous searches. And it is not only Google; every website with products or

services to sell does it. How? By inserting small bits of code/files – and files other code

strings with less warm-and-fuzzy names – onto the hard drives of personal computers to

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[25] *Id.*

[26] When the first time the author worried about online privacy was in 1998, when an acquaintance put up his first website, including on it a photo of his two dogs and the author, who told him to remove the photo or blur out that portion of the image, as the idea of it floating around cyberspace did not sit well. His response was to the effect of "don't be ridiculous, no one could find it; the only way anyone would know it was even there is if I told them *and* gave them the website address."

[27] David M. Kristol, *HTTP Cookies: Standards, Privacy, and Politics*, 1 ACM TRANS. INTERNET TECHNOL. 151, 158 (2001).

record and store information about individual online habits. Table 1 identifies the most

commonly-discussed tracking mechanisms in the literature.

Table 1

Term	Purpose and privacy implication
HTTP cookie	4KB capacity file[28] placed in browser to help websites recognize users; also used to track users via historical data about them saved in the file.[29] Expires at end of session by default unless programmed otherwise; relatively simple to erase by clearing history or cache or using browser option to delete private data.[30]
Flash cookie (local shared object, LSO)	100KB capacity file placed not in browser but elsewhere on hard drive so that all browsers used access the same LSO (and any Flash widgets on the hard drive). Permanent by default; unaffected by deletion of HTTP cookies.[31] Can be and has been used to "respawn" deleted HTTP cookies without users' knowledge.[32]
Beacon (clear GIF, web bug, pixel tag, tacking bug)	Usually only 1x1 pixel; similar to cookie concept; enables user information to be sent to third party (e.g., behavioral advertising analytics company); invisible to end user; tracks who is viewing web page or email containing it by sending information to server, information can include user's IP address, webpage URL of image containing bug, time of viewing, user's browser type, and whether or not browser already has cookie.[33]
HTML5	5MB capacity file placed in browser; permanent by default until deleted by website or user.[34]
Browser fingerprinting	Server-side algorithm that scans browser to determine if its stored information "matches" other known information "fingerprint."[35]

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[28] Ashkan Soltani, Shannon Canty, Quentin Mayo, Lauren Thomas & Chris Jay Hoofnagle, *Flash Cookies and Privacy,* AAAI SPRING SYMPOSIUM: INTELLIGENT INFORMATION PRIVACY MANAGEMENT (Stanford: 2010) 1-5.

[29] Delfina Malandrino & Vittorio Scarano, *Privacy Leakage on the Web: Diffusion and Countermeasures,* 57 COMPUTER NETWORKS 2833, 2836 (2013).

[30] Soltani et al., *supra* note 28, at 1.

[31] *Id.;* Mika D. Ayenson, Dietrich J. Wambach, Ashkan Soltani, Nathaniel Good, & Chris Jay Hoofnagle, *Flash Cookies and Privacy II: Now with HTML5 and ETAG Respawning,* WORLD WIDE WEB INTERNET AND WEB INFORMATION SYSTEMS (2011), at 6, available at http://ssrn.com/abstract=1898390.

[32] Soltani et al., *supra* note 28.

[33] Subrata Acharya & Sara Gorman, *Reclaiming Information Privacy Online*, 4 CAA UNDERGRADUATE RESEARCH JOURNAL (2013), at 10, available at http://scholarworks.gsu.edu/caaurj/. *See also* https://www.privacyassociation.org/resource_center/privacy_glossary (last visited Mar. 25, 2014) (note prominent placement of cookie use notice).

[34] Ayenson, *supra* note 31.

[35] Peter Eckersley, *How Unique is Your Web Browser?*, PRIVACY ENHANCING TECHNOLOGIES: 10TH INTERNATIONAL SYMPOSIUM, PETS 2010), 1-18, available at http://www.springerlink.com/index/0J1M07443GU00H07.pdf.

Table 1 (continued)	
Purpose and privacy implication	
Etag (entity tag)	Mechanism used by webservers and browsers to validate cached components by comparing Etag of the cached version of a webpage with Etag in the headers of same webpage when latter is next visited; if Etag is the same, browser assumes page content is, too.[36]

Lou Montulli, the developer of the web cookie, was concerned about how they were being used as long ago as 2000: "DoubleClick and dozens of other Web marketers are using cookies in ways he never intended. But he admits his design gave an unintended boost to tracking efforts."[37] As Mittal explained:

> Cookies and web bugs have access to primary page URLs, which may leak pieces of personal data such as login name or data form information. Third parties may process this information and associate it with the browsing profile and unique string for the user. This association is a serious threat to user privacy *because it may de-anonymize the browsing history profile that was otherwise only connected to an alphanumeric string. The browsing profile newly associated with a specific person and/ or her demographic information might be sold or publicized at the discretion of a tracking company*, resulting in a serious breach of user privacy.[38]

After Soltani *et al.* disclosed how advertisers were using Flash cookies to uniquely identify users and continuously gather data about their online activities, Adobe took steps to rectify the situation and "**condemn[ed] this type of misuse of Local Storage. We**

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[36] STEVE SOUDERS, HIGH PERFORMANCE WEB SITES: ESSENTIAL KNOWLEDGE FOR FRONT-END ENGINEERS 89 (2007).

[37] Thomas E. Weber, *The Man Who Baked the First Web Cookies Chews over Their Fate*, WALL ST. J., Feb. 28, 2000, at B1, available at
http://search.proquest.com.libproxy.lib.unc.edu/docview/398751847?accountid=14244.

[38] Sonal Mittal, *User Privacy and the Evolution of Third-party Tracking Mechanisms on the World Wide Web*, May 18, 2010, at 14, available at
http://papers.ssrn.com.libproxy.lib.unc.edu/sol3/papers.cfm?abstract_id=2005252; (citing Birgit Pfitzmann & Michael Waidner, *Privacy in Browser-Based Attribute Exchange*, PROCEEDINGS OF THE 2002 ACM WORKSHOP ON PRIVACY IN THE ELECTRONIC SOCIETY 52 (2002), available at
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2005252 (emphasis added)).

encourage developers to use technology responsibly, and certainly not in ways that

circumvents the user's intentions or reasonable expectations."[39] Nonetheless, as

Commissioner Pamela Jones Harbour noted:

> For every company crafting a response that addresses notice, choice,
> or transparency, there are several more firms trying to parse and evade
> the intent of Commission guidance. Flash cookies and other
> technology largely circumvent cookie controls. We may soon long for
> the day when all we worried about were cookies. We have entered a
> digital arms race, and the current outlook is troubling.[40]

Indeed, for although studies show that some internet users take affirmative steps to

protect their on-line privacy the average user is ill-equipped to shield themselves against

ever-evolving means to prevent personal data leakage.[41] Indeed, as Eckersley put it:

> A user seeking to avoid being followed around the Web must pass
> three tests. The first is tricky: find appropriate settings that allow
> sites to use cookies for necessary user interface features, but
> prevent other less welcome kinds of tracking. The second is
> harder: learn about all the kinds of supercookies, perhaps including
> some quite obscure types, and ways to disable them. Only a tiny
> minority of people will pass the first two tests, but those who do
> will be confronted by a third challenge: fingerprinting.[42]

As more fully described in Part IV below, because some SILS instructors list

websites that collect personal information on their syllabi, reading lists, or course

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[39] Adobe Systems Inc., Comments from Adobe Systems Incorporated [sic] – Privacy Roundtables Project No. P095416, Jan. 27, 2010, available at http://www.ftc.gov/policy/public-comments/initiative-309 (emphasis in original).

[40] Commissioner Pamela Jones Harbour, Remarks Before FTC Exploring Privacy Roundtable, Dec. 7, 2009 (Washington, DC), available at http://www.ftc.gov/public-statements/2009/12/remarks-ftc-exploring-privacy-roundtable.

[41] Aleecia M. McDonald & Lorrie Faith Cranor, *Survey of the Use of Adobe Flash Local Shared Objects to Respawn HTTP Cookies*, 7 I/S J. L Y Pol. Info. Soc. 639, 641n.7 (2011-2012); Soltani *et al.*, *supra* note 28; Dennys Marcelo Antonialli, Note, *Watch Your Virtual Steps: An Empirical Study of the Use of Online Tracking Technologies in Different Regulatory Regimes,* 8 STAN. J. CIV. RTS. & CIV. LIBERTIES 323 (2012).; Pedro G. Leon, Blase Ur, Rebecca Balebako, Lorrie Faith Cranor, Richard Shay, and Yang Wang, *Why Johnny Can't Opt Out: A Usability Evaluation of Tools to Limit Online Behavioral Advertising*, ACM PROCEEDINGS OF THE SIGCHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS 589 (2012).

[42] Eckersley, *supra* note 35, at 3.

requirements, SILS students are being forced to share personal information with these websites. Do students care? Unless and until SILS instructors know in advance that every SILS student cares not a whit about his or her personal information being disclosed on the web, they must assume that the answer is yes. A student should not be forced to compromise his or her privacy interests because a majority of the class votes in favor of making or keeping information public (although with respect to the latter and as described in Part IV below, instructors for at least two courses seem to believe otherwise), and even if an instructor firmly subscribes to then-Sun Microsystems president Scott McNealy's "You have zero privacy anyway . . . . Get over it"[43] philosophy, he or she should not be permitted to impose that view on students.

Moreover, studies show that students in this age group do care, once the privacy issues are brought to their attention. Despite lifelong exposure to the Internet, and pre-college instruction in safe internet use, there is a significant gap between what students know (and think they know) and reality. A small number of SILS students are undergraduates, and most of the graduate students enter the Master's program without significant post-college work or life experience. Thus, most SILS students are unlikely to have grasped the scope of threats to their privacy and personally identifiable information to which their online activities expose them.

Concerns about how to manage privacy in an online world have been a topic of concern since Gandy's Panopticon metaphor[44] if not before, but research has tended to focus on each new perceived "unsafe computer practice," as it emerged: inadequate

[43] As quoted in Polly Sprenger, *Sun on Privacy: Get Over It,* WIRED NEWS, Jan. 26, 1999, available at http://web.cs.dal.ca.libproxy.unc.edu.
[44] OSCAR H. GANDY, THE PANOPTIC SORT: A POLITICAL ECONOMY OF PERSONAL INFORMATION (Westview Press 1993).

passwords, computer viruses from e-mail attachments, updating security patches, regular

data backups, firewalls, and security awareness training in academic and business

environments,[45] and then moving on to cyberstalking, predation, and pedophilia.[46] The

college and younger graduate students of today grew up with the networked world and by

the time they got to college had learned, to some extent at least, how to deal with these

highly-publicized issues.

Threats to privacy on a more pervasive scale emerged with the advent of

networked communication, first via chat rooms and then through on-line social

networking sites. Although Facebook was hardly the first of these sites,[47] it fairly rapidly

became the most widely-used.[48] Almost as soon as it was launched in 2004, researchers

were able identified weaknesses, such as unencrypted password transmission, that left the

site vulnerable to breaches of privacy.[49] Its history with regard to user privacy since then

has been no less troubled (and troubling): threats to and breaches of user privacy,

resulting from actions taken without prior notice to users, have occurred with disturbing

regularity; they are generally followed by public outcry, reassuring words from

Facebook's senior management, and sometimes by a partial, and temporary, retreat from

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[45] Faye P. Teer, S.E. Kruck & Gregory P. Kruck, *Empiracal* [*sic*] *Study of Students' Computer Security Practices/Perceptions,* JOURNAL OF COMPUTER INFORMATION SYSTEMS, Spring 2007, at 105 (citations omitted).

[46] Susan B. Barnes, *A Privacy Paradox: Social Networking in the United States,* FIRST MONDAY, Sept. 4, 2006 (2006), http://firstmonday.org.libproxy.lib.unc.edu/ojs/index.php/fm/article/viewArticle/1394 (citations omitted).

[47] A timeline of pre-Facebook social media services is available at Figure 1 in danah boyd & Esther Hargittai, *Facebook Privacy Settings: Who Cares?,* FIRST MONDAY, Aug. 2, 2010.

[48] Chinese social network sites may well have more users in global terms but are not relevant to our instant concerns.

[49] Harvey Jones & José Hiram Soltren, *Facebook: Threats to Privacy*, PROJECT MAC: MIT PROJECT ON MATHEMATICS AND COMPUTING 1, 26 (2005).

the latest step toward the company's philosophy of total openness.[50] Despite these

events, Facebook's envelope-pushing behavior has continued: in October 2012, it

admitted that it had been scanning users' private messages for links.[51]

The adult world, alarmed at the amount of information the next generation

seemed willing to let enter the public sphere, decried this willingness to let it all hang out.

Barnes confounded this assumption when she described a "privacy paradox," wherein

younger people did in fact profess awareness of and concern about privacy issues yet

acted in ways that were perceived as contradicting their stated concerns.[52] Like Barnes,

Acquisti and Gross found a discrepancy between what social network users said about

privacy in general and how they felt about their own online privacy: that Facebook users

were more likely be concerned about other Facebook users' privacy than about their own,

that nearly 77% of respondents to their research survey had not read Facebook's privacy

policy, that 67% mistakenly believed Facebook did not collect information about its users

from other (non-Facebook sources) or combine it with what users revealed on Facebook

(70%), and that 56% believed that Facebook did not share that users' personal

information with third parties.[53]

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[50] Bernhard Debatin, Jennette P. Lovejoy, Ann-Kathrin Horn & Brittany N. Hughes, *Facebook and Online Privacy: Attitudes, Behaviors, and Unintended Consequences,* JOURNAL OF COMPUTER-MEDIATED COMMUNICATION, Oct. 2009, at 84; danah boyd & Esther Hargittai, *supra* note 44.

[51] Emil Protalinski, *Facebook Confirms It Is Scanning Your Private Messages For Links to Increase Like Counters*, THE NEXT WEB (Oct. 4, 2012), http://thenextweb.com/facebook/2012/10/04/facebook-confirms-it-is-scanning-your-private-messages-for-links-so-it-can-increase-like-counters/; Michael Lee , M. (2012, October 5). *Facebook Private Message Issue Raises More Concerns Over Privacy*, ZDNET.COM, Oct. 5, 2012, http://www.zdnet.com/facebook-private-message-issue-raises-more-concerns-over-privacy-7000005287/.

[52] Barnes, *supra* note 46.

[53] Alessandro Acquisti & Ralph Gross, *Imagined Communities: Awareness, Information Sharing, and Privacy on the Facebook* [sic], PROCEEDINGS FROM PRIVACY ENHANCING TECHNOLOGIES WORKSHOP 36, 48 (2006).

Zeynep Tufekci surveyed the privacy attitudes of 70 undergraduate Facebook (and/or MySpace) users in 2006-2007 and found that privacy concerns in this age group were not one-dimensional – *i.e.*, that young adults did not have the privacy concerns that their parents' generation did. She found instead that young adults using social media engaged in a balancing act, weighing the costs of participation (loss or threat of loss of personal privacy) against the benefits of such participation – i.e., of publicity and self-presentation. The privacy paradox, she said, was better understood as a "process of optimization between disclosure and withdrawal."[54]

When Debatin *et al.* surveyed and interviewed U.S. undergraduates about Facebook privacy breaches and their understanding of the threat to their own privacy, online social media had become a pervasive technological presence in the students' lives. The interviews, in particular, "exemplified how deeply Facebook is integrated into daily routines and rituals . . . . it has become an indispensable tool of social capital and connectedness with large numbers of people."[55] This was true even though the previous year, when Facebook launched its Newsfeed feature (which instantly alerted users whenever their Facebook friends updated a profile, posted something new, or in some cases, bought something on a wholly different website), users revolted at their involuntary exposure:

> Facebook is becoming the Big Brother of the Internet[,] recording
> every single move" and "You don't have to know everything your
> friends do and the changes they make . . . . It's kind of creepy.[56]

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[54] Zeynep Tufekci, *Can You See Me Now? Audience and Disclosure Regulation in Online Social Network Sites,* Bulletin of Science, Technology & Society, Feb. 2008, 20, 25.

[55] Debatin et al., *supra* note 50, at 100.

[56] Daniel J. Solove, The Future of Reputation Gossip, Rumor, and Privacy on the Internet 169 (2007) (requoting Anick Jesdanun, *Facebook Feature Draws Privacy Concerns,* Associated Press, Sept. 7, 2006, and citing Dave Wischnowsky, *Facebook Alienates Users,* Chicago Tribune, Sept. 8, 2006).

Facebook is hardly the only online service to engage in online "snooping." As early as

2008, one researcher was already characterizing Google, which he termed "perfect search

engine," as an "an instrument of dataveillance,"[57] noting that the information it was

already collecting from users of its stable of products and services included web queries

for news, maps and map directions, shopping, and which results were clicked; news

preferences, which videos were watched and/or downloaded (Google Player had

technology to monitor video usage even off-site), credit card information for purchases,

Google Book pages read, and information posted in Blogger (Blogspot), including names,

e-mail addresses, phone numbers, birthdays, and other information included in user's

profile).[58]

　　Three surveys of college-age social network users and found that users were

taking advantage of these malleable privacy settings and that at least some were regularly

changing them from the default "all visible."[59] They concluded that social network users

calculated a balance between the costs of disclosing personal information (loss of

privacy) and the benefits of social networking, and that participation was worth the risk.[60]

Nonetheless, Debatin *et al.* found that although students had an understanding of privacy

settings, and made use of them, they had a "skewed sense"[61] of exactly what using those

settings entailed. Further, although the students were aware that there disclosing personal

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[57] Michael Zimmer, *The Gaze of the Perfect Search Engine: Google as an Infrastructure of Dataveillance,* *in* WEB SEARCH 77 (Springer 2008).

[58] *Id.* at 89-90.

[59] Sonja Utz & Nicole C. Kramer, *The Privacy Paradox on Social Network Sites Revisited: The Role of Individual Characteristics and Group Norms*, CYBERPSYCHOLOGY: JOURNAL OF PSYCHOSOCIAL RESEARCH ON CYBERSPACE,
http://cyberpsychology.eu.libproxy.lib.unc.edu/view.php?cisloclanku=2009111001&article=1.

[60] *Id.*

[61] Debatin et al., *supra* note 50, at 100.

information entailed risk, the benefits of being on Facebook outweighed such risks, even if they had actually experienced concrete privacy invasion.[62]

Moreover, Hoofnagle *et al.* found that "the savvy that many attribute to younger individuals about the online environment doesn't appear to translate to privacy knowledge."[63] Norberg *et al.* found that privacy policies were generally ignored or "imbued with many positive, though nonexistent by virtue of their mere presence,"[64] and Hoofnagle *et al.* confirmed this lack of comprehension when they found that young adults consistently believe that existing laws afford far greater privacy protection than is actually the case, with 88% believing that that at least three of the following statements were true:

- If a website has a privacy policy, it means that it cannot share data about you with other companies unless you give the website your permission.

- If a website has a privacy policy, it means that it cannot give your address and purchase history to the government.

- If a website has a privacy policy, it means that it must delete information it has about you if you request;

- If a company violates its privacy policy, it means you have the right to sue the website for violating it;

- If a company wants to follow your internet use across multiple sites on the internet, it must first obtain your permission.[65]

In fact, none of the statements is true.

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[62] *Id.*

[63] Chris Hoofnagle, Jennifer King, Su Li & Joseph Turow, *How Different Are Young Adults From Older Adults When It Comes to Information Privacy Attitudes & Policies?* (2012), at 17, available at http://papers.ssrn.com.libproxy.lib.unc.edu/sol3/papers.cfm?abstract-id=1589864.

[64] Patricia A. Norberg, Daniel R. Horne & David A. Horne, *The Privacy Paradox: Personal Information Disclosure Intentions versus Behaviors*, 41 JOURNAL OF CONSUMER AFFAIRS 100, 120 (2007), available at http://onlinelibrary.wiley.com.libproxy.lib.unc.edu/doi/10.1111/j.1745-6606.2006.00070.x/full.

[65] Hoofnagle *et al., supra* note 63, at 17-18.

Facebook, and virtually every other online service, has learned to keep its visible part – the "innocent-looking user profiles and social interactions"– separate from the invisible part, the "invasion of privacy and aggregation of data, as well as its potential exploitation by third parties."[66] This invisible, submerged part of the iceberg (to which these researchers likened Facebook) "is constantly fed by the data that trickle down from the interactions and self-descriptions of the users in the visible part."[67]

Aggrego-monster is also fed by what Krishnamurthy, Naryshkin, and Wills termed "leakage" of personally-identifiable information – which they define as a user's name (full name, maiden name, and mother's maiden name), personal identification number (e.g., Social Security number), address, telephone numbers, personal characteristics (via photos, x-rays, or fingerprints), IP address, and property identification numbers such as VINs[68] – not just from Facebook but also from sites including LiveJournal, Twitter, LinkedIn, and Digg, as well as from mainstream commercial sites on which users can create login accounts and profiles. For example, they found that simply by listening to songs on a music site, users could leak their e-mail addresses, names, and zip codes to hidden third-party data aggregators via cookies and HTTP headers.[69] Wang, Xu and Grossklags found that found that the API (application programming interface) used by Facebook enabled third party application developers to collect and publish user data aggressively:

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[66] Debatin et al., *supra* note 50, at 88.

[67] *Id.*

[68] Balachander Krishnamurthy & Craig E. Wills, *On the Leakage of Personally Identifiable Information Via Online Social Networks,* PROCEEDINGS OF THE 2ND ACM WORKSHOP ON ONLINE SOCIAL NETWORKS 7, 8 (August 2009).

[69] Balachander Krishnamurthy, Konstantin Naryshkin & Craig E. Wills, *Privacy Leakage vs. Protection Measures: The Growing Disconnect,* 1 PROCEEDINGS OF THE WEB 1, 4 (May 2011).

> As long as a user grants [a third-party] app the permission to access her own and her friends' data, in conjunction with a publishing permission, then [the] user's profile information . . . could be accessed and released by that app. Thus, we conclude . . . that privacy violations may exist when there is conflict between users' privacy settings and apps' data collection and publishing practices.[70]

Google's suite of dataveillance tools includes at least one API – the Google AJAX Search API, which was detected in 31 webpages.[71]

Furthermore, the "vast amounts of increasingly personal information"[72] that aggregators and advertisers collect about a single user as he or she visits multiple websites is increasingly concentrated in the hands of fewer and fewer companies – Google, Omniture (Adobe), Microsoft – as aggregators are themselves aggregated through acquisition.[73] Moreover, websites that use data aggregation measures are not obligated to disclose it to users, and neither existing privacy protection measures nor those proposed over the last few years are or would be effective in preventing such leakage.[74]

As a result, where in the past personally-identifying information was scattered across multiple servers and websites, such that the likelihood of it being compiled and analyzed was fairly remote, it is now concentrated in the hands of a few companies, rendering it almost instantly accessible and subject to analysis. Moreover, more recent studies conclude that distinguishing between personally-identifiable and non-personally

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[70] Na Wang, Heng Xu & Jens Grossklags, *Third-Party Apps on Facebook: Privacy and the Illusion of Control,* PROCEEDINGS OF THE 5TH ACM SYMPOSIUM ON COMPUTER HUMAN INTERACTION FOR MANAGEMENT OF INFORMATION TECHNOLOGY 1, 4 (Dec. 2011).

[71] See Appendix A, column "Dataveillance."

[72] Krishnamurthy et al. (2011), *supra* note 69, at 1.

[73] Balachander Krishnamurthy & Craig E. Wills, *Privacy Diffusion on the Web: A Longitudinal Perspective*, ACM PROCEEDINGS OF THE 18TH INTERNATIONAL CONFERENCE ON WORLD WIDE WEB (April 2009), 541, 544-47.

[74] Kirshnamurthy et al. (2009). *supra note* 68, at 8-9.

identifiable information is pointless, since the latter is easily "reassociated." In fact,

some website privacy policies explicitly state as much:

> Forbes.com also uses a reputable third party to collect information, including through the use of web beacons, browser cookies and other tracking technologies. We may collect via web beacons various data provided by your browser while you are on our site and elsewhere where we may be acting as a 3rd party. This data is collected in the aggregate, but may include or be associated with other non-PII or PII that users have voluntarily submitted.[75]

It is about this cumulative, aggregated threat to privacy that young adults (and

most others) seem troublingly unconcerned, since have "nothing to hide."[76] That position

completely misses the point – and misunderstands the nature of privacy. First, as Louis

Brandeis and Samuel Warren said more than 130 years ago, the right to privacy at its

most basic is "the right to be left alone."[77] It is the right to be free from intrusion. As

Solove explained, "privacy goes far beyond whether something is exposed to others.

What matters is the nature of the exposure and what is done with the information."[78]

First, being observed <u>while</u> doing something is one thing, but "captured images have

permanence."[79] Some college-age young adults, in fact, recognize this, at least with

respect to Facebook:

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[75] *E.g.,* http://www.forbes.com/fdc/privacy.html. Students in INLS 584 were assigned at article in Forbes and given a link thereto: http://www.forbes.com/sites/michelecatalano/2013/03/25/music-piracy-major-studies-conflicted-over-recording-industry-impact/.

[76] Daniel J. Solove, *"I've Got Nothing to Hide" and Other Misunderstandings of Privacy,* 44 SAN DIEGO LAW REVIEW 745, 749-50 (2007). For a longer treatment of the subject, *see* DANIEL J. SOLOVE, NOTHING TO HIDE: THE FALSE TRADEOFF BETWEEN PRIVACY AND SECURITY (2011).

[77] Samuel D. Warren & Louis D. Brandeis, *The Right to Privacy*, 4 HARV. L. REV. 193, 195 (1890).

[78] DANIEL J. SOLOVE, THE FUTURE OF REPUTATION: GOSSIP, RUMOR, AND PRIVACY ON THE INTERNET (2007) 164-65.

[79] *Id.* at 165.

> Facebook makes things that should have just happened in passing totally permanent and public . . . . [i]t doesn't just track what and where and when you bought things. It tracks *everything"* [80]

But almost every website tracks something about its visitors, and those with products or services to offer track a whole lot more. Second, and perhaps more important, we expect a certain amount of anonymity – of obscurity – in much of our everyday actions, even if we carry them out in public:

> Suppose someone followed you around in a drug store [and] . . . assiduously scribbled down an inventory of what you bought[,] [o]r . . . . snapped a photo of the products you had in your basket . . . . Perhaps you wouldn't want the world to know you had bought hemorrhoid cream. Or perhaps you wouldn't be thrilled that others would know about your diarrhea problem, or the kind of birth control you used. You bought all these things in public, you exposed them to other people. Does that mean you don't expect privacy in what you bought?[81]

A more famous example from the pre-digital age is the lengths to which General Motors went to gather data on Ralph Nader to try to intimidate and discredit him as he prepared to release *Unsafe At Any Speed*, the exposé of the American auto industry that first brought him to national attention:

> GM's agents interviewed Nader's friends and acquaintances to gather information that might be embarrassing for the activist – "his political, social, . . . and religious views, . . . sexual proclivities, . . . and [odd] personal habits." GM hired people to shadow Nader incessantly. At one point, an agent followed Nader into a bank and got sufficiently close to see the exact denomination of bills Nader received from the teller. GM also arranged for

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[80] Kate Raynes-Goldie, *Aliases, Creeping, and Wall Cleaning: Understanding Privacy in the Age of Facebook,* FIRST MONDAY, Jan. 4, 2010, available at http://journals.uic.edu/ojs/index.php/fm/article/view/2775/2432.
[81] *Id.*

> young women to proposition him with the hopes of entrapping him into an affair.[82]

Nader sued General Motors for invasion of privacy (among other claims), and won, New York's highest court ruling that "[a] person does not automatically make public everything he does merely by being in a public place."[83] One can only imagine how much more General Motors could have learned about Nader had the Internet existed in 1970.[84]

Raynes-Goldie's hypothetical about being followed around in a drug store is precisely what analytics services such as Google Analytics actually do: they follow users around the web, watching their every click. Once that information is aggregated, it can be used to identify patterns that would likely go unnoticed if the data were isolated, and to target – i.e., profile – users accordingly. In an infamous, and documented, recent example, Target Corp. was able to determine from a shopper's purchases that she was most likely pregnant, and early in her second trimester, and so they began mailing her coupons for baby- and prenatal-care related products. The shopper was 15 years old, and her father – apoplectic at the retailer's actions – called to complain. Target apologized, but it turned out that the teenager was, indeed, pregnant; she just hadn't yet told her parents.[85]

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[82] Jane Yakowitz Bambauer, *The New Intrusion,* 88 NOTRE DAME L. REV. 205, 206 (2012) (citing *Nader v. General Motors Corp.*, 25 N.Y.2d 560, 255 N.E.2d 765, 767, 771(1970)).

[83] *Id.* at 206 (citing *Nader v. General Motors* at 771).

[84] Or, for that matter, what Richard Nixon would have done. The Privacy Act and the Family Educational Rights Privacy Act were both directly inspired by a Congressional desire to prevent a repeat of the kinds of secret data collection revealed during the Watergate hearings. See discussion in Part IV, *infra.*

[85] Charles Duhigg, *How Companies Learn Your Secrets,* THE NEW YORK TIMES , Feb. 16, 2012, available at https://www.nytimes.com/2012/02/19/magazine/shopping-habits.html?pagewanted=all (last visited Nov. 18, 2012).

