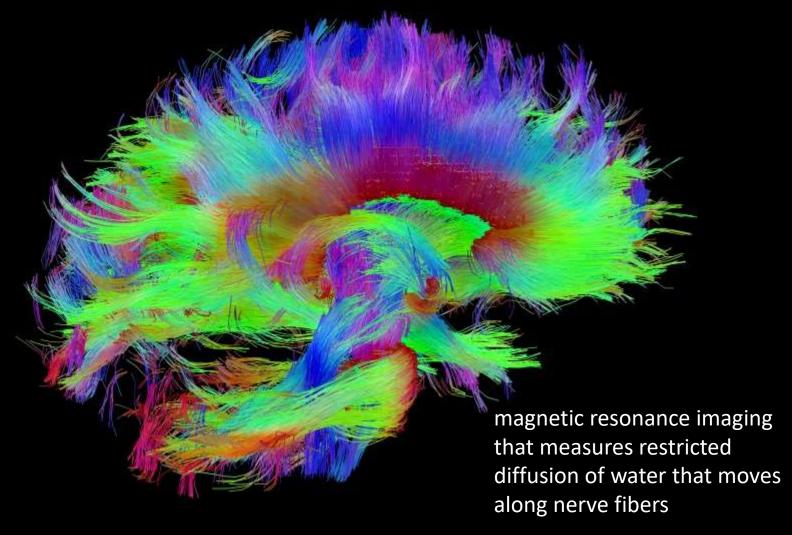


THE BRAIN OF A GIRL THE BEST WIRED BRAIN OF ALL

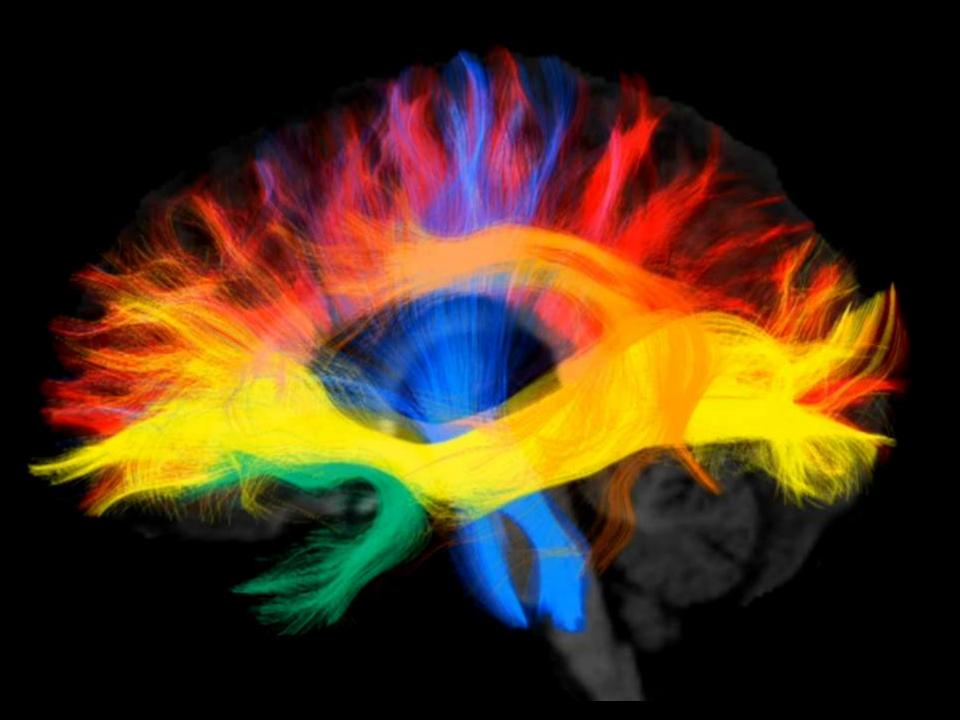
Nathalie Gosset, BSEE, MS, MBA

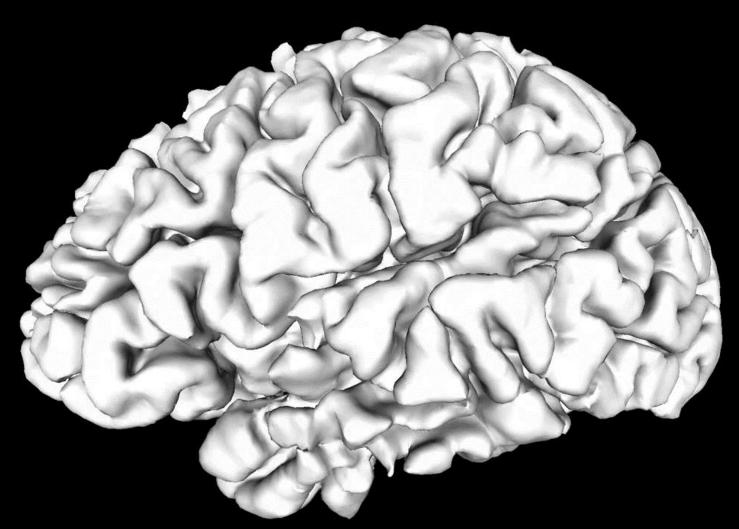
Chairman of the Institute of Electrical and Electronics Engineers Buenaventura Section gosset@ieee.org

Diffusion Tensor Imaging of the Brain



Source: The Human Connectome Project

