A Linguistic Perspective on Emotions Egyptian data in typological perspective

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17.12.2019 *Visualiser les émotions dans l'Égypte ancienne : images et textes*



Goal of the talk

> To showcase (visual) methods

- o for identifying universal structures in emotion semantics
- o for unveiling language/culture specific patterns of expression
- To demonstrate that typological approaches may lead to new insights for Egyptian philology



Outline of the talk

➢ Introduction

- Linguistic approaches to emotions
- Expressions of emotion in Ancient Egyptian



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Semantic maps

- Basic principles
- Inferring maps from large-scale typological data



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- Introduction
 - Linguistic approaches to emotions
 - Expressions of emotion in Ancient Egyptian
- Semantic maps
 - Basic principles
 - Inferring maps from large-scale typological data
- Towards a semantic map of emotion concepts
 - Properties, processes, and entities
 - Situating Ancient Egyptian in the broader picture
- Conclusions





➤ Emotions

- Important element of human existence
- People feel emotions
- People express emotions
- People speak of emotions (Athanasiadou & Tabakowska 1998)

> Already in 1999:

 "Feelings are now at the forefront of interdisciplinary investigations, spanning the humanities, social sciences, and biological sciences" (Wierzbicka 1999: 1)

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Words and emotions

- Expressive vs. descriptive emotion words

 'wow' vs. 'joy'
- 2. Basic vs. non basic
 o 'anger' vs. 'annoyance'
- 3. Words and expressions denote *various aspects of emotion concepts*, such as intensity, cause, control, etc.
 - They can be metaphorical and metonymical
 - \circ Boiling with anger \rightarrow ANGER IS HOT FLUID
 - Have cold feet \rightarrow DROP IN BODY TEMPERATURE STANDS FOR FEAR
 - Metaphors and metonymies play a significant role in the way we conceive of the emotions (see Kövecses 1990, among many others)

(Kövecses 1995)

- In the Swadesh 200-word list, only one concept: FEAR (Swadesh 1952: 456-457) \geq
 - > cf. Kövecses' (1990) basic-level emotion concepts (see also Athanasiadou & Tabakowska 1998):
 - ➢ FEAR
 - > ANGER
 - > PRIDE
 - ➢ RESPECT
 - Wierzbicka (1999):
 - ➢ FEAR-like
 - > ANGER-like
 - > SHAME-like

≻Ekman (1992; 1993) — *Psychology* FEAR, ANGER, SADNESS, DISGUST, SURPRISE, JOY



The issue of translatability

- Some languages lack exact lexical equivalents for such emotions as JOY, DISGUST, FEAR, SURPRISE, SADNESS
 - Yankunytjatjara has no near-equivalent to DISGUST
 - Tahitian has no near equivalent to SADNESS (Goddard 2001)
- Some languages have more than one near-equivalent for an emotion
 - German 'Angst' and 'Furcht' for FEAR
 - Malay 'terkejut' and 'terperanjat' for SURPRISE (Goddard 2001)
- Untranslatability (culture-specific emotion words)
 - Russian 'tosca' [anxiety, sadness, boredom]
 - Japanese 'amae' [a pleasurable sense of dependence]
 - German 'Schadenfreude' [the feeling of rejoicing at somebody else's misfortunes]

(for overviews, see Fontaine et al. 2013, Ogarkova 2013)





Jackson et al. *to appear*. "Variation and Structure in Emotion Semantics Across a Global Sample of Languages"

- Emotion concepts vary in meaning across cultures, but not without limit
- Geographically closer languages co-express emotion concepts in more similar ways than geographically distant languages







- Onomasiological approaches to specific emotions
- Writing and emotions
- Cognitive linguistics and metaphor theory



Untersuchungen zu Idiomatik und Metaphorik von Ausdrücken mit *jb* und *h3tj*

BREATHING FLESH CONCEPTIONS OF THE BODY IN THE ANCIENT EGYPTIAN COFFIN TEXTS

2009



THE CARSTEN NIEBUHR INSTITUTE OF NEAR EASTERN STUDIES

Dissertation zur Erlangung des Doktorgrads an der Philosophischen Fakultät der Georg-August-Universität Göttingen

vorgelegt von

María Isabel Toro Rueda aus Madrid (Spanien) M. Salah EL-KHOLI 2003

Das Herz in der Bedeutung "Verstand" und "Gefühl"





Cf. emotion vs. feeling (Scherer 2013)













To appear in Kiersten Neumann and Allison Thomason (Eds.), Handbook of the Senses in the Ancient Near East. London: Routledge/Taylor and Francis.

Metaphors of sensory experience in Ancient Egyptian texts: Emotion, personality and social interaction.

