

IS 30: Internet and Society
Fall 2015

Department of Information Studies
University of California, Los Angeles
M, W 1:00pm– 2:50pm
111 GSE&IS Bldg.

Course website <https://ccle.ucla.edu/course/view/15F-INFSTD30-1>

Office Hours

(Please make appointments at least one (1) day in advance)

Diana Ascher
W 4:00 p.m. – 5:00 p.m.
<http://doodle.com/poll/f67kr5errprtag6m>
The Salon, GSE&IS Bldg.
dianaascher@ucla.edu

Prof. Leah Lievrouw
W 10:30 am-12:30 pm
<http://doodle.com/kmd8fs7v56xdwb3x>
216 GSE&IS Bldg.
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Course Description and Objectives. This course is an introduction to the social and technical developments that have led to today's Internet and related information and communication technologies (ICTs), and the consequences of these technologies for society and culture. The primary aim of this course is to provide an historical context to serve as a basis for critical investigation of assumptions about and implications of the Internet. We will examine cases from a variety of disciplines to cultivate a multi-perspective understanding of the evolution of the Internet and the forces that will shape its future. Cases will entail communications and mass media, news and social networks, access and economics, power and rights, ethics and privacy, trust and misinformation. The course is intended to help undergraduates develop a critical Internet literacy to recognize and challenge common assumptions about the effects of the Internet on epistemology and the practices we employ to acquire and use information.

This course satisfies the Society and Culture-Social Analysis GE requirement for the College of Letters & Science.

Assignments and Grading. Student learning in the course will be evaluated by four elements to assess understanding of key issues covered in the course and encourage critical reflection about those issues:

1. Class participation (25%): Thoughtful, substantive contributions to classroom discussion. Please be prepared; "fake it 'till you make it" won't work here.
2. Weekly blog posts (25%): Each week you will post to the class blog a 250-word essay reflecting on the coming week's readings. Reflection essays must be posted before 5pm on Friday. In other words, for Week 1, post your blog before 5pm on Friday, September 25; for Week 2, post your blog before 5pm on Friday, October 2.
3. Assignments (30%): Brief exercises that provide an opportunity to reflect on one's own Internet practices and apply concepts from the course to an analysis of the factors that influence this behavior. These assignments will be distributed in class.

4. Group timeline project (20%): During the first class session, students will be divided into small groups. Each group will develop a timeline of the top 10 Internet-related events for a specific domain. Final timelines must be submitted by 5pm on **Friday, December 4**. Groups will present their final timelines on **Wednesday, December 9**. Along with the final presentation, each student must submit a peer review evaluating the contributions of the members of her/his group.

Readings and Course Resources. Students are expected to read/explore/watch all assigned materials (listed below, under Weekly Topics and Required Materials) before class, and be prepared to summarize or comment on the assigned materials in class. All course materials are available via the UCLA Common Collaboration and Learning Environment (CCLE) website. The website and other class materials are password-protected and intended for the exclusive use of students participating in IS 30. Students may not forward or circulate any course materials outside of class without the instructor's express permission.

Students with Disabilities. Students with documented disabilities who wish to discuss academic accommodations should contact the Office for Students with Disabilities at (310) 825-1501, and must notify the instructor at the start of the quarter so that appropriate accommodations can be arranged and coordinated with the OSD well in advance of course assignments and due dates.

IS 30 | Course Organization and Topic Outline, F15 (DA) 9/14/15

Schedule and assignments are subject to change.

Weekly Topics and Required Materials

Part I. History and Infrastructure

Week 1

M 9/28 | Prehistory of the Internet

“Everything in the universe, and everything of man, would be registered at a distance as it was produced. In this way a moving image of the world will be established, a true mirror of his memory. From a distance, everyone will be able to read text, enlarged and limited to the desired subject, projected on an individual screen. In this way, everyone from his armchair will be able to contemplate the whole of creation, in whole or in certain parts.” ~ Paul Otlet, *Monde*, 1935

Objective: To impart a sense of historical context for the evolution of the Internet

Outcome: Summarize the instrumental elements of the evolution of today's Internet

Theme/Challenge: Information as scarce resource

Agenda

Introductions

Syllabus review

Expectations

Survey results

Timeline project discussion

Presentation and discussion

Advance Preparation

Read

Bush, V. (1945). As we may think. *The Atlantic Monthly*, July, 101-108 [online]. [Link](#)

Wright, A. (2014). Secret history of hypertext. *The Atlantic Monthly* [online]. [Link](#)

Wells, H.G. (1938). World brain: The idea of a permanent world encyclopedia. From *World Brain*, pp. 83-88. New York: Doubleday. [Link](#)

Explore

Alex Wright's website, [Link](#)

Watch

Katherine Hayles on the Total Archive [Link](#)

Otlet documentary [Link](#)

Three optional videos: [Link1](#), [Link2](#), [Link3](#)

Submit

Introductory survey at <http://dianaascher.com/is30> due before 5pm on Thursday, September 24

Reflection essay on Week 1 readings (250 words) due by 5pm Friday, September 25

W 9/30 | Building the Network of Networks

"Mr. Watson! Come here! I want you!" ~ Alexander Graham Bell, 1976

Objective: Provide a sense of the forces that influenced the trajectory of the Internet during the Cold War.