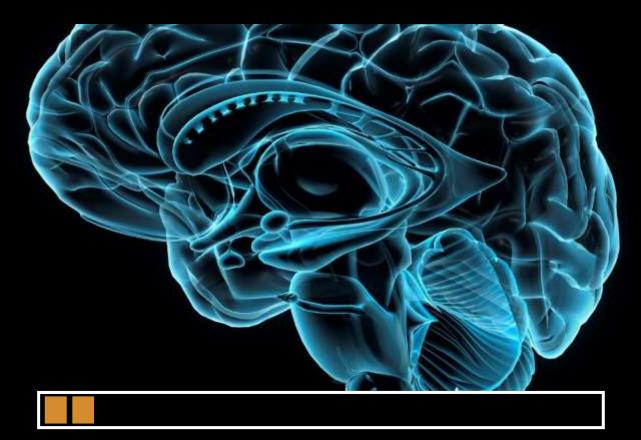




Inside the Connectome

Me are starting to answer some of the big questions

DO WE USE ONLY 10% OF OUR BRAIN?



10% LOADED ERROR: UNABLE TO LOAD MORE



CAN WE ACCELERATE
HOW WE LEARN

Such as Math, Science, ...



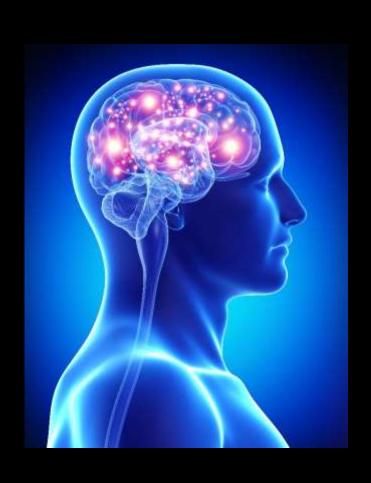


IS THERE A RECIPE TO BRAIN LONGEVITY?

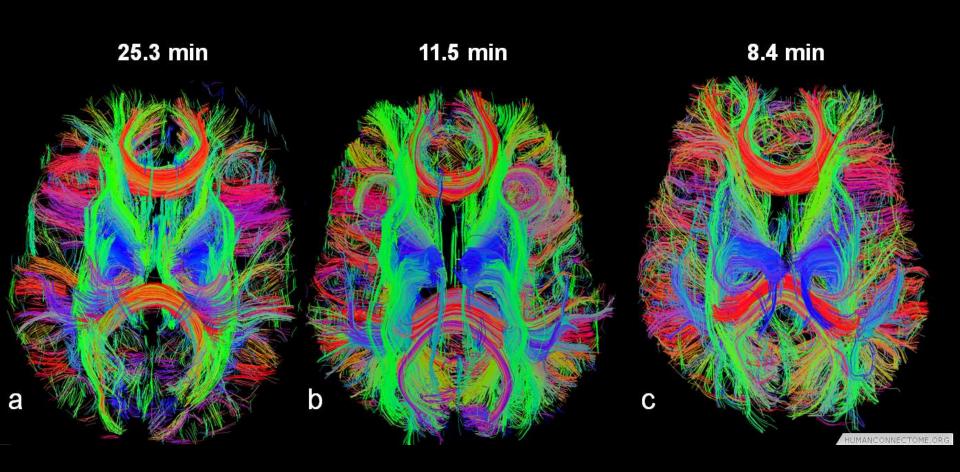




S THERE A GENDER ADVANTAGE ?







