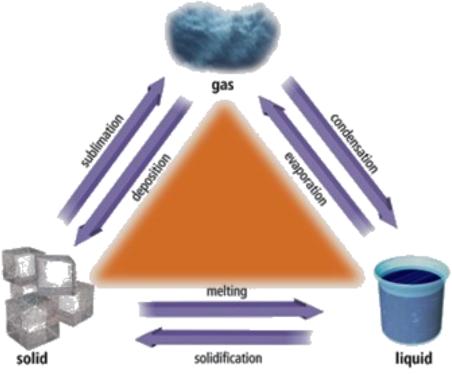


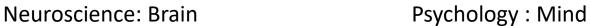


The Highest Level of Cerebral Activity I

Three States of Cognition

Philosophy: Mind behind Mind





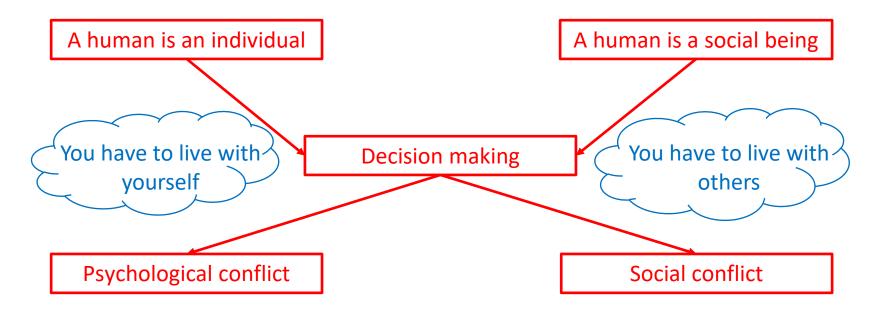


PS Deb

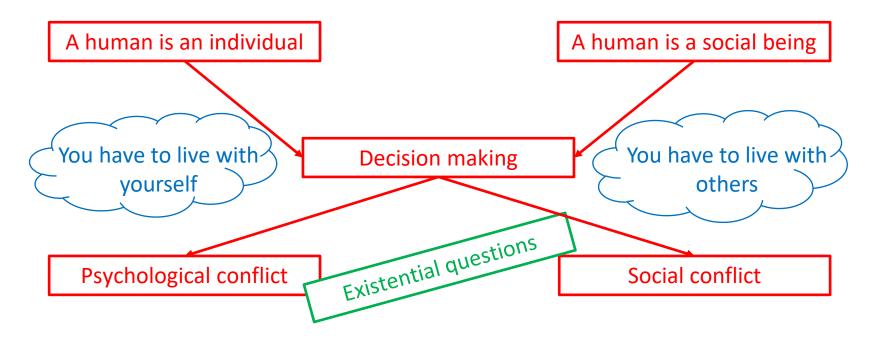




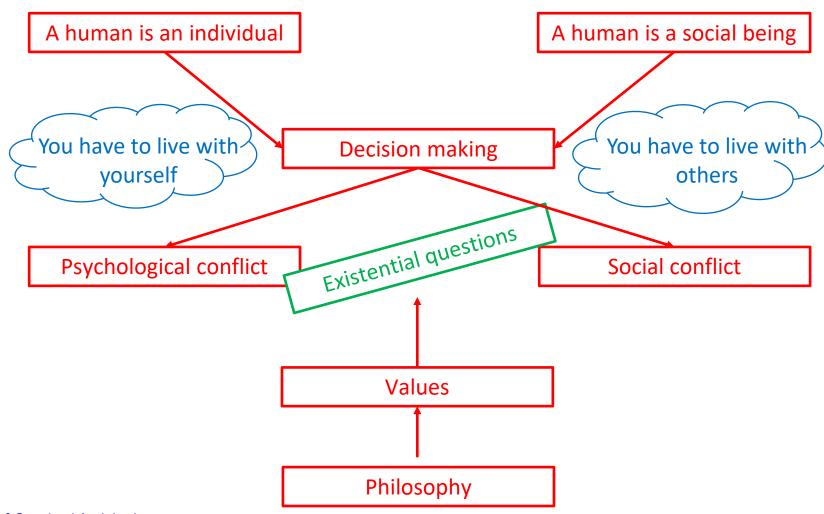














Philosophy

Philosophy of life is a personal philosophy, whose focus is resolving the existential questions about the human condition.



