



CS-0245 - Minds, Brains, and Machines: The 50 Key Ideas

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CS-0245 - Minds, Brains, and Machines: The 50 Key Ideas

Course Syllabus

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09-03-2008 Wednesday



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Reading/Listening [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
Slides from the day's lecture
Required

Class **Organization. Doing Science. Introduction to Assignment 1.** [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
Location: Adele Simmons Hall (ASH) Room 112
Required

02:30 PM - 03:50 PM

09-08-2008 Monday

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Assignment **Run yourself on the ANT task** [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
This is an evolving assignment. By next Wednesday, we want everyone to run themselves in the ANT task and keep track of the three efficiency values reported at the end of the experiment. For starters try the following link to test yourself. It takes about a half hour. And do take short breaks when instructed to.
<http://www.sacklerinstitute.org/users/jin.fan/ant/ANTRunOnline.html>

When running ANT you can enter "testant" as your group/username and "10000" as your password. This is an evolving assignment. By next Wednesday, we want everyone to run themselves in the ANT task and keep track of the three efficiency values reported at the end of the experiment. For starters try the following link to test yourself. It takes about a half hour. And do take short breaks when instructed to.
<http://www.sacklerinstitute.org/users/jin.fan/ant/ANTRunOnline.html>

There is an ANT folder on all the Macs in Room 126 ASH. Look within the Applications folder. To start the experiment double click the file ANT.jar.
Required



Assignment **Thinking about cognitive functions** [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
See the assignment for details.
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
Slides from the day's lecture
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
N. Stillings, "What is cognitive science." pp 1-14. Stillings, N. A., et al., "Cognitive Science: An Introduction." "2nd." MIT Press. 1995.
Read this first. Try to get a good handle on most of it.
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
M. Posner & J. Fan, "Attention as an organ system." pp 31-61. J.

Pomerantz, "Topics in Integrative Neuroscience: From Cells to Cognition." Cambridge University Press. 2008.
 Start reading this paper, slowly. Make notes about things that you do not understand. Think about the significance of what you do understand.
 Required

02:30 PM - 03:50 PM

Class

What is cognitive science 3.0. Continuation of first research example. [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 I eat some humble pie and critique and update my 1995 version of the nature of cognitive science.
 Location: Adele Simmons Hall (ASH) Room 112
 Required

09-10-2008 Wednesday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)**Reading/Listening**

Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 M. Posner & J. Fan, "Attention as an organ system." pp 31-61. J. Pomerantz, "Topics in Integrative Neuroscience: From Cells to Cognition." Cambridge University Press. 2008.
 This is the same Posner & Fan paper as before, but scanned from the book in which it appeared. Some people might prefer to read from this copy, which has the figures inserted into the text.
 Required

02:30 PM - 03:50 PM

Class

[[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

Assignment

Posner & Fan [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 Continue reading Posner and Fan. There's now an alternative copy of the article, scanned from a book, that you can download, if you wish. Run yourself in the ANT task. Keep track of the three scores that you get when you're finished with the task.
 Location: Adele Simmons Hall (ASH) Room 112
 Required

09-15-2008 Monday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)**Reading/Listening**

Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 Biederman, I., & Bar, M., "One-shot viewpoint invariance in matching novel objects." *Vision Research*. Vol. 39, 1999. pp 2885-2899.
 This paper required for Weds. writing assignment. Read this paper first. This is a difficult paper. It's important to look at Figure 1 to grasp what is meant by metric vs. non-accidental properties of an object.
 Required

**Reading/Listening**

Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 Vogels, R., Biederman, I., Bar, M., & Lorincz, A, "Inferior temporal neurons show greater sensitivity to nonaccidental than to metric shape differences." *Journal of Cognitive Neuroscience*. Vol. 13, Issue 4, 2001. pp 444-453.
 This paper required for Weds. writing assignment. Read this paper second.
 Required

