

Coaching and Mentoring at Work conference 2nd July 2013 Holiday Inn, Bloomsbury, London

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COACHING AT WORK

3rd Annual Conference

New Horizons for an Invigorating Future

Keynote 1: Applied neuroscience & coaching: knowing about the brain and coaching.

> Professor Paul Brown London : 02 JULY 2013

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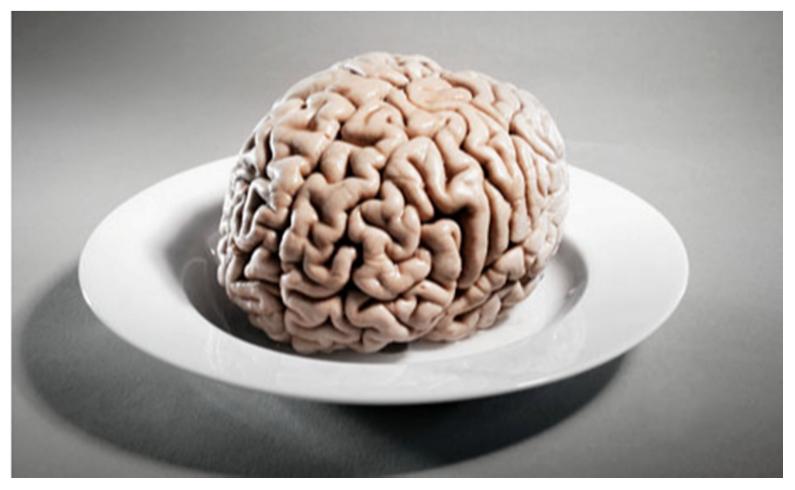
Plan of session:

Introduction

- I: The underpinning emotions
- II: The decision-making brain
- III: The leader's basic emotions
- IV: The Limbic Leader defined
- V: What kind of leader does your client choose to be?

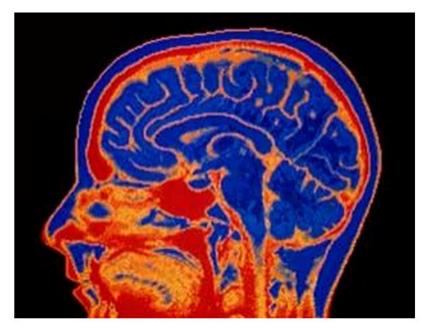
Introduction

4lbs. Several thousand miles of synaptically interconnected nerve cells operating in a hundred known chemical regulating agents supported by miles of miniscule blood vessels and untold mysteries of how, almost flawlessly, all these components work together.



Dr Suzana Herculano-Houzel / 89 billion, best guess

http://www.guardian.co.uk/science/blog/2012/feb/28/how-many-neurons-human-brain



A false-colour Magnetic Resonance Image (MRI) of a mid-sagittal section through the head of a normal 42 year-old woman, showing structures of the brain, spine and facial tissues (Image: Mehau Kulyk / Science Photo Library)

http://www.newscientist.com/article/dn9969-instant-expert-the-human-brain.html

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There are 8 Basic Emotions

Think of the basic emotions like the 3 primary colours.

3 primary colours produce the whole of the colour spectrum.
8 primary emotions produce the whole of the feeling system.