Outcome: Describe how networks have been used to overcome obstacles to access, connectivity, and efficient knowledge sharing.

Theme/Challenge: Obstacles to efficient knowledge sharing (access and connectivity)

Agenda

Sociogram exercise

Presentation and discussion

Timeline nominations

Advance Preparation

Read

Abbate, J. (1999). Popularizing the internet. In *Inventing the Internet*, Cambridge: MIT Press, pp. 181-212.

Castells (2001) *The Internet Galaxy: Reflections on the Internet, Business, and Society*, pp. 9-35.

Cherry, C. (1977). The telephone system: Creator of mobility and social change. In I. de Sola Pool (Ed.), *The Social Impact of the Telephone*, pp. 112-126. Cambridge, MA: MIT Press.

Huberman, B. A. (2001). 'The phenomenon of the Web,' and 'Evolution and structure,' in *Laws of the Web: Patterns in the Ecology of Information*. Cambridge, MA: MIT Press, pp. 7-31.

Leiner et al., Brief History of the Internet.

Jennings, D. M., Landweber, L. H., Fuchs, I., Farber, D. J., & Richards Adrion, W. (1986). Computer networking for scientists. *Science*, 28(231:4741), 943-950. [DOI:10.1126/science.231.4741.943]

Licklider, J.C.R., & Taylor, R. W. (1968). The computer as a communication device. *Science and Technology*, 76, April, 21-41.

Rainie, L., and Wellman, B. (2012), *Networking: The New Social Operating System*. Cambridge, MA: MIT Press.

Rappold, R. (N.D.). J. C. R. Licklider. [Link](#)

Starr, P. (2004). The Creation of the Media: Political origins of modern communications, pp. 1-19.

Explore

40 Maps that Explain the Internet [Link](#)

[Guardian History of the Internet](#)

Watch

Bilgil, M. (2009). *The history of the Internet* [video]. [Link](#) or [Link](#)

Submit

Sociogram exercise due by 9am Tuesday, September 29

Week 2

M 10/5 | Interfaces: GUIs and Interactivity

“The digital revolution is far more significant than the invention of writing or even of printing.” ~ Douglas Engelbart

Objective: Convey the instrumentality of the user interface in the movement from command-line to GUI control.

Outcome: Explain the role of the introduction of the GUI in the evolution of the Internet. What are some of the positive and negative consequences? What conditions might have resulted in a different outcome?

Theme/Challenge: Short-term enthusiasm obscures long-term threats

Agenda

Englebart demos

Presentation and discussion

Advance Preparation

Read

Buxton, W. (2001). Less is More (More or Less), in P. Denning (Ed.), *The Invisible Future: The Seamless Integration of Technology in Everyday Life*. New York: McGraw Hill, 145-179.

Kay, A. (1990). User interface: A personal view. In Laurel, B., & Mountford, J. S., Eds., *The Art of Human-Computer Interface Design*, pp. 191-207.

Nelson, T. H. (2003 [1974]). Excerpts from *Computer Lib/Dream Machines*. In N. Wardrip-Fruin and N. Montfort (Eds.), *The New Media Reader*, pp. 303-338. Cambridge, MA and London: MIT Press. [Selected excerpts.]

Norman, D. (2010). Natural user interfaces are not natural. *Interactions*, May-June. [Link](#)

Explore

Information Aesthetics (website/blog)

Watch

Eames, Charles and Ray (1958). *The Information Machine*. Film produced for the IBM exhibit at the Brussels World's Fair.

Submit

Reflection essay on Week 2 readings due by 5pm Friday, October 2

W 10/7 | Interfaces: Browsers and Search

“The kind of environment that we developed Google in, the reason that we were able to develop a search engine, is the Web was so open. Once you get too many rules, that will stifle innovation.” ~ Sergey Brin

Objective: Demonstrate some of the filtering effects of search algorithms.

Outcome: Summarize the various perspectives in the debate over the filter bubble.

Theme/Challenge: Filter bubble; control/freedom; identity

Agenda

Algorithm exercise
Presentation and discussion
Video
Timeline nominations

Advance Preparation

Read

Anderson, J.Q., and Rainie, L. (2010). *Does Google make us stupid?* Pew Internet & American Life Project, February 19.

Berners-Lee, T. (1989) *Information Management: A Proposal*. [Link](#)

Granka, Laura A. (2010). The politics of search: A decade retrospective. *The Information Society*, 26, 364-374.

Introna, L., & Nissenbaum, H. 2000 Shaping the Web: Why the politics of search engines matters

Levy, S. (2010). How Google's algorithm rules the Web. *Wired* 17.12, March.

Mager, A. (2012). *Algorithmic ideology*. *Information, Communication & Society*, 15(5), pp. 769-787.

