

# ISF 100J: The Social Life of Computing

Fall 2017

University of California, Berkeley

TuTh: 2.00 – 3.30 pm

Room: 145 Moffitt

Lecturer: Shreeharsh Kelkar

Interdisciplinary Studies Field Major

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Room: 269 Evans Hall

Office Hours: Wednesdays, 1-4 pm (or email for appointment; if my door is open, just knock and walk in)

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## Course Description and Learning Objectives:

This course introduces students to the technical, social, business, and political entanglements of computing from its late 19th century origins to the 21st century software industry. Topics covered include the intersections of computing with: calculation, capitalism, intelligence, gender, cybernetics, government, communication, participation, expression, mediation, workplaces, the internet, virtual communities, social media, and others. In this class, we will look at computing as a “social” phenomenon: to see it not just as a technology that transforms but to see it as a technology that has evolved, and is being put to use, in very particular ways, by particular groups of people. We will pay attention to technical details of computing but ground these technical details in social organization (a term whose meaning should become clearer and clearer as the class progresses). We will study the social organization of computing around different kinds of hardware, software, ideologies, and ideas. We will concentrate on the United States, but students are encouraged to take up more international topics.

**Inspired by Stefan Helmreich’s Cultures of Computing class at MIT.**

**See: <https://ocw.mit.edu/courses/anthropology/21a-350j-cultures-of-computing-fall-2011/index.htm> (Links to an external site.)Links to an external site.**

## Grade Determination:

There are no exams in this class; instead, you will be expected to do three small essays (1000-1500 words); thoughtful, responses to the assigned readings on the forums (300-500 words), and a presentation of at least one reading in class. The grade breakdown is as follows:

Attendance and class participation: 15 pts (This includes coming to class and participating in the group activities.)

Forum posts and class presentation (including presentations): 50 pts

Paper 1 (10 pts), Paper 2 (10 pts) and Paper 3 (15 pts)

**Total: 100 pts**

The grading scheme for the class is as follows:

Range and Grade
$90 \leq A \leq 100$
$80 \leq A < 90$
$70 \leq B+ < 80$
$60 \leq B < 70$
$50 \leq B- < 60$
$45 \leq C+ < 50$
$40 \leq C < 45$
$35 \leq C- < 40$
$0 \leq F < 35$

### **Laptop Policy:**

**No laptops, tablets, or cell phones will be allowed during class unless I give you explicit instructions to use them.** It might seem strange to ban computers in class given that this is a class about computing. But I have found that when computers are allowed, students, despite their best efforts, still end up surfing the web rather than paying attention. So consider this a dollop of paternalism on my part. There is a wide literature that shows that overall, students are distracted from the topic at hand because of their laptops and phones, and that students are often distracted by the laptops of other people. For those of you that prefer to take your notes on your laptops, there's some research that shows that taking hand-written notes forces you to synthesize your points, thereby creating better notes.

### **Class Plan**

The class material is organized by keywords/concepts. Some of the important keywords/concepts are: work, labor, expertise, information, capitalism, and gender. This does not mean that the readings are exclusively about that concept; rather, you are encouraged to ask as you read: what is this reading about? How is this reading about [concept]?

The readings are organized chronologically; we start with the nineteenth century and then move through time. Sometimes however, I have juxtaposed more “modern” readings to make the connection to computing more clear.

W	Date	Concept or Keyword	Readings, Assignment and Class Lecture
1	22 Aug	No Class	
	24 Aug	Introduction to the social life of computing	No readings.
2	29 Aug	Calculation	<p>Daston, Lorraine. 1994. “Enlightenment Calculations.” <i>Critical Inquiry</i> 21(1): 182–202.</p> <p>Gray, Mary and Siddharth Suri. 2017. The Humans Working Behind the AI Curtain. <i>Harvard Business Review</i>.  <a href="https://hbr.org/2017/01/the-humans-working-behind-the-ai-curtain">https://hbr.org/2017/01/the-humans-working-behind-the-ai-curtain</a></p> <p>Forum Question: Outline at least two (more if you can think of them) differences between the humans who worked behind the scenes to build Prony’s mathematical tables with the humans who work behind the scenes of today’s artificial intelligence (AI). What is the significance of these differences? (300-500 words)</p>
	31 Aug	No Class	
3	5 Sep	Intelligence I	<p>Schafer, Simon. 1994. Babbage’s Intelligence: Calculating Machines and the Factory System. <i>Critical Inquiry</i> 21(1).</p> <p>Turing, Alan M. "Computing machinery and intelligence." <i>Mind</i> 59.236 (1950): 433-460.</p> <p>Optional (Primary Sources):            Babbage, Charles. 1864. Difference Engine No. 1 and Of the Analytical Engine. In <i>Charles Babbage: On the Principles and Development of the Calculator and Other Seminal Writings</i> by</p>