After Edward Snowden's disclosures, many more people, including young adults, likely realize that their personal information – whether "leaked" or freely given – is available to the government[86] – either through the NSA's own activities, or through private-sector commercial databrokers established and staffed by alumni of the NSA alumni and FBI.[87] These brokers can and do "escrow troves of personal information custom-tailored for the government."[88] As Simmons wrote:

> Fourth-parties, such as ChoicePoint or LexisNexis, are private companies that aggregate data for the government, and they comprise the private security-industrial complex that arose after the attacks of September 11, 2001. They are in the business of acquiring information, not from the information's originator (first-party), nor from the information's anticipated recipient (second-party), but from the unavoidable digital intermediaries that transmit and store the information (third-parties). These fourth-party companies act with impunity as they gather information that the government wants but would be unable to collect on its own due to Fourth Amendment or statutory prohibitions.[89]

In fact, Google had acknowledged in by 2011 that the federal government had been requesting private data about users of its search engine in record numbers, and that in 2010, Google had complied with 94% of such requests; between January and June of

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[86] Neither do some SILS faculty. During the Fall 2012 term, a SILS instructor remarked to the author that he or she would rather have Amazon know all about him or her than the government, not realizing that the options were hardly exclusive.

[87] Chris Jay Hoofnagle, *Big Bother's Little Helpers: How ChoicePoint and Other Commercial Data Brokers Collect and Package your Data for Law Enforcement,* 29 NCJ INT'L L. & COM. REG. 595 (2004).

[88] *Id.* at 636. For further illustrations, *see* Joshua L. Simmons, Note, *Buying you: the government's use of fourth-parties to launder data about "the people,"* 2009 COLUMBIA BUSINESS LAW REVIEW 950; 953-54, n.5, and Christopher Soghoian, *An End to Privacy Theater: Exposing and Discouraging Corporate Disclosure of User Data to the Government,* 12 MINNESOTA JOURNAL OF LAW, SCIENCE & TECHNOLOGY 191 (2011).

[89] Simmons, *supra* note 88, at 952-3 (footnote omitted). In this paper "third party" encompasses what Simmons terms "fourth parties" for sake of simplicity, since the distinction, while important to the overall issue of data aggregation, is not crucial to his review.

2012, Google complied with 90% of such requests.[90] Between July and December 2012,

that figure was 88%,[91] during the first and second six-month periods of 2013, it was 83%,

but with the actual numbers rising between July and December.[92] Since this information

is self-reported by Google, it cannot be independently corroborated. Thus, as Etzioni

said: "from here on, whether the databanks are in the FBI headquarters or in some

corporate office matters little. At most, they are just a click – and a payment – away."[93]

The public may at long last be catching on. In December, 2013, a class action

was filed against Facebook in federal court in California, seeking that its scanning of

private messages for weblinks violates the Electronic Communications Privacy Act (18

U.S.C. §§2510, 2511, 2520 (1986) (as amended) ("ECPA")), the California Invasion of

Privacy Act (Cal. Penal Code §§630, 631, 631, 637.2), California's Unfair Competition

Law (Cal. Bus. & Prof. Code §17200).[94] A case against Google, Inc., also alleging

violations of the ECPA by having systematically crossed "the creepy line" to read

students' private e-mail messages in order to profit, is pending in the same federal

court.[95] In its reply, Google acknowledged it was datamining millions of email messages

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[90] *Transparency report*, https://www.google.com/transparencyreport/userdatarequests/countries/?p=2012-06 (last visited Mar. 26, 2014).

[91] *Transparency report,* https://www.google.com/transparencyreport/userdatarequests/countries/?p=2012-12 (last visited Mar. 26, 2014).

[92] *Transparency report,* https://www.google.com/transparencyreport/userdatarequests/countries/?p=2013-06 and *Transparency report,* http://www.google.com/transparencyreport/userdatarequests/countries/?p=2013-12, last visited Mar. 27, 2014.

[93] Amitai Etzioni, *The Privacy Merchants: What is to be Done?,* 14 U. PENN. J. OF CON. LAW 929, 937 (2012).

[94] Campbell et al. v. Facebook, Inc., No. 4:13-cv-05996-PJH (N.D. Cal. filed Dec. 30, 2013). Facebook would likely have responded by pointing out that plaintiffs consented to such action by agreeing to its privacy policy, which plaintiffs would have had to do to use the service.

[95] In re Google Inc. Gmail Litigation, No. 13-md-02430, Plaintiffs' Consolidated Individual and Class Action Complaint, ¶¶ 2, 215-286. Plaintiffs also sought relief under California, Maryland, and Texas state laws. Judge Lucy Koh denied class certification, but the case remains pending based on plaintiffs' individual claims (Order, Sept. 26, 2013).

sent and received by student users of its Apps for Education tools but took the position that its data-mining practices were well-known.[96]

Thus, anyone who uses Internet makes a decision, knowingly or unknowingly, whether to compromise their online privacy, and if so, to what extent. If the decision to visit a particular webpage is made solely by that person, his or her decision is autonomous and independently made. SILS students, in contrast, cannot choose whether or not to visit a website specified by their instructors, and therefore their online privacy is compromised without their consent.

III. Libraries, Patron Privacy, and Commercial Vendors

LIS students, including those at SILS, learn that in the digital age, libraries are under greater pressure than ever before to reinvent themselves, to prove their value and find new ways to measure and communicate that value to stakeholders: in other words, to adapt or die. They also learn, starting with the ALA Code of Ethics and Library Bill of Rights, and moving on from there, that libraries are at the forefront defending patron privacy. Some commentators, however, believe that libraries are not doing enough/a good enough job at communicating this commitment to privacy. Magi, for example, said recently that

> In the same way that privacy—and lack of surveillance—are important for
> vitality in society, privacy is important if the library is to remain a vibrant
> marketplace of ideas. We must avoid the self-censoring chilling effect that
> may be created by revealing users' activities.[97]

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[96] Defendant Google Inc.'s Motion to Dismiss Plaintiffs' Consolidated Individual and Class Action Complaint; Memorandum of Points and Authorities in Support Thereof, filed June 16, 2013. The case will likely turn on whether Google's datamining falls within the "ordinary course of business" under the ECPA.

[97] Trina J. Magi, *A Fresh Look at Privacy – Why Does It Matter, Who Cares, and What Should Librarians Do about It?,* 32 INDIANA LIBRARIES, vol. 1, at 37 (2013).

She noted that some vendors of services to libraries had no privacy policies at all, and the policies of those that did, almost none reflected the ALA Code of Ethics[98] – which should not come as a surprise in that these vendors are commercial and for profit, and stand to benefit for user profiling as much as any other business. Magi concluded that "[t]o protect user privacy, it's best to keep all such transactions and data within the library, but if you want to use a third party, be sure your state law and your library policy allows you to share user information."[99]

An investigation into the policy of the University Libraries, of into North Carolina law, on privacy, is beyond the scope of this paper, but by adopting the recommendations at the conclusion of this paper, SILS as an LIS institution could be at the forefront of inculcating these values of defending privacy in the next generation of information professionals.

IV. Methods

The Fall 2013 courses listed at *http://sils.unc.edu/courses/2013/fall* that included a link to a class website, and any information available through links in from each class website, as well as one course site from each of Fall 2012 and Spring 2013 terms that was publicly available (or was when the class was offered), formed the body of materials for review. Any materials that would have required an ONYEN or other login process were excluded, the goal being to replicate information that current SILS students would have available when choosing courses for that semester, or that prospective SILS students would have available when visiting the webpage.

[98] *Id.* at 38.
[99] *Id.*

Starting from the webpage to which the link on SILS course homepage resolved – which was sometimes another webpage, but more often to a home directory page listing one or more PDFs comprising the course syllabus, reading list, or schedule – an attempt to reach each electronic resource was attempted. Instructors often provided direct hyperlinks within the body of the syllabus, reading list, or schedule, or provided a link that students could copy and paste into a web browser, or used a combination of moth means of access. E-resources identified as being in Sakai were not accessible, and some e-resources turned out to be behind a password-requiring "curtain" and so were also in accessible. This is an obvious limitation to the review, as information detailing additional e-resources or their use (for example, providing alternate, more-privacy-sensitive means of access) that might have been posted within Sakai were not available. However, since the present goal is to use only information available to students or prospective students when deciding whether or not to enroll in the course, such additional information is not directly relevant. The most common materials reviewed were syllabi, reading lists, and course schedules.

Some links from these materials proved inoperative or resolved to the familiar "404 Not Found" error or a variation thereof. Given the dynamic nature of the web (and in particular some of the websites themselves), this is not surprising, but it remains unclear if the broken links were there during the Fall 2013 term of appeared only thereafter. Thus, there remains some low-level uncertainty regarding precise numbers of the e-resources ultimately categorize below. However, since this review is not intended as a statistical analysis, but to give an overall snapshot of instructor activities with regard

to choosing electronic resources for their students, and the number of broken links was insufficient to distort that picture.

Dataveillance mechanisms on each webpage, as detected by Ghostery, were noted only with the date of detection. Ghostery is an open-access plugin available for Firefox, Safari, Chrome, Opera, and Internet Explorer desktop/laptop browsers and for iOS and Android mobile browsers that blocks an every-growing list of mechanism from being placed on a user's computer. It currently blocks more than 1900 trackers[100] and cookies, and though clearly not perfect – it is not configured to detect, let alone block, all dataveillance mechanisms[101] – it is a useful barometer of the behavioral tracking happening "behind the scenes" each time a computer on which it is installed uses the Internet.

Each site was examined for any posted or linked privacy policy, privacy statement, or other means by which users received notice of any information recorded by the website. If no obvious means of notice was found, and the site was searchable, searches for "privacy" and "cookie" were run. The location or locations of any privacy notice(s) were recorded, and in some cases, notice language was also quoted either for its typicality or lack thereof.

Results were incorporated on spreadsheet, noting the total number of webpages visited (i.e., of e-resources that were not on Sakai), and from that total, (a) how many links were directly to PDFs, (b) how many non-PDF resources were available as pre-

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[100] Ghostery.com, https://www.ghostery.com/, last visited Mar. 28, 2014. A second privacy tool, NoScript, http://noscript.net/, which blocks Javascript, Java, Flash, and other plugs, was added to the author's computer only after this review commenced, and therefore webpages utilizing these dataveillance mechanisms were not recorded.

[101] Acharya & Gorman, *supra* note 33, tested Ghostery, BetterPrivacy, HTTPS-Everywhere, Masking Agent, Disable HTTP Referer, and VPN and discussed their respective capabilities and shortcomings.

formatted PDFs or could be converted to PDF and placed on Sakai,[102] (c) which e-

resources were readily available within University Libraries and accessible through its

proxy server; and (d) how many webpages contained information directly or reasonably

to course subject matter or the LIS professions.

V. Observations and Discussion

Thirty-three SILS courses had course websites other than on Sakai. Of those, ten

were on sites without any apparent to connection to UNC: one used GoogleDocs for

homepage, readings list, and assignments;[103] four used Google Blogspot (for all or some

webpages),[104] two using ibliblio.com,[105] two used a site registered to the instructor,[106]

and one used github.io/github.com.[107] An additional 24 courses used ils.unc.edu.[108]

Three sites used web.unc.edu.[109]

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[102] Resources that were shorter than 4-6 screens; had few or no images or other graphical elements; had no hyperlinks, had hyperlinks either to information superfluous to the main content or information readily obtainable by separate search (e.g. articles or other references), and/or had broken hyperlinks were considered appropriate for conversion and placement within Sakai.

[103] INLS 089-030, https://docs.google.com/document/d/1mWB_37OqdRJFaMv6jqGrHBgT75NfK1Mr6zOvZam_qy4/edit?pli=1

[104] INLS 261-001, http://ils.unc.edu/courses/2013_fall/inls261_001/; INLS 261-002, http://ils.unc.edu/courses/2013_fall/inls261_002/index.html; INLS 461, http://ils.unc.edu/courses/2013_fall/inls461_001/.

[105] INLS 782, http://www.ibiblio.org/pomerantz/wiki/index.php/INLS_782:_Library_Assessment; INLS 697 (offered Spring 2013).

[106] INLS 520-001 (http://aeshin.org/teaching/inls-520/2013/fa); INLS 101 (http://aeshin.org/teaching/inls-101/2013/fa/).

[107] INLS 560, http://silshack.github.io/fall2013/announcement/2013/08/07/welcome-to-560.html.

[108] INLS 509, http://ils.unc.edu/courses/2013_fall/inls509_001/;INLS 623, http://ils.unc.edu/courses/2013_fall/inls623_001/; INLS 786, http://ils.unc.edu/courses/2013_fall/inls786_001/; INLS 690-141 http://ils.unc.edu/courses/2013_fall/inls690_141/inls690-141-fall2013-syllabus.htm (Sakai used for discussion forum); INLS 613, http://ils.unc.edu/courses/2013_fall/inls613_001/; INLS 889, http://ils.unc.edu/courses/2013_fall/inls889_001/; INLS 500-002, http://ils.unc.edu/courses/2013_fall/inls500_002/; INLS 572, http://www.ils.unc.edu/courses/2013_fall/inls572_001/; INLS 461, http://ils.unc.edu/courses/2013_fall/inls461_001/; INLS 261 (both sections), http://ils.unc.edu/courses/2013_fall/inls261_001/ and

For all courses except INLS 758, all functioning webpages are public, including those which contain student comments posted as part of coursework. INLS 461 and both sections of 261 use BlogSpot for a publicly-accessible comments/discussion page that included students' names and comments going back to 2008 and appear to share the same discussion forum.[110] One student in a Spring 2013 section requested become non-public. The instructor seems to have put that student's request to a vote:[111]

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Make the blog private?

Question:
Class blog is public. Can the blog be made viewable only to the people who are joined to it via email?
Response:
I am OK with that and it is not difficult. What does everyone want? Tell me in a blog posting or a comment and I will go with the consensus opinion.

Also, remember to label each of your posts with your name (as this post is so labeled) so I can find them later.

Since the discussion forum remained public thereafter, it appears that his or her privacy interests were overridden.

http://ils.unc.edu/courses/2013_fall/inls261_002/index.html; INLS 523-002,
http://ils.unc.edu/courses/2013_fall/inls523_002/; INLS 490-204,
http://ils.unc.edu/courses/2013_fall/inls490_204/ (Sakai used for discussion forum); INLS 584,
http://ils.unc.edu/courses/2013_fall/inls584_001/; INLS 523-001,
http://ils.unc.edu/courses/2013_fall/inls523_001/; INLS 285,
http://ils.unc.edu/courses/2013_fall/inls285_001/ (Sakai used for discussion forum, assignments, syllabus, readings, handouts, grades, essays); INLS 502, http://ils.unc.edu/courses/2013_fall/inls502_001/; INLS 690-172, http://ils.unc.edu/courses/2013_fall/inls690_172/; INLS 582-003,
http://ils.unc.edu/courses/2013_spring/inls582_003/Index.html; INLS 558,
http://ils.unc.edu/courses/2013_fall/inls558_001/; INLS 582-002,
http://ils.unc.edu/courses/2013_fall/inls582_002/; and INLS 582-003,
http://ils.unc.edu/courses/2013_spring/inls582_003/Index.html.

[109] INLS 525, http://inls525fall2013.web.unc.edu; INLS 585-002, http://inls585fa13.web.unc.edu/; INLS 697, https://inls697002spring13.web.unc.edu/.

[110] Clicking on the "Class Website" for the rom the SILS Fall 2013 webpage
(http://sils.unc.edu/courses/2013/fall) resolves to a webpage titled "INLS461-001/261-003
Information Tools" (http://ils.unc.edu/courses/2013_fall/inls461_001/). Clicking on the "Reflections" link on the class website homepage for either of the two INLS 261 sections or 461-001class website homepage leads to the exact same page. This site lists all students by full name and associates them with INLS 261 and INLS 461.

[111] INLS 261, http://inls261.blogspot.com/2013_01_06_archive.html.

The webpages for the other Blogspot-using course[112] is now (March 2014)

accessible only by signing in to the Gmail account students in this course were required

to obtain, but once signed in, the student has access to the webpages without the separate

password and login originally required and provided by the instructor – even though the

class ended in December 2012. The class discussion and comment webpages, to which

students were required to post regular comments on class and readings, lists all the names

of this last group of students enrolled, even though some of those students graduated in

May 2013.[113] Moreover, it contains comments from students who enrolled in the course

in 2010, so that the names of these now-former-students' names, and the comments they

posted as part of required coursework (unless deleted, since anyone who ever took this

class can continue to post new comments or delete old ones), will be visible — all 100-

plus pages, when printed – to the next group of students who enroll in the class the next

time it is offered (Fall 2014): former students cannot delete their names from the list on

the forum's first page.[114]

Other courses also had student comments relating to coursework available to the

general public, not just former students in the same class, and included some students'

full names (and one student photo).[115]

Another course required students to obtain an account with commercial entities to

communicate with one instructor by any means except telephone or in person. Students

were told "Don't send e-mail," and were instructed instead to use one or more of the

following: Google+, Google Calendar, Gtalk, Facebook, LinkedIn, Twitter, Skype, or

[112] INLS 758, http://internationalcross-cultural.blogspot.com/.
[113] *Id.*
[114] Personal experience of the author, February-March 2014.
[115] INLS 585-002, http://inls585fa13.web.unc.edu/2013/08/26/welcome-to-inls-585/#comments

AIM – all of which require an account to login and send messages.[116] Still another used

Google Big Blue Button and Google Hangouts for required virtual office hours, and when

a student raised the issue of having to use Google services, the instructor advised. A

different instructor took the same consensus approach with respect to different Google

services in an online Fall 2013 course, advising a student who raised the issue that

> If a majority of the class decides it wants to switch to Google
> Hangout or BigBlueButton, then I'm going to switch to Google
> Hangout or BigBlueButton. There are high barriers to interaction in
> online courses, so I want to make sure I lower those barriers as much
> as possible[117].

Another course appeared to require a Google account to access the class wiki and

resource wiki.[118]

One course website included class rosters, by which students were associated by

name with the particular class.[119] Students seem to have volunteered or been assigned to

lead class discussion on certain days, and the website showed each student's full name

next to the class he or she was to lead. Since the course identifier appears at the top of

the webpage, the site associates each student in the class with the course itself. Other

courses tracked the number of times students' names were mentioned and noted that

frequency on the discussion forum's home page.[120]

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[116] INLS 697, https://inls697002spring13.web.unc.edu/about-this-course/.

[117] E-mail from instructor dated Aug. 23, 2013 (available from author).

[118] INLS 623, http://ils.unc.edu/courses/2013_fall/inls623_001/.

[119] INLS 502, http://ils.unc.edu/courses/2013_fall/inls502_001/schedule.html.

[120] INLS 261-001, INLS 261-002, and INLS 461, http://inls261.blogspot.com/; see column on lower right titled "Tags."

A. Student Privacy Implications under FERPA

The foregoing instances implicating SILS students' privacy interests should raise

concerns about likely violations of the Family and Educational Rights Privacy Act.[121]

FERPA, also known as the Buckley/Pell Amendment, was enacted in 1973 to address

post-Watergate concerns about individual privacy; it "was meant to keep academic

information, such as grades and transcripts, accessible to students and their parents and

private from just about everyone else."[122] Such education records are available to the

students themselves or their parents if students are under 18 or claimed by their parents as

a dependent. An educational institution receiving federal funding that "has a policy or

practice of permitting the release of education records (or personally identifiable

information contained therein other than directory information ...)" to anyone else,

subject to exceptions, can lose that funding.[123] Education records are defined as "those

records, files, documents, and other materials which (i) contain information directly

related to a student; and (ii) are maintained by an educational agency or institution or by a

person acting for such agency or institution."[124] One of FERPA's greatest weaknesses

has been an inconsistent understanding of what records meet that definition; one scholar

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[121] *See supra* note 8.

[122] Rob Silverblatt, Note, *Hiding Behind Ivory Towers: Penalizing Schools that Improperly Invoke Student Privacy to Suppress Open Records Requests,* 101 GEO. L.J. 493, 494-5 (2013).

[123] 20 U.S.C.A. §1232g. "Directory information" includes but may not be limited to the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student." 20 U.S.C. §1232g(a)(5)(A). A student may opt out of having directory information made public; moreover, no institution is required to release directory information, but if it does, it is the institution's responsibility to ensure that such opt-out has not been invoked before release.

[124] 20 U.S.C.A. §1232g(a)(4)(A)(i,ii).

has noted that "the current definition lacks clarity, predictability, and uniformity in application."[125]

FERPA enforcement falls exclusively to the Secretary of Education.[126] Actions are somewhat rare and none addresses the concerns discussed above – largely because FERPA has not kept pace with the changing nature of the educational landscape in the last decade or so; as the Department of Education's Privacy Technical Assistance Center ("PTAC") conceded when it released guidelines to address student privacy concerns using online educational services in February 2014. These guidelines stated specifically that

> Recent advances in technology and telecommunications have dramatically changed the landscape of education in the United States. Gone are the days when textbooks, photocopies, and filmstrips supplied the entirety of educational content to a classroom full of students. Today's classrooms increasingly employ on-demand delivery of personalized content, virtual forums for interacting with other students and teachers, and a wealth of other interactive technologies that help foster and enhance the learning process. . . . these technologies have demonstrated their potential to transform the educational process, but they have also called attention to possible challenges. In particular, the information sharing, web-hosting, and telecommunication innovations that have enabled these new education technologies raise questions about how best to protect student privacy during use.[127]

The PTAC intended its guidelines to address privacy and security considerations relating to "computer software, mobile apps, and web-based tools provided by a third party to a school, which tools students "accessed via the Internet and used as part of a school

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[125] Margaret Mary Penrose, *In the Name of Watergate: Returning FERPA to its Original Design,* 14 N.Y.U. J. LEGIS. & PUB. POL'Y 75, 76 (2011).
[126] *Gonzaga Univ. v. Doe,* 536 U.S. 273, 287 (2002) (FERPA creates no private right of action).
[127] Privacy Technical Assistance Center, *Protecting Student Privacy While Using Online Educational Services: Requirements and Best Practices,* at 1-2, 10-11 (Feb. 25, 2014), http://ptac.ed.gov/document/protecting-student-privacy-while-using-online-educational-services.

activity."[128] Specific examples of such tools included "online services that students use

to access class readings . . . to watch video demonstrations, to comment on class

activities, or to complete their homework."[129] Further, the PTAC that with these online

education services, "it can be unclear what information is being collected while students

are using the technology," and made it clear that

> *Even when this information is not protected by FERPA or other*
> *privacy laws,* it is a best practice to inform students . . . of what
> information is being collected and how it will be used. . . . [130]

The PTAC's position is that such

> Greater transparency enables parents, students, and the public to develop
> informed opinions about the benefits and risks of using education
> technology and helps alleviate confusion and misunderstandings about what
> data will be shared and how they will be used."[131]

Each educational institution to which FERPA applies develops its own policy; UNC's is

available at available at https://registrar.unc.edu/academic-services/uncferpa/. Further

guidance, with concrete examples of what is protected under the policy, is provided

through UNC's "The Family Educational Rights and Privacy Act (FERPA): Guidance for

Faculty Members,"[132] which states that class lists or rosters are covered by FERPA.[133]

This guidance, taken together with the PTAC's guidance, suggests that the examples

described above could well violate both FERPA and UNC's own FERPA policy.

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[128] *Id.*

[129] *Id.* at 2.

[130] *Id.* at 10 (emphasis added).

[131] *Id.* at 11.

[132] University of North Carolina, *The Family Educational Rights and Privacy* Act (2012), available at
http://registrar.unc.edu/files/2013/07/What-Every-Faculty-Member-Should-Know-about-FERPA-
00063807-2.pdf

[133] *Id.*

B. Other Student Privacy Implications

Keeping in mind the PTCA's view that institutions should be transparent with respect to collection to student information whether disclosure thereof is covered by FERPA or other privacy laws, this review identified a far larger category of webpages to which students were directed to access required or recommended course materials. Some of these links, when clicked, resulted directly in PDFs opening or requesting permission to open, others were for on-screen materials. Some links were to videos (two of which raise copyright concerns and will have to be addressed in future work); one states that the user's screen is being broadcast:

[134]

The video appears to be recorded rather than live (the video presentation dates from 2010, but the statement is alarming to anyone required to watch as part of a class assignment, since by then anything on their screen – taskbar icons, date and time, open programs – would already have been public. Two courses course had readings with a links to Google Books, even though two copies of one book are available in the SILS

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[134] INLS 520-002, e-resource at http://breeze.iu.edu/p48776227/, captured Mar. 1, 2014.

library and others through University Libraries[135] (it did include a second link to the same book at Project Gutenberg), and a copy of the other book was on reserve in SILS.[136]

Still other courses included links directly to PDF documents housed on third-party websites, including, for example, *http://news.pmiservizi.it* ("tutti il Web in un Blog" – all the world in a blog), an Italian news service, to a PDF of the article "Searching For the Google Effect on People's Memory." This article is from *Science* magazine,[137] which is readily available from University Libraries. In fact, a total of 337 such third-party-direct-link-to-PDF resources were found. In each case, the PDF could easily be placed in a course Sakai site, or linked within the UNC system. Courses also linked to third-party webpages for e-resources that were available as UL e-resources; 187 such examples were found. Thus, at least 524 instances in which students were directed to third party links (just over 40% of the webpages reviewed), thereby ceding to these links at least the IP addresses of their computers, were easily avoidable: had instructors provided links to the same resources in University Libraries, access would have been through its proxy server, and the data aggregators would have obtained only IP addresses generated by the proxy server, and not the IP addresses of students' computers.[138]

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[135] INLS 558, http://books.google.com/books?id=m8MZAAAAYAAJ&dq=shedlock%20storytelling&pg=PR3#v=onepage&q=shedlock%20storytelling&f=false

[136] INLS 753, http://books.google.com/books?id=3dtUgdRVK4YC&pg=PA23&dq=some+thoughts+on+the+race+against+time+mark+roosa&hl=en&sa=X&ei=lCoOU6-RJJbLsQTdyIGIDg&ved=0CCgQ6AEwAA#v=onepage&q=some%20thoughts%20on%20the%20race%20against%20time%20mark%20roosa&f=false.

[137] The full link is http://news.pmiservizi.it/pdf/searching-for-the-google-effect-on-people-s-memory.pdf.

[138] There remains the issue of whether these third-party services' dataveillance mechanisms would have "survived" the proxy server and been placed on the students' own computers, and if so, whether the data collected would have been associated with the IP address supplied by University Libraries or with the students themselves. The author is about as far from an expert on the issue as possible and so in future work will consult experts to answer the question.

If third-party webpage content that could easily have been converted to PDFs[139] and placed with Sakai or at an intra-UNC link is added, a total of 572 e-resources (or 44% of the total number reviewed), could have been available to students without their having to access the third party sites directly.

Some third-party webpages to which students were directed were arguably directly or reasonably related to the objectives of the course for which they were assigned or recommended (webpages for the American Library Association, American Association of Archivists, the Library of Congress, and similar sites) and thus it may be reasonable to require or expect students to access them. But, as discussed in Part VI below, students should be advised of these requirements before registering for courses so that they can make informed decisions about whether to enroll – that is, so that they can balance their own privacy interests. If they are required to take courses with these kinds of links as part of their degree program, they will have enough advance "warning" to be able to use SILS or other UNC computers to access these sites.

Almost 46% (45.9%) of all the webpages reviewed for this paper conducted dataveillance with at least one mechanism and some had as many as 25.[140] Thus, whether or not students are required to obtain accounts with online services, or to "visit" the site to access course materials, they will be required to agree to any privacy policies and/or terms of service posted: obtaining an account means agreeing to the website's

[139] Copying third party materials would be defensible under these circumstances under the "fair use" provision of the Copyright Act of 1976, 17 U.S.C. §107.

[140] Each of the six webpages at Atlantic Magazine to which students were directed (http://www.theatlantic.com/technology/archive/2012/04/social-medias-small-positive-role-in-human-relationships/256346/, http://www.theatlantic.com/technology/archive/2011/04/what-does-your-phone-know-about-you-more-than-you-think/237786/, http://www.theatlantic.com/magazine/archive/1945/07/as-we-may-think/303881/, http://www.theatlantic.com/magazine/archive/2008/07/is-google-making-us-stupid/306868/, http://www.theatlantic.com/technology/archive/2010/11/literary-writers-and-social-media-a-response-to-zadie-smith/66257/, and http://www.theatlantic.com/technology/archive/2011/04/my-life-according-to-the-iphones-secret-tracking-log/237636/) 26 such devices.

terms of service and privacy policies, all of which require agreeing to let the website

collect information about the user. Even if students do not need to have accounts, terms

of service and privacy policies reviewed for this paper all state that by "using" the site, a

user is agreeing to and accepting the sites' information collection practices.[141] For

example, since the student is already on the website by virtue of clicking on the link

provided by his or her instructor, he or she is already "using" the site, and has agreed to

these practices – which include placement of information collection mechanisms on his

or her computer.

      Students could, in theory, use SILS or other UNC computers to complete all tasks

to avoid exposure to data leakage– but not unless they know, before or at the time they

register for the class, that these websites will be part of the course curriculum. If the

news is sprung on them the first day of class, or even later, their class/work schedules

may render access to SILS/UNC computers so impractical as to be impossible.