Philosophy

FORMAL PHILOSOPHY

Philosophy is the study of **general and fundamental problems** concerning matters such as existence, knowledge, values, reason, mind, and language.

Wikipedia

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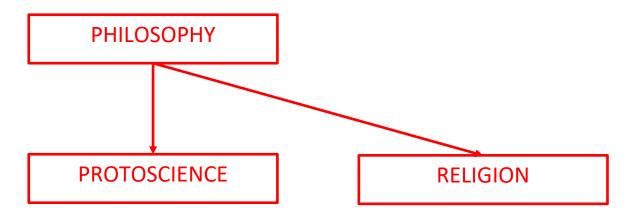
Collective consciousness

or collective conscio us is the

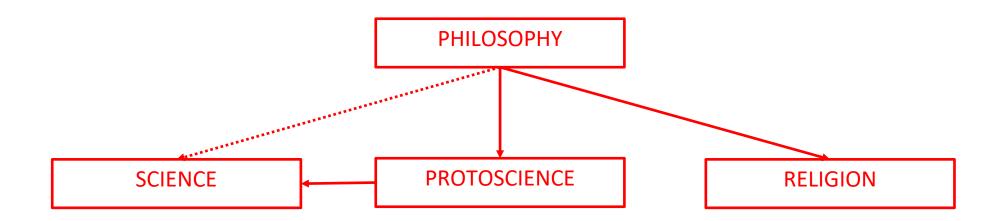
set of shared

beliefs, ideas and moral attitudes which operate as a unifying force within society.