			<p><i>Charles Babbage and Others</i>. Philip and Emily Morrison, eds. Dover, 1961, 33-72.</p> <p>Babbage, Charles. 1838. Chapter II: Argument in Favour of Design from the Changing of Laws in Natural Events. In <i>The Ninth Bridgewater Treatise</i>. Available here: <a href="http://www.victorianweb.org/science/science_texts/bridgewater/b2.htm">http://www.victorianweb.org/science/science_texts/bridgewater/b2.htm</a></p> <p>Forum Question: Charles Babbage and Alan Turing wrote about “intelligence” through the lens of machines, in two very widely different times, separated by roughly a century. Drawing on the argument made by Simon Schaffer about Babbage, outline at least three differences (or similarities) in the way that Babbage and Turing conceived “intelligence.” Make sure you support your argument with relevant quotes from the readings. For each difference (or similarity), explain why this might be so. (300-500 words). If you like, feel free to browse some of the Babbage’s original works in the optional readings.</p>
	7 Sep	Data I	<p>Hacking, Ian. "Biopower and the Avalanche of Printed Numbers." In <i>Biopower: Foucault and Beyond</i> (2015).</p> <p>Scott, James. 1998. "Introduction." In <i>Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed</i>. Yale University Press. pp1-3.</p> <p>Cukier, Kenneth, and Viktor Mayer-Schoenberger. "The rise of big data: How it's changing the way we think about the world." <i>Foreign Affairs</i>. 92 (2013): 28.</p> <p>Forum Question: Ian Hacking and Cukier et al can both be understood as talking about the rise of a certain kind of data in the 1800s and today respectively. List and describe at least three differences in the “big data” of the 1800s versus today (e.g. the kind of data, how it was produced, who owned it, the uses it was put to, etc.). For each difference, explain why you think it might be so. Remember to ground your answer in the readings themselves. (300-500 words)</p>
4	12 Sep	Bureaucracy	<p>Yates, Joanne. 1989. Managerial Methods and the Function of Internal Communication. In <i>Control Through Communication: The Rise of System in American Management</i>. Johns Hopkins</p>

			<p>University Press. pp1-20.</p> <p>McAfee, Andrew and Erik Brynjolfsson. 2012. Big Data: The Management Revolution. <i>Harvard Business Review</i>.  <a href="https://hbr.org/2012/10/big-data-the-management-revolution">https://hbr.org/2012/10/big-data-the-management-revolution</a>.</p> <p>Other keywords: control, governance, standardization, knowledge, capitalism</p> <p>Forum Question: Joanne Yates describes the rise of a systems philosophy of management in the late 19th century. Writing in 2012, Andrew McAfee and Erik Brynjolfsson propose a philosophy of management in the age of big data. Suggest three ways in which the latter is similar or dissimilar to the former. Or to put it differently, do the managers of systematic management look different from the proposed managers in an age of big data? For example, you could focus on the following aspects: what kind of expertise of managers is emphasized? What characteristics of the organization get highlighted? What kinds of organizational communication is emphasized? Feel free to bring in other points that strike you. Make sure your answer is supported by the readings. (500 words).</p>
	14 Sep	Control	<p>Beniger, James. 1986. Revolution in Control of Mass Production and Distribution. In <i>The Control Revolution: Technological and Economic Origins of the Information Society</i>. Harvard University Press. 291-344.</p> <p>Eisen, Michael. 2011. Amazon's \$23,698,655.93 book about flies. <i>it is NOT junk blog</i>.  <a href="http://www.michaeleisen.org/blog/?p=358">http://www.michaeleisen.org/blog/?p=358</a></p> <p>Del Rey, Jason. 2017. Amazon and Walmart are in an all-out price war that is terrifying America's biggest brands. <i>Recode</i>.  <a href="https://www.recode.net/2017/3/30/14831602/amazon-walmart-cpg-grocery-price-war">https://www.recode.net/2017/3/30/14831602/amazon-walmart-cpg-grocery-price-war</a></p> <p>Mims, Christopher. 2017. The High-Speed Trading Behind Your Amazon Purchase. <i>The Wall Street Journal</i>.  <a href="https://www.wsj.com/articles/the-high-speed-trading-behind-your-amazon-purchase-1490532110">https://www.wsj.com/articles/the-high-speed-trading-behind-your-amazon-purchase-1490532110</a></p>
5	19 Sep	Software (and Hardware)	<p>Campbell-Kelly, Martin, William Aspray, Nathan Ensmenger, and Jeffrey Yost. Inventing the Computer. In <i>Computer: A</i></p>