02:30 PM - 03:50 PM

Class

Scheduled Class [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

Assignment

Collect your ANT results! [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 If you have not already done so, run yourself in the ANT task and send your results to neil.
 Location: Adele Simmons Hall (ASH) Room 112
 Required

09-17-2008 Wednesday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

02:30 PM - 03:50 PM

Class

Scheduled Class [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

**Assignment**

Assignment 2: Theories of object recognition [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) [Nudge](#) [>](#) [>>](#) [>>>](#)]
 See the assignment.
 Location: Adele Simmons Hall (ASH) Room 112
 Required

09-22-2008 Monday

02:30 PM - 03:50 PM

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Class **Scheduled Class** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

09-24-2008 Wednesday

02:30 PM - 03:50 PM

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Class **Scheduled Class** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

09-29-2008 Monday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Read this article and consider its implications for the Modularity Hypothesis.
 Required

02:30 PM - 03:50 PM

Class **Scheduled Class** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

10-01-2008 Wednesday

02:30 PM - 03:50 PM

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Class **Scheduled Class** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

10-06-2008 Monday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Slides from 10-6-08 lecture
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 "Chapter 1: Remnants of history." pp 1-17. Gary Marcus, "Kluge: The haphazard construction of the human mind." Houghton Mifflin. 2008.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 "Chapter 2: Memory." pp 18-39. Gary Marcus, "Kluge: The haphazard construction of the human mind." Houghton Mifflin. 2008.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 "Chapter 3: Belief." pp 40-68. Gary Marcus, "Kluge: The haphazard construction of the human mind." Houghton Mifflin. 2008.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 "Chapter 4: Choice." pp 69-94. Gary Marcus, "Kluge: The haphazard construction of the human mind." Houghton Mifflin. 2008.
 Required

02:30 PM - 03:50 PM









Class **Gary Marcus Week!** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Class this week is organized around the perspective of Gary Marcus, Hampshire alum and Professor of Psychology at NYU. Recently, Gary published a very entertaining book entitled Kluge: The Haphazard Construction of the Human Mind. Four chapters looks like a lot of reading, but this is a fun, smart, easy to read book. Have fun!!
 Location: Adele Simmons Hall (ASH) Room 112
 Required

10-08-2008 Wednesday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)









Assignment **Assignment 3: Kluge** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 See the assignment.
 Required





Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Gary Marcus, "Cognitive architecture and descent with modification." *Cognition*. Vol. 101, 2006. pp 443-465.


		Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Merzenich, Michael , "Seeing in the sound zone." <i>Nature</i> . Vol. 404, 2000. pp 820-821. Required
12:00 PM - 01:00 PM		Event Gary Marcus: Cognitive Science noon talk, ASH lobby [Edit Delete <<< << < Nudge > >> >>>] FREE LUNCH IN THE ASH LOBBY (If you come to the talk). Location: Adele Simmons Hall (ASH) Room 112 Required
02:30 PM - 03:50 PM		Class Gary Marcus visits our class! [Edit Delete <<< << < Nudge > >> >>>] Gary will give the noon Cognitive Science talk in the ASH lobby and then visit our class. Get your questions ready. Location: Adele Simmons Hall (ASH) Room 112 Required
10-13-2008 Monday		ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All
02:30 PM - 03:50 PM		Event NO CLASS: OCTOBER BREAK [Edit Delete <<< << < Nudge > >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
10-15-2008 Wednesday		ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Listen to a discussion between Mahzarin Banaji and Anthony Greenwald about the history and significance of the Implicit Association Test (IAT). Note that a slightly edited transcript of the video also appears below the video window on the webpage. The video is on the Edge website, which has lots of fun cog sci material. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] This is an optional item. It's Banaji's lecture at the Beyond Belief conference on science and religion sponsored by the Salk Institute in 2006. She's very passionate here about the need for psychological science. The bonus on this clip is that you can also listen to Richard Dawkins and Scott Atran, a distinguished cognitive anthropologist. The other sessions on this site are also well worth listening to. Supplemental
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Mahzarin Banaji (2008). The Science of Satire. <i>The Chronicle of Higher Education</i> , 54(31), pp. B13. To see the New Yorker cover discussed in this opinion piece of Banaji's, go to the Gallery on this course website. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Baron, A. S. & Banaji, M. R., "The Development of Implicit Attitudes: Evidence of Race Evaluations from Ages 6 and 10 and Adulthood.." <i>Psychological Science</i> . Vol. 17, Issue 1, 2006. pp 53-58. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Cunningham, W. A., Marcia K. Johnson, Carol L. Raye, J. Chris Gatenby, John C. Gore, and Mahzarin R. Banaji, "Separable Neural Components in the Processing of Black and White Faces.." <i>Psychological Science</i> . Vol. 15, Issue 12, 2004. pp 806-813. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] David Glenn (2008). Our Hidden Prejudices on Trial. <i>The Chronicle of Higher Education</i> , 54(33), p. B12. This newspaper piece describes disagreements in the social psychology and legal communities about legal implications of work on implicit prejudice. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Nicholas D. Kristof (2008). Racism without racists. <i>New York Times</i> ,


