

# SOME THOUGHTS ON METHODS FOR COMPARING FRAMES

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FRAME

# FRAME *PROPER*

Drawing on Feldman (2006), Ziem (2014):

- A frame is a system of concepts which is regularly activated by a stimulus. Depending on the stimulus, paths and levels of activation vary.

## WHAT COMES WITH A FRAME

- For every frame, there is a *pattern of invocation* by means of which background information can be drawn on, reasoning can be performed and consequences can be projected. These invocations happen along frame-to-frame relations.
- A frame is linked to a set of stimuli which evokes it. A concept can be part of multiple frames, but the stimulus guides the pattern of evocation and thus “selects” the frame.
- There are formal schemata for the stimuli.
- According to Ziem (2014), where no contextual information is present, our interpretation is guided by default values

# PRIMACY OF FRAME MODEL OF TRANSLATION

# PRIMACY OF FRAME MODEL FOR TRANSLATION

*primacy of frame* as default: the maximally comparable frame in the given context (Czulo 2017). Override factors (so far):

- differences in frame preferences
  - typological: e.g. motion direction vs. manner of motion (Talmy 2000)
  - different distribution of semantic information: single frames vs. frame groups (Padó & Erk 2005)
- motivated by constructional mismatches
  - constructional priming through cognates (Oster 2017)
  - functional considerations: keeping information structure, enhancing/dropping focus etc. (Čulo 2013, 2016)

# VERB ACCOMODATION

ENTITY

Handlungsbedarf

wird

es

TIME

auch weiterhin

EXISTENCE

geben

More changes

EVENT

will take place

EVENT

in the future

TIME

Lit: 'Need-for-action will there also furthermore be'

# “SEMANTIC SIMILARITY”

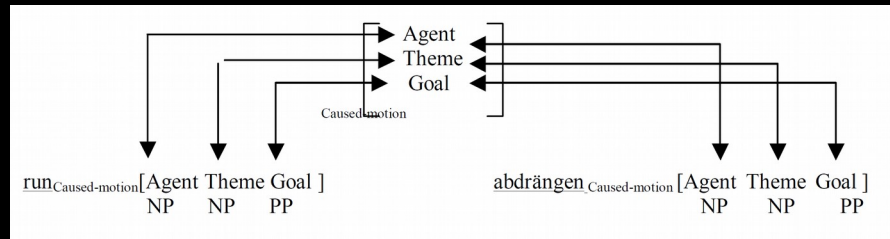




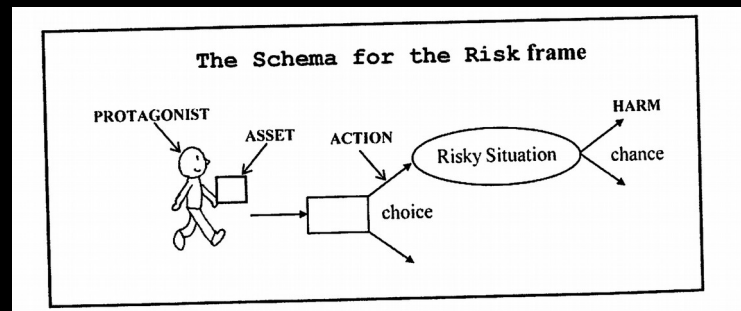
BUT WHAT WAS I COMPARING?  
CAN IT BE COMPARED?

# ASPECTS OF COMPARISON

Boas (2001): frame elements, mapping stimulus-frame



Ohara (2009): schema, frame elements, mapping stimulus-frame



Ziem (2014): default values

# MARRIAGE: FRAME PROPER

- **Personal\_relationship Frame:** The words in this frame have to do with people and the personal Relationships they are or can be a part of. Some of the words denote people engaged in a particular kind of Relationship, others denote the Relationship, yet others the events bringing about or ending the Relationships. Many of the words presuppose an understanding of states and events that must have occurred before another event takes place or before a person can be classified in a certain way.
- **Elements:** Partner1, Partner2, Duration
- **Default values:** Partner1:Male, Partner2:Female, Duration:Life-long

# MARRIAGE: SCHEMA

In many ways, the definition of the Personal\_relationship frame is more of a schema definition than a frame definition.