			<p>History of the Information Machine. Westview Press. pp65-86.</p> <p>Haigh, Thomas. "Actually, Turing did not invent the Computer." <i>Communications of the ACM</i> 57.1 (2014): 36-41.</p> <p>Other keywords: expertise, innovation, patronage, abstraction</p>
	21 Sep	Information	<p>Haigh, Thomas. "Inventing Information Systems: The Systems Men and the Computer, 1950–1968." <i>Business History Review</i> 75.1 (2001): 15-61.</p> <p>Wiener, Norbert. "Cybernetics." <i>Scientific American</i> 179.5 (1948): 14-19.</p> <p>Morozov, Evgeny. 2014. <i>The Planning Machine: Project Cybersyn and the Origins of the Big Data Nation</i>. The New Yorker.  <a href="http://www.newyorker.com/magazine/2014/10/13/planning-machine">http://www.newyorker.com/magazine/2014/10/13/planning-machine</a></p> <p>Optional:  Weaver, Warren. 1949. <i>The Mathematics of Communication</i>. <i>Scientific American</i> 181.5: 11-15.</p> <p><b>Paper 1 due.</b></p>
6	26 Sep	Gender	<p>Poster, Winifred. 2013. <i>Global Circuits of Gender: Women and High-Tech Work in India and the U.S.</i> <i>Gender, Sexuality, &amp; Feminism</i>, Premiere Issue, May, 1(1):37-52.</p> <p>Hicks, Marie. 2016. <i>Against Meritocracy in the History of Computing</i>. <i>CORE: The Magazine of the Computer History Museum</i>. pp29-33</p> <p>Mundy, Liza. 2017. <i>Why is Silicon Valley so awful to Women?</i> <i>The Atlantic Monthly</i>  <a href="https://www.theatlantic.com/magazine/archive/2017/04/why-is-silicon-valley-so-awful-to-women/517788">https://www.theatlantic.com/magazine/archive/2017/04/why-is-silicon-valley-so-awful-to-women/517788</a></p> <p>Optional:</p>

			<p>Damore, James. 2017. The Google Memo. <a href="https://assets.documentcloud.org/documents/3914586/Googles-Ideological-Echo-Chamber.pdf">https://assets.documentcloud.org/documents/3914586/Googles-Ideological-Echo-Chamber.pdf</a></p> <p>Posner, Miriam. 2017. We can teach women to code, but that just creates another problem. The Guardian. <a href="https://www.theguardian.com/technology/2017/mar/14/tech-women-code-workshops-developer-jobs">https://www.theguardian.com/technology/2017/mar/14/tech-women-code-workshops-developer-jobs</a></p>
	28 Sep	Intelligence II	<p>Forsythe, Diana E. "The Construction of Work in Artificial Intelligence." <i>Science, Technology, &amp; Human Values</i> 18.4 (1993): 460-479.</p> <p>Kelkar, Shreeharsh. 2014. What's the Matter with Artificial Intelligence? Platypus Blog. <a href="http://blog.castac.org/2014/02/whats-the-matter-with-artificial-intelligence/">http://blog.castac.org/2014/02/whats-the-matter-with-artificial-intelligence/</a></p> <p>Ross, Casey and Ike, Swetlitz. 2017. IBM pitched its Watson supercomputer as a revolution in cancer care. It's nowhere close. <i>Stat</i>. <a href="https://www.statnews.com/2017/09/05/watson-ibm-cancer/">https://www.statnews.com/2017/09/05/watson-ibm-cancer/</a></p>
7	3 Oct	Interface/ "the user"	<p>Stephenson, Neal. In the beginning... was the command line. New York: Avon books, 1999. pp1-29. <a href="http://studiowhitney.gearnine.com/temp/command.pdf">http://studiowhitney.gearnine.com/temp/command.pdf</a> [read only until the end of section 8]</p> <p>Bardini, Thierry, and August T. Horvath. "The social construction of the personal computer user." <i>Journal of communication</i> 45.3 (1995): 40-66.</p> <p>Optional: Grudin, Jonathan. "The computer reaches out: the historical continuity of interface design." <i>Proceedings of the SIGCHI conference on Human factors in computing systems</i>. ACM, 1990. [Read as a reference to get an idea of the evolution of the computer interface.]</p>
	5 Oct	"The user"/ standardization	<p>Abbate, Janet. 1999. "The Most Neglected Element": Users Transform the ARPANET. In <i>Inventing the Internet</i>. MIT Press. pp83-113.</p>