Potentiator 8 BASIC EⅢ⊕+I⊕NS(8种基本情绪) SURPRISE 1 STARTLE 4

escape / avoidance

©Paul Brown, Carrie Coombs, Jane Upton

attachment

8 BASIC E田⊕+I⊕NS (8种基本情绪)



escape / avoidance

attachment



escape / avoidance

attachment

8 BASIC EⅢ⊕+I⊕NS (8种基本情绪)



escape / avoidance

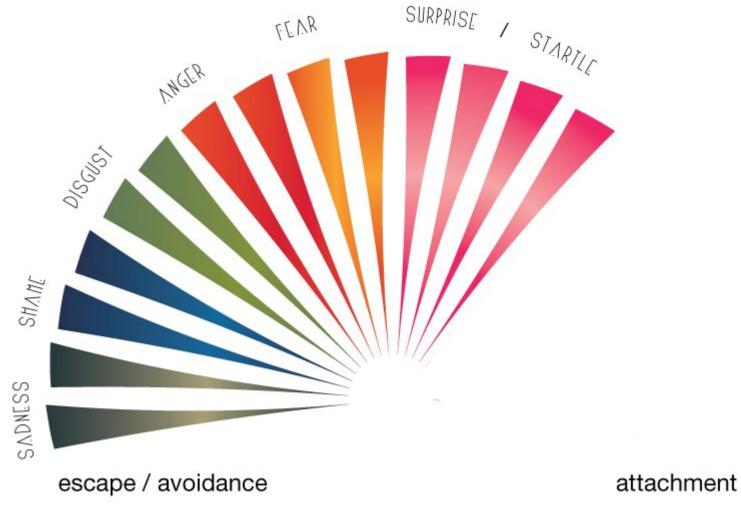
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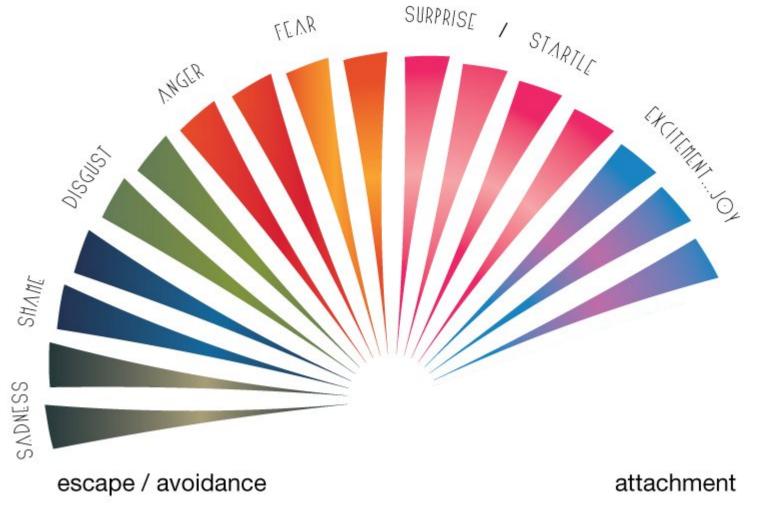
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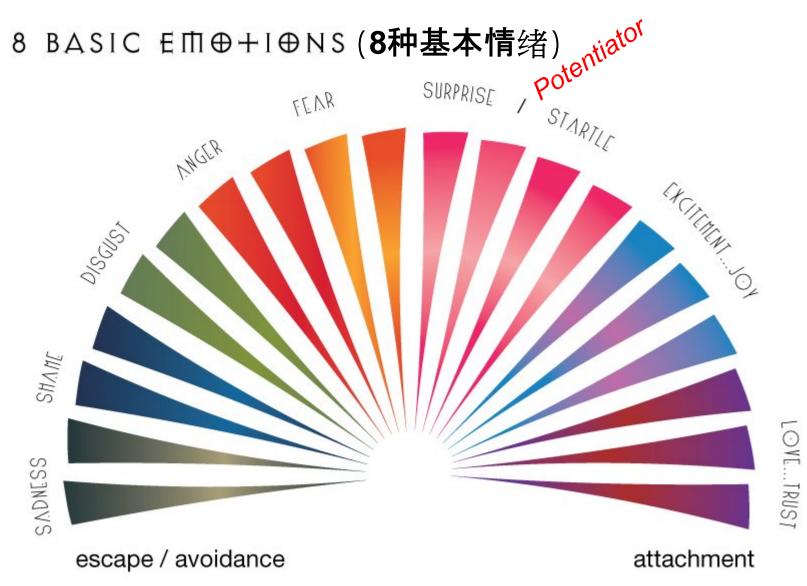