Camilla Di Biase-Dyson and Gaëlle Chantrain

- Sight: colours, shades and luminosity
- Sound: noise vs. silence
- Taste: sweet vs. bitter
- Touch: hot *vs*. cold, texture and surfaces

Smell



- Onomasiological approaches to specific emotions
- Writing and emotions
- Cognitive linguistics and metaphor theory

No attempt at studying the Ancient Egyptian's expressions of emotion in a typological perspective



- 'A semantic map is a geometrical representation of functions (...) that are linked by connecting lines and thus constitute a network' (Haspelmath 2003)
- A semantic map is a method for visually representing cross-linguistic regularity in semantic structure based on patterns of co-expression

(Georgakopoulos & Polis 2018)



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(Georgakopoulos & Polis 2018)

Form	Language	SMELL (PERCEIVE)	HEAR	LISTEN	FEEL	SEE	TASTE (SOMETHING)	UNDERSTAND)
thin55	Changsha	1	1		0	0	0	0	0
ak	Gurdjar	1	1		0	0	1	0	0
sentire	Italian	1	1		0	1	0	0	0
clywed	Welsh	1	1		0	0	0	0	0
nenglengay	Sanapaná	1	1		0	0	0	0	0
lingaiyi	Lengua	1	1		0	1	0	1	0
dai3n@n6	Nung-Ninbei	1	1		0	0	0	0	0
klevet	Breton	1	1		0	0	0	0	0
hnov	White Hmong	1	1		0	1	0	0	0
eta	Kali'na	1	1		0	0	0	0	1
indr	Moresada	1	1		0	0	0	0	0
theng5	Mulam	1	0	1	1	0	0	0	0
ka31ngiet33	Bulang	1	0	1	1	0	0	0	0
zu21	Tujia	1	0)	1	0	0	0	0

Form	Language	SMELL (PERCEIVE)	HEAR	LISTEN	FEEL	SEE	TASTE (SOMETHING)) UNDERSTAND	2
thin55	Changsha		1 1		0	0	0	0	0
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sentire	Italian		1 1		0	1	0	0	0
clywed	Welsh		1 1		0	0	0	0	0
nenglengay	Sanapaná		1 1		0	0	0	0	0
lingaiyi	Lengua		1 1		0	1	0	1	0
dai3n@n6	Nung-Ninbei		1 1		0	0	0	0	0
klevet	Breton		1 1		0	0	0	0	0
hnov	White Hmong		1 1		0	1	0	0	0
eta	Kali'na		1 1		0	0	0	0	1
indr	Moresada	· · · · · · · · · · · · · · · · · · ·	1 1		0	0	0	0	0
theng5	Mulam		1 ()	1	0	0	0	0
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dai3n@n6	Nung-Ninbei	· · ·	1	1	0	0	0	0	0
klevet	Breton	· ·	1	1	0	0	0	0	0
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Semantic maps – How are they build?

Based on empirical linguistic data (patterns of co-expression)

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clywed	Welsh		1 1		0	0	0	0	0
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- More corsslinguistic data
 - \Rightarrow more constraints

Semantic maps – How do we collect data?



Semantic maps – How do we collect data?



Semantic maps – How do we collect data?



"ideally (...) it should be possible to generate semantic maps automatically on the basis of a given set of data" (Narrog & Ito 2007: 280)

Regier, Khetarpal, and Majid showed that the semantic map inference problem is "formally identical to another problem that superficially appears unrelated: inferring a social network from outbreaks of disease in a population" (Regier *et al.* 2013: 91)

- What's the idea?
 - Consider a group of social agents (represented by the nodes of a potential graph)



- What's the idea?
 - If one observes the same disease for five of these agents (technically called a constraint on the nodes of the graph)



- What's the idea?
 - One can postulate that all the agents met, so that all the nodes of the graph are connected (10 edges between the 5 nodes)



- What's the idea?
 - This is neither a very likely, nor a very economic explanation



- What's the idea?
 - But this is precisely what a colexification network does



- What's the idea?
 - The goal would be to find a more economical solution and to have all the social agents connected with as few edges as possible, but still accounting for all the observations



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 - The goal would be to find a more economical solution and to have all the social agents connected with as few edges as possible, but still accounting for all the observations



- How does it transfer to semantic maps?
 - Nodes are meanings



- Nodes are meanings
- Constraints are patterns of co-expression (connectivity hypothesis)



- Nodes are meanings
- Constraints are patterns of co-expression (connectivity hypothesis)
- One connects the nodes economically based on these constraints (economy principle)



- Nodes are meanings
- Constraints are patterns of co-expression (connectivity hypothesis)
- One connects the nodes economically based on these constraints, starting with the edge(s) that accounts for the most frequent constraint(s)



- How does it transfer to semantic maps?
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Meaning	1	2	3	4	5
Polysemic item A	٧	V			
Polysemic item B		V	V	V	
Polysemic item C			V	V	V

INPUT (lexical matrix)



ALGORITHM (python script)



RESULT (semantic map)



Which concepts?