		10/05/08. Required
02:30 PM - 03:50 PM	Class	Current events interlude I [Edit Delete <<< << ≤ Nudge ≥ >> >>>] We will spend 2 or 3 class meetings, with reading and writing on applications of cog sci to current events. Location: Adele Simmons Hall (ASH) Room 112 Required
	Assignment	Implicit Associations [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Go to Project Implicit and run yourself in their "Featured Task: U.S. Election 2008 IAT" here . After running yourself, explore the rest of the Project Implicit website. Location: Adele Simmons Hall (ASH) Room 112 Required
10-20-2008 Monday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Story on the AP-Yahoo! racism in the 2008 presidential election poll, conducted in collaboration with Stanford University. Required
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Jonathan Haidt (2008).WHAT MAKES PEOPLE VOTE REPUBLICAN? Posted Sept. 9 on www.edge.org/3rd_culture website. Read Haidt's piece and also read the responses (click <i>continue</i> at the bottom of the piece). Or just click here . Required
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Slides from the day's lecture. Required
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Jonathan Haidt, "The New Synthesis in Moral Psychology." <i>Science</i> . Vol. 316, 2007. pp 998-1002. Required
02:30 PM - 03:50 PM	Class	Scheduled Class [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
10-22-2008 Wednesday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Slide's from today's lecture. Required
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Op-ed piece by Marco Iacoboni et al. from New York Times, Nov. 11, 2007, "This is Your Brain on Politics." And, letter to the editor critiquing the piece drafted by Russell Poldrack et al., Nov. 14, 2007, "Politics and the Brain." Slide show accompanying the Iacoboni piece can be found here . Supplemental
	 Reading/Listening	Online Reading/Listening - Click to View/Listen [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Greg Miller, "NewsFocus: Growing pains for fMRI." <i>Science</i> . Vol. 320, 2008. pp 1412-1414. Supplemental
02:30 PM - 03:50 PM	Class	More on the Election. Readings listed for this class are posted to support the lecture. Interested students can pursue them. [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
	 Assignment	Assignment 4: The 2008 Presidential Election [Edit Delete <<< << ≤ Nudge ≥ >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
10-27-2008 Monday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	