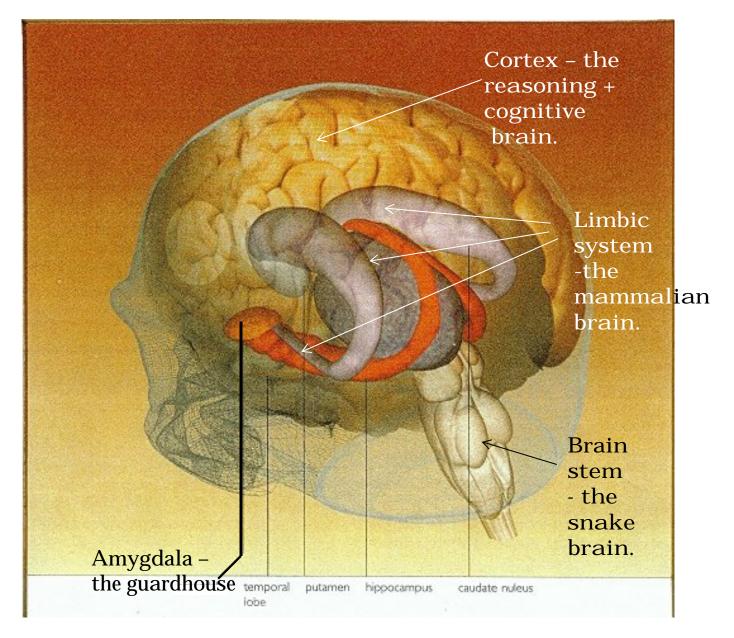
escape / avoidance

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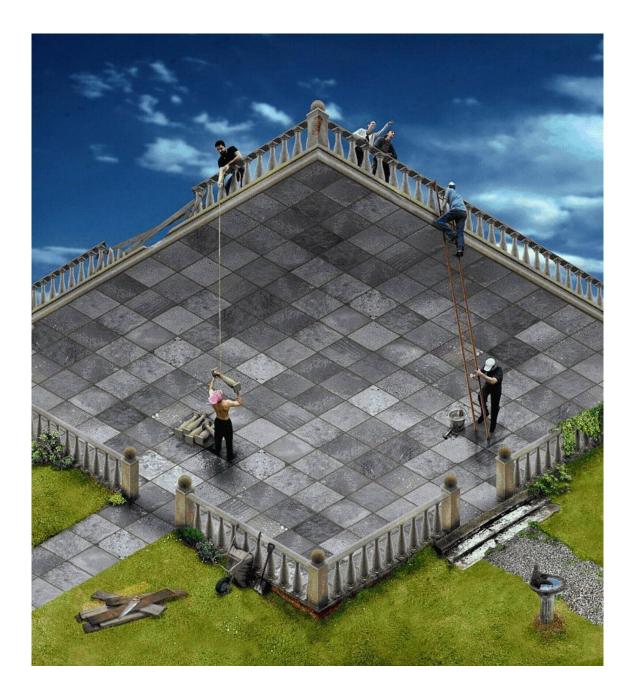




The TRIUNE BRAIN – Stem, Limbic system and Cortex. from Carter – *Mapping the Mind.*