Noble, S. (2013). Google search: Hyper-visibility as a means of rendering black women and girls invisible. *InVisible Culture*, 19.

Resnick, P., et al. (2013). *Bursting your (filter) bubble: Strategies for promoting diverse exposure*. In Proceedings of the 2013 conference on Computer supported cooperative work companion (CSCW '13). New York, NY: ACM.

Singhal, A. (2012). Introducing the Knowledge Graph: Things, not strings. *Google's Official Blog*, May 16. [Link](#)

Sunstein, C. R. (2001). The Daily We: Is the Internet really a blessing for democracy? *Boston Review* [Online]. [Link](#)

Wikipedia entry, *Browser Wars*

Ytre-Arne, B. (2011). I want to hold it in my hands: Readers' experiences of the phenomenological differences between women's magazines online and in print, *Media, Culture & Society*, 33(3): 467-477.

Explore

Wall, A. (2013). *Search Engine History*. [Link](#)

Microsoft v. Apple [Link](#)

Check out the various bandwidth experiences at [Link A](#) and [Link B](#)

Watch

Submit

Algorithm exercise due by 5pm, Tuesday, October 6

Week 3

M 10/12 | Web 2.0, Commercialization, Social Media, Mobility, Ubiquity

“The Internet is just a bunch of servers and broadband cables and routers that traffic data around the world. But I think now the Internet is starting to become an entity that society views as a human thing.” ~ Adam Ostrow

Objective: Introduce the shift in focus from technology to users/society.

Outcome: Explain the transition from technological to social notions of the Internet.

Theme/Problem: Identity across domains; personal vs. private data; values and virtual communities

Agenda

Presentation and discussion

Advance Preparation

Read

Anderson, C. & Wolff, M. (2010) The Web is Dead. Long Live the Internet. *Wired*. [Link](#)

Bianchi, L. (2011) . The history of social networking. *Viralblog*. [Link](#)

Curtis, A. (2014) The Brief History of Social Media. Online at University of North Carolina. [Link](#)

Graham, P. (2005). Web 2.0. [Link](#)

Licklider, J.C.R. and Taylor, R. W. (1968). The Computer as a Communication Device. *Science and Technology*, April. [Link](#)

Ling, R. and Schroeder, R. (2014) Durkheim and Weber on the social implications of new information and communication technologies: *New Media & Society* 16(5), 789-805. (Excerpt: “Durkheim”)

Metz, C. (2015). New iPhone Means We’ll Soon Escape the Captivity of Carriers. *Wired* [Online].

[Link](#)

Rappold, R. (N.D.). J. C. R. Licklider. [Link](#)

Rice, R., & Pearce, K. (2013). Digital divides from access to activities: Comparing mobile and personal computer Internet users. *Journal of Communication*, 63(4), pp. 721–744. [Link](#)

Wikipedia “History of Mobile Phones”

Explore

Roberts on Packet Switching [Link](#)

Hollywood 2.0 [Link](#)

The history of search engines and how they work www.searchenginehistory.com

[Link](#)

Watch

Blum, A. (2012). Discover the physical side of the Internet [Video]. [Link](#)

Submit

Reflection essay on Week 3 readings due by 5pm Friday, October 9

14-Oct Web 3.0, Big Data, and the Internet of Things

“One must be prepared to reject not only the schema of the physical library, which is essentially a response to books and their proliferation, but the schema of the book itself, and even that of the

printed page as a long term storage device, if one is to discover the kinds of procognitive systems needed in the future.” ~ J. C. R. Licklider

Objective: Elicit a discussion about the positive and negative externalities arising from current applications of the Internet.

Outcome: Describe some of the benefits and drawbacks to Big Data and the Internet of Things.

Theme/Problem: Data security

Agenda

Presentation and discussion

Timeline nominations

Advance Preparation

Read

Berners-Lee, T. (2010). Long live the Web: A call for continued open standards and neutrality. *Scientific American*, December. [Link](#)

Carr, N. (2008). Is Google making us stupid? *The Atlantic*, July/August. [Link](#)

Crawford, K., et al. (2014). Critiquing Big Data: Politics, Ethics, Epistemology. *International Journal of Communication*, 8, 1663–1672. [PDF](#)

Wasik, B. (2013). In the programmable world, all our objects will act as one. *Wired* [Online]. [Link](#)

Halpern, S. (2014). Creepy new wave of the Internet. *New York Review of Books* [Online]. [Link](#)

Rosenbaum, R. (2013). What turned Jaron Lanier against the Web? *Smithsonian Magazine* [Online]. January. [Link](#)

Explore

Wikipedia “Internet of Things”

Wikipedia “Big Data”

Guszcza, J., Lewis, H., & Lucker, J. (2015). IoT’s about us: Emerging forms of innovation in the Internet of Things. *Deloitte Review*, 17. [Link](#)

Watch

Berners-Lee, T. (2009). The next web of open, linked data. *TED Talks*, March 13. [Link](#)

Pierce, D. (2015). Rejoice: Google Just Created a Stupidly Simple Wi-Fi Router. *Wired* [Online]. [Link](#)

Submit

Data footprint exercise due by 9am Tuesday, October 13

Part II. Issues in Society and Culture

Week 4

M 10/19 | Economics/Political Economy, Ownership

“The world's entire scientific and cultural heritage, published over centuries in books and journals, is increasingly being digitized and locked up by a handful of private corporations.” ~ Aaron Swartz

Objective: Impart an appreciation for the power dynamics of information markets.