      Students could also, in theory, skip over the links provided by instructors and

search out the resources independently, but that is unlikely – it does beg the question,

however, of whether SILS instructors should be providing any links to e-resources at all:

shouldn't students be learning to find materials if given sufficient information, without

being given the "answers"? Some students might still opt for "googling" this information

and accessing materials on "freely available" websites, but if so, they would be make an

independent, affirmative decision to do so rather than simply be defaulting to the links

provided by instructors, and the choice to pay the cost of using "free" website would

therefore be voluntary – and make no mistake, just because a website is freely available

does not make its use without cost. Hoofnagle and Whittington pointed out that online

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[141] For example (Google pp, and the other excerpts). If lengthy, move to body of paper.

sites are offered without payment of money by the user, but "often carry a hidden charge:

the forfeit of one's personal information."[142] They continued:

> The service provider may expect to earn revenues from the personal
> information collected about consumers who devote their attention to
> advertising and other services, such as games, from third parties.
> The more time the consumer spends using the service and revealing
> information, the more the service can adjust the product to reveal
> more information about the consumer and tailor its advertising of
> products to that consumer's personal information.[143]

One might argue that the students likely have visited or will visit many of these

same webpages anyway, so why does it matter if on some occasions they were directed

there by instructors? It matters a great deal; the first type of visit is voluntary, the second,

compulsory. Even PTAC, in its new guidelines for student privacy, distinguished

between, and did not address, "online services or social media that students may use in

their personal capacity outside of school."[144]

VI. Recommendations and Conclusion

The very brief review above indicates that some instructors' selections of e-

resources clearly implicate students' information privacy interests, and that not utilizing

University Libraries as a means of accessing those resources fails to recognize the role

those libraries can play in fostering LIS value of supporting patron privacy. The practice

also impedes their ability to accurately assess their utility to the academic community,

since some opportunities for use are lost.

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[142] Chris Jay Hoofnagle & Jan Whittington, *Free: Accounting for the Costs of the Internet's Most Popular Price,* 61 UCLA L. Rev. 606, 608 (2014).
[143] *Id.* at 608-09.
[144] PTAC, *supra* note 127, at 2.

Much more research remains to be done in this area and includes (but is not limited to asking why instructors made the choices they did (for example, is there a dissatisfaction with Sakai? A lack of awareness of how their selections implicate students' privacy?); whether there is any relationship between broad subject matter (information science compared with library science) and the frequency with which third party resources are selected. But even lacking that information, modifications should be considered.

First, Sakai should be the default platform for any class interactions like posting or uploading comments, group work, assignments, or for class discussion. Syllabi, reading lists, assignments, and class schedules should be in Sakai or on UNC servers using ils.unc.edu or web.unc.edu. No matter which platform is used, student comments and rosters should not be public, and should not be available for access by former students.

Second, instructors should ask the following when looking at prospective e-resources:

1. Is this resource already a PDF? If so, it should be provided via Sakai or other UNC website.

2. Can the resource be converted to a PDF? If so, it should be converted and then provided via Sakai (or other UNC site).

3. Is this resource available through University Libraries? If so, that is the source that should be used.

4. If the resource must be accessed from a third party, is it strictly necessary? Is there another resource that is available within the UNC world? If not, then SILS should

include that resource's name and URL on the materials described below so that students

considering taking the course can make an informed decision whether to enroll or not.

These suggestions have their roots in the Fair Information Practice Principles described in

Part I of this paper and take a page from the practices of the Privacy Office of the

University of California, Berkeley. SILS could adapt Berkeley's Fair Information

Principles as follows:

Table 3

Fair Information Principle[145]	Practice for SILS Resource Selection
Transparency [notice] "requires that organizations inform customers about their practices and gain consent *before* collecting or using personal information."	All relevant information regarding resources must be available online before deadline for course registration.
Choice: privacy information "should be clearly posted on websites, giving users a choice whether or not to disclose personal information."	If resources outside Sakai and UL are to be required, instructor must identify them, state the purpose for which they are to be used and provide links to each such source so that students can assess their privacy interests against need or desire to enroll in course, and are equipped to make a voluntary and informed choice with respect to how they are willing to share their personal information.
Information Protection [access and security] "ensures that personal information is only used and disclosed under the terms of consent. In subscribing to this principle, organizations promise to protect the quality and integrity of personal information"	All resources must ensure that student information, whether within FERPA's definition or not, remains accessible only to the instructor and the students in the class. If any such information is to be, or may be, accessible to the public, students must be advised of this fact on or before the deadline to register in the class.
Accountability "holds organizations accountable for complying with FIPPs. Broadly incorporating FIPPs into campus privacy practices is part of assuming accountability."	Instructors are responsible for ensuring that student information is deleted or rendered inaccessible after the course ends; it should not be available perpetually to other students even if it not public.

[145] Berkeley Privacy Office, *FIPPs Fair Information Practice Principles: The Gold Standard for Protecting Personal Information,* https://security.berkeley.edu/sites/default/files/uploads/FIPPs.pdf) (last visited Mar. 21, 2014).

As Berkeley's Privacy Office noted, "[t]transparency and choice go hand in hand. Privacy Statements make privacy practices transparent, giving people the information they need to make informed *choices* about whether or not to disclose personal information."[146]

Third, instructors should advise students, with respect to materials to be used in each course, that websites at which these materials are to be accessed are likely collecting personal data from visitors and users. Instructors must ensure that complete and up-to-date links to all sites to be accessed as part of a SILS course are available to students, along with the course's reading list, before the course registration period ends. Non-UNC resources should be identified in a separate list titled "Third Party Platforms and Resources Used in this Course" or something similar.

If an instructor wants to include a website that does not disclose its data collection and/or data security policies – for example, SILS 883 requires students to use Lifetime Library for their course journal, and nowhere on the Lifetime Library website is there any disclosure about how these student educational materials will be maintained, or who will have access to them – then the instructor should obtain that information and make it include with the Third Party Platforms and Resources list.

Fourth, SILS should disclose that it uses Google Analytics on its webpages (University Libraries should as well). The University's homepage includes a link to UNC's privacy policy, which, in addition to saying that use of the site means agreeing to the privacy police as well as any other applicable information technology service policies (themselves available through yet another link), states only that

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[146] *Id.*

> The University may collect some information about how visitors access and use a website affiliated with the unc.edu domain and its contents. The information collected on this website is limited to non personally-identifiable information and may include information such as the computer address used to access the Web site. This data is used to improve website content and website management for users. Cookies may be used to facilitate the navigation of this site, but these cookies will not contain any personally-identifiable information. Other sites within the unc.edu domain may have different privacy practices. If applicable, consult the privacy statement on each page.[147]

No privacy statement is made on SILS' homepage.

Fifth, a course in information and privacy literacy and management should be considered.[148] SILS could (a) develop a required course on information and privacy literacy/management, and (b) educate SILS instructors and staff about same issues before launching the course.[149] or at the very least students should be instructed in writing of their privacy interests and what options exist to safeguard it if they find themselves unable to avoid having to use a third party website that uses dataveillance mechanisms.

These recommendations do not infringe instructors' academic freedom to select what they consider the best resources for their courses; they simply require instructors to factor students' privacy interests into those selections. Nor will following these recommendations impinge on instructors' teaching or research time; instructors already receive the assistance of the SILS library in identifying items to be placed on reserve; all an instructor would need to do would be provide a complete least of resources to the ILS

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[147] UNC Privacy Policy, http://www.unc.edu/about/privacy-policy/ (last visited Mar. 30, 2014).

[148] Such courses have been considered and implemented elsewhere. *See, e.g.,* M. Vorvoreanu, Q.M. Clark & G.A. Boisvenue, *Online Identity Management Literacy for Engineering and Technology Students,* 3 JOURNAL OF ONLINE ENGINEERING EDUCATION (2011); Lauren Magnuson, *Promoting Privacy: Online Reputation Management as a Literacy Skill*, COLLEGE RESEARCH LIBRARY NEWS, Mar. 2011, at 137-40.

[149] The same suggestion was made as part of an assigned paper in the author's section of INLS 500. The syllabus this section used was updated for Fall 2013 to include a session (Session 12) "Information sharing and privacy"; the recommended reading for which included many of the articles cited in that paper (some of which are referenced in this paper as well): http://ils.unc.edu/courses/2013_fall/inls500_002/500-additional.htm.

librarian, and she and her staff would determine the rest: determining which e-resources were available in-house, so to speak; which needed converting to PDF, and which needed uploading to Sakai sites and/or to unc.edu class websites. In fact there would likely be far fewer broken or outdated links if the SILS library took on this task.

Finally, to any response that students could simply use a fake name to obtain accounts with Google, Facebook, or any of the other third party sites, it should be noted that advising students to take that action, or providing them with "solutions" to privacy concerns that suggested that action, would violate UNC's Honor Code, which states that "[it] shall be the responsibility of every student at the University of North Carolina at Chapel Hill to . . . Obey and support the enforcement of the Honor Code; [and] [r]efrain from lying, cheating, or stealing."[150]

In conclusion, then, simply because a resource is "freely available on the web" does not mean it is without cost to the student, whose personal information, is of great and ever-increasing value to privacy merchants everywhere; as Hoofnagle and Whittington so aptly put it, "[p]ersonal information is an asset packaged and monetized by social-networking services; other firms can then access that package by purchasing it or executing revenue-sharing agreements with the collectors of that information."[151]

Asking students to pay that cumulative price when alternatives are readily available is unreasonable, and SILS instructors, as LIS professionals themselves and as the educators of the next professional generation, should take the lead in safeguarding students' personal information and in making students aware of the importance of doing so.

[150]Instrument of Student Judicial Governance (2009, amended 2012), at 5, http://studentconduct.unc.edu/honor-system (last visited Mar. 31, 2014).
[151] Hoofnagle & Whittington, *supra* note 141, at 633.

KEY

3dp pdfs:	third party PDFs
web e-r:	electronic resources on web
3dp/e-r:	number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
dataveillance:	dataveillance mechanisms detected on webpage
convertible:	material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
INLS 490-211	UNC Voice Thread (http://voicethread.unc.edu/								
	http://searchuserinterfaces.com	author's website							
	http://www.criticalthinkeracademy.com/	personal website, Kevin deLaplante						aweber, conviva, facebook social plugins, freewheel, google adsense, google analytics, netratings sitecensus, omniture (adobe analytics), quantcast, scorecard research beacon	1.00
	http://alistapart.com				3.00	3/4	0.750		
INLS 560	http://silshack.github.io/fall2013/	public except for feedback link (inoperative)							
	our Google Plus community	office hours include "by appointment via our Google Plus community."							
	http://www.greenteapress.com/	"free book" on python						amazon associates, facebook social plugins, google analytics	
	http://software-carpentry.org/4_0	not found on this server; 404							
	http://software-carpentry.org							disqus, google analytics	
	http://software-carpentry.org/							disqus, google analytics	
	http://docs.python-guide.org							gaug.es, github ribbon, gittip, google analytics	
	http://pages.github.com				6.00	6/8	0.750		
INLS 780-001	none					0			
INLS 780-002	none					0			
INLS 509	http://ciir-publications.cs.umass.edu/getpdf.php?id=744	pdf not through sakai	1.00	1.00					
	http://en.wikipedia.org	wikipedia							
	http://hunch.net/?p=22	owner not facially evident			3.00	1/3	0.330	gravatar	
INLS 691H	http://owl.english.purdue.edu/								
	http://ella.slis.indiana.edu/~sugimoto/preprints/Beyondgatekeepersofknowledge.pdf.	pdf not through sakai	1.00						
	http://en.wikipedia.org	wikipedia							
	http://www.tandfonline.com/doi/full/10.1080/1369118X.2010.513417	article not through library proxy		1.00				addthis, google analytics	

KEY
3dp pdfs: third party PDFs
web e-r: electronic resources on web
3dp/e-r: number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
dataveillance: dataveillance mechanisms detected on webpage
convertible: material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://pewinternet.org/Reports/2009/18------Social---Isolation---and---New---Technology.aspx	article not through library proxy		1.00	5.00	3/5	0.600	chartbeat, crazy egg, google analytics, parse.ly, typekit by adobe	
INLS 754	http://www.inherentvice.net/?p=146	author's website						digg widget, facebook social plugins, google +1, gravatar, LinkedIn widgets, pinterest, stumbleupon widgets, twitter button	
	http://culturalpolicy.uchicago.edu/publications/Demographic-Transformation.pdf	pdf not through sakai	1.00						
	http://www.dallasnews.com	article not through library proxy		1.00				addthis, appnexus, chartbeat, civicscience, cxense, doubleclick, facebook connect, gigya socialize, google adsense, krux digital, lotame, ndn analytics, news registry, omniture (adobe analytics), outbrain, parse.ly, quantcast, rocket fuel, scorecard research beacon, undertone, visual revenue, xaxis, yahoo analytics	
	http://www.slideshare.net	slideshare							
	http://www.slideshare.net/	slideshare							

APPENDIX A: SILS COURSES REVIEWED

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3dp pdfs: third party PDFs
web e-r: electronic resources on web
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://chicagoist.com/	could be pdf in sakai						140326 chartbeat, disqus, facebook connect, facebook social plugins, google +1, google adsense, google analytics, netratings sitecensus, outbrain, quantcast, scorecard research beacon, stumbleupon widgets, twitter badge, twitter button, typekit by adobe, visual revenue	
	http://www.icp.org/museum/				7.00	2/7	0.285	addthis, google analytics, siteimprove	
INLS 200-002	http://news.pmiservizi.it/pdf/searching-for-the-google-effect-on-people-s-memory.pdf	pdf not through sakai	1.00					pdf link -- unable to determine	
	http://youtu.be/WytNkw10Ic	youtube							
	http://youtu.be/c539cK58ees	youtube							
	http://youtu.be/9hIQjrMHTv4	youtube							
	www.cs.cornell.edu/home/kleinber/sci01.pdf	pdf not through sakai	1.00						
	http://www2.lib.unc.edu/instruct/evaluate/	unc library instruction							
	www.niso.org/publications/press/UnderstandingMetadata.pdf	pdf not through sakai	1.00						
	http://library.unc.edu/instruct/tutorials/keywords/	unc library tutorial							
	http://youtu.be/EDX-sC5chCk	youtube							
	http://youtu.be/RwjhNJUDcqI	youtube							
	http://youtu.be/nvWgbkpiMDE	youtube							
	links to http://youtu.be/WytNkw10Ic	youtube							
	http://pages.gseis.ucla.edu/faculty/bates/substrate.html	could be pdf in sakai							1.00
	links to http://youtu.be/c539cK58ees	youtube							

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.internetsociety.org/sites/default/files/Brief_History_of_the_Internet.pdf	pdf not through sakai	1.00						
	http://www.cs.cornell.edu/home/kleinber/sci01.pdf	pdf not through sakai	1.00						
	http://www2.lib.unc.edu/instruct/evaluate/								
	http://www.niso.org/publications/press/UnderstandingMetadata.pdf	pdf not through sakai	1.00						
	http://library.unc.edu/instruct/tutorials/keywords/	unc library tutorial							
	http://youtu.be/Jpr0ODsy_AQ	youtube							
	https://www.brainshark.com/thomsonscientific/searchtipswok5_v2 ,	brainshark							
	https://brainshark.com/thomsonscientific/markedlist_wok_5_3	brainshark							
	http://youtu.be/9hIQjrMHTv4	youtube							
	https://thomsonscientific/analyze	not found							
	http://en.wikimedia.org/wiki/Wikipedia:Five_pillars	wikiMEDIA							
	http://outreach.wikimedia.org/wiki/File:Evaluating_Wikipedia_article_quality_2010-11-26_26%28web%29.pdf	pdf not through sakai	1.00						
	http://www.bbc.co.uk/news/magazine-18892510	mainstream media							
	http://b.globe.com/14W6KIH	article not through library proxy		1.00					
	http://youtu.be/flmtOQltaSw	youtube							
	http://www.youtube.com/watch?v=l4f9scDTDKA&feature=share&list=UUmqJgITKlakjqovayex6xMA	youtube							
	http://youtu.be/mP5AzJKXflA	youtube							
	http://youtu.be/U6yXHZATKrM	youtube							
	http://www.nytimes.com/2012/11/18/technology/your-online-attention-bought-in-an-instant-by-advertisers.html?	article not through library proxy		1.00				doubleclick, google adsense, krux digital, moat, new york times, news registry, webtrends	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.economist.com/node/21540420	article not through library proxy		1.00				adroit digital solutions, adroll, bizo, brightcove, chartbeat, doubleclick, effective measure, facebook connect, google +1, google ajax search api, google analytics, klaustech, linkedin widgets, maxymiser, mediamind, omniture (adobe analytics), perfect market, quantcast, sojorn, sub2, twitter button, valueclick media, visual website optimizer	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.economist.com/node/21554439	article not through library proxy		1.00				adroit digital solutions, adroll, bizo, brightcove, chartbeat, doubleclick, effective measure, facebook connect, google +1, google ajax search api, google analytics, klaustech, linkedin widgets, maxymiser, mediamind, omniture (adobe analytics), perfect market, quantcast, sojorn, sub2, twitter button, valueclick media, visual website optimizer	
	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3433173	available as pdf							
	http://www.pantaneto.co.uk/issue46/jaeger.htm	article not through library proxy							
	http://pewinternet.org/Reports/2012/Digital-differences-aspx	article not through library proxy		1.00					
	http://www.ted.com/talks/margaret_stewart_how_youtube_thinks_about-copyright.html	tedtalks -- how ironic; about copyright while inducing copyright infringement			40.00	14/40	0.350		
INLS 500-001	no information available								
INLS 513-002	http://www.firstmonday.org/issues/issue8_5/keller/.	firstmonday not through library proxy		1.00				google analytics	
	http://vimeo.com/27414701	vimeo						conviva, doubleclick, google analytics, scorecard research beacon	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.publishersweekly.com/article/CA6696290.html.	article not through library proxy		1.00				bizo, chartbeat, doubleclick, facebook connect, google analytics, quantcast, scorecard research beacon, twitter badge	
	http://www.ithaka.org/ithaka-s-r/strategy/ithaka-casestudies-in-sustainability/report/SCA_Ithaka_SustainingDigitalResources_Report.pdf.	pdf not through sakai	1.00						
	http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/3060/2640	firstmonday not through library proxy		1.00	5.00	4/5	0.800	addthis, google analytics	
INLS 525	http://inls525fall2013.web.unc.edu	login required							
	http://infotech.monash.edu/research/groups/rcrg/publications/recordscontinuumfupp1.html.	not found 404						google analytics	
	http://infotech.monash.edu/research/groups/rcrg/publications/recordscontinuumfupp2.html.	not found 404						google analytics	
	http://www.interpares.org/ip2/display_file.cfm?doc=ip2_book_appendix_02.pdf	pdf not through sakai	1.00						
	http://www.archivists.org/publications/proceedings/NewSkillsForADigitalEra.pdf	pdf not through sakai	1.00					google analytics	
	http://www2.archivists.org/groups/college-and-university-archives-section							google analytics	
	http://www2.archivists.org/standards/guidelines-for-college-and-universityarchives							google analytics	
	http://www2.archivists.org/publications/epubs/Campus-Case-Studies							google analytics	
	http://www.crl.edu/sites/default/files/attachments/pages/trac_0.pdf	pdf not through sakai	1.00						
	http://www.dcc.ac.uk/sites/default/files/DRAMBORA_Interactive_Manual%5B1%5D.pdf	pdf not through sakai	1.00						
	http://www.aiim.org/Resources/Archive/Magazine/2006-May-Jun/31405	article not through sakai (and broken link)		1.00					
	http://www.arma.org/bookstore/files/Fischer1.pdf	pdf not through sakai	1.00						
	http://www.aiim.org/Resources/Archive/Magazine/2006-May-Jun/31458	article not through sakai (and broken link)		1.00					

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	http://www.arma.org/bookstore/files/Torres.pdf	pdf not through sakai		1.00					
	http://universal100.tumblr.com/	tumblr, universal						google analytics, quantcast, scorecard research beacon	
	http://www.universal100th.com/	universal.com						facebook connect, facebook social plugins, google analytics, twitter badge	
	http://findarticles.com/p/articles/mi_qa3937/is_200505/ai_n13638967/	resolves to search.com						google analytics, netratings sitecensus, scorecard research beacon	
	http://www.thesedonaconference.org/content/miscFiles/publications_html	sedona							
	http://www.cohasset.com/retrievePDF.php?id=10	pdf not through sakai	1.00						
	http://www.statearchivists.org/seri/SERI%20Phase%20One%20Report%20-%20final%20review%20draft%20-%202012-06.pdf	pdf not through sakai	1.00						
	http://jitc.fhu.disa.mil/cgi/rma/standards.aspx	.mil website							
	http://public.ccsds.org/publications/archive/650x0b1.PDF	pdf not through sakai	1.00						
	http://www.library.cornell.edu/dlit/MathArc/web/StoryFrameset.html	.edu						piwik analytics	
	http://www.arma.org/bookstore/files/Fischer1.pdf	pdf not through sakai	1.00						
	http://www.aiim.org/Resources/Archive/Magazine/2006-May-Jun/31405								
	http://www.aiim.org/Resources/Archive/Magazine/2006-May-Jun/31458								
	http://www.arma.org/bookstore/files/Torres.pdf	pdf not through sakai	1.00						
	http://www.statearchivists.org/seri/SERI%20Phase%20One%20Report%20-%20final%20review%20draft%20-%202012-06.pdf	pdf not through sakai	1.00						
	http://www.crl.edu/sites/default/files/attachments/pages/trac_0.pdf	pdf not through sakai	1.00						
	http://wiki.digitalrepositoryauditandcertification.org/bin/view								
	http://www.facebook.com/NARACAST	facebook (NARA)							
	http://www.imaging.org/ist/conferences/archiving/							google analytics, google widgets	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.bfound.net/detail.aspx?jobId=108628&CoId=164&rq=6	nz dept of internal affairs job listings						google analytics, google widgets	
	http://www.preservationandarchivingsig.org/events/2012/program.html								
	http://www.alliancepermanentaccess.org/							google analytics, livefyre, openx, twitter button	
	http://www.scape-project.eu/category/newsletters							google analytics	
	http://wsustudentndsa.wordpress.com/							facebook social plugins, gravatar, skimlinks, wordpress stats	
	http://bpexchange.org/								
	http://www.unesco.org/new/en/communication-andinformation/events/calendar-of-events/events-websites/the-memory-of-the-world-in-thedigital-age-digitization-and-preservation/								
	http://www.clir.org/pubs/archives/ensuring.pdf	pdf not through sakai	1.00						
	http://www.digitalpreservation.gov/you/							foresee, omniture (adobe analytics)	
	(http://www.slideshare.net/NARACAST/ncsa-posterhandout)	slideshare							
	http://spie.org/x57241.xml?ArticleID=x57241	available as pdf						addthis, google adsense, optimizely, webtrends	
	http://www.archives.gov/applied-research/events/magic.html.							addthis, foresee, google analytics, webtrends	
	http://www.digitalvaults.org/							google analytics	
	http://docsteach.org/							addthis, google analytics	
	http://www.archives.gov/publications/prologue/2010/fall/docsteach.html							addthis, foresee, google analytics, webtrends	
	http://kdla.ky.gov/records/Documents/Cloud%20Computing%20Guidelines%20Version%201.pdf	pdf not through sakai	1.00						

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	http://www.nascio.org/publications/								
	http://www.jisclegal.ac.uk/ManageContent/ManageContent/tabid/243/ID/2135/JISCLegal-Cloud-Computing-and-the-Law-Toolkit-31082011.aspx								
	http://www.clearwellsystems.com/e-discovery-blog/2010/09/03/e-discovery-and-thecloud-possession-custody-and-control/							google analytics, leadlander, sharethis	
	http://www.ukoln.ac.uk/services/elib/papers/supporting/pdf/p2.pdf	pdf not through sakai	1.00						
	http://www.dpconline.org/component/docman/doc_download/798-twrdigitalforensicspreviewoct2012								
	http://www.ietf.org/rfc/rfc3227.txt.	page not found						piwik analytics	
	http://perpos.gtri.gatech.edu/publications/TR%2009-05-Final%20Report.pdf	pdf not through sakai	1.00					addthis, google analytics	
	http://www.renci.org/news/features/putting-data-in-its-place	renci			55.00	19/55	0.345	google analytics	
INLS 581-002	http://ella.slis.indiana.edu/~sugimoto/preprints/Beyondgatekeepersofknowledge.pdf.	pdf not through sakai	1.00						
	http://knowledge.sagepub.com/view/statistics/SAGE.xml?rskey=MICOQP&row=1	article not through unc library proxy		1.00				addthis, broswerupdate, checkm8, google analytics, new relic	
	http://en.wikipedia.org/wiki/Amazon_Mechanical_Turk	wikipedia							
	http://www.tandfonline.com/doi/full/10.1080/1369118X.2010.513417	article not through unc library proxy		1.00	4.00	3/4	0.750	addthis, google analytics	
INLS 582-001	http://www.newsobserver.com/2012/06/05/2112794/road-worrier-bell-tower-roundabout.html	article not through unc library proxy		1.00				doubleclick facebook connect, gomez, google adsense, google analytics, netratings sitecensus, omniture (adobe analytics), press+, quantcast, simpli.fi, wishabi	
	pdf from http://www.auto-ui.org		1.00					piwik analytics	

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	Gellatly, A., Hansen, C., Highstrom, M & Weiss, J. (2010). Journey: General Motors' move to incorporate contextual design into its next generation of automotive HMI designs.	pdf not through sakai	1.00						
	http://www.pmi.org/							adjuggler, doubleclick floodlight, ethnio, omniture (adobe analytics), webtrends	
	Gottesdiener, E. (2002). Top ten ways project teams misuse use cases -- and how to correct them: Part I: Content and style issues The Rational Edge, June 2002. [Explorer may work better than Firefox]	pdf not through sakai	1.00						
	Gottesdiener, E. (2002). Top ten ways project teams misuse use cases -- and how to correct them: Part II: Eliciting and modeling use cases The Rational Edge, July 2002. [Explorer may work better than Firefox]	pdf not through sakai	1.00						
	Bell, D. (2003). UML Basics Part II: The activity diagram. The Rational Edge, September 2003. [optional]	pdf not through sakai	1.00						
	Read about the Federal Government's Section 508. I recommend: 508 Law; Summary of 508 Standards; Accessability Tools and Support; FAQs	http://www.section508.gov/							
	Look at W3C's Web Accessibility Initiative, including the Web Content Accessibility Guidelines Overview	http://www.w3.org/WAI/, http://www.w3.org/WAI/intro/wcag.php							
INLS 623	resources wiki: https://accounts.google.com/ServiceLogin?service=jotspot&passive=1209600&continue=https%3A%2F%2Fsites.google.com%2Fsite%2Finls623classresources%2F&followup=https%3A%2F%2Fsites.google.com%2Fsite%2Finls623classresources%2F&authuser=0	google account required							
	resources wiki listerserv: "inls623@listserv.unc.edu"	listserv.unc.edu							
	Place your work in our class work wiki, which is open to the class (but no one else). We will learn MySQL in class, but you will be expected to learn a large part of it yourself outside of class. There are lots of references on the web. To get started read the MySQL tutorial . Please see the Resources section below for pointers to workshops and other materials for learning MySQL."								

