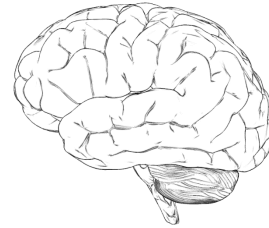


Psychology 207

“Exploring the injured brain”
University of British Columbia
Dr. Michael Souza



Lecture 01 (04 Sept 2013)

Overview of the course
Review of the main syllabus policies



Your instructor and teaching assistant

Dr. Michael Souza

souza@psych.ubc.ca

Ph.D. from UC Berkeley
BA and MA from UC Davis

Interested in higher-order cognitive functions, the frontal lobes, neurorehabilitation



Trish Varao Sousa

tvaraosousa@psych.ubc.ca

BA (Hons) from U Waterloo

Interested in how attentional factors, particularly mind wandering, influences learning and retention



Behold – the brain!

The human brain

Complex, powerful, mystifying

How do we learn about how the brain works to produce cognition, behavior?

Cognitive psychology, psychophysics

Functional neuroimaging

Dysfunction

Psychological

Neurological

...what causes dysfunction?



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Neurological injury

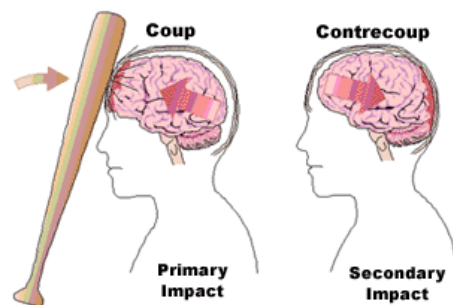
Stroke

Brain tumor

Traumatic brain injury (TBI)

Neurodegenerative

Toxin, infection, virus



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Picture: <http://www.braininjury.com/injured.shtml>

Key domains we will cover

- Motor
- Sensation and perception
- Attention, visuospatial abilities
- Memory
- Language
- Emotion
- Executive functions
- Consciousness
- Brain plasticity
- Neuroethics

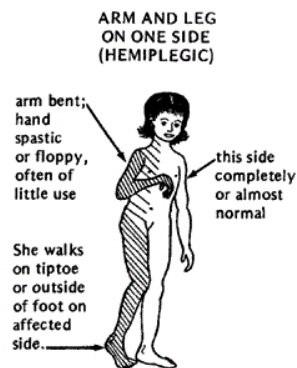


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Picture: <http://theidealmind.com/oldsite.html>

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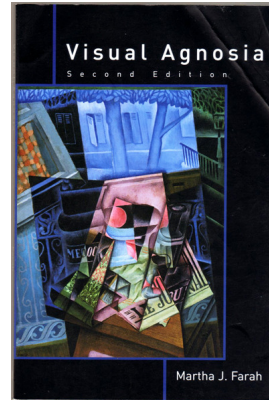


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Picture: <http://matiszonek.wordpress.com/category/uncategorized/>

Key domains we will cover

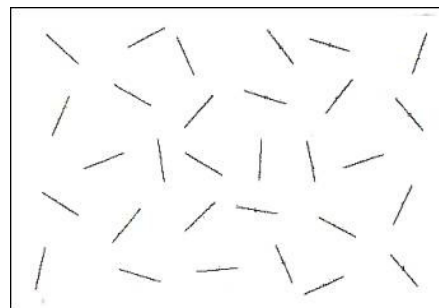
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Hemispatial neglect

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Anterograde amnesia and Patient H.M.
Picture: <http://www.telegraph.co.uk/news/obituaries/4109336/Henry-Molaison.html>

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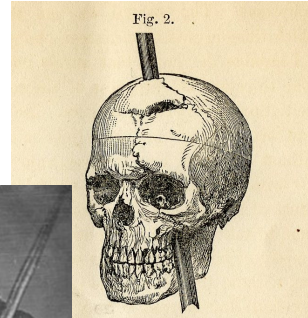


Broca's aphasia
Picture: <http://www.skeptricks.com/Assumptions.htm>

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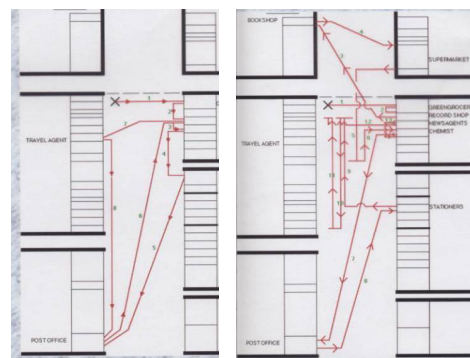


Phineas Gage and orbitofrontal syndrome
 Picture: <https://cms.www.countway.harvard.edu/wp/?tag=phineas-gage>
http://scienceblogs.com/neurophilosophy/2009/07/meet_phineas_gage.php

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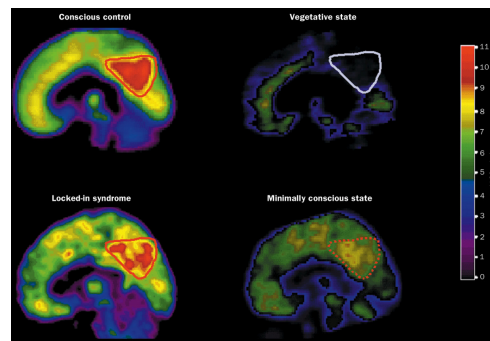


Multiple Errands Task and Dysexecutive syndrome
 Picture adapted from: http://www.icn.ucl.ac.uk/executive_functions/People/Multiple_errands.html

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Laureys, Owen & Schiff (2004). *The Lancet*, 3, 537-46

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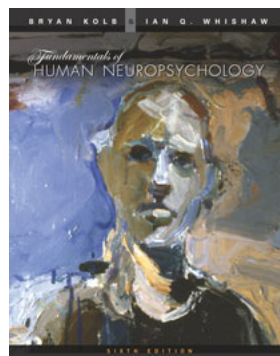
Textbook and course website

Required textbook

Kolb, B. & Whishaw, I.Q. (2009). *Fundamentals of Human Neuropsychology* (6th ed). New York: Worth

Course website

<http://elearning.ubc.ca/connect/> (important announcements, lecture slides, grades...)



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Course requirements

Two (2) Midterm Examinations (26% for MT1 and 34% for MT2 = 60% of course grade)

Forty (40) multiple-choice questions each

Final Examination (40% of course grade)

Cumulative and longer than the midterms

All lectures are testable but only post-MT2 readings are testable



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Picture: <http://blog.transifex.net/category/index/>

Research participation (extra credit opportunity)

You may earn up to 3% extra credit on your final grade by participating in research conducted by the UBC Psychology Human Subject Pool.

- You may earn this 3% by participating in three hours of research



THE
UNIVERSITY OF
BRITISH
COLUMBIA



THE DEPARTMENT OF
PSYCHOLOGY



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Course grade

The Psychology department requires all courses to comply with departmental norms.

Our mean will be somewhere between 63-67%.

A+ 90-100%	B+ 76-79%	C+ 64-67%	D 50-54%
A 85-89%	B 72-75%	C 60-63%	F 0-49%
A- 80-84%	B- 68-71%	C- 55-59%	

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Other course policies

Attendance is expected

Reading the textbook is mandatory

E-mail policy and office hours

Missing an exam

Academic misconduct



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Picture: <http://theidealmind.com/oldsite.html>