Outcome: Describe how information value and access challenge equality.

Theme/Challenge: Ownership versus open access

Agenda

Presentation & discussion

Activity

Timeline nominations

Advance Preparation

Read

Andreesen, M (2014). Why Bitcoin Matters. *The New York Times*. [Link](#)

Anderson, C. (2004). The long tail. *Wired*, 12.10, October. [Link](#) (Optional if you watch the video)

Shirky, C. (2003). Power Laws, Weblogs, and Inequality. [Link](#)

Stallman, R. (2002). The GNU Project. In *Free Software, Free Society: Selected Essays of Richard M. Stallman* (Ed. J. Gay), pp. 15-30. Boston, MA: Free Software Foundation. [Link](#)

Explore

Watch

Anderson, C. (2004). The long tail. *Wired*, 12.10, October. [Link](#)

Submit

Reflection essay on Week 4 readings due by 5pm Friday, October 16

W 10/21 | Creativity, Cultural Production, Labor

“Discovery is seeing what everybody else has seen, and thinking what nobody else has thought.”
~ Albert Szent-Gyorgyi

Objective: Delineate the ways in which work has changed in the digital age.

Outcome: Describe how changes in the production and distribution of knowledge has affected work.

Theme/Challenge: Competing ideologies and information value

Agenda

Presentation & discussion

Advance Preparation

Read

Benkler, Y. (2014). Peer Production and Cooperation. In *Handbook for Internet Economics*. [Link](#)

Benkler, Y. (2002). Coase's Penguin, or, Linux and 'The Nature of the Firm.' *Yale Law Journal*, 112(3), December, 369-446. [Excerpt, pages 371-381.] [Link](#)

Castells, M.: (2013) Work, Labor, Class, and Gender: The Network Enterprise and the New Social Division of Labor. *Communication Power*, p. 29-33. Oxford: Oxford University Press.

Kessler, S. (2014). Pixel and dime: On not getting by in the gig economy. *Forbes* [Online], March 18. [Link](#)

Gleick, J. (2011, May). What defines a meme? *Smithsonian*. [Link](#)

Lessig, L. (2004). *Free Culture: How Big Media Uses Technology and the Law to Lock Down Culture and Control Creativity*, New York: Penguin, 2004. [Link](#)

Lunenfeld, P. (2007). Dispatches from the front: Battling for meaning in the war between downloading and uploading. *Re-Public* [Online]. [Link](#)

Letter to Bezos from Mturkers [Link](#)

Explore

Economist special report on tech startups, Jan. 18, 2014, see "Getting up to speed" and "Founder's blues" [Link](#)

Watch

Terranova, T.: Trade unionism, digital labor and the sharing economy: Tiziana Terranova interviews Trebor Scholz. *Euronomade*. [Link](#)

Submit

Assignment due by 9am Tuesday, October 20

Week 5

M 10/26 | Cultural Institutions, Education, Journalism

“Embedded in 'The New York Times' institutional perspective and reporting methodologies are all sorts of quite debatable and subjective political and cultural assumptions about the world. And with some noble exceptions, 'The Times,' by design or otherwise, has long served the interests of the same set of elite and powerful factions.” ~ Glenn Greenwald

Objective: Present the challenges and opportunities for cultural institutions, education, and journalism in the current digital context.

Outcome: Explain how the evolution of the Internet has created new opportunities and challenges for cultural, educational, and news organizations.

Theme/Challenge: Adapting information practices to socio-technical change

Agenda

Presentation and discussion

Strategy comparison: Napster and Pandora

Brief discussion of dissertation research

Advance Preparation

Read

Crane, G. (2006). What do you do with a million books? *D-Lib Magazine* 12 (13). [Link](#)

Clough, Wayne (2013). Best of both worlds: Museums, libraries, and archives in a digital age. Washington, DC: Smithsonian. [Link](#)

Chronicle of Higher Education. (2015). *Next: The credentials craze*.

Lih, A. (2004). Wikipedia as participatory journalism: Reliable sources? Metrics for evaluating collaborative media as a news resource. *Proceedings of the 5th International Symposium on Online Journalism*.

Massing, M. (2009). A new horizon for the news. *New York Review of Books*, 56(14), September 24, 31-34.