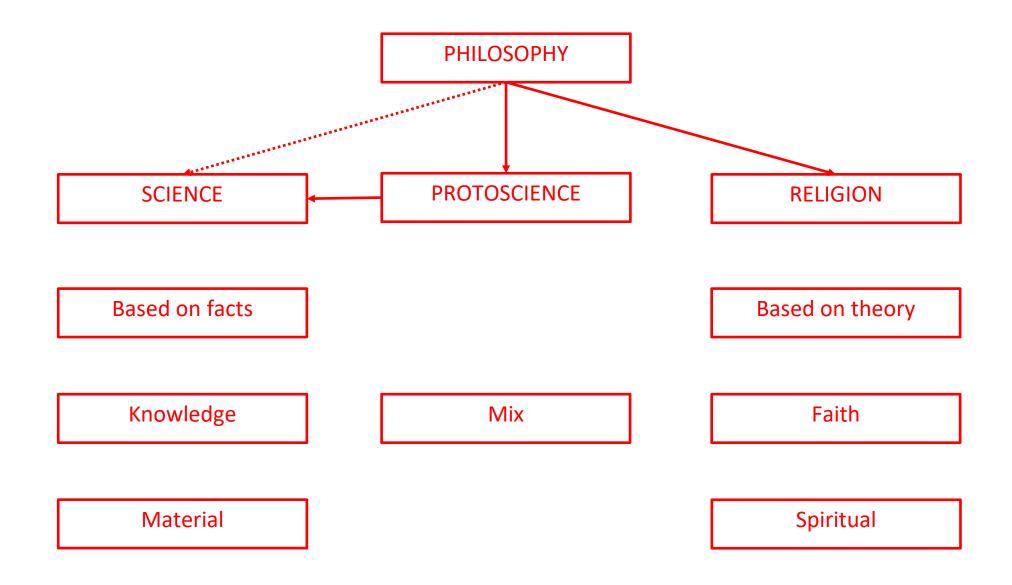




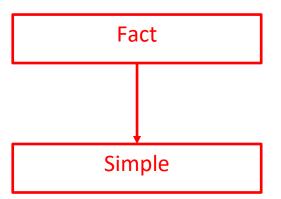


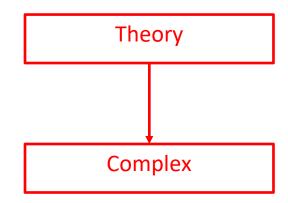




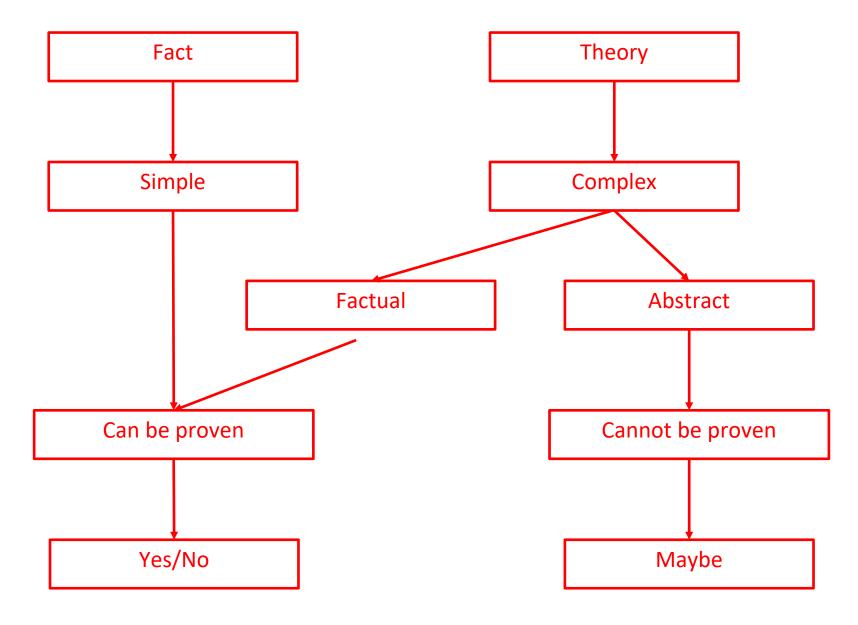




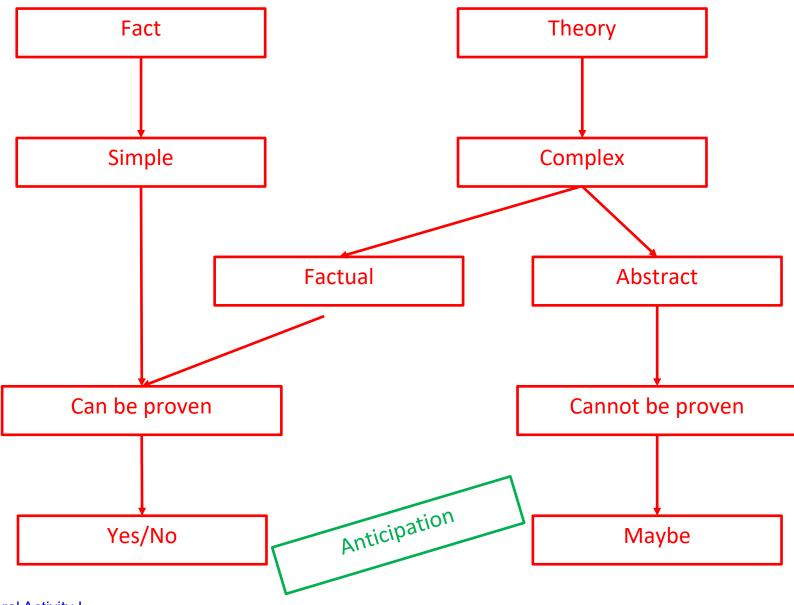








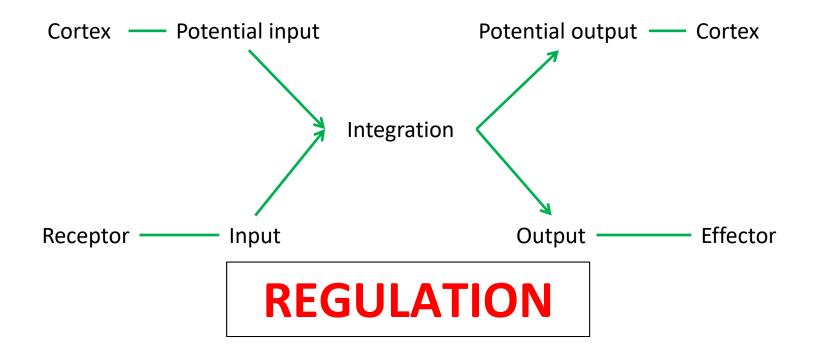






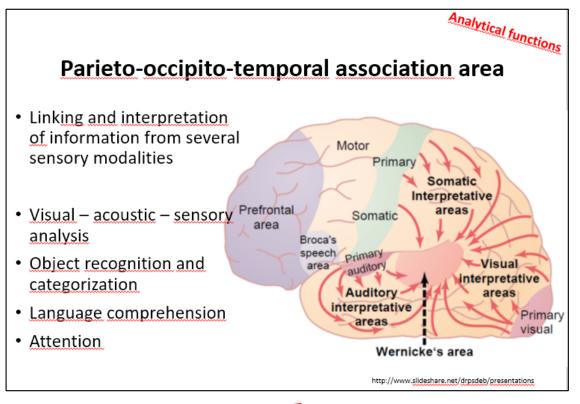