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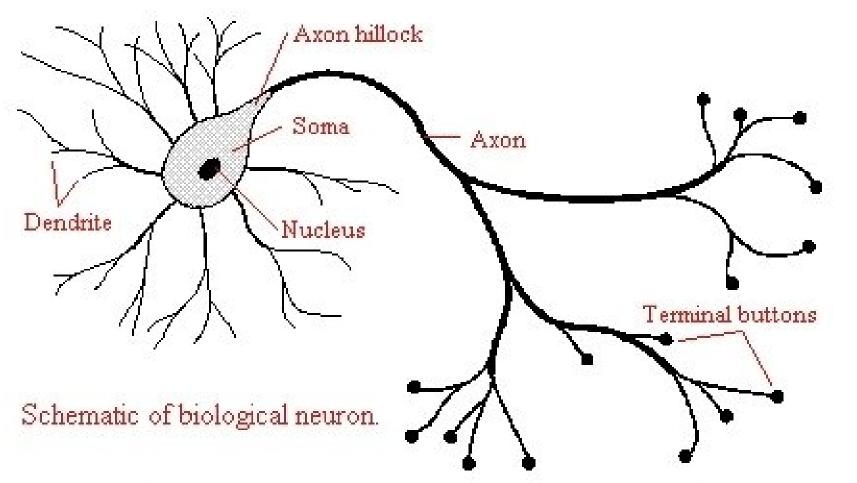


Benaud/Flickr/CC-licensed:http: www.wired.com/wiredscience/2012/01/brain-face-recognition/?utm_source=Contextly&utm_medium=RelatedLinks&utm_campaign=Previous

What do you read in this face?



How does it work?

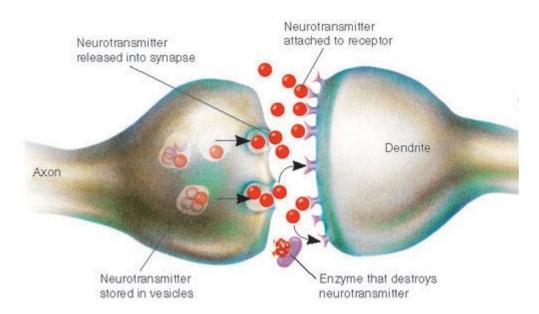


(image thanks to vv.carleton.ca/~neil/neural/neuron-a.html)