			<p>Russell, Andrew. 2013. OSI: The Internet that Wasn't. IEEE Spectrum Magazine.  <a href="http://spectrum.ieee.org/computing/networks/osi-the-internet-that-wasnt">http://spectrum.ieee.org/computing/networks/osi-the-internet-that-wasnt</a></p> <p>Peters, Ben. 2016. The Soviet InterNyet. Aeon.  <a href="https://aeon.co/essays/how-the-soviets-invented-the-internet-and-why-it-didn-t-work">https://aeon.co/essays/how-the-soviets-invented-the-internet-and-why-it-didn-t-work</a></p> <p>Other keywords: users, standardization, innovation, patronage.</p> <p><b>Plan of Paper 3 due.</b></p>
8	10 Oct	Politics I (Freedom)	<p>Turner, Fred. 2005. Where the counterculture met the new economy: The WELL and the origins of virtual community. <i>Technology and Culture</i> 46 (3), 485-512.</p> <p>Ferenstein, Greg. 2015. The unusual politics of Silicon Valley, explained. Vox.  <a href="https://www.vox.com/2015/9/29/9411117/silicon-valley-politics-charts">https://www.vox.com/2015/9/29/9411117/silicon-valley-politics-charts</a></p> <p>Stempeck, Matt. 2015. Uber pushes corporate activism in the digital age to the next level. <i>Civicist</i>.  <a href="https://civichall.org/civicist/uber-pushes-corporate-activism-in-the-digital-age-to-the-next-level/">https://civichall.org/civicist/uber-pushes-corporate-activism-in-the-digital-age-to-the-next-level/</a></p> <p>Other keywords: ethics, citizenship, capitalism, ideology</p>
	12 Oct	Politics II (Openness)	<p>Kelty, Chris. 2008. Sharing Source Code. From <i>Two Bits: The Cultural Significance of Free Software</i>. pp118-131</p> <p>Coleman, Gabriella. 2013. Two Ethical Moments in Debian. In <i>Coding Freedom: The Ethics and Aesthetics of Hacking</i>. Princeton University Press. pp123-161.</p> <p>Optional:</p> <p>Coleman, Gabriella. 2016. Hacker. In <i>Digital Keywords: A Vocabulary of Information Society and Culture</i>. pp158-172.</p>
9	17 Oct	Capitalism	<p>Gehl, Robert W. "The archive and the processor: The internal logic of Web 2.0." <i>New media &amp; society</i> 13.8 (2011): 1228-1244.</p> <p>Kelty, Christopher. "There is no free software." <i>Journal of Peer</i></p>



			<p><i>Production 3</i> (2013). <a href="http://peerproduction.net/issues/issue-3-free-software-epistemics/debate/there-is-no-free-software/">http://peerproduction.net/issues/issue-3-free-software-epistemics/debate/there-is-no-free-software/</a></p> <p>Sandvig, Christian. 2014. Corrupt Personalization. Social Media Collective Research Blog. <a href="https://socialmediacollective.org/2014/06/26/corrupt-personalization/">https://socialmediacollective.org/2014/06/26/corrupt-personalization/</a></p> <p>Optional readings:</p> <p>Frier, Sarah. 2016. Inside Facebook’s Decision to Blow Up the Like Button. Bloomberg Business. <a href="https://www.bloomberg.com/features/2016-facebook-reactions-chris-cox">https://www.bloomberg.com/features/2016-facebook-reactions-chris-cox</a></p> <p>Hoffman, Anna Lauren. 2016. Facebook is worried about users sharing less – but it only has itself to blame. The Guardian. <a href="https://www.theguardian.com/technology/2016/apr/19/facebook-users-sharing-less-personal-data-zuckerberg">https://www.theguardian.com/technology/2016/apr/19/facebook-users-sharing-less-personal-data-zuckerberg</a></p>
19 Oct	Sharing		<p>John, Nicholas A. "The social logics of sharing." <i>The Communication Review</i> 16.3 (2013): 113-131.</p> <p>Zittrain, Jonathan. 2009. Minds for Sale. YouTube.com <a href="https://www.youtube.com/watch?v=Dw3h-rae3uo">https://www.youtube.com/watch?v=Dw3h-rae3uo</a> (Links to an external site.)Links to an external site. [You can skip the Q&amp;A but there's some interesting stuff in there too.]</p> <p>Slee, Tom. 2016. The Sharing Economy's Dirty Laundry. Jacobin. <a href="https://www.jacobinmag.com/2016/03/uber-airbnb-sharing-economy-housing-tech/">https://www.jacobinmag.com/2016/03/uber-airbnb-sharing-economy-housing-tech/</a> (Links to an external site.)Links to an external site.</p> <p>I suggest starting from Zittrain, who's a great public speaker, and then reading John and Slee.</p> <p>Optional readings:</p> <p>Schor, Juliet and William Attwood-Charles. 2015. Platform Providers in the “Sharing” Economy. Work in Progress Blog. <a href="https://workinprogress.oowsection.org/2015/07/28/platform-providers-in-the-sharing-economy/">https://workinprogress.oowsection.org/2015/07/28/platform-providers-in-the-sharing-economy/</a> (Links to an external site.)</p>