The role of nervous system

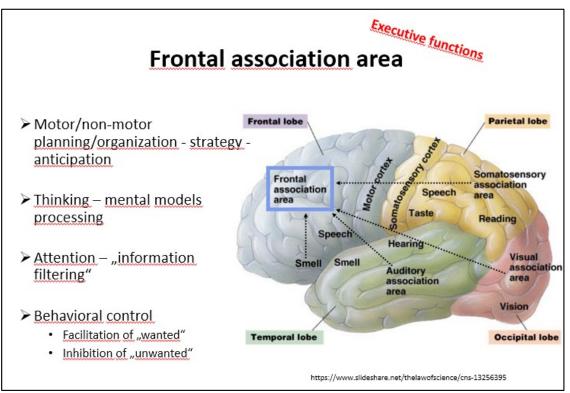
ANTICIPATION





Complementary ways of thinking



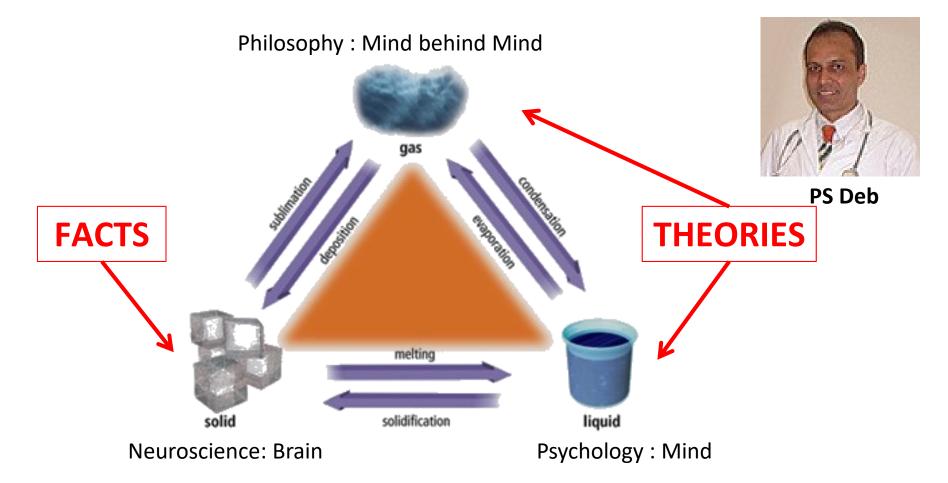


Analysis Categorization

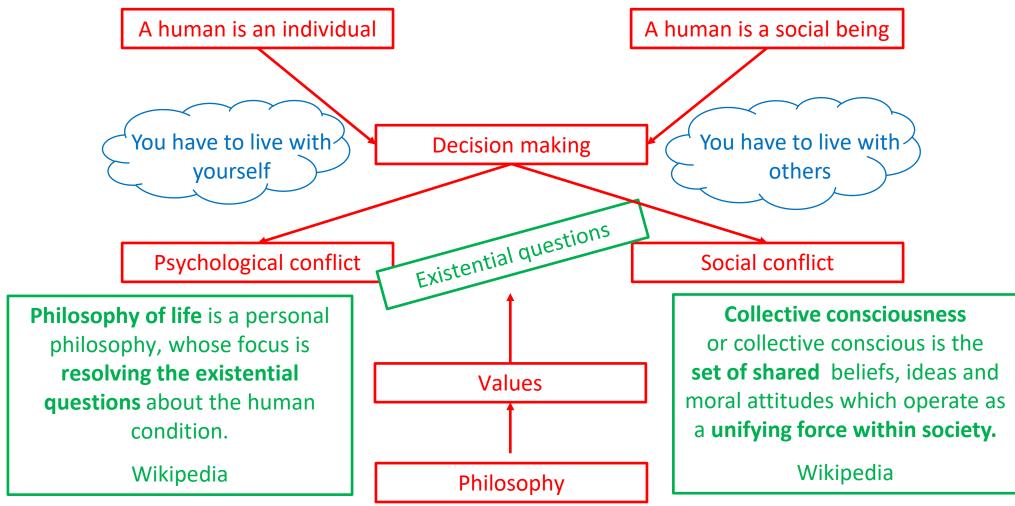
Anticipation Expectation

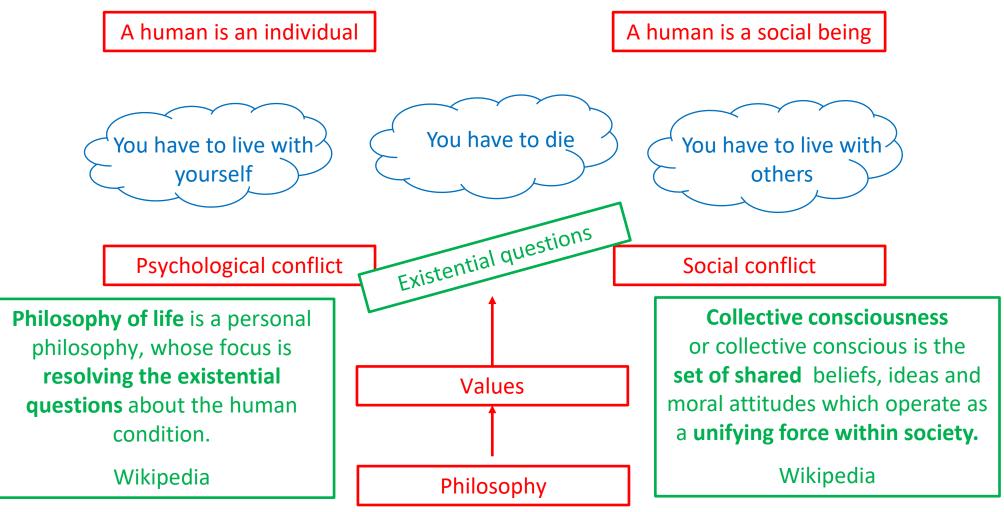


Three States of Cognition









