Interoperability for Historiographical (Research) Data

#ds4h21 Panel Discussion
Prof. Dr. Harald Sack
ds4h21, 30 June 2021
Proposition 1: In order to make sense (and use) of data, we have to understand it.
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FIGURATIVE MAP of the successive losses in men of the French Army in the RUSSIAN CAMPAIGN OF 1812-1813

Drawn by Mr. Minard, Inspector General of Bridges and Roads in retirement, Paris, 20 November 1869. The numbers of men present are represented by the widths of the colored zones in a rate of one millimeter for ten thousand men; there are also writers beside the zones. Red designates men moving into Russia, black those on retreat. — The information used for drawing the map were taken from the works of Meuris, Chate, de Ségué, de Vintimilla, de Chambroy and the unpublished diary of Jacobs, pharmacist of the Army since 28 October. In order to facilitate the judgement of the eye regarding the diminution of the army, I supposed that the troops under Prince Jerome and under Marshal Davoust, who were sent to Minsk and Mohilow and who remained near Osocha and Witebske, had always marched with the army.

GRAPHIC TABLE of the temperature in degrees of Réaumur thermometer

Infographics by Charles Minard (1781-1870) from data of Napoleon's Russian Campaign 1812/13
Proposition 2: Instead of extensive data descriptions make use of explicit semantics.
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Proposition 3: Semantically annotated data enables *(automated)* interoperability.
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Proposition 4: Today, most research data lack (besides others) interoperability.
Proposition 5: NFDI is a **first step towards research data interoperability**.
Proposition 6: Interoperability enables **Discovery and Exploration**.
Thank you very much for your attention!

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