			<a href="#">site.)</a>
10	24 Oct	Mediation I (Platform)	<p>Gillespie, Tarleton. 2017. The platform metaphor, revisited. Culture, Digitally. <a href="http://culturedigitally.org/2017/08/platform-metaphor/">http://culturedigitally.org/2017/08/platform-metaphor/</a></p> <p>Buni, Catherine and Soraya Chemaly. 2016. The Secret Rules of the Internet: The murky history of moderation, and how it's shaping the future of free speech. The Verge. <a href="https://www.theverge.com/2016/4/13/11387934/internet-moderator-history-youtube-facebook-reddit-censorship-free-speech">https://www.theverge.com/2016/4/13/11387934/internet-moderator-history-youtube-facebook-reddit-censorship-free-speech</a></p> <p>Gillespie, Tarleton. 2016. Algorithms, click-workers, and the buffuddled fury around Facebook Trends. Culture, Digitally. <a href="http://culturedigitally.org/2016/05/facebook-trends/">http://culturedigitally.org/2016/05/facebook-trends/</a></p> <p>Roth, Dan. 2009. The Answer Factory: Demand Media and the Fast, Disposable, and Profitable as Hell Media Model. Wired Magazine. <a href="https://www.wired.com/2009/10/ff_demandmedia/all/1/#">https://www.wired.com/2009/10/ff_demandmedia/all/1/#</a></p> <p>Marshall, Josh. 2017. A Serf on Google's Farm. Talking Points Memo. <a href="http://talkingpointsmemo.com/edblog/a-serf-on-googles-farm">http://talkingpointsmemo.com/edblog/a-serf-on-googles-farm</a></p> <p>Zax, David. 2017. The war to sell you a mattress is an internet nightmare. Fast Company. <a href="https://www.fastcompany.com/3065928/sleepopolis-casper-bloggers-lawsuits-underside-of-the-mattress-wars">https://www.fastcompany.com/3065928/sleepopolis-casper-bloggers-lawsuits-underside-of-the-mattress-wars</a></p> <p>Dewey, Caitlin. 2016. One in four debate tweets comes from a bot. Here's how to spot them. The Washington Post. <a href="https://www.washingtonpost.com/news/the-intersect/wp/2016/10/19/one-in-four-debate-tweets-comes-from-a-bot-heres-how-to-spot-them/?utm_term=.7224b1693940&amp;wpisrc=nl_intersect&amp;wpm=1">https://www.washingtonpost.com/news/the-intersect/wp/2016/10/19/one-in-four-debate-tweets-comes-from-a-bot-heres-how-to-spot-them/?utm_term=.7224b1693940&amp;wpisrc=nl_intersect&amp;wpm=1</a></p> <p>Optional:</p> <p>Chen, Adrian. 2014. The Laborers Who Keep Dick Pics and Beheadings out of your Facebook Feed.</p>

			<p>Wired. <a href="https://www.wired.com/2014/10/content-moderation/">https://www.wired.com/2014/10/content-moderation/</a></p> <p>Hopkins, Nick. 2017. Revealed: Facebook's internal rulebook on sex, terrorism and violence. The Guardian. <a href="https://www.theguardian.com/news/2017/may/21/revealed-facebook-internal-rulebook-sex-terrorism-violence?CMP=share_btn_tw">https://www.theguardian.com/news/2017/may/21/revealed-facebook-internal-rulebook-sex-terrorism-violence?CMP=share_btn_tw</a></p> <p>Roberts, Sarah. 2017. Social Media's Silent Filter. The Atlantic Monthly. <a href="https://www.theatlantic.com/technology/archive/2017/03/commercial-content-moderation/518796/">https://www.theatlantic.com/technology/archive/2017/03/commercial-content-moderation/518796/</a></p> <p>Katz, Rita. 2017. How Terrorists Slip Beheading Videos Past YouTube's Censors. Motherboard. <a href="https://motherboard.vice.com/en_us/article/xyepmw/how-terrorists-slip-beheading-videos-past-youtubes-censors">https://motherboard.vice.com/en_us/article/xyepmw/how-terrorists-slip-beheading-videos-past-youtubes-censors</a></p> <p>Gardiner, Becky, Mahana Mansfield, Ian Anderson, Josh Holder, Daan Louter and Monica Ulmanu. 2016. The dark side of Guardian comments. <a href="https://www.theguardian.com/technology/2016/apr/12/the-dark-side-of-guardian-comments">https://www.theguardian.com/technology/2016/apr/12/the-dark-side-of-guardian-comments</a></p>
26 Oct	Algorithms I (Intelligence III)		<p>Gillespie, Tarleton. 2014. The Relevance of Algorithms. In <i>Media Technologies: Essays on Communication, Materiality, and Society</i>. <a href="http://www.tarletongillespie.org/essays/Gillespie%20-%20The%20Relevance%20of%20Algorithms.pdf">http://www.tarletongillespie.org/essays/Gillespie%20-%20The%20Relevance%20of%20Algorithms.pdf</a></p> <p>Sullivan Danny. 2017. A deep look at Google's biggest-ever search quality crisis. Search Engine Land. <a href="http://searchengineland.com/google-search-quality-crisis-272174">http://searchengineland.com/google-search-quality-crisis-272174</a></p> <p>Angwin, Julia, Jeff Larson, Surya Mattu and Lauren Kirchner. 2016. Machine Bias. ProPublica. <a href="https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing">https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing</a></p> <p>Corbett-Davies, Sam, Emma Pierson, Avi Feller and Sharad Goel. 2016. A computer program used for bail and sentencing</p>