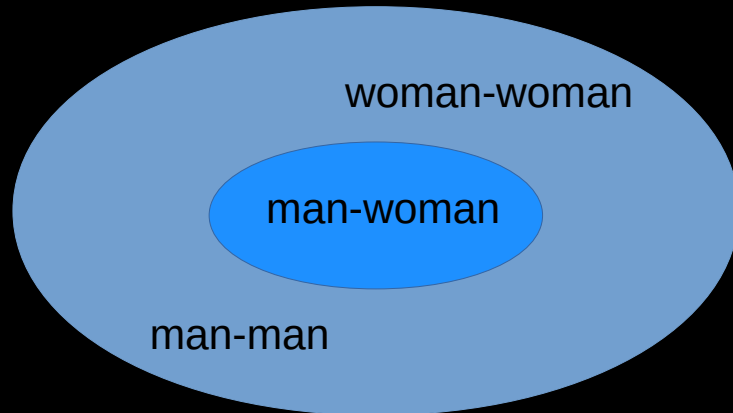
- Personal\_relationship frame: The words in this frame have to do with people and the personal Relationships they are or can be a part of. Some of the words denote people engaged in a particular kind of Relationship, others denote the Relationship, yet others the events bringing about or ending the Relationships. Many of the words presuppose an understanding of states and events that must have occurred before another event takes place or before a person can be classified in a certain way.
- *Marriage* has a number of presuppositions and consequences, e. g.:
  - both partners were in state of being unmarried before their marriage
  - the bond is recognised as such by an institution
  - partners will have certain exclusive rights and obligations
  - reproduction is a major objective

# MARRIAGE: PROTOTYPICALITY IN CONTEXT (YEAR: 2008)

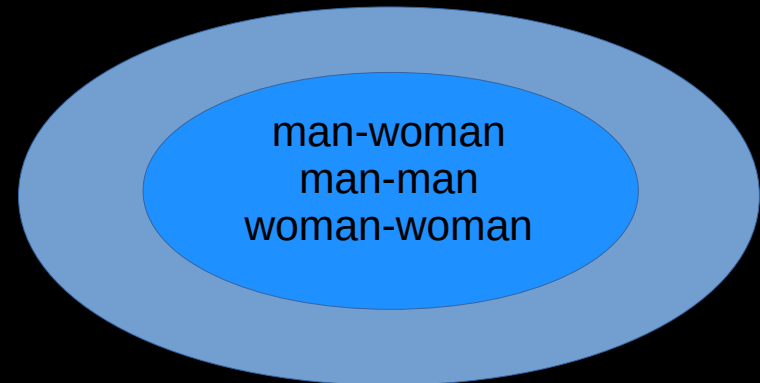
strongly conservative



legal / mildly conservative



progressive

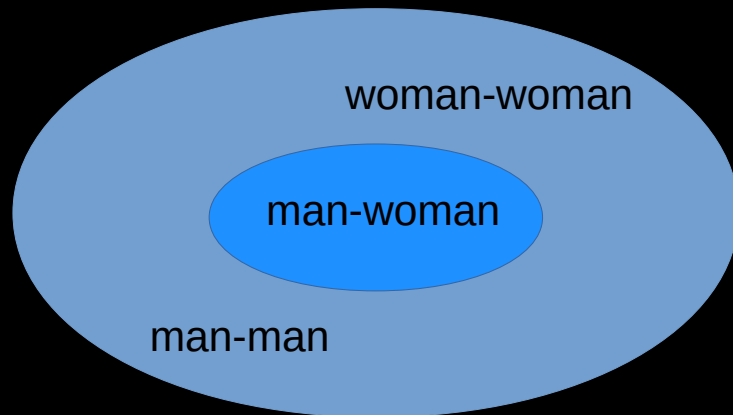


# MARRIAGE: PROTOTYPICALITY IN CONTEXT (YEAR: 2018)

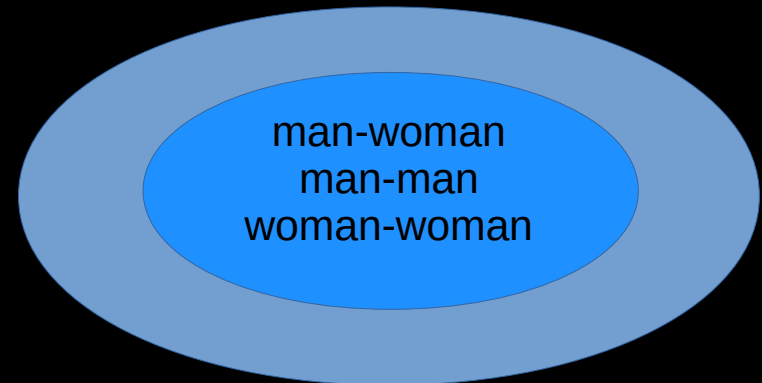
strongly conservative



mildly conservative



legal / progressive



## MARRIAGE: MAPPING STIMULUS-FRAME IN GERMAN

“Ehe”: prototypical case of a marriage between a man and a woman

“Homo-Ehe”:

- before 2017-10: civil union between two partners of same sex, similar to a marriage; legally: “Lebenspartnerschaft”
- after 2017-10: marriage between two partners of the same sex (default value override)

“Wilde Ehe”: long-time partnership without legal recognition

SO ACCORDING TO WHICH CONTEXT  
SHOULD WE BE COMPARING?



