

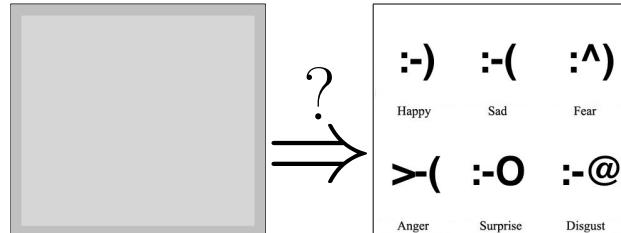


Sentiment analysis...

- ...is established for many areas.
- ...typically focuses on polarities (binary or scale).
- ...is not sufficient to analyze literature!

Emotions...

- ...are quite well analyzed in psychology.



Dictionaries

- German dictionaries for fundamental emotions
 - Manually compiled
 - Semi-automatically enriched (NRC, OpenThesaurus, Duden)
 - Curated
- Dictionary and Software are publicly available

Count Words in Sliding Windows

	Furcht	12	10	9	14	12	12	10	9	14	12
	Freude	8	11	11	12	8	8	11	11	12	8
	Wut	2	7	11	10	2	2	7	11	10	2

Examples

Freude/Joy

Ballermann Mausi Optimismus hallöle! hammerigl hervorragend juhu tiptopp toll willkommen

Ekel/Disgust

Eiterbeule Erbrochenes Gam-melfleisch Spinne Verwesung igitt kotzen pfui schimmeln widerlich übergeben

Wut/Anger

Beschwerde Grimm Hass Mob Raserei galig hundertachtzig platzten erbittert feuern kapputmachen

Furcht/Fear

Abgrund Abreibung Muttersöh-nchen Spuk Unfall Ungeheuer Zahnarzt Zittern aussichtslos bleich drohen töten

Trauer/Sadness

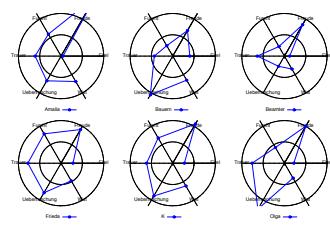
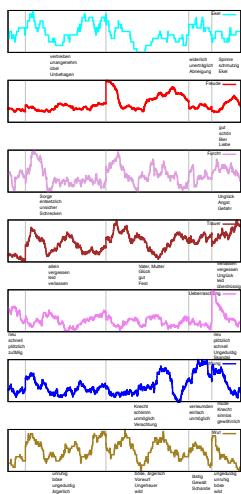
Abschied Apathie Aussicht-slosigkeit Beileid Schwarzmaler Tod Versagen tragisch wim-mern sickig

Überraschung/Surprise

Attacke! Erstaunen Exklusivbericht Fuck! brusk flink geschockt unbeabsichtigt oha wirr

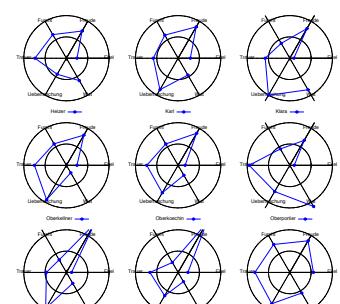
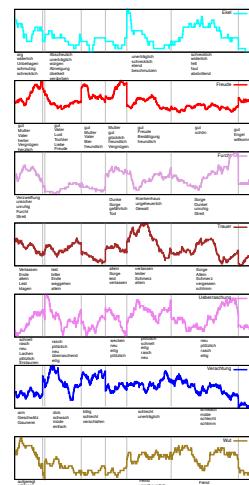
Results

Das Schloss



- Bauern**
 - Wut ärger, gemein, Ungeduld
 - Ekel unangenehm, übel
- Beamte**
 - Trauer leid, arm, Abwesenheit
- Frieda**
 - Freude gut, Lieb, Bier
 - Trauer verlassen, allein, leid, vergessen, schlimm, traurig, Sorge
 - Furcht unsicher, Sorge, Angst

Amerika



- Karl**
 - Überraschung rasch, neu, plötzlich, schnell, eilig, zufällig, ungeduldig, Vorsicht, Erstaunen
 - Freude gut, Freude, freundlich, froh, lebhaft
- Opertpoter**
 - Wut Feind, ärgerlich, Faust
- Pollunder**
 - Freude gut, freundlich, Tochter, Gefallen
 - Trauer leider, ungern, allein

Discussion

- Building dictionaries is difficult: Only for 46 % words in dictionary three annotators agree, for 85 % two annotators agree.
- No context taken into account, figurative language is challenging.

- No difference between character and narrator (so far).
- Attribution by surrounding window leads to noisy results.
- However, valuable approach to support scalable reading.