			<p>decisions was labeled biased against blacks. It's actually not that clear. The Monkey Cage Blog. <a href="https://www.washingtonpost.com/news/monkey-cage/wp/2016/10/17/can-an-algorithm-be-racist-our-analysis-is-more-cautious-than-propublicas/?utm_term=.0be6846e7eaa">https://www.washingtonpost.com/news/monkey-cage/wp/2016/10/17/can-an-algorithm-be-racist-our-analysis-is-more-cautious-than-propublicas/?utm_term=.0be6846e7eaa</a></p> <p><b>Paper 2 due.</b></p>
11	31 Oct	Work I (Algorithms II)	<p>Christin, Angele. 2017. Algorithms in practice: Comparing web journalism and criminal justice. Big Data and Society. Available online: <a href="http://journals.sagepub.com/doi/pdf/10.1177/2053951717718855">http://journals.sagepub.com/doi/pdf/10.1177/2053951717718855</a></p> <p>Maiers, Claire. 2017. Predictive data and experiential knowledge in the neonatal intensive care unit. Work in Progress Blog. <a href="https://workingprogress.oowsection.org/2017/07/06/predictive-data-and-experiential-knowledge-in-the-neonatal-intensive-care-unit/">https://workingprogress.oowsection.org/2017/07/06/predictive-data-and-experiential-knowledge-in-the-neonatal-intensive-care-unit/</a></p> <p>McFarland, Matt. 2017. A rare look inside the LAPD's use of data. CNN Tech. <a href="http://money.cnn.com/2017/09/11/technology/future/lapd-big-data-palantir/index.html">http://money.cnn.com/2017/09/11/technology/future/lapd-big-data-palantir/index.html</a></p> <p>Optional: Brayne, Sarah. "Big Data Surveillance: The Case of Policing." <i>American Sociological Review</i> 82.5 (2017): 977-1008.</p> <p>Bowman, Douglas. 2009. Goodbye, Google. Stopdesign. <a href="http://stopdesign.com/archive/2009/03/20/goodbye-google.html">http://stopdesign.com/archive/2009/03/20/goodbye-google.html</a></p> <p>Other keywords: labor, expertise, automation, algorithms, fairness</p>
	2 Nov	Participation	<p>Kelty Christopher. 2012. From Participation to Power. In the Participatory Cultures Handbook. Routledge.</p> <p>Halfaker, Aaron., R. Stuart Geiger, Jonathan Morgan, and John Riedl. (2013). "The Rise and Decline of an Open Collaboration System: How Wikipedia's reaction to sudden popularity is killing it." <i>American Behavioral Scientist</i> 57(5).</p>

