

The management of learning:

“Implications from needs and emotions for the future of learning.”





https://thinktanks.by/files/401/602/langeweile_unter_der_reichstagskuppel.jpg

Presentation Outline

- I. Some Ideas about learning
- II. Principles of Connectivism
- III. Learning in a digital world
- IV. What does all this have to do with emotion and needs?
- V. The Felix-App
- VI. Implications for the management of learning

The Black Box

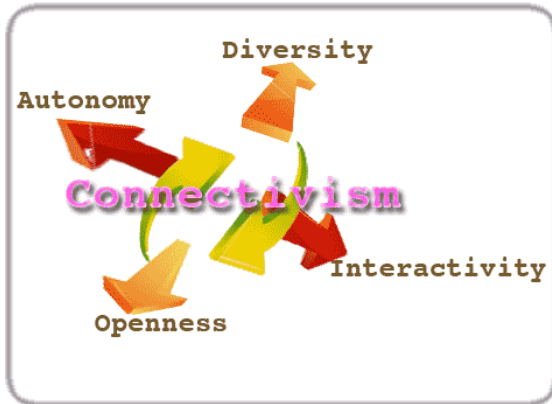


<https://upload.wikimedia.org/wikipedia/commons/4/44/Blackbox3D.png>

Good to know about learning...

- **Experience based** (Dewey 1938, Piaget 1978)
- making mistakes is important
- **Process-oriented** (Apelojg 2015)
- **System-oriented** (Luhmann 1997, Maturana/Varela 1997)
- Autopoiesis
- **Intrinsic motivation** (Deci/Ryan 1985)
- **Emotions** (Pekrun/ Schutz 2007) **and Needs**

Connectivism



(from: <http://mms.uni-hamburg.de/epedagogy/mmswiki/index.php5/Connectivism/index.htm>
/01.03.2018)

Learning and knowledge rests in diversity of opinions.

- Learning is a process of connecting specialized nodes or information sources.
- Learning may reside in non-human appliances.
- Capacity to know more is more critical than what is currently known
- Nurturing and maintaining connections is needed to facilitate continual learning.
- Ability to see connections between fields, ideas, and concepts is a core skill.
- Currency (accurate, up-to-date knowledge) is the intent of all connectivist learning activities.
- Decision-making is itself a learning process. Choosing what to learn and the meaning of incoming information is seen through the lens of a shifting reality (...).

Siemens 2004, P . 5)

Teaching # Learning

Two ways of thinking

Thinking industrial age	Learning industrial age	Thinking digital age	Learning digital age
linear	Teacher oriented: One to all	Reticulated multicausal interactiv	Learner-oriented All to all Project oriented
Dichotomous either ... or	Right or wrong Question... if	as well ... as and neither	Ambivalence Question to what extent
universal meanings	Teacher is definitely the subject of learning	Personal meaning	Learners definitely the subject of learning

(Rosa, L 2014, p. 9)

Two ways of digital learning

1. Digital Media as tools = additive thinking models
2. New understanding of learning = learning 2.0 changing learning habits and culture at all
(Rosa, L. 2014, p. 9)

E-Learning in the future

E-learning 1.0	E-learning 2.0
Learning Environment (LMS) = Island in the internet with different content and tools	Learning Environment (PLE)= Portal in the internet with content and tools
Teacher brings all resources to the island	Teacher shows different ways and aggregates resources
Learners use the given content and tools	Learners configure their personal Learning and working environment

(e.g. Kerres 2006 out of Gaiser/Thillosen 2009)



Karla Fritze: http://www.uni-potsdam.de/uploads01/pics/2017_173_Vorlesung_UP__Campus_Gribenitzsee_Karla_Fritze__klein_.jpg

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traditional vs. digital learning

	traditional	digital
duration	90 Min	Not fixed
Place	Lecture hall	Not fixed
Period	Do 10.00-12-00	Not fixed

Future of learning

- Individual (choose your own rythm)
- No time and duration restrictions
- Collaborative
- Openness
- Big Data and learning analytics
- Always available

What does all this have to do with emotions and needs?