Suskind, A. (2014) 15 years after Napster. *The Daily Beast*. [Link](#)

Zickhur, K., & Smith, A. (2012). Digital differences. Washington, DC: Pew Internet and American Life Project. [Link](#)

Explore

Watch

Submit

Reflection essay on Week 5 readings due by 5pm Friday, October 23

W 10/28 | Preservation & Cultural Heritage

“[W]e rely on data to capture history as it unfolds, extend knowledge in every area, and save lives in advance of natural disasters. But digital frailty can easily undermine these essential purposes.” ~ Bill LeFurgy

Objective: Highlight the challenges to preservation of digital media and cultural artifacts in the digital age.

Outcome: Outline the key concerns for long-term preservation of cultural artifacts, both material and digital.

Theme/Challenge: Preservation of artifacts and born-digital media

Agenda

Presentation and discussion

Group project discussion

Advance Preparation

Read

Conway, P. (2010). Preservation in the age of Google: Digitization, digital preservation, and dilemmas. *Preservation*, 80(1).

Lee, K. H., Slattery, O., Lu, R., Tang, X., & McCrary, V. (2002). The state of the art and practice in digital preservation. *Journal of Research of the National Institute of Standards and Technology*, 107(1), January-February, 93-106.

URL: <http://www.nist.gov/jres>Lievrouw, L.A. (2000). 'Dead media' and the loss of electronic cultural heritage. ICA Newsletter, January, 12-13.

Rothenberg, J. (1999). Ensuring the longevity of digital information. (Prepared for RAND, expanded version of J. Rothenberg, "Ensuring the longevity of digital documents," *Scientific American*, 272(1), 24-29, 1995).

Explore

Independent Media Arts Preservation. Media Preservation 101. [Online]. [Link](#)

Watch

Cerf TEDx talk, "Bit Rot" [Link](#)

Manuel Castells video on *Cultures of the Internet* [Link](#)

Submit

Culture exercise due by 9am Tuesday, October 27

Week 6

M 11/2 | Self & Identity, Reputation, Sociality

“Facebook and Google are battling over who will be our gateway to the rest of the Internet through 'like' buttons and universal logins - giving them huge power over our online identities and activities.”
~ Rebecca MacKinnon

Objective: Explain the connections between Internet identities and the construction of the self.

Outcome: Describe how the Internet has changed the ways in which people engage with social groups.

Theme/Challenge: Identity, community, and social engagement

Agenda

Presentation and discussion

Personas exercise

Timeline nominations

Advance Preparation

Read

Bird, D. (2014). The presentation of self in social media: The self vs. 'selfies,' *liveyoungandfree.ca*.

[Link](#)

Blanchette, J. F., & Johnson, D. G. (1998). Data retention and the panoptic society: The social benefits of forgetfulness.

Draper, N. A. (2014). The new reputation custodians: Examining the industrialization of visibility in the reputation society. In L. Lievrouw (Ed.), *Challenging Communication Research*. New York, NY: Peter Lang.

Finkel, E. J., Eastwick, P. W., Karney, B. R., Reis, H. T., & Sprecher, S. (2012). Online dating: A critical analysis from the perspective of psychological science. *Psychological Science in the Public Interest*, 13(1), pp. 3-5. (Summary Only)

Marche, S. (2012). Is Facebook making us lonely? *The Atlantic*, May. [Link](#)

Mendoza, M (2014). Facebook adds new gender options. *The Huffington Post*. [Link](#)

Rushkoff, D. (2008). Social Currency. *Rushkoff.com*. [Link](#)

Small, G. W., Moody, T. D., Siddarth, P., & Bookheimer, S. Y. (2009). Your brain on Google: Patterns of cerebral activation during Internet searching. *The American Journal of Geriatric Psychiatry*, 17(2), pp. 116-126.

Ulaby, N. (2014) Sapiosexual Seeks Same: A New Lexicon Enters Online Dating Mainstream. *NPR.org*. [Link](#)

Explore

Watch

Turkle, S. (2013) *Alone together* [Video]. [Link](#)

Submit

Reflection essay for Week 6 readings due by 5pm Friday, October 30

W 11/4 | Privacy & Surveillance

“The director of the FBI has been visiting Silicon Valley companies asking them to build back doors so that it can spy on what is being said online. The Department of Commerce is going after piracy. At home, the American government wants anything but Internet freedom.” ~ Evgeny Morozov

“I am disturbed by how states abuse laws on Internet access. I am concerned that surveillance programmes are becoming too aggressive. I understand that national security and criminal activity may justify some exceptional and narrowly tailored use of surveillance. But that is all the more reason to safeguard human rights and fundamental freedoms.” ~ Ban Ki-moon

Objective: To instill a critical perspective regarding voluntary and involuntary collection and association of personal data

Outcome: Describe your thought process for evaluating the merits of sharing personal data

Theme/Challenge: Commercialization of personal data

Agenda

Presentation and discussion

Guest speaker?

Advance Preparation

Read

Angwin, Julia (2010). The Web’s new gold mine: Your secrets. *The Wall Street Journal*. [Link](#)

Boyd, D., & Crawford, K. (2011). Six provocations for big data. A Decade in Internet Time: Symposium on the Dynamics of the Internet and Society. *Social Sci. Res. Netw., New York*.