12	7 Nov	Work II (Automation)	<p>Zuboff, Shoshanna. 1988. The Abstraction of Industrial Work. In In the Age of the Smart Machine: The Future of Work and Power. Basic Books. pp58-96.</p> <p>Irani, Lilly. "Justice for 'Data Janitors'." Public Culture 15 (2015). <a href="http://www.publicbooks.org/justice-for-data-janitors/">http://www.publicbooks.org/justice-for-data-janitors/</a></p> <p>Shestakofsky, Ben. 2015. High-Tech Hand Work: When humans replace computers, what does it mean for jobs and for technological change? Platypus Blog. <a href="http://blog.castac.org/2015/07/high-tech-handwork/">http://blog.castac.org/2015/07/high-tech-handwork/</a></p> <p>Chafkin, Max and Josh Eidelson. 2017. These Truckers Work Alongside the Coders Trying to Eliminate Their Jobs. Bloomberg BusinessWeek. <a href="https://www.bloomberg.com/news/features/2017-06-22/these-truckers-work-alongside-the-coders-trying-to-eliminate-their-jobs">https://www.bloomberg.com/news/features/2017-06-22/these-truckers-work-alongside-the-coders-trying-to-eliminate-their-jobs</a></p> <p>Kitroeff, Natalie. 2017. Where Internet Orders Mean Real Jobs, and New Life for Communities. The New York Times. <a href="https://www.nytimes.com/2017/10/22/business/economy/warehouse-jobs.html">https://www.nytimes.com/2017/10/22/business/economy/warehouse-jobs.html</a> (Links to an external site.)</p> <p>Optional: Kelkar, Shreeharsh. 2017. How (not) to talk about AI. Platypus Blog. <a href="http://blog.castac.org/2017/04/how-not-to-talk-about-ai/">http://blog.castac.org/2017/04/how-not-to-talk-about-ai/</a></p>
	9 Nov	Data II	<p>Driscoll, Kevin. 2012. "From punched cards to 'big data': A social history of database populism," communication +1 1. <a href="http://scholarworks.umass.edu/cpo/vol1/iss1/4/">http://scholarworks.umass.edu/cpo/vol1/iss1/4/</a></p> <p>Harford, Tim. 2014. Big Data: Are we making a mistake? Financial Times. <a href="https://www.ft.com/content/21a6e7d8-b479-11e3-a09a-00144feabdc0">https://www.ft.com/content/21a6e7d8-b479-11e3-a09a-00144feabdc0</a></p> <p>Christian, Brian. The A/B Test: Inside the technology that's changing the rules of the business. Wired Magazine. <a href="https://www.wired.com/2012/04/ff_abtesting/">https://www.wired.com/2012/04/ff_abtesting/</a></p> <p>Avirgan, Jody. 2016. Podcast with Daniel Kreiss: A History of Data in American Politics. Five Thirty Eight. Part 1</p>

			<p><a href="http://fivethirtyeight.com/features/a-history-of-data-in-american-politics-part-1-william-jennings-bryan-to-barack-obama/">http://fivethirtyeight.com/features/a-history-of-data-in-american-politics-part-1-william-jennings-bryan-to-barack-obama/</a>, and Part 2 <a href="http://fivethirtyeight.com/features/a-history-of-data-in-american-politics-part-2-obama-2008-to-the-present/">http://fivethirtyeight.com/features/a-history-of-data-in-american-politics-part-2-obama-2008-to-the-present/</a>. [The links summarize the podcast but you can also listen to it, if you like.]</p> <p>McLaughlin, Daniel, Kate Stohr, Ross Goodwin, and Sam Lavigne. 2016. How presidential campaigns are building the perfect website. Splinter. <a href="http://splinternews.com/how-presidential-campaigns-are-building-the-perfect-web-1793854797">http://splinternews.com/how-presidential-campaigns-are-building-the-perfect-web-1793854797</a></p> <p><b>Paper 3 interim report due.</b></p>
13	14 Nov	Work III	<p>Sharone, Ofer. 2017. "LinkedIn or LinkedOut? How Social Networking Sites are Reshaping the Labor Market" In Emerging Conceptions of Work, Management and the Labor Market. Published online: 13 Jun 2017; 1-31.</p> <p>Kantor, Jodi and David Streitfeld. 2015. Inside Amazon: Wrestling Big Ideas in a Bruising Workplace. The New York Times. <a href="https://www.nytimes.com/2015/08/16/technology/inside-amazon-wrestling-big-ideas-in-a-bruising-workplace.html">https://www.nytimes.com/2015/08/16/technology/inside-amazon-wrestling-big-ideas-in-a-bruising-workplace.html</a></p> <p>Klein, Ezra. 2015. Why the New York Times's Amazon story is so controversial, explained. Vox. <a href="https://www.vox.com/2015/8/17/9166023/new-york-times-amazon">https://www.vox.com/2015/8/17/9166023/new-york-times-amazon</a></p> <p>Bruder, Jessica. 2017. Meet the Camperforce, Amazon's nomadic retiree army. Wired Magazine. <a href="https://www.wired.com/story/meet-camperforce-amazons-nomadic-retiree-army/">https://www.wired.com/story/meet-camperforce-amazons-nomadic-retiree-army/</a></p> <p>Rosenblatt, Alex. 2016. Who are the Uber and Lyft drivers? Medium. <a href="https://medium.com/uber-screeds/who-are-the-uber-lyft-drivers-e7b746f21665">https://medium.com/uber-screeds/who-are-the-uber-lyft-drivers-e7b746f21665</a></p> <p>Optional: Ciubotariu, Nick. 2015. An Amazonian's response to "Inside Amazon: Wrestling Big Ideas in a Bruising Workplace." LinkedIn. <a href="https://www.linkedin.com/pulse/amazonians-response-inside-">https://www.linkedin.com/pulse/amazonians-response-inside-</a></p>