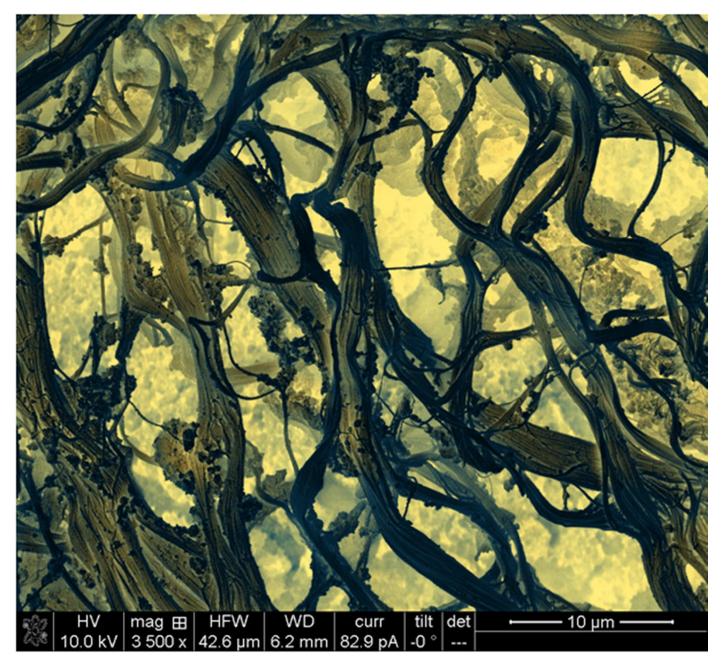


Markram: Human Brain Project, Lausanne. Functional brain simulation



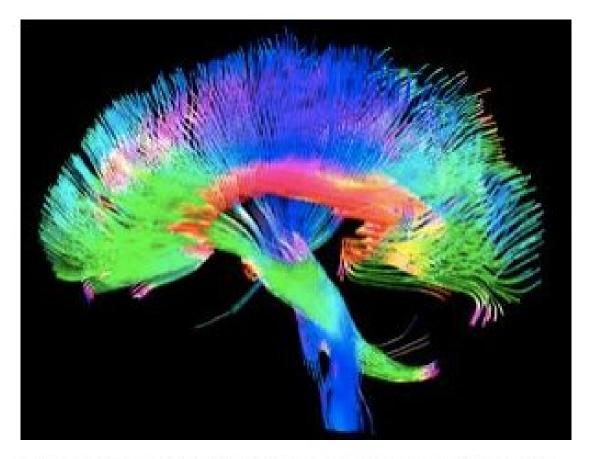
Neurotransmitters at the synapse





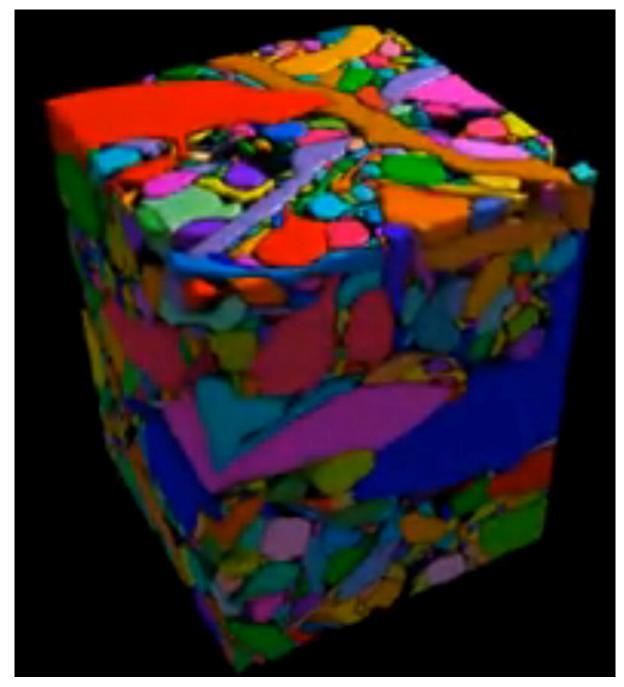
⁽Image: Badar Rashid, UCD)

http://www.newscientist.com/blogs/shortsharpscience/2012/07/forest-of-neurons-snake-throug.html



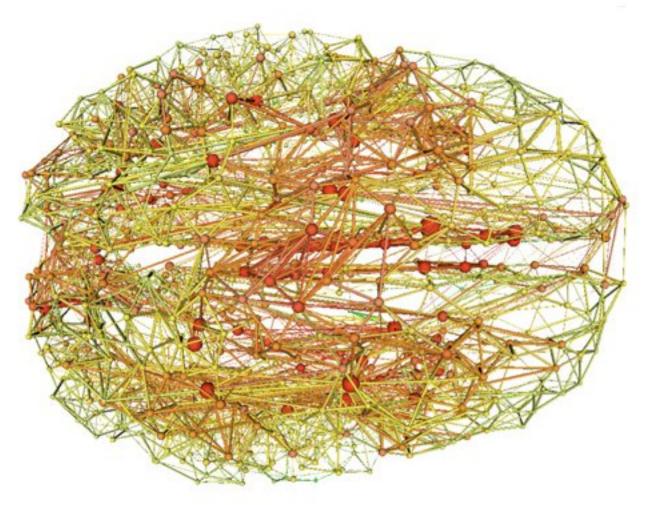
What rules your brain? (Image: Tom Barrick, Chris Clark, SGHMS/SPL) 什么在控制你的大脑?

DTI - diffusion tensor imaging DTI - 弥散张量成像



Pathways in the brain. Seung: Connectomics - MIT

The connectome with its 12 "rich club" hubs. Green means fewer connections, red means more connections (Image: Martijn van den Heuvel/University Medical Center in Utrecht)



http://www.newscientist.com/article/dn21117-the-rich-club-that-rules-your-brain.html

But what are the two halves up to?

Right brain / left brain

Left...