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	class work wiki: https://accounts.google.com/ServiceLogin?service=jotspot&passive=1209600&continue=https%3A%2F%2Fsites.google.com%2Fsite%2Finls623fall2013classwork%2F&followup=https%3A%2F%2Fsites.google.com%2Fsite%2Finls623fall2013classwork%2F&authuser=0	google account required							
	You will be given MySQL accounts on pearl.ils.unc.edu. Your account name and login will be db2_X where X is a number between 1 and 24. Your number can be found in our Class Work Wiki, under the "Class_MySQL_IDs" page.	pearl.ils.unc.edu							
	Resources: I make every attempt to use high quality, current, freely available resources for our class. This allows you to always have convenient access to a resource, and saves trees :-).	"freely available resources" whenever possible							
	https://dev.mysql.com/doc/refman/5.0/en/tutorial.html All other readings are available electronically or on reserve in the SILS Information and Technology Resource Center on the first floor of Manning Hall.	mysql.com						omniture (adobe analytics)	
	http://www.w3schools.com/xml/default.asp							google adsense doubleclick, facebook social plugins, google ajax search API, google analytics	
	http://www.w3schools.com/xml/xml_quiz.asp							doubleclick, facebook social plugins, google ajax search API, google analytics	
	http://www.w3schools.com/schema/default.asp							google adsense	
	http://www.rpbourret.com/xml/XMLAndDatabases.htm http://www.rpbourret.com/xml/XMLDBLinks.htm http://www.rpbourret.com/xml/XMLURLs.htm http://ils.unc.edu/courses/2013_fall/inls623_001/XML-DB-docs/XML-SQL.htm				11.00	5/11	0.454	google adsense google adsense hitslink	
INLS 786	"A suggested reading list of both LIS and general marketing books, journals, videos, blogs, and other websites will be provided for you. From time to time thoroughout the course you will be asked to share your suggestions and recommendations for useful additional resources.	no other resources besides textbooks available on website							

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	http://ils.unc.edu/courses/2013_fall/inls786_001/syl2013.html								
INLS 585-002	http://inls585fa13.web.unc.edu/								
	"The majority of the readings will be available through the UNC Libraries' collections, and students will purchase access to one business case simulation."								
	http://www.humanmetrics.com/cgi-win/JTypes1.htm								
	http://inls585fa13.web.unc.edu/2013/08/26/welcome-to-inls-585/#comments	course discussion forum is completely open to public, including results of students' "personality type" tests (tied to students by name)							
		.edu						eloquia, google analytics, oracle live help	
	https://cb.hbsp.harvard.edu/cbmp/import/ptos/22786141								
		google docs							
	https://docs.google.com/presentation/d/1fY5xZb2K9rbm3mC_AsTI-L6AcDj3wcoN-63jJEB6-tU/edit#slide=id.p								
	https://www.youtube.com/watch?v=xZ1b6Tjek68&feature=player_embedded&list=PL41BF20388A0E8CD0	youtube			6.00				
INLS 752	http://ils.unc.edu/courses/2013_fall/inls752_001/								
	http://www.library.cornell.edu/preservation/tutorial/contents.html.	not found							
	http://www.library.cornell.edu/iris/tutorial/dpm/index.html	resolves to http://dpworkshop.org/index.html							
	listserv: INLS752-Fall2013@sakai.unc.edu								
	http://dpworkshop.org/index.html								
	www.stores.lulu.com	tibbo's textbook sale site						optimizely, tealium	
	http://john.curtin.edu.au/society/australia/	.edu australia						google analytics	
	http://www.ijdc.net	article not through unc library proxy		1.00					
	http://pkp.sfu.ca/ojs/							piwik analytics, share this, twitter button	
	http://ils.unc.edu/digccurr/digccurr-matrix.html								
	http://www.dcc.ac.uk/docs/publications/DCCLifecycle.pdf	pdf not through sakai	1.00						
	http://public.ccsds.org/publications/archive/650x0m2.pdf	pdf not through sakai	1.00						
	http://www.youtube.com/watch?v=pbBa6Oam7-w	youtube							
	http://www.ils.unc.edu/digccurr/jcdl2007_paper.pdf	pdf not through sakai	1.00						
	http://www.youtube.com/watch?v=UG6AodGkWZs	youtube							
	http://www.youtube.com/watch?v=qEmmeFFafUs&feature=related	youtube							
	http://pne.people.si.umich.edu/PDF/howtoread.pdf	pdf not through sakai	1.00						

KEY

3dp pdfs:	third party PDFs
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dataveillance:	dataveillance mechanisms detected on webpage
convertible:	material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.dcc.ac.uk/digital-curation/what-digital-curation							google analytics, share this	
	http://www.youtube.com/watch?v=2Idbur1qR8I	youtube							
	http://www.slideshare.net/FuturePerfect_/jeff-rothenberg-digital-preservation-perspective	slideshare						facebook connect, google +1, google analytics, linked in widgets, scorecard research beacon, twitter button	
	http://www.americanscientist.org/issues/pub/avoiding-a-digital-dark-age/1	article not through unc library proxy		1.00				advertserve, google adsense, google analytics, share this	
	http://www.youtube.com/watch?v=PSlMzirvsFc	youtube							
	http://www.nytimes.com/2009/02/08/jobs/08starts.html?_r=2&emc=eta1	article not through library proxy	1.00					doubleclick, google adsense, krux digital, moat, new york times, tacoda, webtrends	
	http://www.cmswire.com/cms/information-management/partnerships-new-and-old-preservation-in-the-21st-century-saa12-016899.php	"CMSWire.com is a popular web magazine published by Simpler Media Group, Inc."						adroll, aweber, chartbeat, datapoint media, disqus, doubleclick, evergate, facebook connect, google 1, google adwords conversion, google analytics, linkedin widgets, marketo, polldaddy, quantcast, stumbleupon widgets, twitter advertising, twitter button, typekit by adobe	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.emc.com/collateral/analyst-reports/diverse-exploding-digital-universe.pdf	pdf not through sakai	1.00						
	http://www.gartner.com/it/page.jsp?id=1282513	could be pdf in sakai							1.00
	http://www.gartner.com/it/page.jsp?id=2079215	could be pdf in sakai							1.00
	http://www.gartner.com/it/page.jsp?id=2044716	could be pdf in sakai							1.00
	http://www.psfk.com/2012/07/twitter-museum-olympics.html							addthis, doubleclick, facebook connect, google analytics, google tag manager quantcast, sailthru horizon, statcounter, trueanthem, xaxis	
	http://www.arl.org/storage/documents/publications/nrnt_digital_curation17mar11.pdf	pdf not through sakai	1.00						
	http://www.youtube.com/watch?v=lyBWuuXa-hg&feature=related	youtube							
	http://www.library.cornell.edu/preservation/tutorial/contents.html	.edu						webtrends	
	http://www.library.cornell.edu/preservation/tutorial/intro/intro-01.html	.edu						webtrends	
	http://www.dcc.ac.uk/resource/glossary/							google analytics, share this	
	http://www.dpworkshop.org/dpm-eng/timeline/index.html								
	http://www.nature.com/nature/journal/v461/n7261/full/461145a.html	article not through library proxy or sakai		1.00				doubleclick, ensighten	
	http://cip.cornell.edu/DPubS/Repository/1.0/Disseminate?view=body&id=pdf_1&handle=cul.pub/1238609304	.edu							

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.economist.com/node/21553410	article not through library proxy or sakai		1.00				adroit digital solutions, adroll, bizo, brightcove, chartbeat, doubleclick, effective measure, facebook connect, google +1, google ajax search api, google analytics, klaustech, linkedin widgets, maxymiser, omniture (adobe analytics), perfect market, quantcast, sojorn, sub2, twitter button, valueclick media, visual website optimizer	
	http://cip.cornell.edu/DPubS/Repository/1.0/Disseminate?view=body&id=pdf_1&handle=cul.pub/1238609304	.edu							
	http://connect.ala.org/files/43293/MCTF_Draft_Recommendation.pdf	pdf not through sakai	1.00						
	http://www.library.cornell.edu/preservation/tutorial/contents.html	.edu						webtrends	
	http://crln.acrl.org/content/69/10/598.full.pdf+html	pdf not through sakai	1.00						
	http://www.digitizationguidelines.gov/							foresee, omniture (adobe analytics)	
	http://www.ncecho.org/dig/digguidelines.shtml							addthis, google analytics	
	http://www.nyu.edu/its/humanities/ninchguide/I/	pdf not through sakai	1.00					google analytics	
	http://www.nedcc.org/education/training.calendar.php								
	http://www.jiscdigitalmedia.ac.uk/							google analytics, twitter badge	

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KEY

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.imls.gov/applicants/sample_applications.aspx							add this, google analytics	
	http://www.archives.gov/nhprc/apply/program.html							addthis, foresee google analytics, webtrends	
	http://www.neh.gov/							google analytics, typekit by adobe	
	http://www.clir.org/pubs/reports/pub63	pdf not through sakai	1.00						
	http://www.bl.uk/blpac/pdf/wigan.pdf	pdf not through sakai	1.00						
	http://www.dpconline.org/advocacy/mind-the-gap	available as pdf						add this, google analytics	
	http://www.digitalpreservationeurope.eu/publications/position/Ross_Harvey_black_hole_PPP.pdf	pdf not through sakai	1.00						
	http://eprints.erpanet.org/48/01/Digitalarchiving.pdf	pdf not through sakai	1.00						
	http://www.digitalpreservation.gov/documents/ndiipp_plan.pdf	pdf not through sakai	1.00						
	http://www.digitalpreservation.gov/partners/research.html							foresee, omniture (adobe analytics)	
	http://www.ecdl2007.org/Keynote_ECDL2007_SROSS.pdf	pdf not through sakai	1.00						
	http://cordis.europa.eu/fp7/ict/telearn-digicult/report-research-digital-preservation_en.pdf	pdf not through sakai	1.00						
	http://dataconservancy.org/							google analytics	
	https://www.dataone.org/							google analytics, piwik analytics, twitter button	
	http://datafed.org/								
	http://sead-data.net/	eu						share this, twitter button	
	http://www.3d-coform.eu/	eu							
	http://blogforever.eu/	eu						google analytics	
	http://www.cultura-strep.eu/home	eu						google analytics	
	http://www.liwa-project.eu/	eu						google analytics	
	http://www.parse-insight.eu/	eu							
	http://www.planets-project.eu/	eu							
	http://www.openplanetsfoundation.org/	eu						flickr badge, google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://4cproject.net/	eu						gravatar, skimlinks, wordpress stats	
	http://david-preservation.eu/	eu						piwik analytics	
	http://www.diachron-fp7.eu/	eu						google analytics, quantcast, twitter button	
	http://mesch-project.eu/	eu						flickr badge, google analytics	
	https://www.prestocentre.org/4u/about	eu						google analytics, typekit by adobe	
	http://succeed-project.eu/?q=about	eu						google analytics	
	http://transcriptorium.eu	eu							
	http://www.alliancepermanentaccess.org/index.php/current-projects/aparsen/	eu						google analytics, livefyre, openx, twitter button	
	http://public.ccsds.org/publications/archive/650x0m2.pdf	pdf not through sakai	1.00						
	http://www.icpsr.umich.edu/dpm/dpm-/foundation/oais/index.html	not found							
	http://www.dpconline.org/docs/lavoie_OAIS.pdf	pdf not through sakai	1.00						
	http://dca.lib.tufts.edu/features/nhprc/								
	http://www.libraryjournal.com/article/CA6639327.html	article not via unc library proxy		1.00				facebook connect, google adsense, google ajax search api, google analytics, lockerz share, twitter button	
	http://www.arl.org/resources/pubs/br/br226/br226ir.shtml	pdf not through sakai	1.00						
	http://roar.eprints.org/								
	http://digital.library.wisc.edu/1793/22088	available as pdf							
	http://journals.tdl.org/jodi/index.php/jodi/article/view/193/177	article not via unc library proxy		1.00				google analytics	
	http://www.clir.org/pubs/reports/pub140/pub140.pdf	pdf not through sakai	1.00						
	http://aida.jiscinvolve.org/wp/	may require accessing google docs						google analytics	
	http://www.nedcc.org/resources/leaflets/6Reformatting/08DigitalPreservationReadiness.php							google analytics	
	http://www.dpworkshop.org/dpm-eng/challenges/index.html								
	http://www.heritagepreservation.org/HHI/HHIsummary.pdf	pdf not through sakai	1.00						
	http://worldcat.org/arcviewer/1/OCC/2007/08/08/0000070511/viewer/file3612.html#article0								

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.nedcc.org/resources/digtools.php							google analytics	
	http://www.firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1921/1803	firstmonday not through library proxy or sakai		1.00				add this, google analytics	
	http://www.nedcc.org/assets/media/documents/DigitalPreservationSelfAssessmentfinal.pdf	pdf not through sakai	1.00						
	http://www.niso.org/publications/rp/framework3.pdf	pdf not through sakai	1.00						
	http://memory.loc.gov/ammem/techdocs/prjplan.html							foresee, omniture (adobe analytics)	
	http://www.nyu.edu/its/humanities/ninchguide/II/	pdf not through sakai	1.00						
	http://www.jiscdigitalmedia.ac.uk/crossmedia/advice/project-management-for-a-digitisation-project/							google analytics, twitter button	
	http://eprints.ucl.ac.uk/11758/	pdf not through sakai	1.00						
	http://ucl.ac.ak								
	http://www.jisc.ac.uk/media/documents/publications/keepingresearchdatasafe0408.pdf	pdf not through sakai	1.00						
	http://beagrie.com/krds-i2s2.php							google analytics, piwik analytics	
	http://www.library.cornell.edu/preservation/tutorial/management/management-05.html								
	http://public.ccsds.org/publications/archive/652x0m1.pdf	pdf not through sakai	1.00						
	http://www.ijdc.net/index.php/ijdc/article/viewFile/118/136	pdf not through sakai	1.00						
	http://worldcat.org/arcviewer/1/OCC/2007/08/08/0000070511/viewer/file674.html#feature2								
	http://www.loc.gov/standards/premis/understanding-premis.pdf	pdf not through sakai	1.00						
	http://www.dlib.org/dlib/september08/dappert/09dappert.html	article not via unc library proxy		1.00					
	http://www.getty.edu/research/publications/electronic_publications/intrometadata/	.edu						google analytics, share this	
	http://www.loc.gov/standards/premis/							foresee, omniture (adobe analytics)	
	http://www.library.cornell.edu/preservation/tutorial/metadata/metadata-01.html	.edu						webtrends	
	http://www.niso.org/standards/resources/UnderstandingMetadata.pdf	pdf not through sakai	1.00						
	http://www.nationalarchives.gov.uk/documents/selecting-file-formats.pdf	pdf not through sakai	1.00						
	http://www.cendi.gov/publications/CENDI_PresFormats_WhitePaper_03092007.pdf	pdf not through sakai	1.00						

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3dp pdfs:	third party PDFs
web e-r:	electronic resources on web
3dp/e-r:	number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
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convertible:	material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.interpares.org/display_file.cfm?doc=ip2_file_formats(complete).pdf	pdf not through sakai	1.00						
	http://www.digitalpreservation.gov/ndsa/							foresee, omniture (adobe analytics)	
	http://www.naa.gov.au/images/xena_brochure%5B1%5D_tcm2-918.pdf	pdf not through sakai	1.00						
	http://hul.harvard.edu/ois/digpres/guidance.html	.edu						google analytics	
	http://www.fcla.edu/digitalArchive/pdfs/recFormats.pdf	pdf not through sakai	1.00						
	http://www.kb.nl/hrd/dd/dd_links_en_publicaties/publicaties/KB_file_format_evaluation_method_27022008.pdf	pdf not through sakai	1.00						
	http://www.ariadne.ac.uk/issue63/thompson/	article not through unc library proxy		1.00				google analytics, share this	
	http://www.dpconline.org/component/docman/doc_download/375-file-formats-for-preservation	pdf not through sakai	1.00						
	http://dablog.ulcc.ac.uk/2009/12/03/ffods/								
	http://www.library.yale.edu/iac/DPC/FileIDandValidate.pdf	pdf not through sakai	1.00						
	http://www.digitalpreservation.gov/formats/index.shtml							foresee, omniture (adobe analytics)	
	http://www.hpl.hp.com/techreports/2005/HPL-2005-120.pdf	pdf not through sakai	1.00						
	http://www.diglib.org/forums/spring2009/presentations/Farmer.pdf	pdf not through sakai	1.00						
	http://www.digitalpreservation.gov/news/events/other_meetings/storage10/							foresee, omniture (adobe analytics)	
	http://www.dmclab.jp/~kaneko/dmcsympo20081024/pdf/Maltz-20081024.pdf	pdf not through sakai	1.00						
	http://www.ijdc.net/index.php/ijdc/article/viewFile/138/173	pdf not through sakai	1.00						
	http://www.dlib.org/dlib/june98/06bearman.html								
	http://www.clir.org/pubs/reports/pub92/pub92.pdf	pdf not through sakai	1.00						
	http://www.dcc.ac.uk/webfm_send/121	pdf not through sakai	1.00						
	http://www.icpsr.umich.edu/icpsrweb/ICPSR/curation/selection.jsp							google ajax search api, google analytics	
	http://www.clir.org/pubs/reports/hazen/matrix.html	article not through unc library proxy		1.00				google analytics	
	http://www.arl.org/bm~doc/arlbr250digprinciples.pdf	pdf not through sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.nedcc.org/resources/leaflets/6Reformatting/06PreservationAndSelection.php							google analytics	
	http://www.library.cornell.edu/preservation/tutorial/selection/selection-01.html							webtrends	
	http://www.ncecho.org/guide/selection.asp							add this, google analytics	
	http://www.niso.org/framework/framework2.html	not found							
	http://www.clir.org/pubs/abstract/pub141abst.html	article not through unc library proxy		1.00				google analytics	
	http://catalog.crl.edu/search~S1?/Xtrusted+repositories&searchscope=1&SORT=R/Xtrusted+repositories&searchscope=1&SORT=R&SUBKEY=trusted%20repositories/1,15,15,B/l856~b2212602&FF=Xtrusted+repositories&searchscope=1&SORT=R&6,6,,1,0	pdf not through sakai	1.00						
	http://public.ccsds.org/publications/archive/652x0m1.pdf	pdf not through sakai	1.00						
	http://www.repositoryaudit.eu/								
	http://blogs.archives.gov/online-public-access/?p=4697							add this, google analytics, gravatar	
	http://www.dlib.org/dlib/july06/ross/07ross.html								
	http://www.bl.uk/aboutus/stratpolprog/ccare/introduction/digital/digpresstrat.pdf	pdf through sakai	1.00						
	http://www.library.cornell.edu/iris/tutorial/dpm/terminology/strategies.html	not found							
	http://www.metapress.com/content/1765364485n41800/fulltext.pdf	pdf not through sakai	1.00						
	http://blogs.ukoln.ac.uk/jisc-beg-dig-pres/content/how-do-i-preserve-digital-objects/preservation-strategy/	not found							
	http://www.naa.gov.au/recordkeeping/er/digital_preservation/Green_Paper.pdf	pdf not through sakai	1.00						
	http://www.clir.org/pubs/reports/pub107/thibodeau.html							google analytics	
	http://www.ijdc.net/index.php/ijdc/article/viewFile/141/177	pdf not through sakai	1.00						
	http://www.loc.gov/standards/premis/Rights-in-the-PREMIS-Data-Model.pdf	pdf not through sakai	1.00						
	http://www.unc.edu/~unclng/America%27s%20cultural%20record.htm	unc.edu							
	http://www.copyright.cornell.edu/training/copyrightterm.pdf	pdf not through sakai	1.00						

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	http://fairuse.stanford.edu/commentary_and_analysis/2003_11_hirtle.html							disqus, facebook connect, google +1, google analytics, linkedin widgets, pinterest, sharethis, tumblr buttons, twitter button, wordpress stats	
	http://www.digitalpreservation.gov/library/resources/pubs/docs/digital_preservation_final_report2008.pdf	pdf not through sakai	1.00						
	http://www.section108.gov/docs/Sec108ExecSum.pdf	pdf not through sakai	1.00						
	http://www.nedcc.org/resources/leaflets/3Emergency_Management/03DisasterPlanning.php							google analytics	
	http://www.icpsr.umich.edu/icpsrweb/ICPSR/curation/disaster/dp-planning.jsp	.edu						google ajax search api, google analytics	
	http://www.itl.nist.gov/lab/bulletns/bltnjun02.htm								
	http://deepblue.lib.umich.edu/bitstream/2027.42/63088/1/1450450379_ftp.pdf	pdf not through sakai	1.00						
	http://www.archivalmetrics.org/								
	http://www.slideshare.net/tjowens/the-crowd-and-the-library	slideshare						facebook connect, google +1, google analytics, linkedin ads, linkedin widgets, scorecard research beacon, twitter button	
	http://support.google.com/analytics/?hl=en	google						google analytics	
	http://awstats.sourceforge.net/	http://slashdotmedia.com/opt-out-choices/						facebook connect, google +1, google adsense, google analytics, twitter button	

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APPENDIX A: SILS COURSES REVIEWED

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.imls.gov/pdf/Reviewer_101_LB21_Narrated_Web_Presentation.pdf	pdf not through sakai	1.00						
	http://www.imls.gov/pdf/Printout_of_Reviewer_101_web_presentation.pdf	pdf not through sakai	1.00						
	http://www.imls.gov/pdf/2011_NLG_Panelist_Handbook.pdf	pdf not through sakai	1.00						
	http://www.ijdc.net/index.php/ijdc/article/viewFile/143/205	pdf not through sakai	1.00						
	http://www.repositoryaudit.eu/	eu							
	http://brtf.sdsc.edu/biblio/BRTF_Final_Report.pdf	pdf not through sakai	1.00						
	http://brtf.sdsc.edu/about.html								
	http://brtf.sdsc.edu/biblio/Cost_Literature_Review.pdf	pdf not through sakai	1.00						
	http://www.dlib.org/dlib/july04/lavoie/07lavoie.html	article not through unc library proxy		1.00					
	http://www.rand.org/pubs/technical_reports/TR510.html	available as pdf						facebook connect, google +1, google analytics, twitter button, typekit by adobe	
	http://www.digitalpreservation.gov/formats/sustain/sustain.shtml							foresee, omniture (adobe analytics)	
	http://www.nla.gov.au/policy/digpres.html.	not found						google analytics	
	http://news.sciencemag.org/scienceinsider/2010/05/nsf-to-ask-every-grant-applicant.html	article not through unc library proxy		1.00				addthis, crazy egg, disqus, google analytics, xaxis	
	http://www.nyu.edu/its/humanities/ninchguide/XI/	pdf not through sakai	1.00						
	http://www.clir.org/pubs/abstract/pub118abst.html	available as pdf			183.00	77/183	0.420		
INLS 513-001	http://www.acqweb.org/acqnetnew								
	http://serials.infomotions.com/colldv-l/								
	http://www.webjunction.org/collection-development							omniture (adobe analytics), typekit by adobe	
	http://www.clir.org/pubs/reports/	article not through unc library proxy		1.00				google analytics	
	http://www.nytimes.com/2013/05/01/opinion/e-books-libraries-and-democracy.html?_r=0	article not through unc library proxy		1.00	5.00	2/5	0.400	doubleclick, google adsense, drux digital, mediamind, moat, new york times, news registry, webtrends	

<u>**KEY**</u>

3dp pdfs:	third party PDFs
web e-r:	electronic resources on web
3dp/e-r:	number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
dataveillance:	dataveillance mechanisms detected on webpage
convertible:	material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
INLS 520-002	no information available								
INSL 690-141	R = Reserves at SILS Library in Manning Hall								
	S = Course site in Sakai (https://sakai.unc.edu/)								
	O = Online through UNC license. NOTE: Accessing these								
	materials can require you either to use a computer with a UNC								
	IP address (generally, a SILS or UNC Library computer) or visit								
	the associated sites through a UNC proxy server. See:								
	http://proxy.lib.unc.edu/setupinfo.html								
	http://wiki.bitcurator.net/								
	http://www.syngress.com/digital-forensics/							facebook connect, google analytics, twitter button	
	http://www.dfrws.org/							google custom search engine	
	http://www.forensicswiki.org/								
	http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?reload=true &punumber=6479598	article not through unc library proxy		1.00				addthis, doubleclick, scout analytics, unica, webtrends	
	http://www.youtube.com/watch?v=DGrDLjFz6sI	youtube							
	http://www.clir.org/pubs/reports/pub149/pub149.pdf	pdf not through sakai	1.00						
	http://www.dlib.org/dlib/may12/lee/05lee.html	article not through unc library proxy		1.00					
	http://www.ukoln.ac.uk/services/elib/papers/supporting/pdf/p 2.pdf	pdf not through sakai	1.00						
	http://www.unixwiz.net/techtips/iguide-crypto-hashes.html								
	http://www.linfo.org/magic_number.html								
	http://mith.umd.edu/vintage-computers/fc5025-operation-instructions							google analytics	
	http://wiki.bitcurator.net/downloads/BitCurator-Quickstart-v0.3.4.pdf	pdf not through sakai	1.00					facebook social graph, google analytics, twitter badge, wordpress stats	
	http://www.youtube.com/watch?v=MshOHXIPIUY	youtube							
	http://simson.net/clips/academic/2006.CACM.AFF.pdf	pdf not through sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.bitcurator.net/2013/02/06/dfxml-tag-library/							facebook social graph, google analytics, twitter badge, wordpress stats	
	http://simson.net/clips/academic/2013.COSE.bulk_extractor.pdf	pdf not through sakai	1.00						
	http://www.myoops.org/twocw/harvard/distribution/lectures/8/articles8.pdf	pdf not through sakai	1.00						
	http://www.youtube.com/watch?v=coDc9lxxMak	youtube							
	http://simson.net/ref/2012/2012-08-08%20bulk_extractor%20Tutorial.pdf	pdf not through sakai	1.00						
	http://www.forensicswiki.org/wiki/Bulk_extractor								
	http://simson.net/clips/academic/2006.DFRWS.pdf	pdf not through sakai	1.00						
	http://simson.net/clips/academic/2009.IEEE.DOCX.pdf	pdf not through sakai	1.00						
	http://journal.code4lib.org/articles/8486	article not through unc library proxy		1.00				google analytics	
	http://cs.darthmouth.edu/farid/downloads/tutorials/digitalimageforensics.pdf	pdf not through sakai	1.00						
	http://www.techsec.com/pdf/Monday/Amber%20Schroader%20-%20E-Mail%20Forensics.pdf	pdf not through sakai	1.00						
	http://www.fbiic.gov/public/2011/jul/facebook_forensics-finalized.pdf	pdf not through sakai	1.00						
	http://www2.lib.virginia.edu/aims/whitepaper/AIMS_final.pdf	pdf not through sakai	1.00						
	http://www.oclc.org/content/dam/research/publications/library/2012/2012-08.pdf	pdf not through sakai	1.00						
	http://digitalcurationexchange.org/system/files/gengenbach-forensic-workflows-2012.pdf	pdf not through sakai	1.00						
	http://www.digpres.com/publications/woodsbrownarch09.pdf	pdf not through sakai	1.00						
	http://electronicrecords.net:8080/	login required							
	http://mediacommons.futureofthebook.org/mcpress/borndigital/							gravatar	
	http://www.ariadne.ac.uk/issue65/hilton-et-al/	article not through unc library proxy		1.00				google analytics, share this	
	http://www.dagstuhl.de/Materials/Files/10/10291/10291.LeeCal.Paper.pdf	pdf not through sakai	1.00						
	https://scholarsphere.psu.edu/files/0k225b067	available as pdf							
	http://www.jdfsl.org/subscriptions/JDFSL-V5N3-Bell.pdf	pdf not through sakai	1.00						
	http://dfrws.org/				34.00	22/34	0.647	google custom search engine	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
INLS 613	www.dmoz.org							omniture (adobe analytics), twitter button	
	cs.cmu.edu/pdf readings	pdf not through sakai	1.00						
	http://dl.acm.org/citation.cfm?id=1034678.1034679	article not through unc library proxy		1.00				addthis	
	http://www.cs.waikato.ac.nz/ml/weka/	WEKA must be downloaded from website							
	http://ciir-publications.cs.umass.edu	pdf not through sakai	1.00						
	https://en.wikipedia.org/wiki/Cross-validation_%28statistics%29	wikipedia							
	http://www.cs.cornell.edu pdf	pdf not through sakai							
	http://dl.acm.org/citation.cfm?id=1118704	article not through unc library proxy		1.00					
	http://www.kraut.hciresearch.org pdf reading	pdf not through sakai	1.00						
	http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=04565024&url=http%3A%2F%2Fieeexplore.ieee.org%2Fstamp%2Fstamp.jsp%3Farnumber%3D04565024	pdf not through sakai	1.00		10.00	6/10	0.600		
INLS 889	readings on ils.unc.edu	public							
	http://crlt.umich.edu pdf reading	pdf not through sakai	1.00						
	embedded video	infringement issue							
	nlp.stanford.edu pdf reading	pdf not through sakai	1.00						
	https://chronicle.com/article/How-to-Write-a-Statement-of/45133/	unc site license						disqus, doubleclick, eloqua, google analytics, inspectlet, omniture (adobe analytics), share this	
	http://teachingcenter.wustl.edu/About/ProgramsforGraduateStudentsandPostdocs/resources/Pages/Writing-a-Teaching-Philosophy-Statement.aspx							google analytics	
	https://www.princeton.edu/mcgraw/library/for-grad-students/teaching-statement/							google analytics	
	http://ucat.osu.edu/read/teaching-portfolio/philosophy							google ajax search api, google analytics, twitter button, wordpress stats	
	http://www1.umn.edu/ohr/teachlearn/tutorials/philosophy/index.html							google analytics	
	http://www.grad.illinois.edu/careerservices/othermaterials							google analytics	
	http://www.celt.iastate.edu/teaching/philosophy.html				10.00	2/10	0.200	google analytics	
INLS 500-002	http://ils.unc.edu/courses/2013_fall/inls500_002/								

APPENDIX A: SILS COURSES REVIEWED

KEY

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://ejournals.library.ualberta.ca/index.php/EBLIP/index	article not through unc library proxy		1.00				addthis, google analytics	
	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1629442/	available as pdf	1.00						
	http://informationr.net/ir/11-4/paper269.html.	article not through unc library proxy		1.00					
	http://informationr.net/ir/10-1/paper212.html.	article not through unc library proxy		1.00					
	http://www.educause.edu/educatingthenetgen.								
	http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/729/638.	firstmonday not through library proxy or sakai		1.00				add this, google analytics	
	http://library.uic.edu/	.edu						google custom search engine, reinvigorate	
	http://www.harpers.org/archive/2007/02/0081387.	article not through unc library proxy		1.00				disqus, google adsense, google analytics, share this, typekit by adobe	
	http://fairuse.stanford.edu	.edu						disqus, facebook connect, google +1, google analytics, linkedin widgets, pinterest, share this, tumblr buttons, twitter button, wordpress stats	
	http://www.youtube.com/watch?v=NkBX-981_es&feature=PlayList&p=19189F4C412A6E09&index=9	youtube							
	http://www.jmir.org/2010/3/e31/.	article not through unc library proxy		1.00				facebook connect, google +1, google analytics, twitter button	
	http://www.asis.org/Bulletin/Dec-07/janes.html.	article not through unc library proxy		1.00				google analytics	
	http://www.census.org							google analytics	
	http://escholarship.org/uc/cshe_fsc.	not found							
	http://www.oclc.org/research/publications/library/2009/2009-02.pdf.	pdf not through sakai	1.00						
	http://pewinternet.org/Reports/2011/HealthTopics.aspx.	broken link							
	http://journal.webscience.org/314/.	available as pdf							