## FRAME COMPARISON: LEVEL OF GRANULARITY AND TRANSLATION

*Somebody who commissions a translation and is willing to pay for it, usually has some purpose in mind for which the target text is needed. Therefore, the translator — like any other text producer — analyses the pragmatics of the (prospective) target situation before deciding on what to say (i.e. how to rearrange the information given in the source) and how to say it (i.e. what linguistic or even non-linguistic devices to use in order to make the text fit for the client's purpose). (Nord 2006)*

- the target situation includes a “set of addresses” (Vermeer 1991)
- comparison should be made at the highest level of abstraction which is inclusive of the set of addressees

TIME FOR QUESTIONS  
AND COMMENTS

# REFERENCES (1)

- Boas, Hans C. 2001. 'Frame Semantics as a Framework for Describing Polysemy and Syntactic Structures of English and German Motion Verbs in Contrastive Computational Lexicography'. In *Proceedings of Corpus Linguistics 2001*, 64–73.
- Čulo, Oliver. 2013. 'Constructions-and-Frames Analysis of Translations: The Interplay of Syntax and Semantics in Translations between English and German'. *Constructions and Frames* 5 (2): 143–67.
- Čulo, Oliver. 2016. 'Translationswissenschaftliche Analyse Der Übersetzung Des Direkten Objekts Im Vorfeld Ins Englische Und Anregungen Daraus Für Die Kontrastive Linguistik'. *Deutsche Sprache. Zeitschrift Für Theorie, Praxis Und Dokumentation*, no. 3: 214–34.
- Czulo, Oliver. 2017. 'Aspects of a Primacy of Frame Model of Translation'. In *Empirical Modelling of Translation and Interpreting*, edited by S. Hansen-Schirra, Oliver Czulo, and Sascha Hofmann, 465–90. *Translation and Multilingual Natural Language Processing* 6. Berlin: LangSci Press.
- Feldman, Jerome. 2008. *From Molecule to Metaphor: A Neural Theory of Language*. MIT press.
- Nord, Christiane. 2006. 'Translating for Communicative Purposes across Culture Boundaries'. *Journal of Translation Studies* 9 (1): 43–60.

## REFERENCES (2)

- Ohara, Kyoko Hirose, Seiko Fuji, Toshio Ohori, Ryoko Suzuki, Hiroaki Saito, and Shun Ishizaki. 2009. 'Frame-Based Contrastive Lexical Semantics in Japanese FrameNet: The Case of Risk and Kakeru'. In *Multilingual FrameNets in Computational Lexicography*, edited by Hans C. Boas, 163–82. Mouton.
- Oster, Katharina. 2017. 'The Influence of Self-Monitoring on the Translation of Cognates'. In *Empirical Modelling of Translation and Interpreting*, edited by S. Hansen-Schirra, Oliver Czulo, and Sascha Hofmann, 23–39. *Translation and Multilingual Natural Language Processing 6*. Berlin: LangSci Press.
- Padó, Sebastian, and Katrin Erk. 2005. 'To Cause or Not to Cause: Cross-Lingual Semantic Matching for Paraphrase Modelling'. In *Proceedings of the Cross-Language Knowledge Induction Workshop*. Cluj-Napoca, Romania.
- Talmy, Leonard. 2000. *Toward a Cognitive Semantics. 2. Typology and Process in Concept Structuring*. Cambridge, Mass.: Cambridge, Mass. [u.a.] : MIT Press.
- Vermeer, Hans J. 1989. 'Skopos and Commission in Translational Action'. In *Readings in Translation Theory*, edited by Andrew Chesterman, 173–87. Helsinki: Oy Finn Lectura Ab.
- Ziem, Alexander. 2014. *Frames of Understanding in Text and Discourse: Theoretical Foundations and Descriptive Applications*. Translated by Catherine Schwerin. *Human Cognitive Processing*, volume 48. Amsterdam ; Philadelphia: John Benjamins Publishing Company.