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	16 Nov	Identity	<p>Bucher, Taina. "The Algorithmic Imaginary: Exploring the Ordinary Affects of Facebook Algorithms." Information, communication &amp; society 20.1 (2017): 30-44.</p> <p>Miller, Daniel, et al. Why We Post Project. See the 15 discoveries that the researchers made based on comparing their observations; pick ones you find most interesting:  <a href="http://www.ucl.ac.uk/why-we-post/discoveries/">http://www.ucl.ac.uk/why-we-post/discoveries/</a>.</p> <p>Feinberg, Ashley. 2015. The Creepiest Things You Can Do on Facebook. Gizmodo. <a href="http://gizmodo.com/the-creepiest-things-you-can-do-on-facebook-1683434172">http://gizmodo.com/the-creepiest-things-you-can-do-on-facebook-1683434172</a></p> <p>Feinberg, Ashley. 2017. This is almost certainly James Comey's Twitter account. Gizmodo. <a href="https://gizmodo.com/this-is-almost-certainly-james-comey-s-twitter-account-1793843641">https://gizmodo.com/this-is-almost-certainly-james-comey-s-twitter-account-1793843641</a></p>
14	21 Nov	Expression (Mediation II)	<p>Phillips, Whitney. "The house that fox built: Anonymous, spectacle, and cycles of amplification." Television &amp; New Media 14.6 (2013): 494-509.</p> <p>Beran, Dale. 2017. 4chan: The Skeleton Key to the Rise of Trump. Medium. <a href="https://medium.com/@DaleBeran/4chan-the-skeleton-key-to-the-rise-of-trump-624e7cb798cb">https://medium.com/@DaleBeran/4chan-the-skeleton-key-to-the-rise-of-trump-624e7cb798cb</a></p> <p>Philips, Whitney, Jessica Beyer, and Gabriella Coleman. 2017. Trolling Scholars Debunk the Idea That the Alt-Right's Shitposters Have Magic Powers. Motherboard. <a href="https://motherboard.vice.com/en_us/article/z4k549/trolling-scholars-debunk-the-idea-that-the-alt-rights-trolls-have-magic-powers">https://motherboard.vice.com/en_us/article/z4k549/trolling-scholars-debunk-the-idea-that-the-alt-rights-trolls-have-magic-powers</a></p> <p>Wortham, Jenna. 2017. Why Can't Silicon Valley Fix Online Harassment? The New York Times</p>

			Magazine. <a href="https://www.nytimes.com/2017/04/04/magazine/why-cant-silicon-valley-fix-online-harassment.html? r=0">https://www.nytimes.com/2017/04/04/magazine/why-cant-silicon-valley-fix-online-harassment.html? r=0</a>
	23 Nov	No Class – Thanksgiving Weekend	
15	28 Nov	Mis-information (Mediation III)	<p>Burrell, Jenna. "Problematic empowerment: West African Internet scams as strategic misrepresentation." Information Technologies &amp; International Development 4.4 (2008)</p> <p>Marwick, Alice and Rebecca Lewis. Media Manipulation and Disinformation Online. Data and Society Reports. pp1-3, 34-39. <a href="https://datasociety.net/pubs/oh/DataAndSociety_MediaManipulationAndDisinformationOnline.pdf">[https://datasociety.net/pubs/oh/DataAndSociety_MediaManipulationAndDisinformationOnline.pdf]</a>.</p> <p>Grossmann, Matt and David A. Hopkins. 2016. How Information Became Ideological. Inside Higher Ed Blog. <a href="https://www.insidehighered.com/views/2016/10/11/how-conservative-movement-has-undermined-trust-academe-essay">https://www.insidehighered.com/views/2016/10/11/how-conservative-movement-has-undermined-trust-academe-essay</a></p> <p>Benkler, Yochai, Robert Faris, Hal Roberts, and Ethan Zuckerman. 2017. Study: Breitbart-led right-wing media ecosystem altered broader media agenda. The Columbia Journalism Review. <a href="https://www.cjr.org/analysis/breitbart-media-trump-harvard-study.php">https://www.cjr.org/analysis/breitbart-media-trump-harvard-study.php</a></p> <p>Chen, Adrian. 2015. The Agency. The New York Times Magazine. <a href="https://www.nytimes.com/2015/06/07/magazine/the-agency.html">https://www.nytimes.com/2015/06/07/magazine/the-agency.html</a></p> <p>Optional: Driscoll, Kevin. 2013. The Tedium is the Message: Finn Brunton's "Spam: A Shadow History of the Internet". Los Angeles Review of Books. <a href="https://lareviewofbooks.org/article/the-tedium-is-the-message-finn-bruntons-spam-a-shadow-history-of-the-internet/">https://lareviewofbooks.org/article/the-tedium-is-the-message-finn-bruntons-spam-a-shadow-history-of-the-internet/</a></p>
	30 Nov	The Social Life of Computing	No readings.
16	4		



	Dec		
	8 Dec		Paper 3 due.