We use a lot more than 10% of our brain

Source: The Human Connectome Project

ONE MEMORY IS STORED IN THOUSANDS OF PLACES



FEELINGS ENABLE BEST MEMORY STORAGE & RETRIEVAL

PHYSICAL SENSES DEEPEN THE GROOVE

TO MEMORIZE MORE EASILY



INVOLVE YOUR FEELINGS AND EMOTIONS



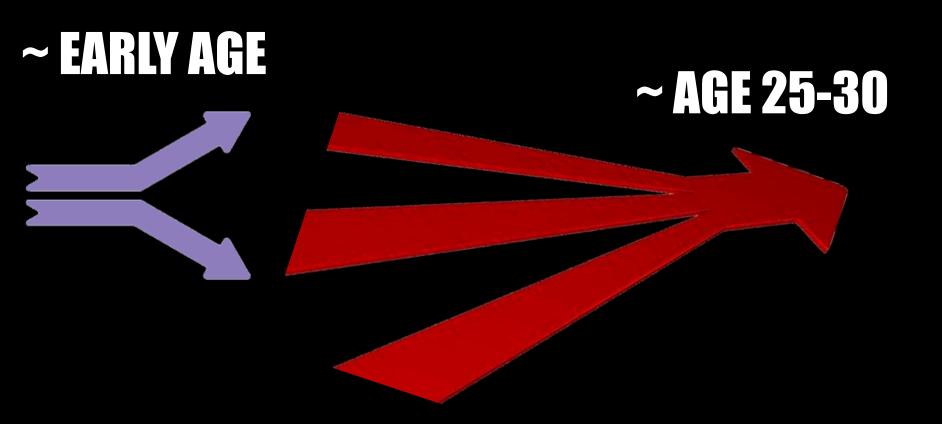
INVOLVE YOUR SENSES

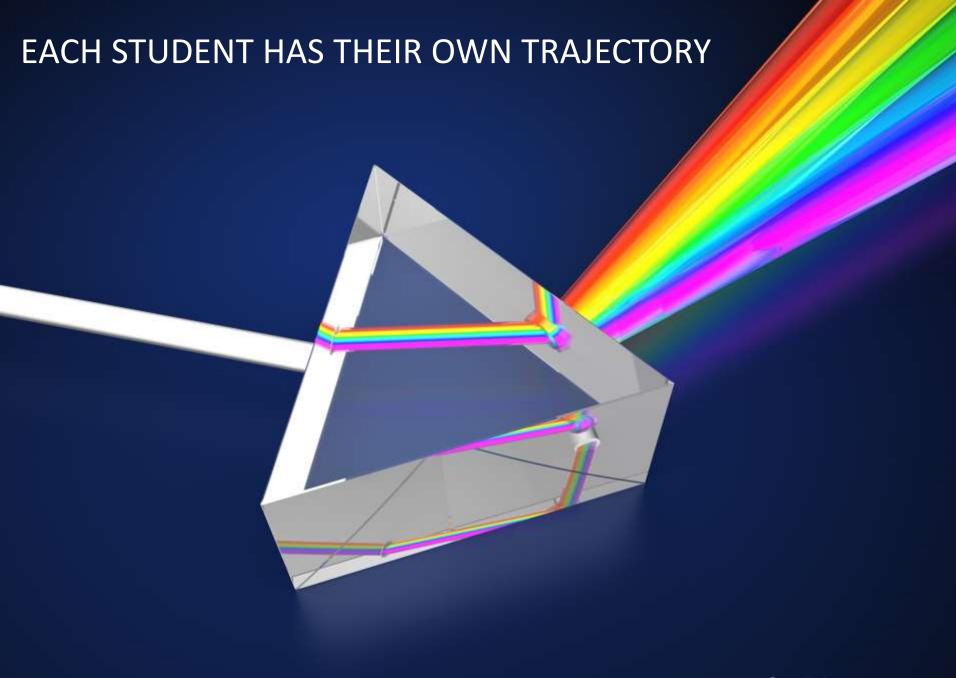
Striking Differences Between Women & Men



(Reported by Penn Medicine, Proceedings of National Academy of Sciences, 2013)

