

Reading Schedule, Spring 2016

Week	Due date	What to read / watch
1	Jan. 14 (Th)	What Is Code? http://bloom.bg/1QqPqyK The Problem With Technological Ignorance http://slate.me/1NHdSFB
2	Jan. 19 (Tu)	<i>The Information</i> , Chapters 1–3
3	Jan. 26 (Tu)	<i>The Thrilling Adventures of Lovelace & Babbage</i> Charles Babbage and His Difference Engine #2 (video) http://bit.ly/1PALdZg
4	Feb. 2 (Tu)	<i>The Information</i> , Chapter 5
5	Feb. 9 (Tu)	<i>Logicomix</i>
6	Feb. 16 (Tu)	<i>The Information</i> , Chapters 6–8
7	Feb. 23 (Tu)	Gödel, Turing, and Friends http://bit.ly/1SoJOEr Turing machines in Conway's <i>Game of Life</i> http://bit.ly/1NV00tJ <i>The Information</i> , Chapter 12
8	Mar. 1 (Tu)	<i>The Information</i> , Chapter 15 & Epilogue Moore's Law Milestones http://bit.ly/1n00Mgh After Moore's Law http://econ.st/1YE9puh The Automation Paradox http://theatln.tc/1NiXSZ8
9	Mar. 8 (Tu)	When Women Stopped Coding (podcast) http://n.pr/1tIJxC1 How Stereotypes Impair Women's Careers http://bit.ly/P070Uz Hiring Women in Silicon Valley (video) http://bit.ly/1up3HdS The Dads of Tech http://bit.ly/1txWlrF Disrupting the Culture of Silicon Valley http://bit.ly/1sHMBNZ
10	Mar. 15 (Tu)	Can Computer Programs Be Racist And Sexist? (podcast) http://n.pr/1M4YQhG What Does it Mean for an Algorithm to be Fair? http://bit.ly/1K7PFex F.A.T. ML Workshop Q&A http://bit.ly/1mmxBnH
11	(spring break)	thinking at your leisure
12	Mar. 29 (Tu)	How Autonomous Cars Will Change Society http://bit.ly/10BZpAG The Ethics of Autonomous Cars http://theatln.tc/1HhXlXq The Problem with Self-Driving Cars http://bit.ly/1RIOPYW
13	Apr. 5 (Tu)	The Internet of Things Is Far Bigger Than... http://bit.ly/1KUV74V How the Internet of Things Limits... http://theatln.tc/1kiTSRm Private traits from digital traces http://bit.ly/1mv8jzb In our modern surveillance state, everyone can... http://bit.ly/1yuH1C8 How is NSA breaking so much crypto? http://bit.ly/1Pj9bqB
14	Apr. 12 (Tu)	Computing Machinery and Intelligence http://bit.ly/1IGQo74 Turing's Cathedral http://bit.ly/1DKkz6k The 3 Breakthroughs That Have Finally Unleashed AI... http://bit.ly/ZT1aUz
15	Apr. 19 (Tu)	Spike Jonze's <i>Her</i> (movie) How Hard is Artificial Intelligence? http://bit.ly/1Z3mAc1
16	Apr. 26 (Tu)	The Accelerating Power of Technology (video) http://bit.ly/1g3E3ZH The Singularity: Your Future as a Black Hole (podcast) http://bit.ly/1ywuABs The Singularity in Our Past Light-Cone http://bit.ly/1F61KRy

More cool things to read about the future of computing.

Science fiction:

- *Summa Technologiae*, by Stanislaw Lem
- *REAMDE*, *Snow Crash*, *Cryptonomicon*, *The Diamond Age*, by Neil Stephenson
- *Holy Fire*, *Distraction*, or *The Caryatids*, by Bruce Sterling
- *A Good Old-Fashioned Future*, by Bruce Sterling
- *The Metamorphosis of Prime Intellect*, by Roger Williams
- *Super Sad True Love Story*, by Gary Shteyngart
- *Eastern Standard Tribe*, by Cory Doctorow
- *Human readable*, by Doctorow
- *Mr. Penumbra's 24-Hour Bookstore*, by Robin Sloan
- *Virtual Light*, *Neuromancer*, by William Gibson
- *Accelerando*, by Stross
- *Rainbows End*, by Verner Vinge
- *Existence*, by David Brin
- *The Dueling Machine*, by Ben Bova
- *A Logic Named Joe*, by Murray Leinster
- *The Shockwave Rider*, by John Brunner
- *Red Plenty*, by Francis Spufford
- *The Golden Age* trilogy, by John C. Wright
- *Person of Interest* (TV show)

Non-fiction:

- *Computer Liberation*, by Nelson
- *Augmenting Human Intellect*, by Engelbart
- *Database Nation*, by Garfinkle
- *Being Digital*, by Negroponte
- *Superintelligence*, Nick Bostrom
- *Tomorrow Now*, and *Shaping Things*, by Bruce Sterling
- *Tools for Conviviality*, Ivan Illich
- *Quantum Computing since Democritus*, by Aaronson
- *The Second Machine Age*, by Erik Brynjolfsson and Andrew McAfee
- The Oatmeal on self-driving cars <http://bit.ly/1ARKXt0>