		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Slides from the day's lecture. Required
02:30 PM - 03:50 PM	Class	Memory: Basic concepts [Edit Delete <<< << < Nudge > >> >>>] No readings for this class. Location: Adele Simmons Hall (ASH) Room 112 Required
10-29-2008 Wednesday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Slides from the day's lecture. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Gordon, Ruthanna; Franklin, Nancy; Beck, Jennifer, "Wishful thinking and source monitoring." <i>Memory & Cognition</i> ,. Vol. 33, Issue 3, 2005. pp 418-429. Read after Johnson's Memory and reality paper. This paper is by Hampshire alum Ruthanna Gordon, who did graduate work with Nancy Franklin, who was a student of Marcia Johnson's. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Marcia Johnson, "Memory and Reality." <i>American Psychologists</i> . Vol. 61, Issue 8, 2006. pp 760-771. This paper lays out Johnson's framework for her research on aspects of the reliability of memory. Required
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Elizabeth A. Kensinger, Rachel J. Garoff-Eaton, & Daniel L. Schacter, "How Negative Emotion Enhances the Visual Specificity of a Memory." <i>Journal of Cognitive Neuroscience</i> . Vol. 19, Issue 11, 2007. pp 1872-1887. Required
02:30 PM - 03:50 PM	Class	Memory: Research examples [Edit Delete <<< << < Nudge > >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
11-03-2008 Monday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] Slides from the day's lecture. Required
02:30 PM - 03:50 PM	Class	Thinking like a cognitive scientist: How to read a journal article [Edit Delete <<< << < Nudge > >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
11-05-2008 Wednesday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	
02:30 PM - 03:50 PM	Event	NO CLASS. ADVISING DAY [Edit Delete <<< << < Nudge > >> >>>] Location: Adele Simmons Hall (ASH) Room 112 Required
11-10-2008 Monday	ADD: Class Lab Training Session Assignment Reading/Listening Event - DELETE: All	
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] From National Public Radio show Weekend Edition, Feb. 24, 2007. This is the NPR show on H.M. The reporter's commentary on memory research is not very nuanced, and the talk about what "doctors" know is somewhat lame, but it's a chance to actually hear H.M. and Suzanne Corkin, the neuropsychologist who tested and interviewed H.M. for many years. See Corkin's homepage . Supplemental
		Reading/Listening Online Reading/Listening - Click to View/Listen [Edit Delete <<< << < Nudge > >> >>>] PowerPoint slides from today's lecture. The readings posted for today provide background for the lecture. Required

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Addis, Donna Rose, Wong, Alana T., & Schacter, Daniel L., "Remembering the past and imagining the future: Common and distinct neural substrates during event construction and elaboration." *Neuropsychologia*. Vol. 45, Issue 7, 2007. pp 1363-1377.
 This paper is the source of the fMRI imagery that shows past memory and future imagination using overlapping brain circuitry.
 Supplemental

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Gopnik, Alison & Graf, Peter, "Knowing how you know: Young children's ability to identify and remember the sources of their beliefs." *Child Development*. Vol. 59, Issue 5, 1988. pp 1366-1371.
 This is the classic "What's in the drawer" vs. "How did you find out" study by Alison Gopnik.
 Supplemental


 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Rosenbaum, R. S., et al., "The case of K.C.: contributions of a memory-impaired person to memory theory." *Neuropsychologia*. Vol. 43, Issue 7, 2005. pp 989-1021.
 This paper reviews 20 years of research on the patient K.C. It includes considerable detail on his lesion and on the methodologies that were used to investigate his memory.
 Supplemental

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Schacter, Daniel, Addis, D. R., Buckner, R. L., "Remembering the past to imagine the future: The prospective brain." *Nature reviews Neuroscience*. Vol. 8, Issue 9, 2007. pp 657-661.
 General review of the link between past and future mental time travel.
 Supplemental

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Endel Tulving, "Episodic memory and autoeosis: Uniquely human?." pp 3-56. H.S. Terrace & J. Metcalfe, "The Missing Link in Cognition: Origins of Self-Reflective Consciousness." Oxford University Press. 2005.
 This is a clear and, to my mind, deeply humanistic statement by Tulving of his hypothesis about mental time travel. Sometimes authors make good use of the opportunity to write a book chapter.
 Supplemental


02:30 PM - 03:50 PM


Class [Scheduled Class](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Location: Adele Simmons Hall (ASH) Room 112
 Required


 **Assignment** [Assignment 5: Journal article dissection](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 This is an exercise in how to think like a cognitive scientist.
 Location: Adele Simmons Hall (ASH) Room 112
 Required


11-12-2008 Wednesday

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Slides from the day's lecture.
 Required