Pointing and propositional

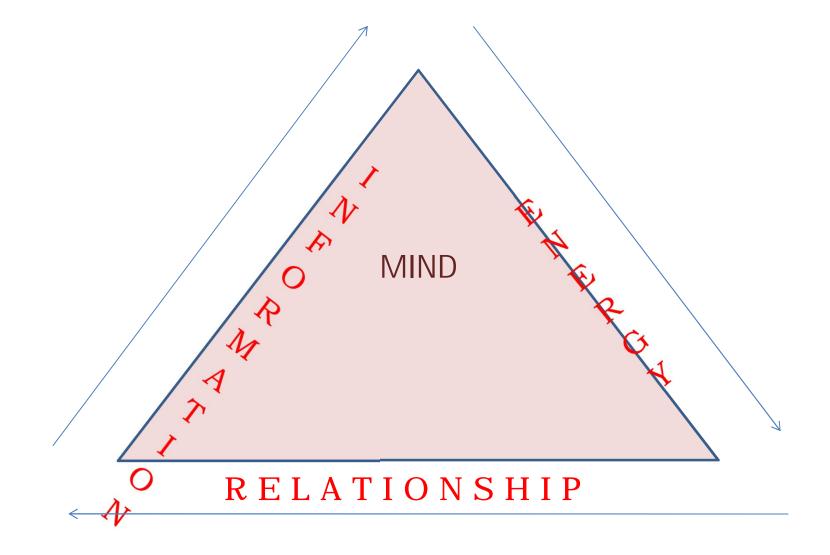
Right...

Urging and yearning

Trimble, M. Why Humans Like to Cry: Tragedy, Evolution and the Brain.

How the Mind emerges

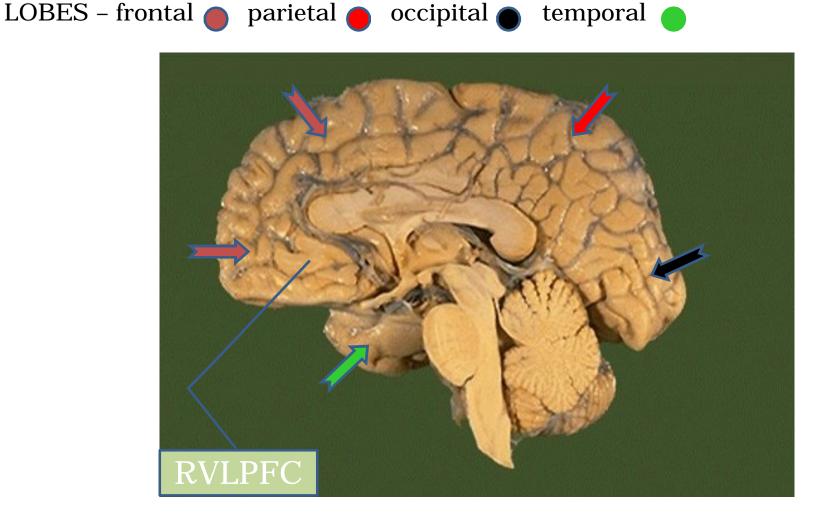
THE BRAIN CREATES OUTPUT THAT WE SEE OPERATING AS 'MIND' through managing –