Clarke, Sunstein, et al. (2013). Protecting citizens, and their privacy. *New York Times*, December 19. [Link](#)

Crawford, K., & Schultz, J. (2014). Big Data and Due Process: Toward a Framework to Redress Predictive Privacy Harms (October 1, 2013). Boston College Law Review, Vol. 55, No. 93, 2014; NYU School of Law, Public Law Research Paper No. 13-64; NYU Law and Economics Research Paper No. 13-36. [Link](#)

Electronic Privacy Information Center (<http://epic.org>): *Facebook Privacy*

Kerr, O. S., (2013). The Next Generation Communications Privacy Act. 162 University of Pennsylvania Law Review 373 (2014). GWU Law School Public Law Research Paper No. 2013-80. [Link](#)

Lithwick, D. and Vladeck, S. (2013). Taking the “Meh” out of metadata. *Slate*. [Link](#)

Madden, M., Fox, S., and Smith, A. (2007, December 16). *Digital Footprints: Online Identity Management and Search in the Age of Transparency*. Report of the Pew Internet & American Life Project.

National Information Standards Organization (2004). *Understanding Metadata*. Bethesda, MD: NISO Press.

Nissenbaum, H. (1998). Protecting privacy in an information age: The problem of privacy in public. *Law and Philosophy*, 17(5-6), November, 559-596.

Palen, L., & Dourish, P. (2003). Unpacking ‘privacy’ for a networked world. *CHI 2003*, April 5-10, Ft. Lauderdale, FL. [Link](#)

Richards, N. M., & King, J. H. Big data and the future for privacy. [Link](#)

Sagiroglu, S., & Sinanc, D. (2013). Big data: A review. Collaboration Technologies and Systems (CTS), 2013 International Conference, pp. 42-47. IEEE.

Solove, D. (2011). Why privacy matters even if you have 'nothing to hide.' *The Chronicle of Higher Education*, May 15, 2011. [Link](#)

Explore

Watch

Submit

Privacy exercise due by 9am Tuesday, November 3

Week 7

M 11/9 | Social Change, Activism, Politics & Power, the State

“As you know, when Star Trek was canceled after the second season, it was the activism of the fans that revived it for a third season.” ~ George Takei

Objective: Facilitate an understanding of hacker culture

Outcome: Describe the characteristics and origin of hacker culture

Theme/Challenge: Hacktivism

Agenda

Presentation and discussion

Video

Timeline nominations

Advance Preparation

Read

Brown & Korff. (2008). Terrorism and the proportionality of Internet surveillance. [Link](#)

Castells, M. (2013). Power in the Network Society: “Networks”/“The Global Network Society”/“What Is Value In The Network Society?” In *Communication Power*, p. 19-29. Oxford: Oxford University Press.

Castells, M. (2013). The Network State. In *Communication Power*, pp. 38-42. Oxford: Oxford University Press.

Coleman, G. (2012) Our weirdness is free: The logic of Anonymous—online army, agent of chaos, and seeker of justice. *Triple Canopy*, p. 15. [Link](#)

Gladwell, M. (2010). Small change: Why the revolution will not be tweeted. *The New Yorker*. October 4. [Link](#)

How-to-geek: Hacker Hat colors explained. [Link](#)

Johnson, D. R., & Post, D. (1996). Law and borders. [Link](#)

Lievrouw, L. A. (2011). Getting people on the ‘street:’ Mediated mobilization. In *Alternative and Activist New Media*, pp. 149-176. Cambridge: Polity.

Mueller, M. L. (2010). Networks and States: The global politics of Internet Governance. MIT

Roosendaal, A. (2010). Facebook tracks and traces everyone: Like this! [Link](#)

Smith, A. and Rainie, L. (2008, June 15). *The Internet and the 2008 election*. Washington, D.C.: Pew Internet & American Life Project.

Explore

Watch

Gabriella Coleman, Molly Crabapple, and Astra Taylor on Anonymous. [Link](#)

Morozov, Evgeny. (2009, July). How the Net aids dictatorships. TED talk. [Link](#)

Rheingold, H. (2005). The new power of collaboration. TED2005. [Link](#)

Submit

Reflection essay on Week 7 readings due by 5pm Friday, November 6

W 11/11 | HOLIDAY

Week 8

M 11/16 | Gatekeeping, Trust, Misinformation, Overload

“The very idea of self-regulation by professional journalists no longer makes sense in an era of digital, global media. At best, self-regulation applies only to the diminishing domain of mainstream professional journalists.” ~ Stephen Ward

Objective: Delineate the elements of online credibility.

Outcome: Describe the challenges to online credibility.

Theme/Challenge: Relevance and credibility

Agenda

Presentation and discussion

Brainstorming a Code of Online Ethics

Timeline nominations

Advance Preparation

Read

Carr, N. (2008). Is Google making us stupid? *The Atlantic*, July/August. [Link](#)

Bawden, D., & Robinson, L. (2009). The dark side of information: overload, anxiety and other paradoxes and pathologies. *Journal of Information Science*, 35(2), 180-191.