Which concepts?

			Concepticon.clld.org				C			
👸 Conc	cepticon ^н	ome	Concepts	Concept sets	Concept lists	Compilers	Sources			
Concept sets Showing 1 to 100 of 132 entries (filtered from 3,588 total entries) ← Previous 1 2 Next → 0 ±										
ID A	Name	Defin	iition				¢	Semantic field	Ontological category	Representation
Search	Search	Sea	rch					Emotions \$	any 🜲	Search
1	CONTEMPTIBLE	Deser	ving of contem	pt or scorn.				Emotions and values	Property	1
3	BRAVE	Havin	g or characteriz	ed by courage.				Emotions and values	Property	12
13	DECEIT	The a	ct or practice o	f deceiving.				Emotions and values	Person/Thing	7
26	UNPLEASANT	Not to	one's liking.					Emotions and values	Property	2
39	KEEN	Full of	f or characterize	ed by enthusiasm.				Emotions and values	Property	2
40	ENVY	A feel posse	ing of disconte	nt or covetousness	with regard to and	ther's advantag	es, success,	Emotions and values	Person/Thing	8
45	EVIL	Intenc	ling to harm or	being/acting ethica	ally wrong.			Emotions and values	Property	12
56	BAD LUCK	An un	desirable event	such as an accide	ent.			Emotions and values	Person/Thing	6
82	ANGER	Bellige sins).	erence aroused	by a real or suppo	osed wrong (person	ified as one of t	he deadly	Emotions and values	Person/Thing	8
91	INSOLENT	Unres	trained by conv	vention or propriety	<i>I</i> .			Emotions and values	Property	2

Which concepts?

Properties

AMAZING ANGRY ASHAMED ASTONISHED BAD BEAUTIFUL BORING BRAVE CLEVER CONTEMPTIBLE CORRECT (RIGHT) CRUEL CUNNING DEAR DILIGENT DREADFUL EVIL EXACT FAITHFUL GENTLE GLOOMY	GREEDY HAPPY HONEST IMPORTANT INSOLENT KEEN KIND OR POLITE LOVELY MERRY PASSIONATE PROUD RUDE SAD SHY SORROWFUL SURPRISED TRUE UGLY UNPLEASANT VULGAR
GENTLE	VULGAR
GLOOMY	WRONG
GOOD	

Action/process

BE ANGRY	HOPE
BECOME ANGRY	KISS
CARP	LAUGH
CHOOSE	LIE (MISLEAD)
CRY	LIKE
DARE	LOVE
DELIGHT	PLAY
DESIRE	REGRET
EMBRACE	REJOICE
FEAR (BE AFRAID)	RESPECT (SOMEBODY)
FEAR OR FRIGHTEN	REVENGE
FLIRT	SMILE
FORGIVE	WANT
GRIEVE	WORRY
GROAN	
HATE	

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Entity/thing

ANGER ANXIETY BAD LUCK BLAME	INCLINATION JEALOUSY JOY MISTAKE
CUNNING PERSON	PAIN PITY
DANGER	PRAISE
DECEIT	RESPECT (NOUN)
ENVY	SHAME
FAULT	TEAR (OF EYE)
FEAR (FRIGHT)	TRUTH
GOOD LUCK	UNTRUTH
GRIEF	

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Which concepts?

Properties

AMAZING	GREEDY
ANGRY	HAPPY
ASHAMED	HONEST
ASTONISHED	IMPORTANT
BAD	INSOLENT
BEAUTIFUL	KEEN
BORING	KIND OR POLITE
BRAVE	LOVELY
CLEVER	MERRY
CONTEMPTIBLE	PASSIONATE
CORRECT (RIGHT)	PROUD
CRUEL	RUDE
CUNNING	SAD
DEAR	SHY
DILIGENT	SORROWFUL
DREADFUL	SURPRISED
EVIL	TRUE
EXACT	UGLY
FAITHFUL	UNPLEASANT
EVIL	TRUE
EXACT	UGLY
FAITHFUL GENTLE GLOOMY GOOD	UNPLEASANT VULGAR WRONG

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ANGRY	TRUE
ASHAMED	UGLY
BAD	WRONG
BEAUTIFUL	
BRAVE	
CLEVER	
CORRECT (RIGHT)	
CUNNING	
DEAR	
DILIGENT	
EVIL	
FAITHFUL	
GENTLE	
GOOD	
GREEDY	
HAPPY	
HONEST	
MERRY	
PROUD	
SAD	
SHY	
SURPRISED	

25 (attested)

Clics² (https://clics.clld.org)

Which concepts?