No longer *"I think, therefore I am"* but *"I feel, therefore I think I am"*

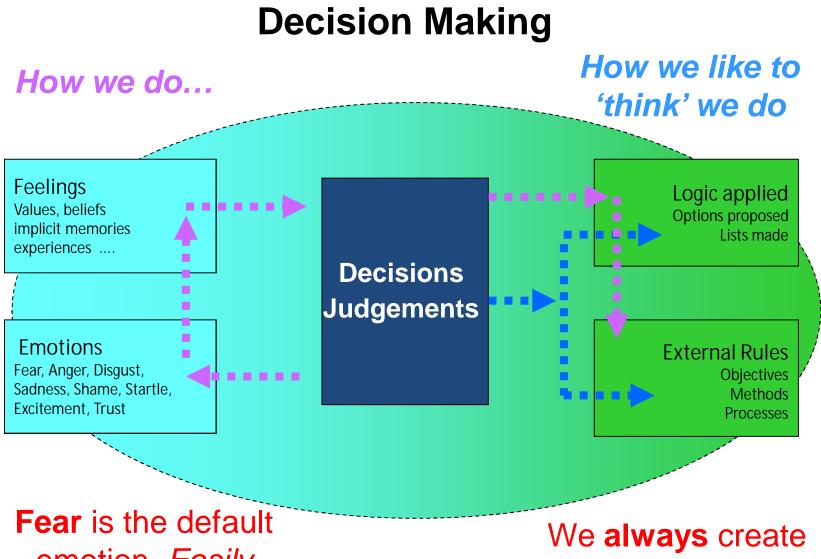
The most important single concept is that we are powered by an emotional brain and its job is to forge relationships and establish intelligent emotions.

A key decision-making area of the brain [informed by emotions as the basis of judgement]



The right ventrolateral pre-frontal cortex [RVLPFC] is coming to be seen as the key area for complex decision-making – See: Matthew Lieberman: The brain's braking system [and how to use your words to tap into it]. NeuroLeadership, 2009,2,9-14.

ry.med.utah.edu/WebPath/.../NEURANCA.html



emotion. *Easily* triggered: lowers performance.

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We **always** create a rational(ised) story: it may be coherent but not always cohesive!

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Individual and Group Motivators

8 Basic Universal	Responses
Emotions	

Startle/Surprise	Potential Survive or Engage?
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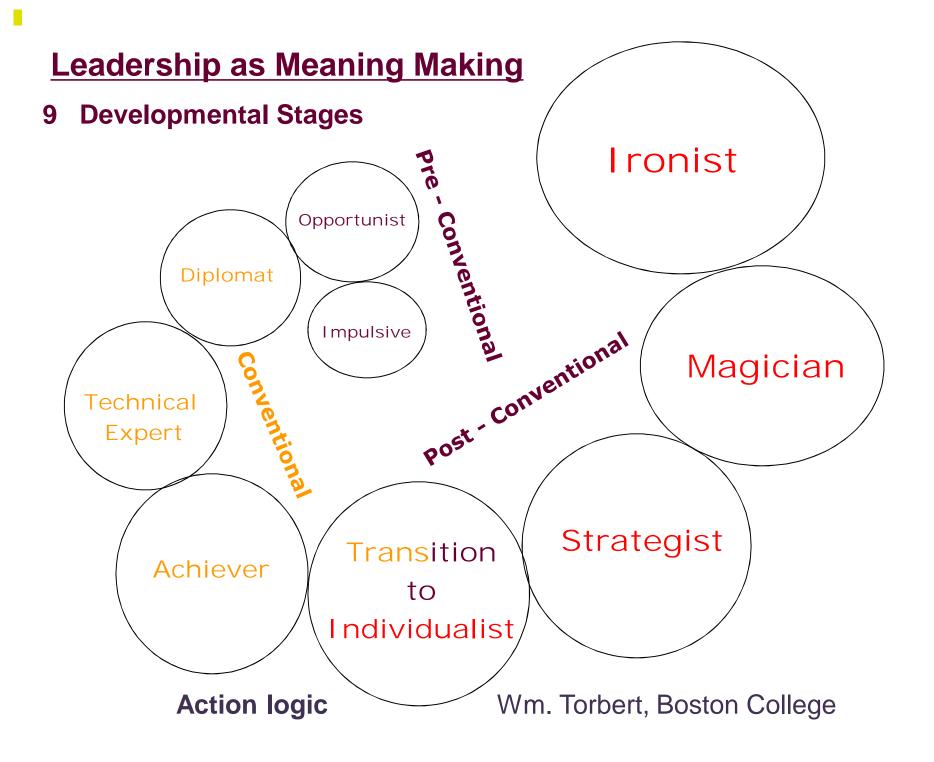
Individual and Group Motivators

8 Basic Universal Emotions	Responses
Fear	Survive Threat avoidance Defensiveness
Anger	
Disgust	
Shame	
Sadness	
Startle/Surprise	Potential Survive or Engage?