SAME ARRIVAL POINT - DIFFERENT LEARNING TRAJECTORIES FOR BOYS AND GIRLS









LEFT & RIGHT BRAINS

LOGICAL

SEQUENTIAL

RATIONAL

ANALYTICAL

OBJECTIVE

LOOKS AT DETAILS



Differentiation established by American psycho-biologist Roger W Sperry, 1060's

EXPERT THINKING MANAGEMENT

RIGHT

RANDOM

INTUITIVE

HOLISTIC

SYNTHESIZING

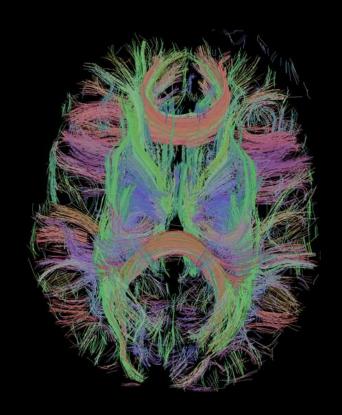
SUBJECTIVE

BIG PICTURE

STRATEGIC THINKING LEADERSHIP

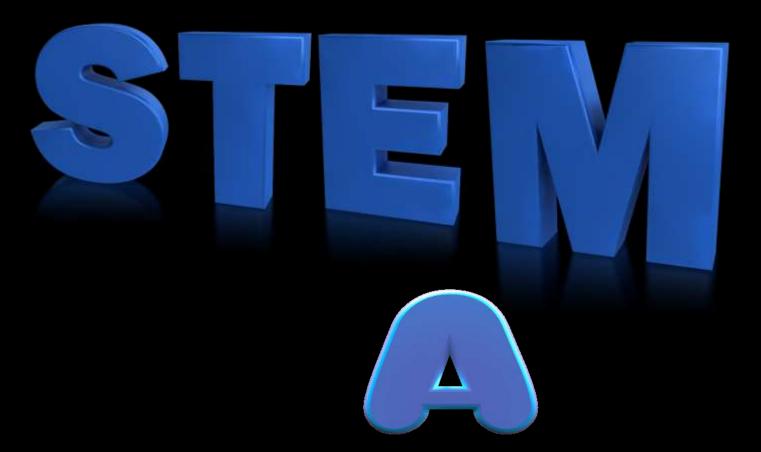
Teen Female Brain WIRED TO GO BACK AND FORTH LEFT-RIGHT EARLY IN LIFE