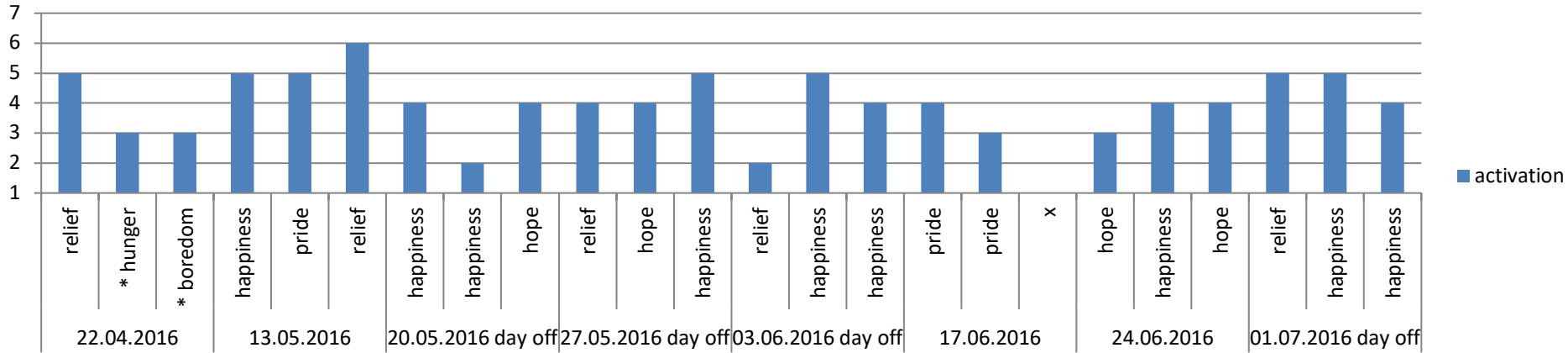
Duality of emotions and cognition



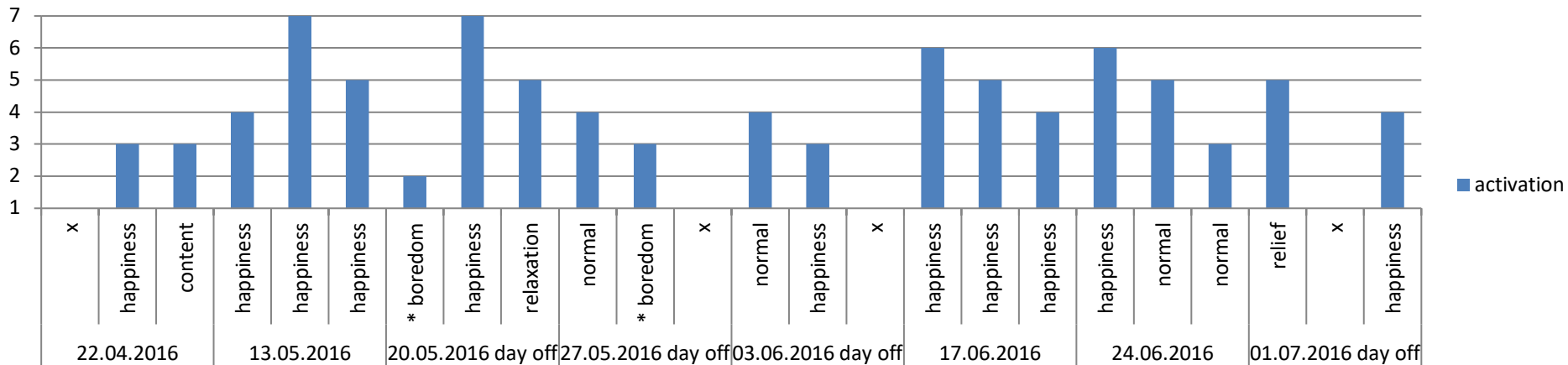
(Damasio, Le Doux. Apelojg 2010)

Results: Emotions & Activation

Codi (male, 27) - emotions & activation



Cara (fem., 28) - emotions & activation



Felix-App

- Feedback App about Emotion and Needs during classes
- Self-Reflection App
- In the future more focusing on skin conductance, heart rate and other physiological parameters
- <http://n-vm-01.uni-potsdam.de/felix-editor/>

Management of learning (traditional)

- Rules
- Routines
- Praise
- Misbehavior
- Engagement

(national council on teacher quality 2014)

Management of learning (digital)

- open and challenging working tasks
- process-oriented: Where are you know? What is working well? What do you need?
- individual support
- emotion and need oriented
- familiar with digital world
- expert in analog and digital communication

Teacher in the future

- Familiär with the digital world (life long learning)
- Creator of open learning environments
- Expert in communication
- Dealing with different personalities/emotions needs/capabilities
- Flexible and open for different ways

Teacher in the future II

	traditionell teaching	Digital teaching
Goal orientation	Teaching goal oriented	Learning goal orientated
Structure	Clear schedule	Open environments
Way of teaching	lecture	Individuell support
Managemet of learning	Teacher oriented	Learner orientated

THANK YOU FOR YOUR ATTENTION

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