Individual and Group Motivators

8 Basic Universal Emotions	Responses
Fear	
Anger	Survive Threat avoidance Defensiveness
Disgust	
Shame	
Sadness	
Startle/Surprise	Potential Survive or Engage?
Trust	Engage
Excitement	Relate Create
Copyright @ 2011 Brenda Hales	Enjoy

The Leader Developing Here's a model of how a leader might develop.



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So what would the limbic leader look like? S/he -

- 1. is SELF-AWARE and encourages feedback from others to develop further.
- 2. is CONGRUENT internal gearing wellmeshed.
- 3. has EMPATHY can tune into others and factor that in his/her own reactions.
- 4. has INTEGRITY takes a moral perspective and goes for win/win.
- 5. is INTERPERSONALLY competent persuasive, influential, connects.

- 6. has PASSION, VISION, PURPOSE.
- 7. has FOLLOW-THROUGH no slippage.
- 8. has COURAGE of convictions accepts going against prevailing orthodoxy.
- 9. BELIEVES IN OTHERS not cynical, invests in others' growth, knows error is a way to growth, gives feedback.
- 10. WEAVES the strands of life together, not just balances them out.

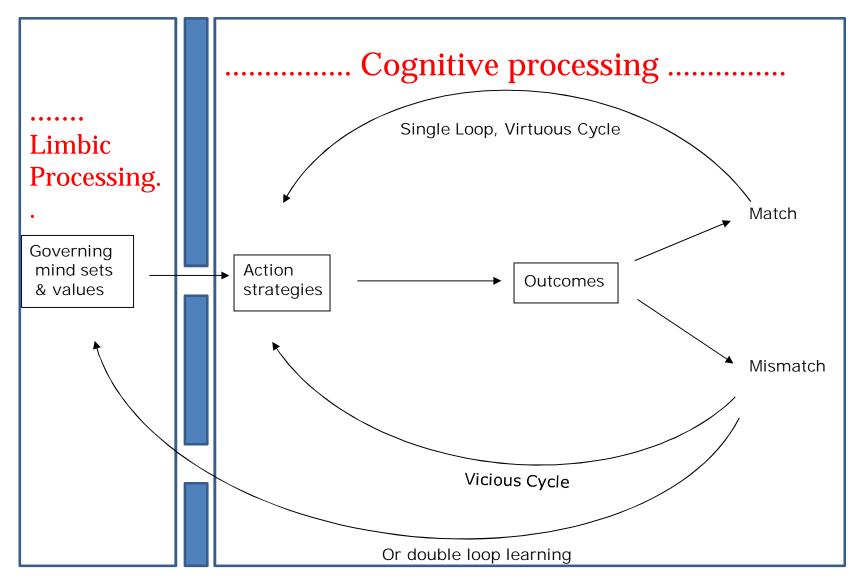
- 11. is FLEXIBLE can take various routes to same goal and is curious about others' solutions.
- 12. is EMOTIONALLY competent can shift between states appropriately, knows where the ghosts are, cares what the effects of emotions are.
- 13. is INTELLECTUALLY competent can filter the irrelevant, likes learning.
- 14. has CREATIVITY enjoys synthesizing complex variables and reaches beyond the familiar.

The limbic leader is known by having the capacity to --Connect Be courageous Be clever enough Walk own talk Inspire others into action Be worth following

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Double Loop Learning: developed from Argyris



Reframing the meaning of leadership.