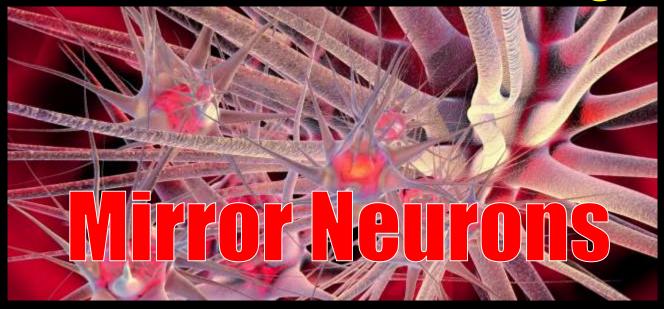


WIDER BRIDGE

360 CORRELATION OF DATA ELOQUENCE PERCEIVED MATURITY



Your Female Brain has an accelerator for learning



EMOTION READER GREATER EMPATHY

ACCELERATOR

OBSERVE → THEN DUPLICATE



Your Female Brain Learns fast by watching videos

FRONT DEVELOPS FASTER

ADVANCED SKILLS
ELOQUENCE
MATURITY
CONTROL
STRATEGIC



Your Female Brain

Madhura Ingalhalikar, University of Pennsylvania, Philadelphia, 2014

Understands Consequences Earlier



WIRED TO BE A STRATEGIC THINKER ... 4 YEARS EARLIER THAN BOYS



EMOTIONAL INTELLIGENCE

BORN WITH A BRAIN DESIGNED FOR TOP PERFORMANCE

Teen Male Brain

Has Visual-Spatial Intuition Earlier

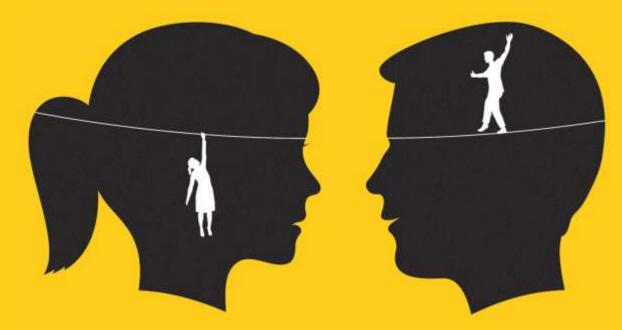


THE BACK
DEVELOPS FASTER

VISUAL-SPATIAL

ADVANCED SKILLS IN
LOGICAL
RATIONAL MATTERS

Health Behaviour in School-aged Children: Trends Report 1990-2010

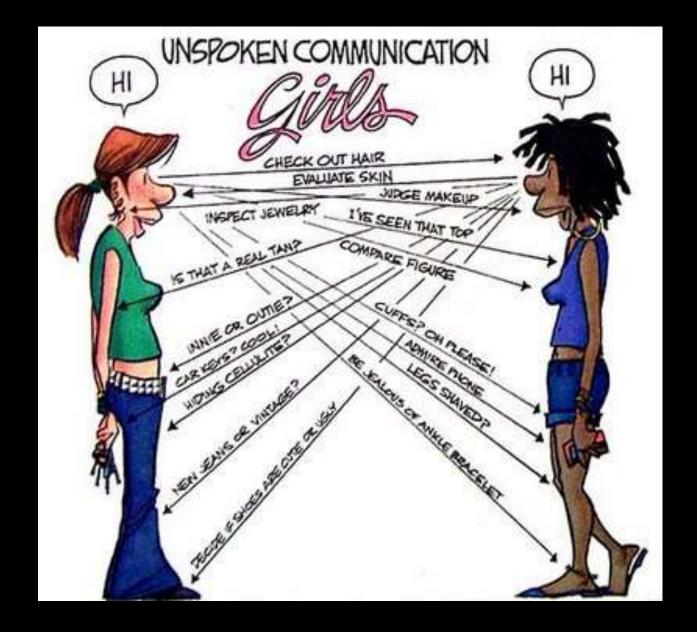


I BELIEVE IN MYSELF

GRADE 6	85 %	85%
GRADE 8	65 %	80%
GRADE 10	60%	75%



EMOTIONS DIFFICULT TO BALANCE



NEURAL TRAFFIC ACROSS THE BRIDGE





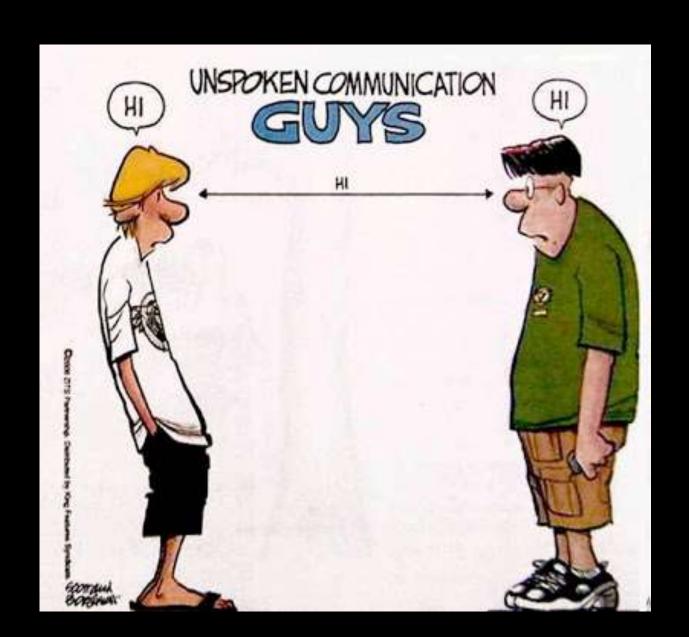
MY
PARENTS
ARE
RUINING
MY LIFE

DON'T BE FOOLED BY YOUR BRAIN

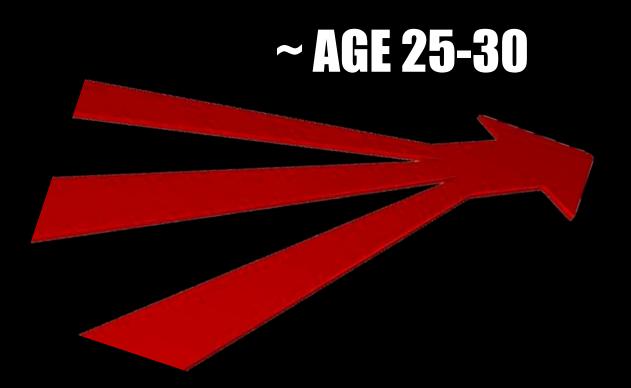




PARENTS are the ANCHOR









THANK YOU