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.pspcentral.org/documents/PSPWinter-Spring2011.pdf.	pdf not through sakai	1.00						
	http://rinarchive.jisc-collections.ac.uk/our-work/communicating-and-disseminating-research/communicating-knowledge-how-and-why-researchers-pu.							google analytics	
	http://www.aau.edu/WorkArea/DownloadAsset.aspx?id=10044 .	access forbidden						google analytics	
	www.stm-assoc.org/2009_10_13_MWC_STM_Report.pdf.	pdf not through sakai	1.00						
	http://www.arl.org/sparc/bm~doc/incomemodels_v1.pdf.	pdf not through sakai	1.00						
	http://jama.ama-assn.org/cgi/content/full/287/21/2859	article not through unc library proxy		1.00	23.00	13/23	0.565	addthis, doubleclick, google adwords conversion, google analytics, pingdom	
INLS 572	http://www.ils.unc.edu/courses/2013_fall/inls572_001/	no materials listed							
INLS 690-213	http://www2.lib.unc.edu/wilson/research/registration.html							google analytics	
	http://www.youtube.com/watch?v=5NWyruNYILw	youtube							
	http://www.youtube.com/watch?v=UOv0SOQ8B68	youtube							
	www.ilab.org/download.php?object=documentation&id=29	pdf not through sakai	1.00						
	https://list.indiana.edu/sympa/subscribe/exlibris-l	required sign-up to listserv							
	http://www.rbms.info/yob.shtml							add this, google analytics	
	http://www.jstor.org/stable/20024803	available as pdf						adobe tag container, adobe test & target, crazy egg, google analytics	
	http://www.mla.org/resources/documents/rep_primaryrecords	available as pdf						google ajax search api, google analytics	
	http://arts.gov/sites/default/files/ReadingAtRisk.pdf	pdf not through sakai	1.00						
	www.bibsocamer.org							google analytics	
	http://www.conservation-us.org/							google analytics,	
	http://www.celebratingresearch.org/intro/index.shtml							google custom search engine	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://rbms.info/index.shtml							add this, google analytics	
	http://rbm.acrl.org/content/rbml/3/1/19.full.pdf+html	pdf not through sakai	1.00						
	http://www.initiativefortbildung.de/pdf/sondersammlungen2005/schreyer. Pdf	pdf not through sakai	1.00						
	http://people.virginia.edu/~pm9k/libsci/enemy.html	article not through unc library proxy		1.00					
	http://rbm.acrl.org/content/rbml/14/1/27.full.pdf	pdf not through sakai	1.00	1.00					
	http://pds.lib.harvard.edu/pds/view/2573358?n=21864&s=4&printThumb nails=no								
	http://www.ala.org/acrl/standards/selctransfer							google analytics	
	http://www.abaa.org							facebook conversion tracking, google analytics	
	http://www.vialibri.net							addthis, commission junction, google analytics, linkshare	
	http://www.finebooksmagazine.com							addthis, google analytics, google adsense	
	http://www.thebookcollector.co.uk							google analytics, typekit by adobe	
	http://www.loc.gov/cds/PDFdownloads/dcrm/DCRM(B)_2008.pdf	pdf not through sakai	1.00						
	http://www.ala.org/acrl/standards/jointstatement		1.00					google analytics	
	http://www.ala.org/acrl/standards/security_theft							google analytics	
	http://www.folger.edu/documents/DurhamFirstFolio_transcript.pdf	pdf not through sakai	1.00						
	http://www.folger.edu/template.cfm?cid=3891	podcast						addthis, google analytics	
	http://rbms.info/committees/security/index.shtml							addthis, google analytics	
	http://rbms.info/committees/exhibition_awards/index.shtml							addthis, google analytics	
	http://www.ala.org/acrl/standards/specialcollections#exhibition							google analytics	
	http://rbms.info/committees/exhibition_awards/first_ten_years/index.html							addthis, google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.sil.si.edu/SILPublications/Online-Exhibitions/	.edu						google analytics	
	http://omeka.org	unclear if software must be downloaded						google analytics	
	http://www.arl.org/rtl/speccoll/				36.00	10/36	0.277	addthis, google analytics	
INLS 382	syllabus printed from sakai	no materials listed							
INLS 707	none listed								
INLS 753	textbook on reserve and available electronically via unc libraries: http://search.lib.unc.edu/search?R=UNCb4322555								
	http://www.nedcc.org/resources/leaflets/list.php							google analytics	
	http://www.heritagepreservation.org/HHI/index.html							google analytics, google custom search engine	
	http://www.heritagepreservation.org/HHI/HHIsummary.pdf	pdf not through sakai	1.00						
	http://books.google.com/books?id=3dtUgdRVK4YC&pg=PA23&dq=some+thoughts+on+the+race+against+time+mark+roosa&hl=en&sa=X&ei=lCoOU6-RJJbLsQTdyIGIDg&ved=0CCgQ6AEwAA#v=onepage&q=some%20thoughts%20on%20the%20race%20against%20time%20mark%20roosa&f=false	Google books						google analytics	
	http://www.conservationresources.com/Main/S%20CATALOG/Acid%20Deterioration.htm								
	http://www.nps.gov/museum/publications/conserveogram/14-03.pdf	pdf not through sakai	1.00						
	http://www.bl.uk/blpac/pdf/cd.pdf	pdf not through sakai	1.00						
	http://videopreservation.stanford.edu	.edu						google custom search engine	
	http://chnm.gmu.edu/digitalhistory/links/cached/preserving/8_34a_reformatting.htm	.edu							
	http://www.clir.org/pubs/abstract/pub141abst.html	article not through unc library proxy		1.00				google analytics	
	http://dpworkshop.org/dpm-eng/eng_index.html								
	http://www.nedcc.org/resources/leaflets/2The_Environment/01BasicGuidelines.php							google analytics	
	http://www.nedcc.org/resources/leaflets/3Emergency_Management/10PestManagement.php							google analytics	
	http://www.librisdesign.org/docs/CollectionPreservation.pdf	pdf not through sakai	1.00						
	http://www.bl.uk/aboutus/stratpolprog/ccare/collectioncarevideos/index.html	page not found						digital analytix, google analytics	
	https://www.youtube.com/MCLISPandP	youtube							
	http://www.nedcc.org/resources/leaflets/4Storage_and_Handling/01StorageMethods.php							google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.ala.org/acrl/standards/specialcollections							google analytics	
	http://www.nedcc.org/resources/leaflets/1Planning_and_Priorit izing/02PreservationAssessment.php							google analytics	
	http://www.nps.gov/museum/publications/conserveogram/02-12.pdf	pdf not through sakai	1.00						
	http://www.nedcc.org/free-resources/preservation-leaflets/3.-emergency-management/3.6-emergency-salvage-of-wet-books-and-records							google analytics	
	http://www.lyrasis.org/LYRASIS%20Digital/Documents/Preserva tion%20PDFs/contentdis lan.pdf	pdf not through sakai	1.00						
	http://www.arl.org/bm~doc/safeguarding-collections.pdf	pdf not through sakai	1.00		23.00	8/23	0.347		
INLS 461	http://ils.unc.edu/courses/2013_fall/inls461_001/index.html								
	http://inls261.blogspot.com/	Google blogging site; postings are required (http://ils.unc.edu/courses/2013_fall/inls461_001/s essions/01.basics/01.intro/01.01b.intro.1.1.html) and are COMPLETELY PUBLIC going back to 2007						google +1, google analytics	
	alertbox -- http://www.nngroup.com/articles/	required sign-up to listserv http://ils.unc.edu/courses/2013_fall/inls461_001/se ssions/01.basics/01.intro/01.01c.intro.1.2.html						crazy egg, google analytics, new relic, optimizely	
	technology review -- http://newsletters.technologyreview.com/	required sign-up to listserv http://ils.unc.edu/courses/2013_fall/inls461_001/se ssions/01.basics/01.intro/01.01c.intro.1.2.html						google analytics	
	http://www.infovis.net/printRec.php?rec=revista&lang=2								
		other, eu-based services are more privacy-protective						crazy egg, doubleclick, google analytics	
	http://whatismyipaddress.com/ip-lookup								

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://computer.howstuffworks.com	pretty much used as textbook			6.00			audience science, bluekai, dynamic logic, facebook social plugins, feedbackify, freewheel, google adsense, google tag manager, insight express, netratings sitecensus, omniture (adobe analytics), outbrain, quantcast, scorecard research beacon, spinnakr, twitter button	
INLS 520-003	http://firstmonday.org/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1123/1043	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://searchuserinterfaces.com/book/sui_ch4_query_specification.html	author's website							
	http://www.loc.gov/cds/downloads/FRBR.PDF	pdf not through sakai	1.00						
	http://www.ifla.org/files/cataloguing/frbr/frbr_2008.pdf	pdf not through sakai	1.00						
	http://www.clir.org/pubs/reports/pub92/smith.html	article not through unc library proxy		1.00				google analytics	
	http://www.nytimes.com/2011/06/26/opinion/sunday/26pubed.html	article not through unc library proxy		1.00				doubleclick, google adsense, krux digital, new york times, webtrends	
	http://annals.org/article.aspx?volume=143&page=222	article not through unc library proxy		1.00				addthis, doubleclick, google adwords conversion, google analytics	
	http://www.jstor.org/stable/27751880	not via unc library or sakai		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.nytimes.com/2010/12/28/science/28citizen.html	article not through unc library proxy		1.00				doubleclick, google adsense, krux digital, new york times, webtrends	
	http://kcoyle.net/jal-32-4.html	author's website							
	http://www.w3.org/Provider/Style/URI.html								
	http://blog.echonest.com/post/6824753703/announcing-echoprint	author's website						google analytics, quantcast, scorecard research beacon, statcounter	
	http://notes.variogr.am/post/10733372290/music-resolving-facebook	author's website						facebook social plugins, google +1, google analytics, pinterest, quantcast, scorecard research beacon, statcounter, twitter badge, twitter button	
	http://www.ietf.org/rfc/rfc4122.txt								
	http://www.controlledvocabulary.com/imagedatabases/filename_limits.html								
	http://firstmonday.org/article/view/1628/1543	firstmonday not through library proxy or sakai		1.00				add this, google analytics	
	http://www.rda-jsc.org/rda.html								
	http://www.rda-jsc.org/docs/5rda-objectivesrev3.pdf	pdf not through sakai	1.00						
	http://www.nla.gov.au/openpublish/index.php								google analytics
	http://www.apastyle.org/learn/tutorials/basics-tutorial.aspx								facebook connect, google +1, google analytics, linkedin widgets, twitter button

KEY

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web e-r:	electronic resources on web
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dataveillance:	dataveillance mechanisms detected on webpage
convertible:	material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.cio.com.au/article/166533/operation_clean_data/							crazy egg, doubleclick, facebook connect, google +1, google analytics, twitter badge	
	http://boxesandarrows.com/what-is-a-controlled-vocabulary/							gaug.es, google analytics, gravatar, typekit by adobe, wordpress stats	
	http://boxesandarrows.com/creating-a-controlled-vocabulary/							gaug.es, google analytics, gravatar, typekit by adobe, wordpress stats	
	http://boxesandarrows.com/synonym-rings-and-authority-files/							gaug.es, google analytics, gravatar, typekit by adobe, wordpress stats	
	http://boxesandarrows.com/controlled-vocabularies-a-glosso-thesaurus/							gaug.es, google analytics, gravatar, typekit by adobe, wordpress stats	
	http://www.sciencedirect.com/science/article/pii/S1364661308000557	available as pdf	1.00					google analytics, unica	

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	http://www.theatlantic.com/magazine/archive/1945/07/as-we-may-think/303881/.	article not through unc library proxy		1.00				bizo, bluekai, brightcove, buzzfeed, chartbeat, critoo, disqus, doubleclick, facebook connect, google +1, google analytics, linkedin widgets, netratings site census, omniture (adobe analytics), outbrain, parse.ly, peer39, reddit, scorecard research beacon, simplereach, taboola, twitter button, visual revenue	
	http://www.asis.org/SIG/cr.html. http://www.isko.org/. http://www.classification-society.org/. http://www.classification-society.org/csna/csna.html.	not found						google analytics	
	http://flamenco.berkeley.edu/papers/hcir08.pdf http://boxesandarrows.com/ranganathan-for-ias/	pdf not through sakai	1.00					gaug.es, google analytics, gravatar, typekit by adobe, wordpress stats	
	http://en.wikipedia.org/wiki/S._R._Ranganathan http://www.miskatonic.org/library/facet-web-howto.html	wikipedia						piwik analytics	
	http://koreascience.or.kr/article/ArticleFullRecord.jsp?cn=E1JSCH_2013_v1n1_69 http://www.paulgraham.com/spam.html	article not through unc library proxy		1.00				facebook connect lexity	
	http://dl.acm.org/citation.cfm?doid=1121949.1121951	article not through unc library proxy		1.00				addthis	

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	http://www.loc.gov/marc/umb/um01to06.html							foresee, omniture (adobe analytics)	
	http://people.oregonstate.edu/~reeset/marcedit/html/index.php	software; page not found							
	http://www.getty.edu/research/publications/electronic_publications/intrometadata/index.html	.edu						google analytics, share this	
	http://dublincore.org/resources/faq/							google analytics	
	http://www.w3.org/XML/1999/XML-in-10-points								
	http://dh.obdurodon.org/what-is-xml.xhtml								
	http://www.youtube.com/watch?v=3EUaurjK7u8	youtube							
	http://www.geneontology.org/							google analytics, twitter badge	
	http://www.w3schools.com/xml/xml_namespaces.asp							doubleclick, facebook social plugins, google ajax search api, google analytics	
	http://www.w3schools.com/webservices/ws_rdf_intro.asp							doubleclick, facebook social plugins, google ajax search api, google analytics	
								google analytics	
	http://digitaldiscussions.web.unc.edu/2012/08/17/recording-available-for-first-digital-discussions-session/	itunes --http://itunes.apple.com/us/itunes-u/digital-discussions/id554244100. page instructs visitor to download itunes -- "it's free"							
	http://www.youtube.com/watch?v=4x_xzT5eF5Q.	youtube							
	http://www.youtube.com/watch?v=uju4wT9uBIA.	youtube							
	http://linkeddata.org/								
	http://www.google.com/insidesearch/features/search/knowledge.html	google						google +1, google analytics	
	http://econsultancy.com/us/blog/62241-google-s-knowledge-graph-one-step-closer-to-the-semantic-web							adtech, doubleclick, facebook connect, google +1, google tag manager, gravatar, linkedin widgets, new relic, rollbar, twitter button	

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.mkbergman.com/1020/the-age-of-the-graph/							google analytics, sitemeter	
	http://onlinelibrary.wiley.com/doi/10.1002/bult.2011.1720370407/full	article not through unc library proxy		1.00				addthis, adobe tag container, doubleclick, google analytics, grapeshot	
	http://www.kcoyle.net/jal-31-3.html	author's website							
	http://www.kcoyle.net/jal-31-4.html	author's website							
	http://www.ansi.org/about_ansi/introduction/history.aspx?menuid=1							addthis, google analytics, unica	
	http://www.youtube.com/watch?v=kVMd87XZakI	youtube							
	http://www.standardsportal.org/usa_en/resources/sdo.aspx	part of ansi.org						google adsense	
	http://www.niso.org/about/								
	http://www.w3.org/Consortium/mission.html								
	http://www.loc.gov/library/							foresee, omniture (adobe analytics)	
	http://quod.lib.umich.edu/j/jep/3336451.0014.103?view=text;rgn=main	available as pdf						disqus, facebook social plugins, google analytics	
	http://www.betaversion.org/~stefano/linotype/news/143/	author's website							
	http://quod.lib.umich.edu/j/jep/3336451.0014.104?view=text;rgn=main	available as pdf			69.00	16/69	0.231	disqus, facebook social plugins, google analytics	
INLS 581-001	https://www.sciencedirect.com/science/article/pii/S1471772706000352	article not through unc library proxy		1.00				omniture (adobe analytics), optimizely	
	http://jmp.com/				2.00	1/2	0.500	google analytics	
INLS 101-002		"To protect your privacy, please use your UNC email for correspondence."							
	http://people.ischool.berkeley.edu/~glushko/DocumentEngineeringBookDraft/DEBook/ch2_FINAL.pdf	pdf not through sakai	1.00						
	http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch01.pdf	pdf not through sakai	1.00						
	http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch02.pdf	pdf not through sakai	1.00						
	http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch13.pdf	pdf not through sakai	1.00						

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	http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch14.pdf	pdf not through sakai	1.00						
	http://searchuserinterfaces.com/book/sui_ch3_models_of_information_seeking.html	author's website							
	http://searchuserinterfaces.com/book/sui_ch1_design.html	author's website							
	http://plato.stanford.edu/archives/spr2011/entries/ethics-computer/	.edu							
	http://www.theatlantic.com/magazine/archive/2008/07/is-google-making-us-stupid/306868/	article not through unc library proxy		1.00	9.00	6/9	0.660	bizo, bluekai, brightcove, buzzfeed, chartbeat, critoo, disqus, doubleclick, facebook connect, google +1, google analytics, linked widgets, netratings sitecensus, omniture (adobe analytics), outbrain, parse.ly, peer39, reddit, scorecard research beacon, simplereach, taboola, twitter button, visual revenue	
INLS 200-001									
INLS 261-002	http://ils.unc.edu/courses/2013_fall/inls261_002/info/01.syllabus.html								
	http://inls261.blogspot.com/	Google blogging site; postings are required (http://ils.unc.edu/courses/2013_fall/inls461_001/sessions/01.basics/01.intro/01.01b.intro.1.1.html) and are COMPLETELY PUBLIC going back to 2007						google +1, google analytics	
	alertbox -- http://www.nngroup.com/articles/	required sign-up to listserv http://ils.unc.edu/courses/2013_fall/inls461_001/sessions/01.basics/01.intro/01.01c.intro.1.2.html						crazy egg, google analytics, new relic, optimizely	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	technology review -- http://newsletters.technologyreview.com/	required sign-up to listserv http://ils.unc.edu/courses/2013_fall/inls461_001/sessions/01.basics/01.intro/01.01c.intro.1.2.html						google analytics	
	http://www.infovis.net/printRec.php?rec=revista&lang=2								
		other, eu-based services are more privacy-protective						crazy egg, doubleclick, google analytics	
	http://whatismyipaddress.com/ip-lookup								
	http://computer.howstuffworks.com	pretty much used as textbook			6.00			audience science, bluekai, dynamic logic, facebook social plugins, feedbackify, freewheel, google adsense, google tag manager, insight express, netratings sitecensus, omniture (adobe analytics), outbrain, quantcast, scorecard research beacon, spinnakr, twitter button	
INLS 501- 002	This course does not use a textbook; rather, it relies heavily upon journal articles. These are available through Sakai "Resources." URLs will be given should a resource be available online.'								
	http://owl.english.purdue.edu/owl/resource/560/01/	.edu							
	https://www.training.nih.gov/writing_professional_e-mail								
	http://www.lib.unc.edu/coursepages/							google analytics	
	http://www.lib.unc.edu/guides/							google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://igniteshow.com/	video			5.00			facebook connect, facebook social plugins, google analytics, reddit, stumbleupon widgets, twitter badge, twitter button	
INLS 520-001	http://aeshin.org/teaching/inls-520/2013/fa/	instructor's personal website, where all pdf readings except * are stored, all comments must be posted, and login is required; home page uses google analytics							
	http://tdo.berkeley.edu/chapter-1-sample-pdf/.	pdf not through sakai	1.00						
	http://aeshin.org/login/?next=/files/courses/readings/McGrath__Murray_-_2003_-_Principles_of_E-Government_Architecture.pdf	pdf not through sakai	1.00						
	http://tos-dr.info/.	irony: title of website is "ToS;DR." Terms of Service; Didn't Read"							
	http://searchuserinterfaces.com/book/sui_ch3_models_of_information_seeking.html	author's website							
	http://cacm.acm.org/magazines/2011/4/106563-crowdsourcing-systems-on-the-world-wide-web/fulltext	article not through unc library proxy		1.00				addthis, google +1, google analytics	
	http://www.dlib.org/dlib/march08/marshall/03marshall-pt1.html	article not through unc library proxy		1.00					
	Glushko, Robert J., Daniel D. Turner, Kimra McPherson, and Jess Hemerly. "Resources in Organizing Systems." In The Discipline of Organizing, edited by Robert J Glushko, 2012. PDF.	pdf not through sakai	1.00						
	http://kcoyle.net/jal-32-4.html	author's website							
	http://www.w3.org/Provider/Style/URI.html								
	http://blog.echonest.com/post/6824753703/announcing-echoprint	author's website						google analytics, quantcast, scorecard research beacon, statcounter	
	Kent, William. "Entities." In Data and Reality, v–19. Amsterdam: North-Holland, 1978. PDF.	pdf not through sakai	1.00						

APPENDIX A: SILS COURSES REVIEWED

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.nytimes.com/2011/06/26/opinion/sunday/26pubed.html	article not through unc library proxy		1.00				doubleclick, google adsense, integral ad science, drux digital, mediamind, moat, new york times, webtrends	
	http://www.clir.org/pubs/reports/pub92/smith.html	article not through unc library proxy		1.00				google analytics	
	http://dh.obdurodon.org/what-is-xml.xhtml								
	http://people.ischool.berkeley.edu/~glushko/DocumentEngineeringBookDraft/DEBook/ch2_FINAL.pdf	*pdf not through sakai	1.00						
	Glushko, Robert J., Kimra McPherson, Ryan Greenberg, and Matthew Mayernik. "Resource Description and Metadata." In The Discipline of Organizing, 2012. PDF.	pdf not through sakai	1.00						
	http://www.cio.com.au/article/166533/operation_clean_data/	not via unc library or sakai						crazy egg, doubleclick, facebook connect, google +1, google analytics, twitter badge	
	http://notes.variogr.am/post/10733372290/music-resolving-facebook	author's website						facebook social plugins, google +1, google analytics, pinterest, quantcast, scorecard research beacon, statcounter, twitter badge, twitter button	
	Kent, William. "The Nature of an Information System." In Data and Reality, 21–40. Amsterdam: North-Holland, 1978. PDF.	pdf not through sakai	1.00						
	Kent, William. "Naming." In Data and Reality, 41–61. Amsterdam: North-Holland, 1978. PDF.	pdf not through sakai	1.00						
	Bailer, Werner, Susanne Boll, Oscar Celma, Michael Hausenblas, and Yves Raimond. "Use Case Scenarios." In Multimedia Semantics, edited by Raphael Troncy, Benoit Huet, and Simon Schenk, 7–19. West Sussex: Wiley, 2011. PDF.	pdf not through sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://ismir2008.ismir.net/papers/ISMIR2008_213.pdf	*pdf not through sakai	1.00						
	Glushko, Robert J., Matthew Mayernik, and Alberto Pepe. "Describing Relationships and Structures." In The Discipline of Organizing, edited by Robert J. Glushko, 2012. PDF.	pdf not through sakai	1.00						
	Kent, William. "Relationships." In Data and Reality, 63–76. Amsterdam: North-Holland, 1978. PDF. http://www.ontopia.net/topicmaps/materials/tao.html	pdf not through sakai	1.00						
	http://vimeo.com/11529540	vimeo						conviva, doubleclick, google analytics, scorecard research beacon	
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	http://epl.scu.edu/~stsvalues/readings/Diaz_thesis_final.pdf#page=55	*pdf not through sakai	1.00						
	http://www.read.cs.ucla.edu/hotnets5/mislove06exploiting.pdf	*pdf not through sakai	1.00						
	Glushko, Robert J., Rachelle Annechino, Jess Hemerly, and Longhao Wang. "Categorization: Describing Resource Classes and Types." In The Discipline of Organizing, edited by Robert J. Glushko, 203–236. MIT Press, 2013. PDF.	pdf not through sakai	1.00						
	Glushko, Robert J., Jess Hemerly, Vivien Petras, Michael Manoochehri, and Longhao Wang. "Classification: Assigning Resources to Categories." In The Discipline of Organizing, 237–275. MIT Press, 2013. PDF.	pdf not through sakai	1.00						
	ent, William. "Attributes." In Data and Reality, 77–84. Amsterdam: North-Holland, 1978. PDF.	pdf not through sakai	1.00						
	Kent, William. "Types and Categories and Sets." In Data and Reality, 85–91. Amsterdam: North-Holland, 1978. PDF.	pdf not through sakai	1.00						
	Lambe, Patrick. "Taxonomies can take many forms." In Organising Knowledge: Taxonomies, Knowledge and Organisational Effectiveness, 4-48. Oxford: Chandos, 2007. PDF.	pdf not through sakai	1.00						
	http://flamenco.berkeley.edu/papers/hcir08.pdf	*pdf not through sakai	1.00						
	http://arxiv.org/abs/cs/0508082							AT internet	

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	Petras, Vivien, Robert J Glushko, Karen Joy Nomorosa, J. J. M Ekaterin, Hyunwoo Park, and Sean Marimpietri. "Interactions with Resources." In The Discipline of Organizing. MIT Press, 2013. PDF.	pdf not through sakai	1.00						
	Petras, Vivien, Robert J Glushko, Karen Joy Nomorosa, J. J. M Ekaterin, Hyunwoo Park, and Sean Marimpietri. "Interactions with Resources." In The Discipline of Organizing. MIT Press, 2013. PDF.	pdf not through sakai	1.00						
	http://www.archimuse.com/papers/trantConvergence0908-final.pdf	*pdf not through sakai	1.00						
	http://zvon.org/comp/r/tut-XML.html							google analytics, google widgets	
	http://www.w3schools.com/xml/xml_whatis.asp							doubeclick, facebook social plugins, google ajax search api, google analytics	
	http://www.json.org/xml.html								
	http://breeze.iu.edu/p48776227/	.edu						omniture (adobe analytics)	
	www.loc.gov/cds/downloads/FRBR.PDF	pdf not through sakai	1.00						
	http://atomenabled.org/developers/syndication/							google adsense, google analytics	
	https://developers.google.com/public-data/docs/tutorial	google						doubleclick, doubleclick floodlight, google +1, google adwords conversion, google analytics	
	http://schema.org/							google ajax search api	
	http://schema.org/docs/documents.html							google ajax search api	
	http://schema.org/Recipe							google ajax search api	
	Shaw, Ryan, and Murray Maloney. "The Forms of Resource Descriptions." In The Discipline of Organizing. MIT Press, 2013. PDF.	pdf not through sakai	1.00						
	http://en.wikipedia.org/wiki/ISO_3166-1	wikipedia							
	http://www.getty.edu/vow/AATHierarchy?find=&logic=AND&note=&english=N&subjectid=300000000	.edu						google analytics, share this	
	http://aims.fao.org/standards/agrovoc/functionalities/hierarchy							google analytics, share this	