http://www.jansokol.cz/2014/03/civilizace-kultura-a-nabozenstvi/

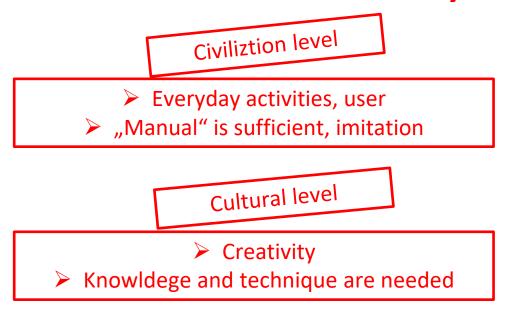
Three levels of life in society





http://www.jansokol.cz/2014/03/civilizace-kultura-a-nabozenstvi/

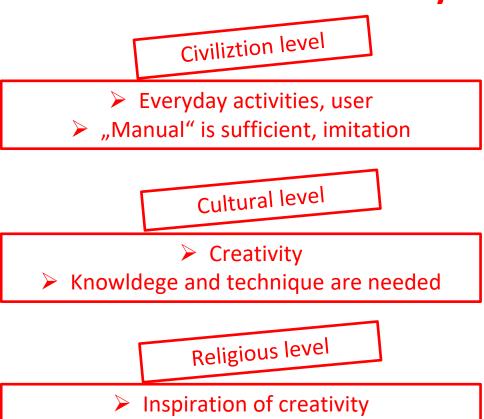
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Three levels of life in society