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Culicover, P. and Jackendoff, R., "The simpler syntax hypothesis." *TRENDS in Cognitive Sciences*. Vol. 10, Issue 9, 2006. pp 413-418.
 Required

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Hauser, Chomsky, & Fitch, "The Faculty of language: what's special about it?." *Science*. Vol. 298, 2002. pp 1569-1579.
 Required

 **Reading/Listening** [Online Reading/Listening - Click to View/Listen](#) [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
 Pinker & Jackendoff, "The faculty of language: what's special about it? ." *Cognition*. Vol. 95, 2005. pp 201-236.
 Supplemental

02:30 PM - 03:50 PM

Class **Language I** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Location: Adele Simmons Hall (ASH) Room 112
Required

11-17-2008 Monday

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Slides from the day's lecture
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Giacomo Rizzolatti and Michael A. Arbib, "Language within our grasp." *Trends in Neurosciences*. Vol. 21, Issue 5, 1998. pp 188-194.
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Andrea Santi and Yosef Grodzinsky, "Working memory and syntax interact in Broca's area." *NeuroImage*. Vol. 37, 2007. pp 8-17.
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Edward E. Smith and John Jonides, "Storage and Executive Processes in the frontal lobes." *Science*. Vol. 283, (1999). pp 1657-1661.
Required

02:30 PM - 03:50 PM

Class **Language II** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Location: Adele Simmons Hall (ASH) Room 112
Required

11-19-2008 Wednesday

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Slide's from the day's lecture
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
"The cellular & molecular basis of cognition." pp 28-31. Gazzaniga, M. S., R. B. Ivry, & G. R. Mangun, "Cognitive Neuroscience." "2nd." Norton. 2002.
Supplemental



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
"The cellular & molecular basis of cognition." pp 31-48. Gazzaniga, M. S., R. B. Ivry, & G. R. Mangun, "Cognitive Neuroscience." "2nd." Norton. 2002.
Supplemental



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
"The cellular & molecular basis of cognition." pp 48-61. Gazzaniga, M. S., R. B. Ivry, & G. R. Mangun, "Cognitive Neuroscience." "2nd." Norton. 2002.
Supplemental



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Meel Velliste, Sagi Perel, M. Chance Spalding, Andrew S. Whitford & Andrew B. Schwartz, "Cortical control of a prosthetic arm for self-feeding." *Nature*. Vol. On-line, May 28, 2008.
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Daniel E. Winkowski & Eric I. Knudsen, "Top-down gain control of the auditory space map by gaze control circuitry in the barn owl." *NATURE*. Vol. 439, Issue 19, 2006. pp 336-339.
Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Ilana B Witten, Joseph F Bergan & Eric I Knudsen, "Dynamic shifts in the owl's auditory space map predict moving sound location." *NATURE NEUROSCIENCE* . Vol. 9, Issue 11, 2006. pp 1439-1445.
Required

02:30 PM - 03:50 PM

Class **Neural circuits: Poking around** [[Edit](#) | [Delete](#) | <<< << < Nudge > >> >>>]
Please Note: The chapters from Gazzaniga's Intro to Cognitive

Neuroscience are optional.

Location: Adele Simmons Hall (ASH) Room 112

Required

11-24-2008 Monday

02:30 PM - 03:50 PM

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Event **TO BE ANNOUNCED.** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

11-26-2008 Wednesday

02:30 PM - 03:50 PM

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Event **NO CLASS. THANKSGIVING BREAK** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

12-01-2008 Monday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Slides from the day's lecture.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 McClelland, James L. & Rogers, Timothy T., "The Parallel Distributed Processing Approach to Cognition." *Nature Reviews Neuroscience*. Vol. 4, Issue 4, 2003. pp 310-322.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Stillings, N. A., "The connectionist approach to cognitive architecture." pp 63-86. Stillings, N. A., et al., "Cognitive Science: An Introduction," 2nd. Ed., MIT Press. 1995.
 Required

02:30 PM - 03:50 PM

Class **Neural circuits: Modeling** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