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	http://www.nlm.nih.gov/mesh/mbinfo.html							addthis, webtrends	
	http://www.discogs.com/help/submission-guidelines-general-rules.html							google analytics	
	http://www.discogs.com/help/database/quick-start-guide							google analytics	
	http://www.discogs.com/help/database/submission-guidelines-release-genres-styles							google analytics	
	http://www.discogs.com/help/database/submission-guidelines-master-release							google analytics	
	http://www.loc.gov/rr/print/gm/GraMatWP8.pdf	pdf not through sakai	1.00						
	http://quod.lib.umich.edu/j/jep/3336451.0014.103?view=text;rgn=main	.edu						disqus, facebook social plugins, google analytics	
	http://www.betaversion.org/~stefano/linotype/news/143/	author's website							
	https://seaice.herokuapp.com/	must relink to http://yamz.net							
	http://aeshin.org/files/courses/readings/paperSeaIceCAMP-4-DATA.pdf	*pdf not through sakai	1.00						
	https://www.ics.uci.edu/~welling/teaching/ICS273Afall11/IntroMLBook.pdf	*pdf not through sakai	1.00						
	Glushko, Robert J., Rachelle Annechino, Jess Hemerly, and Longhao Wang. "6.5 Implementing Categories." In The Discipline of Organizing, 259–262. MIT Press, 2013.	pdf not through sakai	1.00						
	https://www.ics.uci.edu/~welling/teaching/ICS273Afall11/IntroMLBook.pdf	*pdf not through sakai	1.00						
	https://www.ics.uci.edu/~welling/teaching/ICS273Afall11/IntroMLBook.pdf	*pdf not through sakai	1.00						
	"The final exam is due 24 hours after you download it, or at 11AM sharp on Tuesday, December 10, whichever comes first. it!"	final exam is downloaded from aeshin.org; mid-term/assignments are Uploaded to aeshin.org			71.00	35/71	0.492		
INLS 523-001	none								
INLS 584	http://ils.unc.edu/courses/2013_fall/inls584_001/								
	http://www.ala.org/ala/issuesadvocacy/proethics/codeofethics/codeethics.cfm							google analytics	
	http://www.acm.org/constitution/code.html	could be available as pdf in sakai							1.00
	http://www.asis.org/AboutASIS/professional-guidelines.html	could be available as pdf in sakai						google analytics	1.00
	http://www.copyright.gov/circs/circ01.pdf	pdf not through sakai	1.00						
	http://sarahglassmeyer.com/?p=230	author's website						google analytics, gravatar, lockerz share	
	http://reinventlawchannel.com/ed-walters-who-owns-the-law/	sponsored by mich.s.u. college of law						google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://blog.law.cornell.edu/voxpop/2011/07/15/tear-down-this-paywall	.edu						addthis, facebook social plugins, google analytics, gravatar, twitter button	
	https://law.resource.org/pub/us/code/ga/ga.gov.20130725.pdf	pdf not through sakai	1.00						
	http://www.ncpolicywatch.com/2013/01/23/courting-trouble-budget-cuts-push-wake-county-courts-back-in-time/	could be available as pdf in sakai						facebook social plugins, google analytics, share this, twitter button	1.00
	https://www.eff.org/deeplinks/2013/09/federal-courts-still-scaremongering-about-recap-and-spooky-open-source-software	could be available as pdf in sakai						piwik analytics	1.00
	http://dccode.org/ http://www.statedecoded.com/about/ https://www.courtlistener.com/about/ http://www.forbes.com/sites/michelecatalano/2013/03/25/music-piracy-major-studies-conflicted-over-recording-industry-impact/	available via Westlaw or in print at davis		1.00				google analytics google analytics doubleclick, media net, omniture (adobe analytics), optimizely	
	http://en.wikipedia.org/wiki/Digital_Millennium_Copyright_Act	wikipedia							
	http://en.wikipedia.org/wiki/Digital_rights_management	wikipedia							
	http://www.law.cornell.edu/uscode/text/17/102	also available at http://uscode.house.gov/						addthis, doubleclick, facebook social plugins, google analytics, optimizely, twitter button	
	http://www.law.cornell.edu/uscode/text/17/101	also available at http://uscode.house.gov/						addthis, doubleclick, facebook social plugins, google analytics, optimizely, twitter button	
	http://www.law.cornell.edu/wex/berne_convention	also available at http://uscode.house.gov/						google analytics	

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	http://www.law.cornell.edu/treaties/berne/6bis.html	also available at http://uscode.house.gov/						google analytics	
	http://www.law.cornell.edu/uscode/text/17/102	also available at http://uscode.house.gov/						addthis, doubleclick, facebook social plugins, google analytics, optimizely, twitter button	
	http://www.law.cornell.edu/uscode/text/17/101	also available at http://uscode.house.gov/						addthis, doubleclick, facebook social plugins, google analytics, optimizely, twitter button	
	http://journals.uic.edu/ojs/index.php/fm/article/view/777	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://journals.uic.edu/ojs/index.php/fm/article/view/1390	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://scholarship.law.marquette.edu/cgi/viewcontent.cgi?article=1286&context=mulr	pdf not through sakai	1.00						
	http://www.ala.org/ala/issuesadvocacy/proethics/codeofethics/codeethics.cfm							google analytics	
	http://candisebranum.wordpress.com/papers/the-myth-of-library-neutrality/	author's website						gravatar, skimlinks, wordpress stats	

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	http://abcnews.go.com/Technology/pedophilia-book-amazon-sparks-outrage/story?id=12111987							adblade, addthis, chartbeat, disqus, facebook connect, freewheel, google +1, google adwords conversion, google analytics, netratings site census, omniture (adobe analytics), optmizely, outbrain, quantcast, tremor media, twitter button, typekit by adobe	
	http://www.actupny.org/documents/CDdocuments/HistoryNV.html								
	http://www.amazon.com/Hit-Man-Rex-Feral/dp/B005DF301S/ref=sr_1_2?ie=UTF8&qid=1380835381&sr=8-2&keywords=hitman+a+technical+manual+for+independent+contractors	amazon -- could link to worldcat						amazon associates, doubleclick	
	http://www.amazon.com/Fundamentals-Of-Offshore-Banking-Accounts/dp/1460987950/ref=pd_sim_b_35	amazon -- could link to worldcat						amazon associates, doubleclick	
	http://www.amazon.com/HowDunit-Book-Poisons-Serita-Stevens/dp/158297456X/ref=sr_1_4?s=books&ie=UTF8&qid=1379184912&sr=1-4&keywords=guide+to+poisons	amazon -- could link to worldcat						amazon associates, doubleclick	
	http://www.amazon.com/Sex-Vacation-Because-buildings-ebook/dp/B008PH7K4O/ref=sr_1_1?s=books&ie=UTF8&qid=1379185308&sr=1-1&keywords=sex+vacation	amazon -- could link to worldcat						amazon associates, doubleclick	
	http://www.amazon.com/Marijuana-Growers-Handbook-Complete-Cultivation/dp/0932551467/ref=sr_1_1?s=books&ie=UTF8&qid=1379186434&sr=1-1&keywords=how+to+grow+marijuana	amazon -- could link to worldcat						amazon associates, doubleclick	

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	http://www.amazon.com/Fry-The-Brain-Sniping-Guerrilla/dp/0971413398/ref=pd_sim_b_4	amazon -- could link to worldcat						amazon associates, doubleclick	
	http://www.amazon.com/The-Anarchist-Cookbook-ebook/dp/B005IGJ9YE/ref=sr_1_1?s=books&ie=UTF8&qid=1380837236&sr=1-1&keywords=anarchist+cookbook	amazon -- could link to worldcat						amazon associates, doubleclick	
	http://translabyrinth.com/glossary/ http://web.law.duke.edu/cspd/comics/digital.php http://www.wired.com/wired/archive/8.10/download.html	article not through unc library proxy		1.00				wordpress stats google analytics collarity, doubleclick, google analytics, omniture (adobe analytics), proficientz	
	http://www.britac.ac.uk/reports/copyright/ http://www.arl.org/info/frn/copy/CampusCopyright05.pdf	page not found pdf not through sakai	1.00					google analytics	
	http://www.copyright.gov/circs/circ1.html							foresee, omniture (adobe analytics)	
	http://www.clir.org/pubs/abstract/pub134abst.html http://www.youtube.com/watch?v=NkBX-981_es&feature=PlayList&p=19189F4C412A6E09&index=9	article not through unc library proxy youtube		1.00				google analytics	
	http://www.firstmonday.org/issues/issue8_10/ewing/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://firstmonday.org/issues/issue11_7/morgan/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.britac.ac.uk/reports/copyright/ http://www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/2058/1956	page not found firstmonday not through library proxy or sakai		1.00				google analytics addthis, google analytics	
	http://www.nap.edu/html/digital_dilemma/index.html	read online; available as pdf						addthis, google analytics	
	http://books.nap.edu/books/0309068258/html/index.html	read online; available as pdf						addthis, google analytics	
	http://blog.pressgr.am/gt-grad/							disqus, facebook social graph, google ajax search api, google analytics, gravatar, twitter badge, wordpress stats	

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	http://www.dlib.org/dlib/september04/coyle/09coyle.html	article not through unc library proxy		1.00					
	http://library.cqpress.com/cqresearcher/cqresrre2007041300	could be available as pdf in sakai						addthis, checkm8, google analytics	1.00
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	http://www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/3060/2640	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://www.archives.gov/publications/prologue/2002/spring/spoils-of-war-1.html	available in print at davis through 2013		1.00				addthis, foresee, google analytics, webtrends	
	http://library.cqpress.com/cqresearcher/cqresrre1991011800	could be available as pdf in sakai						addthis, checkm8, google analytics	1.00
	http://www.centerforsocialmedia.org/files/pdf/online_best_practices_in_fair_use.pdf	pdf not through sakai	1.00						
	http://www.firstmonday.org/issues/issue12_8/frost/	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://firstmonday.org/issues/issue8_7/logie/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.wired.com/wired/archive/11.02/kazaa.html	article not through unc library proxy		1.00				google analytics	
	Digital Millennium Copyright Act. (1998). [Online from GPO]	pdf not through sakai	1.00						
	http://www.educause.edu/Browse/645?PARENT_ID=254								
	http://www.gseis.ucla.edu/iclp/dmca1.htm	also available at http://uscode.house.gov/							
	http://www.eff.org/IP/DMCA/20030102_dmca_unintended_consequences.html							piwik analytics	
	http://informationr.net/ir/10-3/paper230.html	article not through unc library proxy		1.00				google analytics	
	http://informationr.net/ir/11-4/paper273.html	article not through unc library proxy		1.00				google analytics, onestat	
	http://www.law.duke.edu/cspd/comics/digital.html	.edu						google analytics	
	http://firstmonday.org/issues/issue11_7/farb/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.dlib.org/dlib/july08/hirtle/07hirtle.html								
	http://thejournal.com/articles/22173	could be available as pdf in sakai						bizo, disqus, doubleclick, facebook social plugins, google analytics, po.st, webtrends	1.00

APPENDIX A: SILS COURSES REVIEWED

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	http://www.negativland.com/intprop.html	error 404 - not found							
	http://www.desphilosophy.com/dpp/dpp_journal/paper4/body.html	who is desphilosophy.com?							
	http://www.youtube.com/watch?v=F7pYHN9iC9I&feature=youtu.be	youtube							
	http://www.thenation.com/doc.mhtml?i=20000228&s=garfinkel	article not through unc library proxy	1.00					chartbeat, doubleclick, facebook connect, google analytics, linksmart, media innovation group, new relic, quantcast, sailthru horizon	
	http://www.ischool.berkeley.edu/newsandevents/events/dls20080402	berkeley.edu						addthis, google analytics	
	http://plato.stanford.edu/entries/privacy/	could be available as pdf in sakai; .edu							1.00
	http://www.ncseonline.org/nle/crsreports/science/st-43.cfm?&CFID=4521062&CFTOKEN=76839475	page not found						google analytics	
	http://www.ted.com/talks/alessandro_acquisti_why_privacy_matters.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.thenation.com/article/172887/you-are-what-you-click-microtargeting	article not through unc library proxy; irony in that right after students listen to a tedtalk by acquisti about "why privacy matters," they're sent to an article talking about microtargeting and you are what you click -- to a site that's heavy on tracking. plus, the same article is available through UL.	1.00					chartbeat, doubleclick, facebook connect, google analytics, linksmart, media innovation group, new relic, quantcast, sailthru horizon, share this, twitterbutton	
	http://kieranhealy.org/blog/archives/2013/06/09/using-metadata-to-find-paul-revere/	author's website						facebook connect, google +1, google analytics, twitter button, typekit by adobe	
	http://www.sciam.com/article.cfm?id=internet-eavesdropping	article not through unc library proxy	1.00					ensighten, webtrends, xaxis	

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	http://www.firstmonday.org/issues/issue11_9/barnes/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.148.9388&rep=rep1&type=pdf	pdf not through sakai	1.00						
	http://www.ted.com/talks/juan_enriquez_how_to_think_about_digital_tattoos.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.pewtrusts.org/uploadedFiles/wwwpewtrustsorg/Reports/Society_and_the_Internet/PIP_Teens_Privacy_SNS_Report_Final.pdf	pdf not through sakai	1.00						
	http://www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/2775/2432	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://fredstutzman.com/pubs/stutzman_pub4.pdf	pdf not through sakai	1.00						
	http://www.aallnet.org/main-menu/Publications/llj/LLJ-Archives/Vol-94/pub_llj_v94n04/2002-37.pdf	pdf not through sakai	1.00						
	http://www.ted.com/talks/malte_spitz_your_phone_company_is_watching.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/2326/2156	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://www.cpsr.org/program/natlID/natlIDfaq.html	not found							
	http://www.firstmonday.org/issues/issue9_7/sheehan/index.html	firstmonday not through library proxy or sakai; not found		1.00					
	http://books.nap.edu/books/0309050901/html/index.html	available as PDF						addthis, google analytics	
	http://www.ted.com/talks/eli_pariser_beware_online_filter_bubbles.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.ted.com/talks/rebecca_mackinnon_let_s_take_back_the_internet.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.firstmonday.dk/issues/issue8_12/mciver/index.html	firstmonday not through library proxy or sakai; not found		1.00					
	http://dx.doi.org/10.5210%2Ffm.v18i7.4628	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://www.firstmonday.org/issues/issue11_9/depken/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.firstmonday.org/issues/issue9_2/jaeger/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://hdl.handle.net/10536/DRO/DU:30018035	pdf not through sakai	1.00						

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	http://www.gpo.gov/su_docs/fdlp/council/dlcvision092906.pdf	pdf not through sakai	1.00						
	http://www.youtube.com/watch?v=3umZS98MnUs	youtube							
	http://www.ted.com/talks/brewster_kahle_builds_a_free_digital_library.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.english.ucsb.edu/faculty/ayliu/research/whyuna.htm	could be available as PDF in sakai							1.00
	http://firstmonday.org/issues/issue11_5/potter/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.ted.com/talks/lang/eng/hector_ruiz_on_connecting_the_world.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://ist.psu.edu/faculty_pages/lkvasny/JICES-PowerRelations.pdf	pdf not through sakai	1.00						
	http://www.anitaborg.org/							google analytics, new relic, typekit by adobe	
	http://www.ted.com/talks/brenda_laurel_on_making_games_for_girls.html	tedtalks						doubleclick, google analytics, scorecard research beacon	
	http://www.aauw.org/member_center/publications/TechSavvy/TechSavvy.pdf	pdf not through sakai	1.00						
	http://www.i-r-i-e.net/1-15.htm	article not through unc library proxy		1.00					
	http://www.i-r-i-e.net/16-31.htm	article not through unc library proxy		1.00					
	http://www.i-r-i-e.net/32-40.htm	article not through unc library proxy		1.00					
	http://www.uic.edu/htbin/cgiwrap/bin/ojs/index.php/fm/article/view/1327/1247	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://blog.ted.com/2006/10/10/iqbal_quadir_on/	ted blog						doubleclick, google analytics, gravatar, wordpress stats	
	http://www.ci-journal.net/viewarticle.php?id=94&layout=html	not found							
	http://eeshop.unl.edu/rsi.html	must relink to http://rsi.unl.edu/							
	http://www.i-r-i-e.net/issue13.htm	article not through unc library proxy		1.00				google adsense	
	http://www.firstmonday.org/issues/issue8_10/leung/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.ted.com/talks/adam_ostrow_after_your_final_status_update.html	tedtalks						doubleclick, google analytics, scorecard research beacon	

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	http://simson.net/ref/leaderless/berlet_when_hate_went_online.pdf	pdf not through sakai	1.00						
	http://www.theworkfoundation.com/research/isociety/social_capital_main.jsp								
	http://www.wired.com/wired/archive/4.01/turkle.html	not via unc library						collarity, doubleclick, google analytics, omniture (adobe analytics), proficientz	
	http://www.firstmonday.org/issues/issue10_4/walker/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://dx.doi.org/10.5210%2Ffm.v18i7.4220	firstmonday not through library proxy or sakai		1.00				add this, google analytics	
	http://firstmonday.org/issues/issue10_9/still/	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.washingtonpost.com/wp-dyn/content/article/2007/11/01/AR2007110102233.html	article not through unc library proxy		1.00				audience science, doubleclick, facebook connect, omniture (adobe analytics), quantcast, quigo adsonar	
	http://www.sla.org/content/SLA/advocacy/PATRIOTAct/index.cfm							google analytics, share this	

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	http://www.wired.com/threatlevel/2009/05/fbi-use-of-patriot-act-authority-increased-dramatically-in-2008/	article not through unc library proxy		1.00				atlas, chartbeat, disqus, doubleclick, facebook social graph, google +1, google adsense, linkedin widgets, lotame, mobify, new relic, omniture (adobe analytics), outbrain, pinterest, scorecard research beacon, twitter button, typekit by adobe	
	http://www.ci-journal.net/viewarticle.php?id=192&layout=html	not found							
	http://www.copyright.gov/circs/circ01.pdf	pdf not through sakai	1.00						
	http://www.stanfordlawreview.org/online/kirtsaeng-and-first-sale-doctrines-digital-problem	available as PDF						google +1, google analytics	

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	http://www.forbes.com/sites/michelecatalano/2013/03/25/music-piracy-major-studies-conflicted-over-recording-industry-impact/	article not through unc library proxy		1.00				amazon associates, bluekai, chartbeat, doubleclick, facebook connect, facebook social graph, gigya social analytics, gigya socialize, google analytics, gravatar, krux digital, media.net, moat, optimizely, scorecard research beacon, simplereach, TRUSTenotice	
	http://en.wikipedia.org/wiki/Digital_Millennium_Copyright_Act	wikipedia							
	http://en.wikipedia.org/wiki/Digital_rights_management	wikipedia							
	http://www.law.cornell.edu/uscode/text/17/102	also available at http://uscode.house.gov/						addthis, doubleclick, facebook social plugins, google analytics, optimizely, twitter button	
	http://www.law.cornell.edu/wex/berne_convention	also available at http://uscode.house.gov/						google analytics	
	http://www.law.cornell.edu/treaties/berne/6bis.html	also available at http://uscode.house.gov/						google analytics	
	http://studentconduct.unc.edu/instrument http://policies.unc.edu/files/2013/04/PPHISMD.pdf	pdf not through sakai	1.00						
	http://dx.doi.org/10.5210/fm.v5i8.777	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://dx.doi.org/10.5210/fm.v11i9.1390	firstmonday not through library proxy or sakai		1.00				addthis, google analytics	
	http://scholarship.law.marquette.edu/cgi/viewcontent.cgi?article=1286&context=mulr	pdf not through sakai	1.00						

APPENDIX A: SILS COURSES REVIEWED

<u>KEY</u>

3dp pdfs:	third party PDFs
web e-r:	electronic resources on web
3dp/e-r:	number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
dataveillance:	dataveillance mechanisms detected on webpage
convertible:	material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.ala.org/ala/issuesadvocacy/proethics/codeofethics/codeethics.cfm	available as PDF						google analytics	
	http://www.ala.org/bbooks/challengedmaterials/preparation/coping	could be pdf in sakai						google analytics	1.00
	http://www.ala.org/aboutala/governance/policymanual/updatedpolicymanual/section2/53intellfreedom							google analytics	
	http://discovermagazine.com/2007/jun/how-much-does-the-internet-weigh	article not through unc library proxy		1.00				addthis, buzzfeed, disqus, doubleclick, facebook connect, facebook social graph, google analytics, quantcast, twitter button	
	http://www.learnnc.org/lp/editions/nchist-recent/6242							google analytics	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.theguardian.com/world/2013/jul/11/microsoft-nsa-collaboration-user-data	could be pdf in sakai						audience science, chartbeat, critoo, facebook connect, facebook social graph, foresee, google +1, google adsense, google adwords conversion, google ajax search api, linkedin widgets, mediamath, netratings sitecensus, omniture (adobe analytics), optimizely, outbrain, pinterest, quantcast, twitter button, xaxis	1.00
	http://www.gnu.org/philosophy/who-does-that-server-really-serve.html	irony; could be pdf in sakai							1.00
	http://www.technologyreview.com/featuredstory/520426/the-real-privacy-problem/	article not through unc library proxy	1.00					addthis, crazy egg, doubleclick, google analytics, linksmart, livefyre, parse.ly, quantcast, scorecard research beacon	
	https://www.facebook.com/legal/terms	facebook							
	https://www.facebook.com/about/privacy/your-info	facebook							

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.bbc.co.uk/news/technology-14386514	could be pdf in sakai						audience science, chartbeat, doubleclick, effective measure, gemius, google adsense, netratings sitecensus, omniture (adobe analytics) scorecard research beacon	1.00
	http://blackhat.com/docs/webcast/acquisti-face-BH-Webinar-2012-out.pdf	pdf not through sakai	1.00						
	https://www.eff.org/wp/locational-privacy	available as PDF						piwik analytics	
	http://www.bbc.co.uk/news/science-environment-21923360							audience science, chartbeat, doubleclick, effective measure, gemius, google adsense, netratings sitecensus, omniture (adobe analytics) scorecard research beacon	
	http://www.workplacefairness.org/computerprivacy							google adsense, google analytics, google custom search engine, qubit opentag, sharethis, valueclick mediaplex	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.workplacefairness.org/surveillance							google adsense, google analytics, google custom search engine, qubit opentag, sharethis, valueclick mediaplex	
	http://www.cyberbullying.us/Top_Ten_Tips_Educators_Cyberbullying_Response.pdf	pdf not through sakai	1.00						
	http://www.cyberbullying.us/Top_Ten_Tips_Parents_Cyberbullying_Response.pdf	pdf not through sakai	1.00						
	http://www.cyberbullying.us/Top_Ten_Tips_Educators_Cyberbullying_Prevention.pdf	pdf not through sakai	1.00						
	http://www.cyberbullying.us/Top_Ten_Tips_Parents_Cyberbullying_Prevention.pdf	pdf not through sakai	1.00						
	http://www.cyberbullying.us/Bullying_and_Cyberbullying_Laws.pdf	pdf not through sakai	1.00						
	ftp://ftp.legislature.state.nc.us/EnactedLegislation/Statutes/PDF/ByArticle/Chapter_14/Article_60.PDF	pdf not through sakai	1.00						
	http://onlinelibrary.wiley.com/doi/10.1111/jcc4.12009/abstract	article not through unc library proxy		1.00				addthis, adobe tag container, doubleclick, google analytics, grapeshot	
	http://www.popsci.com/science/article/2013-09/why-were-shutting-our-comments	article not through unc library proxy		1.00				chartbeat, doubleclick, facebook connect, facebook social plugins, nativo, netratings sitecensus, omniture (adobe analytics), outbrain, po.st, quantcast, scorecard research beacon	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.popsci.com/technology/article/2013-08/10-amazing-high-tech-materials-projects	article not through unc library proxy		1.00				chartbeat, doubleclick, facebook connect, facebook social plugins, nativo, netratings sitecensus, omniture (adobe analytics), outbrain, po.st, quantcast, scorecard research beacon	
	http://www.popsci.com/science/article/2013-09/big-pic-air-pollution-deaths-around-world	article not through unc library proxy		1.00				chartbeat, doubleclick, facebook connect, facebook social plugins, nativo, netratings sitecensus, omniture (adobe analytics), outbrain, po.st, quantcast, scorecard research beacon	
	http://www.popsci.com/science/article/2013-09/have-modern-scientists-made-any-advancements-alchemy	article not through unc library proxy		1.00				chartbeat, doubleclick, facebook connect, facebook social plugins, nativo, netratings sitecensus, omniture (adobe analytics), outbrain, po.st, quantcast, scorecard research beacon	

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.popsci.com/science/article/2013-09/curiosity-still-finding-little-methane-mars	article not through unc library proxy		1.00				chartbeat, doubleclick, facebook connect, facebook social plugins, nativo, netratings sitecensus, omniture (adobe analytics), outbrain, po.st, quantcast, scorecard research beacon	
	http://dx.doi.org/10.5210/fm.v18i7.4220	firstmonday not through library proxy or sakai		1.00	174.00	77/174	0.442	addthis, google analytics	
INLS 585-001	none listed								
INLS 089	http://vimeo.com/14196818	vimeo						conviva, doubleclick, google analytics, scorecard research beacon	
	http://www.youtube.com/watch?v=_HT4BM7cgJw	*youtube (entire Gandhi film) -- no indication that lucky550 is authorized by Columbia Pictures							
	http://www.youtube.com/watch?v=iVB2AlVpt0I	streaming video available through unc library proxy		1.00					
	http://www.youtube.com/watch?v=_zVkiK4y1VM	*youtube -- who is AFSCVideos?							

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	http://abcnews.go.com/Archives/video/oct-28-1982-nuclear-freeze-proposal-14835748							adblade, addthis, chartbeat, facebook connect, freewheel, google adwords conversion, google analytics, netratings sitecensus, omniture (adobe analytics), optimizely, outbrain, quantcast, tremor media, twitter button, typekit by adobe	
	http://www.pbs.org/wgbh/pages/frontline/climate-of-doubt/							chartbeat, crazy egg, disqus, doubleclick, eloqua, facebook connect, fetchback, foesee, gigya socialize, google +1, google analytics, google tag manager, socrecard research beacon, twitter button	
	http://www.youtube.com/watch?v=1d2ml82lc7s	*youtube -- who is sao vang?							
	http://www.youtube.com/watch?v=1Iye1NQy1NY	*youtube -- who is mitch 19872?							
	http://www.youtube.com/watch?v=bu9YBJ_wp3I								
	http://www.youtube.com/watch?v=jyziG5bUuBE	*youtube -- who is uploader?							
	http://www.youtube.com/watch?v=oMG3MAhmopk								
	http://www.youtube.com/watch?v=ZB4mlnTis2Y								
	http://www.youtube.com/watch?v=gcRodOfu_s8	*youtube -- BBC documentary; who is uploader?							
	http://www.youtube.com/watch?v=kaRvzQ887HM	removed							
	http://www.youtube.com/watch?v=UWmXNVO15AU								

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	http://www.theguardian.com/technology/blog/2013/jun/14/nsa-prism							audience science, chartbeat, critoo, facebook connect, facebook social graph, foresee, google +1, google adsense, google adwords conversion, google ajax search api, hacker news button, linkedin widgets, mediamath, netratings sitecensus, omniture (adobe analytics), optimizely, outbrain, pinterest, quantcast, twitter button, xaxis	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.cnn.com/2013/07/31/opinion/schneier-nsa-trust/index.html							audience science, chartbeat, disqus, doubleclick DART, dynamic logic, facebook connect, insightexpress, krux digital, netratings sitecensus, omniture (adobe analytics), optmizely, outbrain, TRUSTe notice, twitter button, visual revenue	
	http://www.washingtonpost.com/investigations/us-intelligence-mining-data-from-nine-us-internet-companies-in-broad-secret-program/2013/06/06/3a0c0da8-cebf-11e2-8845-d970ccb04497_story.html	article not through unc library proxy	1.00					adobe test & target, amazon associates, audience science, chartbeat, critoo, doubleclick, doubleclick floodlight, krux digital, mediamath, new relic, omniture (adobe analytics), outbrain, perfect market, quigo adsonar, scorecard research beacon, spotxchange, trove	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.aljazeera.com/programmes/faultlines/2012/03/20 12319152516497374.html							addthis, alexa metrics, brightcove, chartbeat, disqus, doubleclick, facebook connect, gigya socialize, google +1, google analytics, linkedin widgets, maxmind, qcri analytics, quantcast, twitter button	
	http://www.filmsforaction.org/watch/rise_like_lions_ows_and_ the_seeds_of_revolution_2011/							addthis, disqus, facebook connect, facebook social plugins, google adsense, google analytics	
	http://www.newyorker.com/reporting/2011/11/28/111128fa_f act_schwartz?currentPage=all	article not through unc library proxy	1.00					atlas, doubleclick, google +1, google adsense, google analytics, livefyre, lotame, omniture (adobe analytics), optimizely, outbrain, parse.ly, proficientz, twitter button, typekit by adobe	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.aljazeera.com/programmes/2012/02/2012216122 78666943.html							addthis, alexa metrics, brightcove, chartbeat, disqus, doubleclick, facebook connect, gigya socialize, google +1, google analytics, linkedin widgets, maxmind, qcri analytics, quantcast, twitter button	
	http://www.newyorker.com/reporting/2010/10/04/101004fa_f act_gladwell	article not through unc library proxy		1.00				atlas, doubleclick, google +1, google adsense, google analytics, livefyre, lotame, omniture (adobe analytics), optimizely, outbrain, parse.ly, proficientz, twitter button, typekit by adobe	
	http://www.newscientist.com/article/mg20928026.100-the-internet-is-a-tyrants-friend.html	could be available as pdf in sakai						addthis, digg widget, doubleclick, google tag manager, omniture (adobe analytics), outbrain, quantcast	1.00

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	http://www.technologyreview.com/view/425280/new-media-and-the-people-powered-uprisings/	article not through unc library proxy		1.00				addthis, crazy egg, doubleclick, google analytics, linksmart, livefyre, parse.ly, quantcast, scorecard research beacon	
	http://www.youtube.com/watch?v=pFDoCLf96Kg http://www.aucegypt.edu/gapp/cairoreview/pages/articledetails.aspx?aid=89							facebook social plugins, google analytics	
	http://www.access-controlled.net/wp-content/PDFs/chapter-5.pdf	pdf not through sakai	1.00						
	http://www.youtube.com/watch?v=B8ofWFx525s								
	http://www.youtube.com/watch?v=mNHkG7w2IA8				30.00	6/30	0.200		
INLS 261-002	see 261-001								
	http://inls261.blogspot.com/	Google blogging site; postings are required (http://ils.unc.edu/courses/2013_fall/inls461_001/sessions/01.basics/01.intro/01.01b.intro.1.1.html) and are COMPLETELY PUBLIC going back to 2007						google +1, google analytics	
	alertbox -- http://www.nngroup.com/articles/	required sign-up to listserv http://ils.unc.edu/courses/2013_fall/inls461_001/sessions/01.basics/01.intro/01.01c.intro.1.2.html						crazy egg, google analytics, new relic, optimizely	
	technology review -- http://newsletters.technologyreview.com/	required sign-up to listserv http://ils.unc.edu/courses/2013_fall/inls461_001/sessions/01.basics/01.intro/01.01c.intro.1.2.html						google analytics	
	http://www.infovis.net/printRec.php?rec=revista&lang=2								
		other, eu-based services are more privacy-protective						crazy egg, doubleclick, google analytics	
	http://whatismyipaddress.com/ip-lookup								