Floridi, L. (1996). Brave.Net.World: The Internet as Disinformation Highway? (Version 3.0). *The Electronic Library*, 14(5), 509-514.

Metzger, M.J. (2007). Making sense of credibility on the Web: Models for evaluating online information and recommendations for future research. *Journal of the American Society for Information Science and Technology*, 58(13), 2078-2091.

Resnick, D. (1997, Winter). Politics on the Internet: The normalization of cyberspace. *New Political Science*, 41-42. [Link](#)

Sample, I. UK DNA shared in worldwide search for genetic causes of disease. *The Guardian*. [Online]. [Link](#)

Explore

University of Wisconsin’s Center for Journalism Ethics website [Link](#)

Watch

Pariser, E. (2011). Beware online filter bubbles. TED talk. [Link](#)

Zittrain, J. (2014). Brad Smith and Jonathan Zittrain on privacy, surveillance, and rebuilding trust in technology. Berkman Center. [Video]. [Link](#)

Vaidhyanathan, S. (2011). The Googlization of everything (and why we should worry). [Video]. [Link](#)

Submit

Reflection essay on Week 8 readings due by 5pm Friday, November 13

Part III. Policy, Regulation, Governance

W 11/18 | Digital Divides, Equity, Net Neutrality, DNS

“The idea that the Internet favors the oppressed rather than the oppressor is marred by what I call cyber-utopianism: a naive belief in the emancipatory nature of online communication that rests on a stubborn refusal to admit its downside.” ~ Evgeny Morozov

Objective: Review the key aspects of the net neutrality debate

Outcome: Articulate the points of contention in the net neutrality debate

Theme/Challenge: Perceptions and realities of Internet access and ownership

Agenda

Presentation and discussion

Digital divide exercise

Timeline nominations

Advance Preparation

Read

Burrell, J. (2012). Is the digital divide a defunct framework? *The Berkeley Blog*, October 18. [Link](#)

European Commission. (2015). Questions and Answers on the EU-US data protection “Umbrella agreement” [Link](#)

Frieden, Rob. (2008). A primer on network neutrality. *Intereconomics*, January/February.

Lievrouw, L. A., & Farb, S. E. (2002; cover date 2003). Information and equity. *Annual Review of Information Science and Technology (ARIST)*, 37, 499-540.

Pazzanese, C. (2014). So, who owns the Internet? *Harvard Gazette*, January 27. [Link](#)

Rice, R., & Pearce, K. (2013). Digital divides from access to activities: Comparing mobile and personal computer Internet users. *Journal of Communication*, 63(4), pp. 721–744. [Link](#)

Sandvig, C. (2007). Network neutrality is the new common carriage. *Info*, 9(2/3), 136-147.

Warschauer, M. (2002). Reconceptualizing the digital divide. *First Monday*, 7(7), July 1. [Link](#)

Wu, Tim. (2006). Why you should care about network neutrality. *Slate*, May 1. [Link](#)

Yoo, C. S. (2015). An open Internet: How new regulations hurt both sides of the debate. *Fortune* [Online]. [Link](#)

Explore

Honan, M. (2015). Now the Internet belongs to us—and to politics. BuzzFeed, February 26. [Link](#)

Watch

Submit

Digital divide exercise due by 9am Tuesday, November 17

Week 9

M 11/23 | Intellectual Property (copyright, patent, DMCA, DRM)

"I personally think intellectual property is an oxymoron. Physical objects have a completely different natural economy than intellectual goods. It's a tricky thing to try to own something that remains in your possession even after you give it to many others." ~ John Perry Barlow

Objective: Present an overview of trends in the five areas of intellectual property

Outcome: Describe how the notion of intellectual property has evolved in the new media context

Theme/Challenge: Erosion of protections

Agenda

Presentation and discussion

Advance Preparation

Read

Cohen, J. E. (2003). DRM and Privacy. *Berkeley Technological Law Journal*, 18, p. 575-617;

Georgetown Public Law Research Paper No. 372741. [Link](#)

Croxson, Karen (2007). Promotional piracy. *Oxonomics*, 2, 13-15. DOI: 10.1111/j.1752-5209.2007.0012.x [Link](#)

Duhigg, C., & Lohr, S. (2012). The patent, used as sword. *The New York Times* [Online]. [Link](#)

Economist, August 8, 2015. A question of utility. *Economist* [Online]. [Link](#)

Elkin-Koren, N. (2015). Copyright in a digital ecosystem: A user-rights approach. In R. Okediji (Ed.), *Copyright In An Age Of Limitations And Exceptions*. [Link](#)

Fisher, W.W. III (1999). The growth of intellectual property: A history of the ownership of ideas in the United States. In Vandenhoeck & Ruprecht (Eds.), *Eigentumskulturen im Vergleich*.

Litman, Jessica. (2006). Chapter 12: Revising copyright law for the information age. From *Digital Copyright*, pp. 171-191. Prometheus Books.