12-03-2008 Wednesday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Slides from the day's lecture
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Rodney Brooks, "From earwigs to humans." *Robotics & Autonomous Systems*. Vol. 20, 1997. pp 291-304.
 Supplemental



Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Rodney Brooks, "The relationship between matter & life." *NATURE*. Vol. 409, 2001. pp 409-411.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Andy Clark, (2003). "Artificial Intelligence and the Many Faces of Reason." In S. Stich and T. Warfield (eds) *THE BLACKWELL GUIDE TO PHILOSOPHY OF MIND*. Blackwell.
 Required



Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 A. M. Turing, "Computing machinery and intelligence." *Mind*. Vol. New Series, Vol. 59, Issue 236, 1950. pp 433-460.
 Required






02:30 PM - 03:50 PM

Class **Artificial intelligence** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

12-08-2008 Monday**ADD:** [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)

Reading/Listening **Online Reading/Listening - Click to View/Listen** [
[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Slides from the day's lecture.

Required


- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 ELIZA resources.
 For those who wish to follow up on the ELIZA program, its history, and its relation to the Turing test.
 Supplemental
- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Churchland, Paul M. "Knowing qualia: A reply to Jackson." From Churchland's collection *A Neurocomputational Perspective*. MIT Press, 1989. pp 67-76.
 Required
- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Terence Horgan, "Jackson on Physical Information and Qualia." *The Philosophical Quarterly*. Vol. 34, Issue 135, 1984. pp 147-152.
 Required
- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Frank Jackson, "Epiphenomenal Qualia." *The Philosophical Quarterly*. Vol. 32, Issue 127, 1982. pp 127-136.
 Required
- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Frank Jackson, "What Mary Didn't Know." *The Journal of Philosophy*. Vol. 83, Issue 5, 1986. pp 291-295.
 Supplemental

02:30 PM - 03:50 PM

Class Philosophy of Mind [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

12-10-2008 Wednesday

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)


- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Slides from the final class meeting.
 Required

02:30 PM - 03:50 PM

Class What's it all about? [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

12-12-2008 Friday

ADD: [Class](#) | [Lab](#) | [Training Session](#) | [Assignment](#) | [Reading/Listening](#) | [Event](#) - **DELETE:** [All](#)




- 
Assignment Final Assignment [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Location: Adele Simmons Hall (ASH) Room 112
 Required

08:30 AM - 04:00 PM

Event Final assignment & all work for class due [[Edit](#) | [Delete](#) | [<<<](#) [<<](#) [<](#) Nudge [>](#) [>>](#) [>>>](#)]
 Portfolio including final assignment & all work for the class, in a manila envelope, due in Neil's mailbox CS office by 4:30 pm.
 Location: Adele Simmons Hall (ASH) Room 112
 Required

Supplemental Readings/Listenings

ADD: [Reading/Listening](#) - **DELETE:** [All](#)

- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#)]
 Fitch, Hauser, & Chomsky, "The evolution of the language faculty: Clarifications and implications." *Cognition*. Vol. 97, 2005. pp 179-210.
 Supplemental
- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#)]
 Jackendoff & Pinker, "The nature of the language faculty and its implications for evolution of language (Reply to Fitch, Hauser, and Chomsky)." *Cognition*. Vol. 97, 2005. pp 211-225.
 Supplemental
- 
Reading/Listening
Online Reading/Listening - Click to View/Listen [[Edit](#) | [Delete](#)]
 von Melchner, Laurie, Sarah L. Pallas & Mriganka Sur, "Visual behaviour mediated by retinal projections directed to the auditory pathway." *Nature*. Vol. 404, 2000. pp 87.

Supplemental



Reading/Listening

Online Reading/Listening - Click to View/Listen [

Edit | Delete]

Sharma, Jitendra, Alessandra Angelucci & Mriganka Sur, "Induction of visual orientation modules in auditory cortex." *Nature*. Vol. 404, 2000. pp 841-847.

Supplemental

HAMP SHIRE COLLEGE