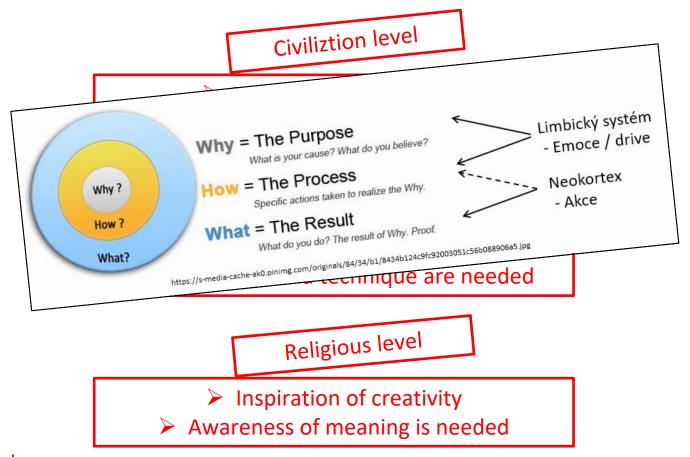


Awareness of meaning is needed



http://www.jansokol.cz/2014/03/civilizace-kultura-a-nabozenstvi/

Three levels of life in society





Culture

- the sum of knowledge
 - ✓ Material
 - √ Spiritual



https://cdn.nexternal.com/tjb/images/FC-11.jpg



https://s-media-cacheak0.pinimg.com/564x/9a/86/da/9a86da32052973bb 085dc1511d4b7102.jpg



http://previews.123rf.com/images/dja65/dja651107/dja65110700341/10025966-Stone-age-axe-Stock-Photo-tools-ancient-stone.jpg





https://en.wikipedia.org/wiki/File:Mary16thC.jpg



https://www.wikiart.org/en/leonardo-davinci/the-madonna-of-the-carnation



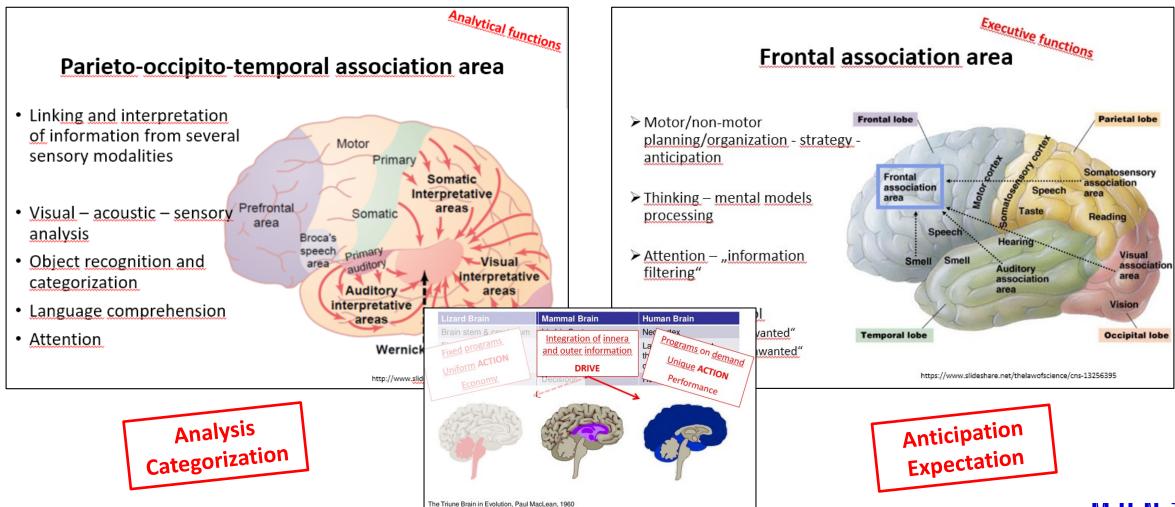
https://pixels.com/featured/1-madonna-and-child-peter-paul-rubens.html



https://www.wikiart.org/en/m-h-maxy/madonna



Complementary ways of thinking



Drive

Comp

Parieto-occipito-tempora

- Linking and interpretation of information from several sensory modalities
- Prefrontal Visual – acoustic – sensory area analysis
- · Object recognition and categorization
- Language comprehension
- Attention