Explore

Watch

Steal this Film II [\[Video\]](#)

Submit

Reflection essay for Week 9 readings due by 5pm Friday, November 20

W 11/25 | Intellectual Freedom, Autonomy

"Without moral and intellectual independence, there is no anchor for national independence." ~ David Ben-Gurion 1948

Objective: Present an overview of constraints to intellectual freedom

Outcome: Describe how technological innovations have contributed and/or threatened intellectual freedom

Theme/Challenge: Tradeoffs between security and freedom

Agenda

Video: *United States of Secrets*

Presentation and discussion

- Patriot Act
- Right to be forgotten
- Regulating surveillance
- Privacy rights

Advance Preparation

Read

Bamberger, K. A., & Mulligan, D. K. (2015). *Catalyzing privacy: Lessons from regulatory choices and corporate decisions on both sides of the Atlantic*. MIT Press.

Clarke, et al. (2013). Liberty and security in a changing world.

Cohen, J. E., (1996). A right to read anonymously: A closer look at 'copyright management' in cyberspace. *Conn. L. Rev* 28(981). [Link](#)

Cunningham, M. (2014). Next generation privacy: The Internet of Things, data exhaust, and reforming regulation by risk of harm. *Groningen Journal of International Law*, 2(2). [Link](#)

Rosen, J. (2013). Metadata material shouldn't be held by the government. *New Republic* [Online]. [Link](#)

Explore

Watch

EPIC 2015 [Link](#)

Submit

Election exercise due by 9am Tuesday, November 24

Week 10

M 11/30 | Security, cyber attacks, netwar, cyber conflicts

“Cyber terrorism could also become more attractive as the real and virtual worlds become more closely coupled, with automobiles, appliances, and other devices attached to the Internet.” ~ Dorothy Denning

Objective: Present an overview of the challenges associated with cyber aggression and security.

Outcome: Describe the main threats to Internet security in the next decade.

Theme/Challenge: Nefarious Internet use

Agenda

Presentation & discussion

Timeline Q&A

Advance Preparation

Read

Arquilla, J., & Ronfeldt, D. (2000). *Swarming and the Future of Conflict*. Santa Monica, CA: RAND, 2000.

Brenner, S. (2102). *Cybercrime and the law: Challenges, issues, and outcomes*

Jaap Koops, B. (2010). *The Internet and its opportunities for cybercrime*

Nissenbaum, H. (2004). Hackers and the contested ontology of cyberspace. *New Media & Society*, 6(2), 195-217.

Roman, R., Najera, P., & Lopez, J. (2011). Securing the Internet of Things. *IEEE Computer*, 44(9), 51-58.

Shakarian, J., Shakarian, P., & Ruef, A. (2015). Cyber attacks and public embarrassment: A survey of some notable hacks. Excerpt from *Introduction to Cyber-Warfare: A Multidisciplinary Approach*. [Link](#)
How-to-geek: Hacker Hat colors explained. [Link](#)

Explore

Berkman Center for Internet & Society, Harvard Law School (2007), “Pop Culture to Democracy”_U.S. Air Force, Cyberspace and Information Operations Study Center. *Information Warfare* (background resources). Updated July 2010.

Watch

Reuters. (2015). Car wars: Hackers hit the road. [Link](#)

Weimann, G. (2014). Terrorism in Cyberspace: The Next Generation. [Video]. [Link](#)

Submit

Reflection essay on Week 10 readings due by 5pm Friday, November 27

W 12/2 | Visions of the Future Group Timeline Project Session

“The easier and more risk-averse path is to distribute mobile phones and other basic Net appliances to the developing world just as those devices are becoming more central in the developed one, bridging the digital divide in one sense—providing useful technology—while leaving out the generative elements most important to the digital space’s success: the integration of people as participants in it rather than only consumers of it.” ~ Jonathan Zittrain

Objective: Provide an opportunity for groups to finalize their timelines and practice presenting
Outcome: Complete timeline project and practice presentation
Theme/Challenge: Contextualizing the Internet to imagine its future

Agenda

Groups to collaborate on their timeline submissions

Advance Preparation

Read

Anderson, J. & Rainie, L. (2014). 15 theses about the digital future. Pew Research Center. [Link](#)

Anderson, J., & Rainie, L. (2014). Digital life in 2025. Pew Research Center. [Link](#)

Balkin, J. M. (2009). The future of free expression in a digital age [Link](#)

Lievrouw, L. (2011). The next decade in Internet time: Ways ahead for new media studies. [Link](#)

Zittrain, J. The Future of the Internet and How to Stop It.

Explore

The Internet Society. (2010). What will the Internet look like in 10 years? [Link](#)

Watch

MIT Communications Forum. (2008). Our world digitized: The good, the bad, the ugly. [Video]. [Link](#)

Submit

Final group timeline by 5pm Friday, December 4

Exam Week

M 12/7 | **No Class**

W 12/9 | **Group Timeline Presentations and Discussion**