Properties

AMAZING ANGRY ASHAMED ASTONISHED BAD BEAUTIFUL BORING BRAVE CLEVER CONTEMPTIBLE CORRECT (RIGHT) CRUEL CUNNING DEAR DILIGENT DREADFUL EVIL EVIL	GREEDY HAPPY HONEST IMPORTANT INSOLENT KEEN KIND OR POLITE LOVELY MERRY PASSIONATE PROUD RUDE SAD SHY SORROWFUL SURPRISED TRUE
DEAR	SHY
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ANGRY ASHAMED BAD BEAUTIFUL BRAVE CLEVER CORRECT (RIGHT) CUNNING DEAR DILIGENT EVIL FAITHFUL GENTLE GOOD GREEDY HAPPY HONEST MERRY PROUD SAD SHY SURPRISED

25 (attested)

TRUE

UGLY

WRONG

Clics² (https://clics.clld.org

ANGRY BAD BEAUTIFUL BRAVE CLEVER CORRECT (RIGHT) DEAR DILIGENT EVIL FAITHFUL GENTLE GOOD HAPPY MERRY PROUD SAD SURPRISED TRUE UGLY WRONG

20 (colexified)

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Emotions (properties) in CLICS² (colexifications in 1220 languages)



Clics² (https://clics.clld.org)

Emotions (properties) in CLICS² (colexifications in 1220 languages)



Emotions (properties) in CLICS² (colexifications in 1220 languages)





Emotions (properties) in CLICS² (colexifications in 1220 languages)



Emotions (properties) in CLICS² (colexifications in 1220 languages)



Semantic map based on colexification patterns attested in more than 1 language variety

Emotions (thing) in CLICS² (colexifications in 1220 languages)


Towards a semantic map of emotion concepts

Emotions in the world languages



(63 nodes/151 edges > more than 2 languages > 47 nodes/66 edges)





• Forgive



Forgive

Formal Concept Lattices as Semantic Maps

2017

Daria Ryzhova and Sergei Obiedkov

National Research University Higher School of Economics, Moscow, Russia daria.ryzhova@mail.ru sergei.obj@gmail.com

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	ng m m su su si ja ka du v v ka du v v contes	jilZmung6 (Nung-Ninbel) auSmung6 (Zhuang-Longz ang6 (Sui) jung33 (Southern Kam) (SSpom35lo51 (Mang Ch) juw (Kazakh) yplarwn (Adyghe) rei (Armenian) ratwu (Bashkir) ratwu (Bashkir) rut (Breton) rurt (Breton) yeti (Croatian) uudenvan (Dutch) ct Editor	X										X				X	×	















Cf. Gobeil (2016: 192–193)





<u>t</u>s.t nb.t šsp.n=s sb<u>t</u> ibḥ nb kfȝ.w

'All the 'dentitions' started to laugh/smile, Every tooth is unveiled' (Nile Hymnus, III, 7–8)

Cf. *n<u>t</u>ḥ<u>t</u>ḥ* in *PT*





w^c.t *ir.t rjm, k.t sbj* One eye cries, the other 'laughs' (pLondon/Leiden VIII,2)





w^c.t *ir.t rjm, k.t sbj* One eye cries, the other 'laughs' (pLondon/Leiden VIII,2)

Έκάθισεν ὁ λαὸς φαγεῖν καὶ πεῖν, καὶ ἀνέστησαν **παίζειν** ϫεϫϥϩϻοος ΝϬΙΠλαος εογωμ εςω ϫγω ϫγτωογΝ **εςωβε** The people sat down to eat and drink, and rose up to play (1 Cor 10,7)





w^c.t *ir.t rjm, k.t sbj* One eye cries, the other 'laughs' (pLondon/Leiden VIII,2)

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LingAeg 17 (2009), 201-229

Interaction entre modalité et subjectivité en néo-égyptien Autour de la construction $mrl + lw_{circ.} \ll$ souhaiter que »*

Stéphane Polis, Liège



























Coptic оγωмент, lit. 'eat' (оγωм) 'the heart, mind' (ент) рент, lit. 'do' (p) 'the heart, mind' (ент)



in-n;w rmt-swg jr h;tj=f, iw=f (r) ir rmt-rh

'If a stupid man regrets/repents/reflects, he will be a wise man' (Anchsheshonki, XIX,8)





Before Demotic, no lexicalization, but

V L C L L

Before Demotic, no lexicalization, but



Before Demotic, no lexicalization, but

ḥȝ twỉ ḥr Km.t

'If only I was in Egypt' (Qadesh, §188)





Before Demotic, no lexicalization, but

nn hl n=k
'(may you be alive and healthy),
without regrets' (pAnastasi I, 2,7)

