

beyond postmortem descriptions
natural language generation for historical figures

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Outline

- 1 data
- 2 psychological description
- 3 neural description
- 4 neural simulation

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data

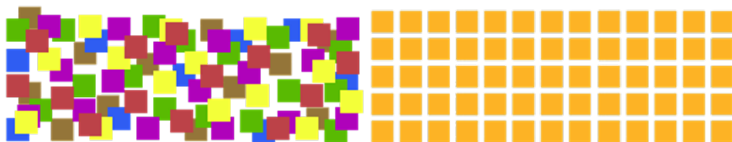
psychological
description

neural description

neural simulation



prelim words in a database



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Figure 1: N.F.S. Grundtvig, 1783-1872, 1170 text objects → influential writer, graphomania, distinct phases in writings

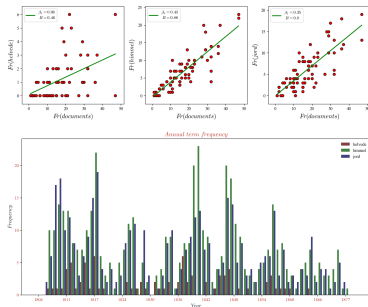


Figure 2: Keyword queries on time and document - naive compositional assumption → “atoms of meaning”

stage 1 psychological description

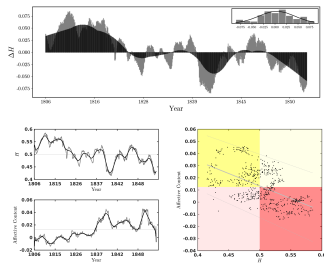


Figure 3: Developmental trajectories of creativity and affect with distinct phases

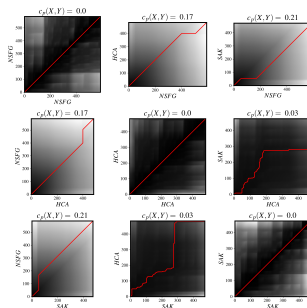


Figure 4: Comparison of Grundtvig, Andersen og Kierkegaard's creative trajectories

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K. L. Nielbo, K. F. Baunvig, B. Liu, and J. Gao, "A curious case of entropic decay: Persistent complexity in textual cultural heritage," *Digital Scholarship in the Humanities*, Oct. 2018.

K. F. Baunvig and K. L. Nielbo, "Kan man validere et selvopgør?," *Nordiskt Nätverk for Editionsfilologer Skrifter*, vol. 2, pp. 45–67, 2017.

stage 3 neural reconstruction

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Figure 6: Recurrent neural network that learns Grundtvig's language from sub-word data.



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Thank you for your attention

slides: http://knielbo.github.io/files/kln_postmortem.pdf