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	http://computer.howstuffworks.com	pretty much used as textbook			6.00			audience science, bluekai, dynamic logic, facebook social plugins, feedbackify, freewheel, google adsense, google tag manager, insight express, netratings sitecensus, omniture (adobe analytics), outbrain, quantcast, scorecard research beacon, spinnakr, twitter button	
INLS 490-204	http://www.itu.int/wsis/docs/geneva/official/dop.html								
	http://www.un.org/en/documents/udhr								
	http://www2.ohchr.org/english/bodies/hrcouncil/docs/17session/A.HRC.17.27_en.pdf	pdf not through sakai	1.00						
	http://www.regeringen.se/content/1/c6/19/64/51/6999c512.pdf	pdf not through sakai	1.00						
	http://www.regeringen.se/content/1/c6/19/64/51/6999c512.pdf	pdf not through sakai	1.00						
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/TheInternetHumanRight.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://www.nytimes.com/2012/01/05/opinion/internet-access-is-not-a-human-right.html	article not through unc library proxy		1.00				doubleclick, google adsense, integral ad science, krux digital, mediamind, moat, new york times, webtrends	
	http://www.ala.org/advocacy/intfreedom/librarybill							google analytics	
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/AccessToKnowledge.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://sanfordberman.org								

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	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/Nuts&BoltsComputers.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://www.worldmapper.org/display.php?selected=344								
	pdf from pewinternet.org	pdf not through sakai	1.00						
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/Nuts&BoltsNetworkWire.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://www-personal.umich.edu/~sbneuman/pdf/AccessToPrint.pdf	pdf not through sakai	1.00						
	http://links.jstor.org/sici?sici=0034-0553%28200101%2F03%2936%3A1%3C8%3AATPILA%3E2.0.CO%3B2-I	article not through unc library proxy		1.00					
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/InternetConnections.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/Wireless.pdf	*pdf not through sakai but on ils.unc.edu							
	http://techtv.mit.edu/collections/linc2013/videos/24875-the-widernet-project							google analytics, new relic, share this	
	http://www.itu.int/en/ITU-D/Statistics/Pages/facts/default.aspx	pdf not through sakai (multiple)	1.00						
	http://www.internetworldstats.com/stats1.htm							alexa metrics, digital river, google adsense, google analytics, quantcast	
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/SampleMatrix.xlsx	*pdf not through sakai but on ils.unc.edu	1.00						
	http://www.broadbandmap.gov/							facebook connect, google +1, google analytics, twitter button	
	http://broadbandtoolkit.org/5	available as PDF						google analytics	
	http://broadbandtoolkit.org/5.4	available as PDF						google analytics	
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/InternetServices.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/CostOfThingsV2.xlsx	*pdf not through sakai but on ils.unc.edu	1.00						
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/Network%20Overview-10-10_4_distro.pptx	*pdf not through sakai but on ils.unc.edu	1.00						

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	http://lj.libraryjournal.com/2013/02/library-services/prison-and-public-libraries/?ref=rel	article not through unc library proxy		1.00				doubleclick, facebook connect, google adsense, google ajax search api, google analytics, gravatar, lockerz share, nrelate, scorecard research beacon, twitter button	
	http://www.onlinecolleges.net/2011/09/20/earning-a-degree-in-prison/	could be pdf in sakai						adobe tag container, facebook connect, facebook social plugins, google +1, new relic, pinterest, twitter button, visual website optimizer	1.00
	http://ils.unc.edu/courses/2013_fall/inls490_204/Documents/CorrectionalEducationOverview.doc								
	http://www.keepeek.com/Digital-Asset-Management/oecd/science-and-technology/the-impact-of-internet-in-oecd-countries_5k962hhgpb5d-en#page1	available as PDF						addthis, facebook connect, google +1, google analytics, twitter button	
	http://www.keepeek.com/Digital-Asset-Management/oecd/science-and-technology/information-and-communication-technologies-and-productivity-growth_5k9bh3jllgs7-en#page1	available as PDF						addthis, facebook connect, google +1, google analytics, twitter button	
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/PrisonEdBasic.pdf	*pdf not through sakai but on ils.unc.edu	1.00						

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	http://blogs.worldbank.org/edutech/big-educational-laptop-and-tablet-projects-ten-countries	could be pdf in sakai						chartbeat, google +1, linkedin widgets, omniture (adobe analytics), twitter button	1.00
	ijedict.dec.uwi.edu/include/getdoc.php?id=5395&article=1584&mode=pdf	pdf not in sakai	1.00						
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/Impact%20of%20the%20Internet.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://www.nytimes.com/2012/02/13/education/mooresville-school-district-a-laptop-success-story.html?_r=0	article not through unc library proxy		1.00				doubleclick, google adsense, integral ad science, krux digital, mediamind, moat, new york times, news registry, webtrends	
	http://thejournal.com/articles/2013/03/05/one-to-one-laptop-project-launched-in-seven-charlotte-schools.aspx#fhKPz8TQc7j7pl2Y.99							bizo, disqus, doubleclick, facebook social plugins, google analytics, po.st, webtrends	
	http://www.the-digital-reader.com/2013/10/07/10-amplfiy-tablets-broke-first-month-one-north-carolina-school-district-reports/	author's website						addthis, adzerk, facebook social plugins, google +1, google adsense, google analytics, gravatar, linkedin widgets, nrelate, pinterest, quantcast, scorecard research beacon, skimlinks, statcounter, technorati media	

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convertible: material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.latimes.com/local/lanow/la-me-ln-lausd-ipad-hack-20130925,0,6974454.story	article not through unc library proxy		1.00				amazon associates, audience science, auditude, chartbeat, conviva, doubleclick, facebook social plugins, gigya socialize, google +1, google analytics, jumptime, krux digital, legolas media, lotame, ndn analytics, netratings sitecensus, omniture (adobe analytics), perfect market, quantcast, rubicon, scorecard research beacon, taboola, twitter button, tynt, viafoura, wishabi	
	http://ils.unc.edu/courses/2013_fall/inls490_204/Presentation PDFs/LaptopsForEveryone.pdf	*pdf not through sakai but on ils.unc.edu	1.00						
	http://www.thehindu.com/opinion/blogs/blog-datadelve/article5214382.ece	article not through unc library proxy		1.00				addthis, facebook connect, facebook social plugins, google +1, google adsense, google analytics, pinterest, scorecard research beacon, twitter button, zedo	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.bbc.com/news/business-24571624							audience science, chartbeat, doubleclick, effective measure, gemius, google adsense, netratings sitecensus, omniture (adobe analytics), scorecard research beacon	
	http://bongohive.co.zm/	from zambia			45.00	25/45	0.550		
INLS 501-001	http://owl.english.purdue.edu/owl/resource/560/01/	.edu							
	http://www.ala.org/rusa/resources/guidelines/definitionsreference	could be pdf in sakai						google analytics	1.00
	http://www.ala.org/rusa/resources/guidelines/guidelinesbehavioral	could be pdf in sakai						google analytics	1.00
	https://www.training.nih.gov/writing_professional_e-mail								
	http://igniteshow.com/	video						facebook connect, facebook social plugins, google analytics, reddit, stumbleupon widgets, twitter badge, twitter button	
	http://library.unc.edu/coursepages/							google analytics	
	http://polaris.gseis.ucla.edu/jrichardson/DIS220/personal.htm	could be pdf in sakai							1.00
	http://www.ala.org/advocacy/proethics/codeofethics/codeethics	available as PDF						google analytics	
	http://www.copyright.com/content/cc3/en/toolbar/education/resources/copyright_basics1.html	copyright clearance center						eloqua, google analytics, google tag manager, quantcast, webtrends	
	http://hsl.lib.unc.edu/global							google analytics	
	http://www.ala.org/ala/mgrps/divs/acrl/standards/profstandards.cfm	could be pdf in sakai						google analytics	1.00

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://library.unc.edu/services/data/							google analytics	
	http://guides.lib.unc.edu/ahenley							google analytics	
	http://www.ala.org/rusa/resources/guidelines/virtrefguidelines	could be pdf in sakai						google analytics	1.00
	http://www.hiddenpeanuts.com/							google analytics, scorecard research beacon, sitemeter	
	http://www.hiddenpeanuts.com/archives/2012/12/03/defining-what-i-do-what-makes-a-technology-emerging-or-disruptive/				16.00			google analytics, gravatar, sitemeter	
INLS 515	no information available								
INLS 523-002	none								
INLS 556	http://pne.people.si.umich.edu/PDF/howtoread.pdf	pdf not from sakai	1.00						
	http://muse.jhu.edu/journals/library_trends/v056/56.1macneil.pdf	pdf not from sakai	1.00						
	http://journals.sfu.ca/archivar/index.php/archivaria/article/viewFile/11231/12170	pdf not from sakai	1.00						
	http://journals.sfu.ca/archivar/index.php/archivaria/article/view/11233/12172	pdf not from sakai	1.00						
	http://www.statearchivists.org/lga/							webstat	
	http://www.ctrnet.net/							facebook connect	
	http://www.loc.gov/preserv/foundtn-grants.pdf	pdf not from sakai	1.00						
	http://www.archivists.org/prof-education/ed_guidelines.asp	could be pdf in sakai						google analytics	1.00
	http://www.emeraldinsight.com/10.1108/10650750610640757	article not through library proxy		1.00				google analytics, webtrends	
	http://journals.sfu.ca/archivar/index.php/archivaria/article/view/11932/12886	pdf not from sakai	1.00						
	http://journals.sfu.ca/archivar/index.php/archivaria/article/view/12177/13188	pdf not from sakai	1.00						
	http://www.jstor.org/stable/40292740	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	http://journals.sfu.ca/archivar/index.php/archivaria/article/view/12504/13628	pdf not from sakai	1.00						
	http://journals.sfu.ca/archivar/index.php/archivaria/article/viewFile/11800/12751	pdf not from sakai	1.00						
	http://journals.sfu.ca/archivar/index.php/archivaria/article/view/11725/12674	pdf not from sakai	1.00						
	http://journals.sfu.ca/archivar/index.php/archivaria/article/viewFile/11724/12673	pdf not from sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://firstmonday.org/issues/issue11_8/hodson/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://journals.sfu.ca/archivar/index.php/archivaria/article/viewFile/12742/13927	pdf not from sakai	1.00						
	http://www.archon.org/	unclear if download of software is required							
	http://www.rlg.org/en/page.php?Page_ID=20908	oclc						crazy egg, omniture (adobe analytics), typekit by adobe	
	http://hdl.handle.net/2027/spo.3310410.0008.203	could be pdf in sakai						google analytics	1.00
	http://eac.staatsbibliothek-berlin.de/							google analytics	
	http://www.firstmonday.org/issues/issue12_3/elings/index.html	firstmonday not through library proxy or sakai		1.00				google analytics	
	http://www.getty.edu/research/conducting_research/standards/intro_controlled_vocab/	.edu						google analytics, share this	
	http://rpm.lib.az.us/NewSkills/CaseStudies/4_Stollar_Kiehne.pdf	pdf not from sakai	1.00						
	http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1023/A:1024944522818	article not through unc library proxy		1.00				webtrekk	
	http://eresources.lib.unc.edu/external_db/external_database_auth.html?A=P%7CF%3DN%7CID%3D32	browser freezes							
	http://www.dlib.indiana.edu/projects/sounddirections/papersPresent/sd_bp_07.pdf	pdf not from sakai							
	http://www.nationalarchives.gov.uk/information-management/projects-and-work/digital-preservation-faqs.htm							google analytics, webtrends	
	http://www.dp3project.org/							google analytics	
	http://www.bl.uk/about/policies/endangeredarch/homepage.html							digital analytix	
	http://www.archivaladvisor.org/shtml/art_savdigprint.shtml							google analytics	
	http://www.statearchivists.org/iper/index.htm							webstat	
	http://www.loc.gov/preserv/emergprep/scenarios.html							foresee, omniture (adobe analytics)	
	http://www.clir.org/pubs/archives/ensuring.pdf	pdf not from sakai	1.00						
	http://www.dp3project.org/newsletter/v6/dp3newsletter_v6.html								
	http://wilhelm-research.com/ist/WIR_IST_2006_09_HW.pdf	pdf not from sakai	1.00						
	http://mcel.pacificu.edu/history/jahcl1/Anderson/Anderson.HTML								
	http://informationr.net/ir/7-2/paper123.html	could be pdf in sakai						google analytics	1.00

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KEY
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://journals.sfu.ca/archivar/index.php/archivaria/article/viewFile/12228/13251	pdf not from sakai	1.00						
	http://mcel.pacificu.edu/jahc/JAHCVIII2/articles/cruikshank.htm	"problem loading page"							
	http://europa.eu.int/historical_archives/dlm_forum/doc/dlm-proceed2002.pdf	pdf not from sakai	1.00						
	http://informationr.net/ir/6-1/paper86.html	could be pdf in sakai						google analytics	1.00
	http://journals.sfu.ca/archivar/index.php/archivaria/article/view/12224/13243	pdf not from sakai	1.00						
	http://www.rlg.org/preserv/diginews/diginews5-6.html#feature1	oclc						crazy egg, omniture (adobe analytics), typekit by adobe	
	http://www.ariadne.ac.uk/issue63/ridolfo-et-al/	article not through unc library proxy		1.00				google analytics, share this	
	http://journals.sfu.ca/archivar/index.php/archivaria/article/viewFile/12837/14056	pdf not from sakai	1.00						
	http://ftp.lib.utexas.edu/etd/d/2002/sweeneys022/sweeneys022.pdf	pdf not from sakai	1.00						
	http://www.clir.org/pubs/abstract/pub120abst.html	article not through unc library proxy		1.00				google analytics	
	http://journalsonline.tandf.co.uk/link.asp?id=n655u808v7j16482	article not through library proxy		1.00				google analytics	
	http://www.uwm.edu/Dept/SOIS/cipr/archive.html							browser update, google analytics, google tag manager	
	http://www.archivists.org/standards/OWBP-V4.pdf	pdf not from sakai	1.00						
	http://ethics.iit.edu/codes/coe.html								
	http://www.ica.org/biblio/Ethics-EN.pdf	pdf not from sakai	1.00					google analytics	
	http://www.dagstuhl.de/Materials/Files/10/10291/10291.LeeCal.Paper.pdf	pdf not from sakai	1.00						
	http://publications.arl.org/rli279/	pdf not from sakai	1.00						
	http://www.archivesandmuseums.org.uk/scam/code.pdf	pdf not from sakai	1.00						
	http://www.arma.org/about/overview/ethics.cfm	404 - file or directory not found							
	http://www.ala.org/ala/acrl/acrlstandards/standardsethical.htm							google analytics	
	https://db.icrm.org/crm/index.jsp?submit_menu=118								
	http://www.dlib.org/dlib/october01/kahle/10kahle.html	could be pdf in sakai							1.00
	http://www.nelsonmandela.org/docs/MEMORY%20FOR%20JUSTICE%20REPORT_VERSION2.pdf	pdf not from sakai	1.00						
	http://www.metapress.com/content/k73112x7n0773111/	available as PDF						google analytics, uservoice	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://dlib.org/dlib/may07/yakel/05yakel.html	article not through unc library proxy		1.00					
	http://polarbears.si.umich.edu/	browser could not find server			65.00	35/65	0.538		
INLS 581-003	http://owl.english.purdue.edu/owl/.	.edu							
	http://jcmc.indiana.edu/vol10/issue3/wright.html	article not through unc library proxy		1.00					
	http://jmp.com				3.00	1/3	0.330		
INLS 890-30	https://docs.google.com/document/d/1mWB_37OqdRJFaMv6jqGrHBgT75NfK1Mr6zOvZam_qy4/edit?pli=1	course website is on google docs							
	https://docs.google.com/file/d/0B7vRZWOtj_QMNlBJczh3OUNzU3M/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B4zGiJvCfw99SGdtaUpxSGJsZG8/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B7vRZWOtj_QMNlBJczh3OUNzU3M/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B4zGiJvCfw99SGdtaUpxSGJsZG8/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B7vRZWOtj_QMNlBJczh3OUNzU3M/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B4zGiJvCfw99SGdtaUpxSGJsZG8/edit?pli=1	pdf not from sakai	1.00						
	http://commdocs.house.gov/committees/judiciary/hju85643.000/hju85643_0f.htm								
	https://docs.google.com/file/d/0B4zGiJvCfw99aUMydEZwblVuRlk/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B4zGiJvCfw99bUdDSlJNU2hSSms/edit?pli=1	pdf not from sakai	1.00						
	http://www.google.com/url?q=http%3A%2F%2Fwww.i-r-i-e.net%2Finhalt%2F007%2F29-abdeljelil.pdf&sa=D&sntz=1&usg=AFQjCNFdDLe6HreAFzDGhVO62H31XgLxIw	pdf not from sakai							
	https://docs.google.com/file/d/0B7vRZWOtj_QMZFBKaGhVWWY3cUE/edit?pli=1	pdf not from sakai							
	https://docs.google.com/file/d/0B7vRZWOtj_QMandpSXlNM0ZXQ3c/edit?pli=1	pdf not from sakai							
	https://docs.google.com/file/d/0B4zGiJvCfw99SVZua09OZk5nMFk/edit?pli=1	pdf not from sakai	1.00						
	http://news.bbc.co.uk/2/hi/programmes/from_our_own_correspondent/6368057.stm	could be pdf in sakai							1.00
	http://newbooksinafricanstudies.com/2011/09/09/richard-hamilton-the-last-storytellers-tales-from-the-heart-of-morocco-i-b-taurus-2011/	could be pdf in sakai							1.00
	http://www.freedomhouse.org/report/freedom-net/freedom-net-2013	available as PDF							
	https://docs.google.com/file/d/0B4zGiJvCfw99M2RuWFZFU25sN3c/edit?pli=1	pdf not from sakai	1.00						

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	http://www.technologyreview.com/view/425280/new-media-and-the-people-powered-uprisings/	article not through unc library proxy		1.00				addthis, crazy egg, doubleclick, google analytics, linksmart, livefyre, parse.ly, quantcast, scorecard research beacon	
	https://drive.google.com/?urp=http://www.google.com/url?sa%3Dt%26rct%3Dj%26q%3D%26esrc%3Ds%26sou&authuser=0#folders/0B4zGiJvCfw99Y2RDY09EaUJCaVU	resolves to "sign in to continue to google drive"							
	https://drive.google.com/?urp=http://www.google.com/url?sa%3Dt%26rct%3Dj%26q%3D%26esrc%3Ds%26sou&pli=1&authuser=0#folders/0B4zGiJvCfw99Y2RDY09EaUJCa	resolves to "sign in to continue to google drive"							
	https://chronicle.com/article/In-Defense-of-Intellectual/10135	unc site license?						disqus, doubleclick, eloqua google analytics, omniture (adobe analytic), sharethis, typekit, by adobe, visual website optimizer	
	https://chronicle.com/article/Intellectual-Diversity-/25153	unc site license?						disqus, doubleclick, eloqua google analytics, omniture (adobe analytic), sharethis, typekit, by adobe, visual website optimizer	
	https://docs.google.com/file/d/0B4j49gMDWlZUck1yNGZsRXV4TzA/edit?pli=1	pdf not from sakai	1.00						
	https://docs.google.com/file/d/0B4zGiJvCfw99QjNGYjJnRlNNaDA/edit?pli=1	pdf not from sakai	1.00						

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	http://www.google.com/url?q=http%3A%2F%2Fwww.jstor.org.libproxy.lib.unc.edu%2Fstable%2F25541694&sa=D&sntz=1&usg=AFQjCNE4e9m17jUkgmqo1t_xehOxn2srIA	not directly through library proxy		1.00					
	https://accounts.google.com/ServiceLogin?service=wise&passive=1209600&continue=https%3A%2F%2Fdocs.google.com%2Ffile%2Fd%2F0B4zGiJvCfw99WEpDRzY0dzVld2M%2Fedit%3Fusp%3Dsharing&followup=https%3A%2F%2Fdocs.google.com%2Ffile%2Fd%2F0B4zGiJvCfw99WEpDRzY0dzVld2M%2Fedit%3Fusp%3Dsharing	resolves to "sign in to continue to google drive"							
	https://accounts.google.com/ServiceLogin?service=wise&passive=1209600&continue=https%3A%2F%2Fdocs.google.com%2Ffile%2Fd%2F0B4j49gMDWlZUUFZaU2poOGItQ1k%2Fedit%3Fusp%3Ddrive_web&followup=https%3A%2F%2Fdocs.google.com%2Ffile%2Fd%2F0B4j49gMDWlZUUFZaU2poOGItQ1k%2Fedit%3Fusp%3Ddrive_web	resolves to "sign in to continue to google drive"							
	https://docs.google.com/file/d/0B4j49gMDWlZUWEtfNXVOcHljZVU/edit?pli=1	pdf not from sakai	1.00		29.00	15/29	0.517		
INLS 101-001	aeshin.org	instructor's website							
	https://piazza.com/#fall2013/inls101							google analytics	
	also has sakai site								
	Saracevic, T. "Information Science." Edited by M. J Bates. Encyclopedia of Library and Information Sciences. New York: CRC Press, 2010. PDF.	pdf not from sakai	1.00						
	Saracevic, T. "Information Science." Edited by M. J Bates. Encyclopedia of Library and Information Sciences. New York: CRC Press, 2010. PDF	pdf not from sakai	1.00						
	Lester, J., and W. C. Koehler. "Fundamental Concepts of Information." In Fundamentals of Information Studies, 16–25. 2nd ed. New York: Neal-Schuman, 2007. PDF.	pdf not from sakai	1.00						
	http://www.morganclaypool.com/doi/abs/10.2200/S00306ED1V01Y201010ICR016.	not through library proxy or sakai							1.00
	Glushko, Robert J. "1. Foundations for Organizing Systems." In The Discipline of Organizing, edited by Robert J. Glushko. MIT Press, 2013. http://tdo.berkeley.edu/chapter-1-sample-pdf/.	pdf not from sakai	1.00						
	Glushko, Robert J., Rachelle Annechino, Jess Hemerly, and Longhao Wang. "Categorization: Describing Resource Classes and Types." In The Discipline of Organizing, edited by Robert J. Glushko, 203–236. MIT Press, 2013. PDF.	pdf not from sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	Glushko, Robert J., Jess Hemerly, Vivien Petras, Michael Manoochehri, and Longhao Wang. "Classification: Assigning Resources to Categories." In The Discipline of Organizing, 237–275. MIT Press, 2013. PDF.	pdf not from sakai	1.00						
	Morville, Peter, and Louis Rosenfeld. "Thesauri, Controlled Vocabularies, and Metadata." In Information Architecture for the World Wide Web. 3rd ed. Sebastopol, California: O'Reilly, 2006. PDF.	pdf not from sakai	1.00						
	Glushko, Robert J. "XML Foundations." In Document Engineering, 42-72. Cambridge, Massachusetts: MIT Press, 2005. http://people.ischool.berkeley.edu/~glushko/DocumentEngineeringBookDraft/DEBook/ch2_FINAL.pdf.	pdf not from sakai	1.00						
	Roman, Steven. "Introduction." In Access Database Design and Programming, 3–10. 3rd ed. Sebastopol, California: O'Reilly, 2002. PDF.	pdf not from sakai	1.00						
	Roman, Steven. "The Entity-Relationship Model of a Database." In Access Database Design and Programming, 11–17. 3rd ed. Sebastopol, California: O'Reilly, 2002. PDF.	pdf not from sakai	1.00						
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	Croft, W. Bruce, Donald Metzler, and Trevor Strohman. "Search Engines and Information Retrieval." In Search Engines: Information Retrieval in Practice, 1–12. Boston: Addison-Wesley, 2010. PDF.	pdf not from sakai	1.00						
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	Croft, W. Bruce, Donald Metzler, and Trevor Strohman. "Architecture of a Search Engine." In Search Engines: Information Retrieval in Practice, 13–29. Boston: Addison-Wesley, 2010. PDF.	pdf not from sakai	1.00						
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	Croft, W. Bruce, Donald Metzler, and Trevor Strohman. "Retrieval Models." In Search Engines: Information Retrieval in Practice, 233–241. Boston: Addison-Wesley, 2010. PDF.	pdf not from sakai	1.00						
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	Easley, David, and Jon Kleinberg. "Graphs." In Networks, crowds, and markets: reasoning about a highly connected world, 23–46. New York: Cambridge University Press, 2010. http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch02.pdf.	*pdf not from sakai	1.00						
	Easley, David, and Jon Kleinberg. "The Structure of the Web." In Networks, crowds, and markets: reasoning about a highly connected world, 375–395. New York: Cambridge University Press, 2010. http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch13.pdf.	*pdf not from sakai	1.00						
	Easley, David, and Jon Kleinberg. "Link Analysis and Web Search." In Networks, crowds, and markets: reasoning about a highly connected world, 397–495. New York: Cambridge University Press, 2010. http://www.cs.cornell.edu/home/kleinber/networks-book/networks-book-ch14.pdf.	*pdf not from sakai	1.00						
	Morville, Peter, and Louis Rosenfeld. "User Needs and Behaviors." In Information Architecture for the World Wide Web. 3rd ed. Sebastopol, California: O'Reilly, 2006. PDF.	pdf not from sakai	1.00						
	Hearst, Marti. "Models of the Information Seeking Process." In Search User Interfaces. Cambridge, UK: Cambridge University Press, 2009. http://searchuserinterfaces.com/book/sui_ch3_models_of_information_seeking.html.	author's website							
	Hearst, Marti. "Models of the Information Seeking Process." In Search User Interfaces. Cambridge, UK: Cambridge University Press, 2009. http://searchuserinterfaces.com/book/sui_ch3_models_of_information_seeking.html.	author's website							
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	Hearst, Marti. "The Design of Search User Interfaces." In Search user interfaces. Cambridge; New York: Cambridge University Press, 2009. http://searchuserinterfaces.com/book/sui_ch1_design.html.	author's website							
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	Friedman, Batya, and Helen Nissenbaum. "Bias in Computer Systems." ACM Trans. Inf. Syst. 14, no. 3 (July 1996): 330–347. http://doi.acm.org/10.1145/230538.230561.	article not through unc library proxy		1.00	29.00	15/29			
INLS 285	http://ils.unc.edu/courses/2013_fall/inls285_001/								
INLS 461-002	no information available								
INLS 502	http://ils.unc.edu/courses/2013_fall/inls502_001/	students' full names listed in schedule						google analytics	
	https://www.lib.ncsu.edu/tutorials/picking_topic/	.edu						google analytics	
	https://www.lib.ncsu.edu/tutorials/idea_library/	.edu						google analytics	
	www.erialproject.org/wp-content/uploads/2011/03/Toolkit-3.22.11.pdf	pdf not from sakai	1.00						
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INLS 883	Journal: Each student is expected to maintain a journal. This is something of a personal digital library where one will keep all materials related to this course, gathered in the course or elsewhere	to obtain account, must complete on-line googledocs form, at bottom of which is link to google tos and privacy policy. form requires students to indicate if there are in a SILS degree program and if so, which program; if not , what their association with SILS is; and to provide ONYEN, e-mail ID.							
	Current events and class discussion topics can also be part of your journal. I also expect tags, metadata and your own commentary added for each material as an outcome of your reading the material. I would strongly recommend the use of the SILS Lifetime Library (http://lifetime-library.ils.unc.edu/) for maintaining the journal as it allows controlled sharing. Please make the material readable by me so that I can evaluate the progress								
	This journal will be a persistent digital library that may help you later after the course and which you can grow as you gather more relevant material.				1.00				
INLS 690-30	no readings listed in schedule								
INLS 690-172	https://confluence.sakaiproject.org/display/UX/Contextual+Inquiry+Guides				1.00				
INLS 690-208	http://hul.harvard.edu/ois/systems/wax/resources.html	.edu							
	http://netpreserve.org/about/index.php	page not found						google analytics	
	http://pandora.nla.gov.au/pan/10691/20110824-1153/www.nla.gov.au/padi/topics/92.html								
	http://www.ifs.tuwien.ac.at/~aola/links/WebArchiving.html								
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	http://observgo.uquebec.ca/observgo/fichiers/57504_GRI%201.pdf	pdf not from sakai	1.00						
	http://siarchives.si.edu/blog/preserve-or-not-preserve-social-media.	page not found						addthis, google analytics, webtrends	
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.loc.gov/minerva							foresee, omniture (adobe analytics)	
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	https://archive.org/details/911 http://digitalmedia.fws.gov/ http://archive.ncsa.uiuc.edu/MEDIA/vidlib/ http://web3.unt.edu/webatrisk/cpg.php http://iwaw.europarchive.org/ https://webarchive.jira.com/wiki/pages/viewpage.action?pageId=3113092	.edu .edu						google analytics google analytics google analytics	
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	http://www.dlib.org/dlib/january02/kenney/01kenney.html	article not through unc library proxy		1.00					
	http://fairuse.stanford.edu/Copyright_and_Fair_Use_Overview/chapter6/6-a.html	.edu						disqus, facebook connect, google +1, google analytics, linkedin widgets, pinterest, share this, tumblr buttons, twitter button, wordpress stats	
	www.netpreserve.org http://blogs.loc.gov/							google analytics omniture (adobe analytics)	
	http://law.unh.edu/thomasfield/ipbasics/copyright-on-theinternet.Php	page not found						google adwords conversion, google analytics	

