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# The Highest Level of Cerebral Activity I





**PS Deb** 

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https://www.betexa.cz/fiat-126p-acropolis-rally



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## Philosophy

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

Wikipedia

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# **Philosophy**



**Collective** consciousness or collective conscio us is the set of shared beliefs, ideas and moral attitudes which operate as a unifying force within society.

COLLECTIVE

CONSCIOUSNESS

Wikipedia











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## **Complementary ways of thinking**







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

## Three levels of life in society

**Civiliztion level** 

Everyday activities, user

"Manual" is sufficient, imitation

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



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



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

## Three levels of life in society



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### Culture - the sum of knowledge ✓ Material ✓ Spiritual









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

http://www.thebushcraftstore.co.uk/ekmps/shops/bduimportslt d/images/condor-greenland-pattern-axe-[2]-12105-p.jpg





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



https://www.wikiart.org/en/leonardo-da-

vinci/the-madonna-of-the-carnation







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

## **Complementary ways of thinking**





## 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



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## Limbic system and neocortex

#### **Instinctive behavior**

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





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## Limbic system and neocortex





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- Two major links between olfactory system and the motor systems of the midbrain
  - 1) 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 <u>habits</u> were formed according to rewarding effects mediated, e.g., by taste effects.
  - 2) 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.





http://www.slideshare.net/drsunilsuthar/neurobiology-of-emotion

#### Prof. Gerald Schneider

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- ✓ Object oriented
- ✓ Implicite

✓ Location oriented

✓ Explcite

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# 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



https://en.wikipedia.org/wiki/Edwar d\_C.\_Tolman

Anatomical correalte?

Gerald Schneider



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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