Concept of the limbic system Somatic nervous system Inputs – mainly from outer environment Control – skeletal muscle Voluntary Pineal gland Modulation COMPONENTS IN **Limbic system** THE CEREBRUM COMPONENTS IN THE DIENCEPHALON Control Mamillary body

Automatic

Auditory

interpretative

areas

spee

Autonomic nervus system Inputs – mainly inner environment Control – smooth/cardiac m., glands

areas

The Triune Brain in Evolution, Paul MacLean, 1960

https://upload.wikimedia.org/wikipedia/commons/d/d1/Blausen 0614 LimbicSystem.png

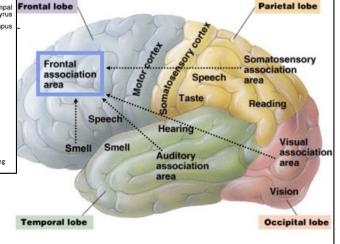
Amygdaloid body

Mammal Brain **Human Brain** vanted" Programs on demand Integration of innera Wernick and outer information wanted* Unique ACTION DRIVE http://www.slic

Drive

inking

Executive functions ssociation area



https://www.slideshare.net/thelawofscience/cns-13256395

Analysis Categorization

Anticipation Expectation



Limbic system and neocortex

Instinctive behavior

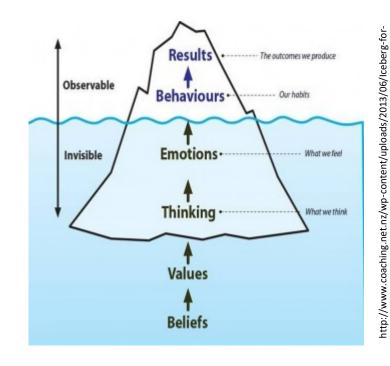
- ➤ Limbic system
- ✓I see a nice thing, so why not to steel it?

Socially enforced behavior

- Legal behavior
- ➤ Neocortex limbic system
- ✓ Theft is a crime, and punishment may come

Moral behavior

- > Legitime behavior
- ➤ Limbic system
- ✓ Stealing is a bad thing





Limbic system and neocortex

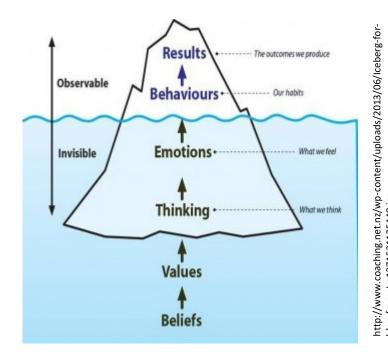
Instinctive behavior

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Socially enforced behavior

Legal bear of Fear of hbic system punishment a crime, and punishment may come







Limbic system and neocortex

Information

NEOCORTEX

VS

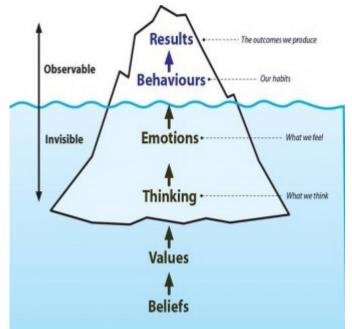
Complex information

NEOCORTEX/limbic system

VS

Values/Philosophy/Faith

Neocortex/LIMBIC SYSTEM



http://www.coaching.net.nz/wp-content/uploads/2013/06/Ic blog-from-J-e1371521135440.jpg

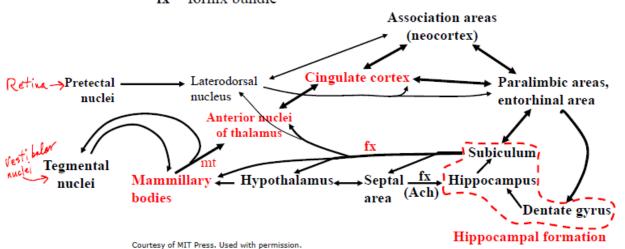


Type of **mental representation** which serves an individual to acquire, code, store, recall, and decode information about the **relative locations and attributes** of phenomena in their everyday or metaphorical spatial environment.