APPENDIX A: SILS COURSES REVIEWED

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://lcweb2.loc.gov/diglib/lcwa/html/sept11/sept11-overview.html#copyright⊡							foresee, omniture (adobe analytics) google analytics	
	http://www.nla.gov.au/padi/topics/28.html								
	http://copyright.gov				37.00	5/37	0.135	foresee, omniture (adobe analytics)	
INLS 745	http://www.schoollibraryjournal.com/article/CA6699357.html	article not through unc library proxy		1.00				facebook connect, google adsense, google ajax search api, google analytics, lockerz share, twitter button	
	http://virtualinquiry.com/inquiry/models.htm	associated with uipui (edu)							
	http://www.slj.com/2008/11/industry-news/flip-this-library-school-libraries-need-a-revolution/)	article not through unc library proxy		1.00				facebook connect, google adsense, google ajax search api, google analytics, lockerz share, twitter button	
	http://www.librarygirl.net/							feedjit, google +1, google adsense, google ajax search api, quantcast, revolver maps	
	http://blog.schoollibraryjournal.com/neverendingsearch/							google adsense, google ajax search api, google analytics, lockerz share, twitter badge	
	johnson.squarespace.com/	website expired							
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	http://www.thedaringlibrarian.com/							clustrmaps, feedjit, gigya beacon, google +1, google adsense, google ajax search api, google analytics, google friendconnect, linkwithin, quantcast, revolver maps, scorecard research beacon, skype, twitter badge, twitter button	
	http://www.talesfromaloudlibrarian.com/							google +1, google adsense, google ajax search api, google analytics, linkwithin, tumble buttons, twitter button	
	http://lpearle.wordpress.com/							gravatar, skimlinks, wordpress stats	
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://blog.cathyjonelson.com/							addthis, clustrmaps, facebook connect, feedjit, flickr badge, google analytics, gravatar, mixpanel, twitter button, wordpress stats	
	http://theteachingpalette.com/category/blog/							gravatar, workpress stats	
	http://4theloveofteaching.blogspot.com/							feedjit, google +1, google adsense, google ajax search api, google friendconnect	
	http://rd-busybees.blogspot.com/							google +1, google adsense, google friendconnect	
	http://ideabackpack.blogspot.com/							google +1, google adsense, google friendconnect, linkwithin	
	http://fliplearnshare.blogspot.com/							google +1, google adsense, google ajax search api, google friendconnect	
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	http://mathteachermambo.blogspot.com/							google +1, google adsense, sitemeter	
	http://jacobsphysics.blogspot.com/							google +1, google adsense, google friendconnect	
	http://thespian70.blogspot.com/							clustrmaps, google +1, google adsense, technorati	
	http://biancahewes.wordpress.com/							clustrmaps, facebook social graph, gravatar, skimlinks, twitter badge, twitter button, wordpress stats	
	"For this assignment you will begin to create a professional portfolio and to populate it with information, including artifacts. You may use any software that you choose to create your portfolio (i.e. WebdotUNC, Google Sites) as long as the software DOES NOT CONTAIN ADVERTISEMENTS."								
	http://tishaswoo.web.unc.edu/							facebook connect, google analytics	
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	http://www.ncpublicschools.org/acre/standards/new-standards/								
	http://www.slideshare.net/amytaylor/lswhs-community-analysis-amy-taylor	slideshare							
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	http://www4.ncsu.edu/unity/lockers/users/f/felder/public/Papers/LS_Validity(On-Course).pdf	pdf not from sakai	1.00						
	http://digital-literacy.syr.edu/data/From_The_Creative_Minds_Book.pdf								
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	http://www2.hawaii.edu/~vharada/Empowered.pdf	pdf not from sakai	1.00		40.00	6/40	0.150		
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	http://stores.lulu.com/DigCCurr2009.	professor's textbook download							
	http://john.curtin.edu.au/society/australia/	could be pdf in sakai						google analytics, tealium	1.00
	http://public.ccsds.org/publications/archive/650x0m2.pdf	pdf not from sakai	1.00						
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	http://www.dcc.ac.uk/digital-curation/what-digital-curation	could be pdf in sakai						google analytics, sharethis	1.00
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	http://shirky.com/writings/powerlaw_weblog.html	author's website							
	http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780199589074.001.0001/oxfordhb-9780199589074-e-7	unaccessible without login and account						addthis, new relic, unica	
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.theatlantic.com/technology/archive/2012/04/social-medias-small-positive-role-in-human-relationships/256346/	article not through unc library proxy		1.00				bizo, bluekai, brightcove, buzzfeed, chartbeat, critoo, disqus, doubleclick, facebook connect, google +1, google analytics, linkedin widgets, netratings sitecensus, omniture (adobe analytics), outbrain, parse.ly, peer39, reddit, scorecard research beacon, simplereach, taboola, twitter button, visual revenue	
	http://www.bbc.co.uk/blogs/digitalrevolution/2009/11/rushes-sequences-sherry-turkle.shtml							audience science, doubleclick, effective measure, gemius, netratings sitecensus, omniture (adobe analytics), scorecard research beacon	
	http://thesocietypages.org/cyborgology/2011/05/14/the-faux-vintage-photo-full-essay-parts-i-ii-and-iii/	associated with uminn and ww norton publishing						google analytics, gravatar, wordpress stats	

3dp pdfs:	third party PDFs	
web e-r:	electronic resources on web	
3dp/e-r:	number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy	
dataveillance:	dataveillance mechanisms detected on webpage	
convertible:	material easily convertible to PDF	

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.nytimes.com/2011/09/11/fashion/for-only-the-authentic-cultural-studies.html?_r=2&pagewanted=all	article not through unc library proxy		1.00				doubleclick, google adsense, krux digital, mediamind, moat, new york times, webtrends	
	http://jilliancyork.com/2011/07/29/a-case-for-pseudonyms/	author's website						google +1, gravatar, wordpress stats	
	http://technosociology.org/?p=481	instructor's website						facebook social graph, google analytics, gravatar, twitter badge, twitter button, wordpress stats	
	http://www.youtube.com/watch?v=RrpajcAgR1E	youtube -- who's dayren?							
	http://www.nytimes.com/2008/09/07/magazine/07awareness-t.html?pagewanted=all	article not through unc library proxy		1.00				doubleclick, google adsense, krux digital, mediamind, new york times, taconda, webtrends	
	http://thesocietypages.org/cyborgology/2013/01/10/context-collapse-a-literature-review/	associated with uminn and ww norton publishing						google analytics, gravatar, wordpress stats	
	http://docs.law.gwu.edu/facweb/dsolove/Future-of-Reputation/text/futureofreputation-ch1.pdf	pdf not from sakai	1.00						
	http://www.nytimes.com/2010/10/17/magazine/17FOB-WWLN-t.html	article not through unc library proxy		1.00				doubleclick, google adsense, krux digital, mediamind, new york times, taconda, webtrends	
	http://www.schneier.com/blog/archives/2010/08/a_taxonomy_of_s_1.html	could be pdf in sakai							1.00

APPENDIX A: SILS COURSES REVIEWED

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.theatlantic.com/technology/archive/2011/04/what-does-your-phone-know-about-you-more-than-you-think/237786/	article not through unc library proxy		1.00				bizo, bluekai, brightcove, buzzfeed, chartbeat, critoo, disqus, doubleclick, facebook connect, google +1, google analytics, linkedin widgets, netratings site census, omniture (adobe analytics), outbrain, parse.ly, peer39, reddit, scorecard research beacon, simplereach, taboola, twitter button, visual revenue	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.theatlantic.com/technology/archive/2011/04/my-life-according-to-the-iphones-secret-tracking-log/237636/	article not through unc library proxy		1.00				bizo, bluekai, brightcove buzzfeed, chartbeat, critoo, disqus, doubleclick, facebook connect, google +1, google analytics, linkedin widgets, netratings site census, omniture (adobe analytics), outbrain, parse.ly, peer39, reddit, scorecard research beacon, simplereach, taboola, twitter button, visual revenue	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.theguardian.com/technology/blog/2013/jun/14/nsa-prism	could be pdf in sakai						audience science, chartbeat, critoo, facebook connect, facebook social graph, foresee, google +1, google adsense, google adwords conversion, google ajax search api, hacker news button, linkedin widgets, mediamath, netratings sitecensus, omniture (adobe analytics), optimizely, outbrain, pinterest, quantcast, twitter button, xaxis	1.00

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.cnn.com/2013/07/31/opinion/schneier-nsa-trust/index.html	could be pdf in sakai						audience science, chartbeat, disqus, doubleclick DART, dynamic logic, facebook connect, insightexpress, krux digital, netratings sitecensus, omniture (adobe analytics), optmizely, outbrain, TRUSTe notice, twitter button, visual revenue	1.00
	http://www.washingtonpost.com/investigations/us-intelligence-mining-data-from-nine-us-internet-companies-in-broad-secret-program/2013/06/06/3a0c0da8-cebf-11e2-8845-d970ccb04497_story.html	article not through unc library proxy	1.00					adobe test & target, amazon associates, audience science, chartbeat, critoo, doubleclick, doubleclick floodlight, krux digital, mediamath, new relic, omniture (adobe analytics), outbrain, perfect market, quigo adsonar, scorecard research beacon, spotxchange, trove	
	http://www.youtube.com/watch?v=kaRvzQ887HM	youtube taken down							
	http://www.youtube.com/watch?v=UWmXNVO15AU	youtube -- democracy now							
	http://tehlug.org/files/solove.pdf	pdf not from sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.faz.net/aktuell/feuilleton/debatten/ueberwachung/ information-consumerism-the-price-of-hypocrisy-12292374.html	article not through unc library proxy		1.00				chartbeat, doubleclick, google analytics, infonline, krux digital, nugg.ad, voosoo vg wort, yieldlab	
	http://theweek.com/article/index/248478/5-reasons-the-nsa-scandal-aint-all-that	could be pdf in sakai						adroll, buzzfeed, chartbeat, completexl, crazy egg, disqus, doubleclick, dynamic logic, facebook connect, google +1, nativo, netratings sitecensus, nrelate, optimizely, pingdom, quantcast, scorecard research beacon, sharethis, soundcloud, twitter button, typekit by adobe	1.00

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://theweek.com/article/index/248479/4-reasons-the-nsa-scandal-is-troubling	could be pdf in sakai						adroll, buzzfeed, chartbeat, completexl, crazy egg, disqus, doubleclick, dynamic logic, facebook connect, google +1, nativo, netratings sitecensus, nrelate, optimizely, pingdom, quantcast, scorecard research beacon, sharethis, soundcloud, twitter button, typekit by adobe	1.00
	http://www.washingtonpost.com/wp-srv/special/politics/prism-collection-documents/	article not through unc library proxy		1.00				amazon associates, audience science, chartbeat, critoo, doubleclick, echo, krux digital, mediamath, omniture (adobe analytics), quantcast, scorecard research beacon, spotxchange	
	http://rkbusinessschool.com/uploads/2_The_New_York_Times_on_The_Age_of_Big_Data.pdf	pdf not from sakai	1.00						
	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2745217/	could be pdf in sakai							1.00
	http://ssrn.com/abstract=1909366	article not through unc library proxy		1.00				addthis, google adsense, piwik analytics	

APPENDIX A: SILS COURSES REVIEWED

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.slate.com/articles/news_and_politics/victory_lab/2012/01/project_dreamcatcher_how_cutting_edge_text_analytics_can_help_the_obama_campaign_determine_voters_hopes_and_fears_.single.html	article not through unc library proxy		1.00				amazon associates, buzzfeed, critoo, doubleclick, facebook connect, omniture (adobe analytics), optimizely, parse.ly, twitter button, visual revenue	
	http://www.wired.com/wired/archive/12.10/tail_pr.html	article not through unc library proxy		1.00				collarity, doubleclick, google analytics, omniture (adobe analytics), proficientz	
	http://onpoint.wbur.org/2011/03/18/james-gleick							chartbeat, disqus, google ajax search api, google analytics, scorecard research beacon, twitter button	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.theatlantic.com/magazine/archive/2008/07/is-google-making-us-stupid/306868/	article not through unc library proxy		1.00				bizo, bluekai, brightcove, buzzfeed, chartbeat, critoo, disqus, doubleclick, facebook connect, google +1, google analytics, linked widgets, netratings sitecensus, omniture (adobe analytics), outbrain, parse.ly, peer39, reddit, scorecard research beacon, simplereach, taboola, twitter button, visual revenue	
	http://www.nytimes.com/2010/06/11/opinion/11Pinker.html?_r=0	article not through unc library proxy		1.00				doubleclick, google adsense, integral ad science, krux digital, mediamind, moat, new york times, webtrends	
	http://www.nytimes.com/2010/06/06/books/review/Lehrer-t.html?src=me&ref=books	article not through unc library proxy		1.00				doubleclick, google adsense, krux digital, moat, new york times, webtrends	

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.wired.com/wiredscience/2010/06/the-shallows/	article not through unc library proxy		1.00				atlas, chartbeat, disqus, doubleclick, facebook social graph, google +1, google adsense, linkedin widgets, lotame, mobify, new relic, omniture (adobe analytics), outbrain, pinterest, scorecard research beacon, twitter button, typekit by adobe	
	http://www.roughtype.com/archives/2010/06/selflinking_beh.php	author's website						google adsense, google analytics	
	http://www.access-controlled.net/wp-content/PDFs/chapter-5.pdf	pdf not from sakai	1.00						
	http://www.brainpickings.org/index.php/2011/05/12/the-filter-bubble/							disqus, facebook social plugins, google +1, nrelate, pocket button, scorecard research beacon, tumblr buttons, twitter button, twitter counter, typekit by adobe, wordpress stats	
	http://www.ethanzuckerman.com/blog/2011/05/12/chi-keynote-desperately-seeking-serendipity/	author's website							
	http://www.propertyistheft.com/courses/social-web-media/readings/habermas-1964-the-public-sphere.pdf	pdf not from sakai	1.00						
	http://www.gpia.info/files/u1392/Shirky_Political_Poewr_of_Social_Media.pdf	pdf not from sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.foreignaffairs.com/articles/67325/malcolm-gladwell-and-clay-shirky/from-innovation-to-revolution	article not through unc library proxy		1.00					
	http://www.newscientist.com/article/mg20928026.100-the-internet-is-a-tyrants-friend.html	article not through unc library proxy		1.00					
	http://www.publicaffairsbooks.com/morozovch7.pdf	pdf not from sakai	1.00						
	http://www.aucegypt.edu/gapp/cairoreview/Pages/articleDetails.aspx?aid=89							facebook social plugins, google analytics	
	http://www.technologyreview.com/view/425280/new-media-and-the-people-powered-uprisings/	article not through unc library proxy		1.00	60.00	34/60	0.566	addthis, crazy egg. Doubleclick, google analytics, linksmart, livefyre, parse.ly, quantcast, scorecard research beacon	
INLS 746	http://www.musiclibraryassoc.org/404.asp?404;http://musiclibraryassoc.org:8200/uploadedFiles/Employment_and_Education/Music_Librarianship/Core_Competencies.pdf?n=7658	pdf not from sakai	1.00						
	http://www2.lib.unc.edu/wilson/sfc/ http://www.iaml.info/ http://www.music-ir.org/ http://www.arsc-audio.org/ http://www.mola-inc.org/							google analytics google analytics facebook social plugins	
	https://www.youtube.com/watch?feature=player_embedded&v=QXgcYwr5r6c	youtube -- artistshousemusic.org							
	http://musiclibrarianship.web.unc.edu/2013/09/17/field-experience-opportunity-at-the-wayne-leupold-organ-archive/	.edu						google analytics, gravatar	
	http://www.tandfonline.com/doi/abs/10.1080/10588160802157124?journalCode=wmus20	article not through unc library proxy		1.00				addthis, google analytics	
	http://www.jstor.org/discover/10.2307/898293?uid=3739776&uid=2&uid=4&uid=3739256&sid=21103589066547	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	http://www.oxfordmusiconline.com/subscriber/article/grove/music/08552pg1?q=editions%2C+historical&search=quick&source=omo_gmo&pos=1&_start=1	article not through unc library proxy		1.00				unica	
	http://www.musicassociatesofamerica.com/madamina/1991/kochelkatalog.html	could be pdf in sakai							1.00

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	Zagar, Daniel. "Collection development and management." Notes 56/3 (March 2000): 567-573. JSTOR	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	Gillie, Esther and Thomas H. Teper. "Assessing the University of Illinois at Urbana-Champaign's score collection." Notes 61/4 (June 2005): 939-957. Project Muse	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	pi.library.yorku.ca/ojs/index.php/caml/article/viewFile/30972/28411	pdf not from sakai	1.00						
	pi.library.yorku.ca/ojs/index.php/caml/article/viewFile/30971/28410	pdf not from sakai	1.00						
	Fling, R. Michael. "Tips on acquiring music." Notes 63/2 (Dec. 2006): 279-288. Project MUSE	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	see also the yearly (December) column in Notes "Prices of Music Monographs and Scores as Reflected in Notes"	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	https://www.youtube.com/watch?feature=player_embedded&v=QXgcYwr5r6c	youtube -- artistshousemusic.org							
	citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.173.6684&rep=rep1&type=pdf	pdf not from sakai	1.00						
	http://www.abajournal.com/magazine/article/copyright_in_the_age_of_youtube/							chartbeat, facebook connect, google adsense, google analytics, lockerz share, omniture (adobe analytics), xaxis	
	http://www.jstor.org/discover/10.2307/900532?uid=3739776&uid=2&uid=4&uid=3739256&sid=21103589066547	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	

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	http://www.jstor.org/discover/10.2307/899890?uid=3739776&uid=2&uid=4&uid=3739256&sid=21103589066547	article not through unc library proxy		1.00				adobe tag container, adobe test & target, crazy egg, google analytics	
	http://journal.code4lib.org/articles/4916							google analytics	
	http://www.cs.uu.nl/groups/MG/multimedia/publications/art/AMRWiering.pdf	pdf not from sakai	1.00						
	http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5992170	article not through unc library proxy		1.00				addthis, doubleclick, scout analytics, twitter badge, unica, webtrends	
	http://search.proquest.com/docview/1013441525	article not through unc library proxy		1.00				foresee, webtrends	
	http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4472077	article not through unc library proxy		1.00				addthis, doubleclick, scout analytics, twitter badge, unica, webtrends	
	http://ismir2011.ismir.net/papers/PS1-2.pdf	pdf not from sakai	1.00						
	http://ismir2011.ismir.net/papers/PS1-10.pdf	pdf not from sakai	1.00		30.00	19/30	0.633		
INLS 780	http://ejournals.library.ualberta.ca/index.php APA Style website: http://www.apastyle.org/	.edu						google analytics, twitter button	
	http://owl.english.purdue.edu/owl/resource/560/01/	.edu							
	http://www.ncbi.nlm.nih.gov/pmc/articles/PMC35250/pdf/i0025-7338-088-04-0289.pdf	pdf not from sakai	1.00						
	http://ejournals.library.ualberta.ca/index.php/EBLIP/article/view/10245/8126	article not through unc library proxy		1.00				addthis, google analytics	
	http://ejournals.library.ualberta.ca/index.php/EBLIP	article not through unc library proxy		1.00				addthis, google analytics	
	http://www.eblip4.unc.edu/ http://www.uwex.edu/ces/pdande/evaluation/evallogicmodel.html	available as slides or pdf							
	http://ohsr.od.nih.gov/guidelines/belmont.html	not found							
	http://www.shapingoutcomes.org/							google analytics	
	http://surveynet.ac.uk/sqb/datacollection/likertfactsheet.pdf	pdf not from sakai	1.00						
	http://surveynet.ac.uk/sqb/datacollection/likertfactsheet.pdf	pdf not from sakai	1.00						
	http://obssr.od.nih.gov/scientific_areas/methodology/mixed_methods_research/section6.aspx	available as pdf						google analytics	

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	http://wilisdatacuration.web.unc.edu/							google analytics	
	http://research.unc.edu/offices/human-research-ethics/researchers/training/index.htm	.edu							
	www.mlanet.org							google analytics, opentracker	
	http://web.psych.washington.edu/writingcenter/writingguides/pdf/litrev.pdf	pdf not from sakai	1.00						
	http://www.imls.gov/				18.00	6/18	0.330	addthis, google analytics	
INLS 690-163	Each student is expected to maintain a journal. This is something of a personal digital library where one will keep all materials related to this course . . . I also expect tags, metadata and your own commentary added for each material as an outcome of your reading the material. I would strongly recommend the use of the SILS Lifetime Library (http://lifetime-library.ils.unc.edu/) for maintaining the journal as it allows controlled sharing. Please make the material readable by me so that I can evaluate the progress. This journal will be a persistent digital library that may help you later after the course and which you can grow as you gather more relevant material.								
	Project work: I am planning on a series of projects – at least two: one with Hadoop, another with Cassandra or MongoDB. More information will be available as the course proceeds. We will be using platforms provided by RENCI/NCDS . . .RENCI has agreed to help us in setting and administering these systems.				1.00				
INLS 566		no materials listed							
INLS 582-003	ils.unc.edu								
	sils lab software								
	aisel.aisnet.org/cgi/viewcontent.cgi?article=3547&context=cais	pdf not from sakai	1.00						

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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.newsobserver.com/2012/06/05/2112794/road-worrier-bell-tower-roundabout.html	article not through unc library proxy		1.00				doubleclick facebook connect, gomez, google adsense, google analytics, netratings sitecensus, omniture (adobe analytics), press+, quantcast, simpli.fi, wishabi	
	www.auto-ui.org/10/proceedings/p156.pdf http://www.pmi.org/	pdf not from sakai	1.00					adjuggler, doubleclick floodlight, omniture (adobe analytics), webtrends	
	Gottesdiener, E. (2002). Top ten ways project teams misuse use cases -- and how to correct them: Part I: Content and style issues The Rational Edge, June 2002.	pdf not from sakai	1.00						
	Gottesdiener, E. (2002). Top ten ways project teams misuse use cases -- and how to correct them: Part II: Eliciting and modeling use cases The Rational Edge, July 2002.	pdf not from sakai	1.00						
	http://ils.unc.edu/courses/2013_spring/inls582_003/spring2013/Exercises/CaseStudy/DuncanGerrard2011.pdf	pdf not from sakai	1.00						
	http://www.section508.gov/index.cfm?FuseAction=Content&ID=3 http://www.w3.org/WAI/ ; http://www.w3.org/WAI/intro/wcag.php	404 not found							
	http://ils.unc.edu/~stephani/safa12_001/details/LorenziRiley2000.pdf	pdf not from sakai	1.00						
	http://ils.unc.edu/~stephani/safa12_001/details/SicotteEtAl2006.pdf	pdf not from sakai	1.00						
	http://ils.unc.edu/courses/2013_spring/inls582_003/spring2013/Exercises/CaseStudy/HybridTrackingSystem.pdf	pdf not from sakai	1.00		12.00				
INLS 490-161	rwmoore [at] renci [dot] org http://lifetime-library.ils.unc.edu/	contact e-mail address not unc.edu			2.00				
INLS 690-161	rwmoore [at] renci [dot] org	contact e-mail address not unc.edu							

APPENDIX A: SILS COURSES REVIEWED

<u>KEY</u>

3dp pdfs: third party PDFs
web e-r: electronic resources on web
3dp/e-r: number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
dataveillance: dataveillance mechanisms detected on webpage
convertible: material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://lifetime-library.ils.unc.edu/								
	http://www.ijdc.net/index.php/ijdc/article/viewFile/63/42	pdf not from sakai	1.00						
	http://www.metapress.com.libproxy.lib.unc.edu/content/176p51l2w5278567/fulltext.pdf	pdf not from sakai	1.00		4.00				
INLS 782	http://www.ibiblio.org/pomerantz/wiki/index.php/INLS_782:_Library_Assessment	ibilio							
	I will hold virtual office hours throughout the semester, using Google Hangouts or BigBlueButton or some other tool.	see e-mail exchange with instructor							
	All readings will be assigned on the course Schedule. Readings not from Matthews will be available on the free web, as an e-journal, via the Library's e-reserves, or via this wiki. Readings are also listed in my course Pinboard feed									
	http://www.tableausoftware.com/products/desktop	software						demandbase, eloqua, google tag manager, new relic	
	Content delivery via video micro-lectures									
	Discussion in threaded forums									
	Virtual office hours									
	Collaboration on group project work									
	High-speed internet access									
	A webcam									
	A microphone				3.00				
INLS 697	https://inls697002spring13.web.unc.edu/								
	Instructor name and Contact info: Paul Jones	google + OR facebook OR linkedin OR twitter OR Gtalk, AIM, Skype; Google Calendar.							
	Google + as Paul Jones and smalljones									
	http://gplus.to/smalljones									
	Facebook http://www.facebook.com/smalljones									
	LinkedIn http://www.linkedin.com/in/smalljones									
	Twitter https://twitter.com/#!/smalljones									
	on most other socialnetworking sites as smalljones including: Gtalk, AIM, Skype									
	My calendar on Google Calendar as smalljones@gmail.com. Please feel free to schedule meetings and conferences with me there.									

KEY
3dp pdfs: third party PDFs
web e-r: electronic resources on web
3dp/e-r: number of 3dp PDFs and electronic resources on web compared with total number of third party resources not provided in Sakai, on course website, or in hardcopy
dataveillance: dataveillance mechanisms detected on webpage
convertible: material easily convertible to PDF

course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	Don't send email. Why? See the #noemail project. and a Carolina Alumni feature on #noemail. Still interested? Discover #noemail on Twitter Diigo tag: ILS697	student comments are completely public							
INLS 758	http://internationalcross-cultural.blogspot.com/?zx=eba1bae1fcb48b10 "peer reflections" lists all cass members; clicking on each name yields all posts made by that person. Despite fact that instructor said posts would be visible only to class members, posts by current AND FORMER SILS students are visible if one has a gmail account -- no separate sign-in with blog password required			1.00					
INLS 558	http://ils.unc.edu/courses/2013_fall/inls558_001/558syllabus.html http://ils.unc.edu/~sturm/storytelling/cuecards/ http://www.ala.org/aasl/aaslpubsandjournals/slmrb/slmrcontents/volume21999/vol2sturm http://books.google.com/books?id=m8MZAAAAYAAJ&dq=shedlock%20storytelling&pg=PR3#v=onepage&q=shedlock%20storytelling&f=false art of story telling http://www.gutenberg.org/ebooks/5957 http://www.folktale.net/openers.html https://suite101.com/a/using-drums-for-kids-storytelling-a175065 http://www.folktale.net/endings.html http://www.storyworksgroup.com/newsletter/july_aug2009.html http://www.creativekeys.net/StorytellingPower/article1037.html http://storydynamics.com/Home/eTips/e016eTips.html http://themoth.org/stories	Two copies available in SILS library and multiple copies available elsewhere in UL; no need for google books book available at gutenberg.org, which does not track		1.00				google analytics google analytics google adsense, quantcast, twitter button, typekit by adobe facebook social plugins, twitter button, typekit by adobe	

<u>KEY</u>

3dp pdfs: third party PDFs
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course	non-hardcopy/non-sakai/non proxy e-resources	comments	3dp pdfs dp	web e-r	total 3dp	3dp/e-r	3dp/e-r as dec	dataveillance	convertible
	http://www.byutv.org/watch/6b6c3ccb-68e2-4d34-baf3-da2c482714c3				13.00	1/13	0.077	doubleclick, gigya socialize, liverail, omniture (adobe analytics)	
INLS 582-002	http://www.newsobserver.com/2012/06/05/2112794/road-worrier-bell-tower-roundabout.html#storylink=misearch	article not via unc proxy		1.00				doubleclick facebook connect, gomez, google adsense, google analytics, netratings sitecensus, omniture (adobe analytics), press+, quantcast, simpli.fi, wishabi	
	http://aisel.aisnet.org/cgi/viewcontent.cgi?article=3547&context=cais	pdf not through sakai or direct link w/n unc	1.00						
	http://www.auto-ui.org/10/proceedings/p156.pdf	pdf not through sakai or direct link w/n unc	1.00						
	http://www.pmi.org/							adjuggler, doubleclick floodlight	
	http://www-128.ibm.com/developerworks/rational/library/content/Rational Edge/jun02/MisuseUseCasesJun02.pdf	pdf not through sakai or direct link w/n unc	1.00					webtrends	
	http://www-128.ibm.com/developerworks/rational/library/content/Rational Edge/jul02/TopTenWaysJul02.pdf	pdf not through sakai or direct link w/n unc	1.00						
	http://sils.unc.edu/research/funding-sources								
	http://www.w3.org/WAI/intro/wcag.php				15.00	5/15	0.333		
		524 of 1297 e-resources, or 40.4%, could have been recaptured as PDFs or by UL 572 (44%), if convertible-to-PDFs are counted.	337.00	187.00	1297.00				48.00