- Through the ventral endbrain, which became corpus striatum and basal forebrain (including much of the septal area)
 - Outputs to hypothalamus, (epithalamus, subthalamus), midbrain
 - These outputs affected locomotion and orienting movements
 - The links were plastic, so habits were formed according to rewarding effects mediated, e.g., by taste effects.
- Through the medial part of the dorsal endbrain, which became medial pallium—the hippocampal formation
 - Outputs to ventral striatum, hypothalamus, epithalamus
 - The links were plastic, but the "habits" formed were different: The association of place with good or bad consequences of approach.

mt = mammillothalamic tract fx = fornix bundle





Prof. Gerald Schneider



✓ Object

oriented

✓ Implicite

✓ Location

✓ Explcite

oriented

Schneider, G. E. Brain Structure and its Origins: In the Development and in Evolution of Behavior and the Mind. MIT Press, 2014. ISBN: 9780262026734.

Learning and memory

- Connections of striatum and hippocampus are plastic
- Plasticity is a base of learning
- Learning is a forming of long- term memory
- Declarative memory (explicit)
- Based on hippocampus
- Explicit information is stored and later recollected
- "Construction of the maps (relationships)" spatial or abstract
- Procedural memory (implicit)
- Based on striatum
- Habitual learning motor skills, but also social habits
- "Construction of the algorithms"

Location oriented: Where am I and what has happened here?

Object oriented:
Can I eat it and how
to eat it?



Cognitive map term definition

Edward C. Tolman

1948

Anatomical correalte?

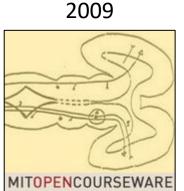
Gerald Schneider



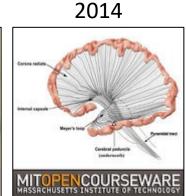
https://en.wikipedia.org/wiki/Edwar d_C._Tolman



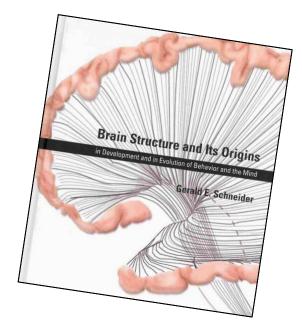
O'Keefe and Nadel ′70s And others



https://itunes.apple.com/us /podcast/brain-structureand-its-origins-2009/id385157530?mt=2



https://itunes.apple.com/us/ podcast/brain-structure-andits-origins-2014/id944293984?mt=2





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Wikipedia

Later generalized to refer to a kind of semantic network representing an individual's personal knowledge or schemas.

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Wikipedia

- ✓ Complex
- ✓ Unique
- ✓ Egocentric, but multiple

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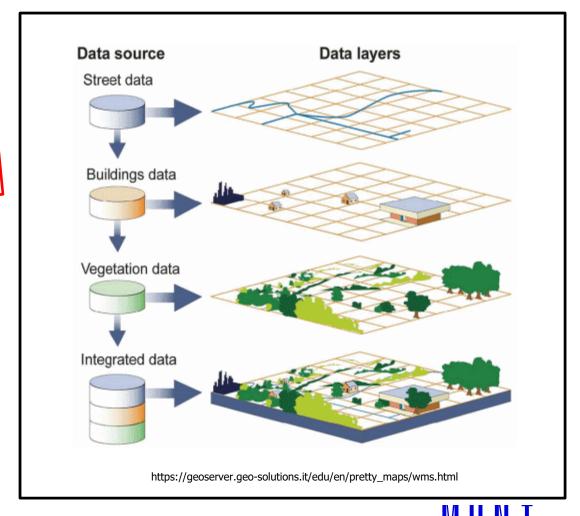


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inking

Executive functions ssociation area **Parietal lobe** rontal lobe Somatosensory Frontal association association Speech area Reading Speech Hearing Visual Smell Smell association Auditory association Vision Temporal lobe **Occipital lobe** https://www.slideshare.net/thelawofscience/cns-13256395

Analysis Categorization

Anticipation Expectation



The Triune Brain in Evolution, Paul MacLean, 1960

#