

Venturini, T. (2008)

Piccola Introduzione Alla Cartografia Delle Controversie Etnografia e Ricerca Qualitativa

Venturini, T. (2010) Diving in Magma: How to Explore Controversies with Actor-Network Theory *Public Understanding of Science* 19(3)

Venturini, T. (2012) Building on Faults: How to Represent Controversies with Digital Methods *Public Understanding of Science* 21(7) Venturini, T. & Munk, A. (forthcoming)

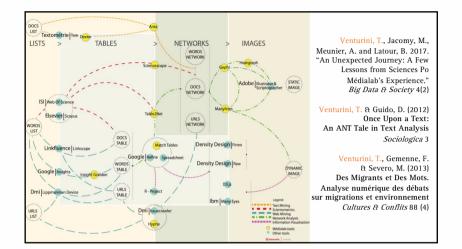
Controversy Mapping A Field Guide through Actor-Network Theory and Digital Methods Controversy mapping (or social cartography) is an ensemble of methods to

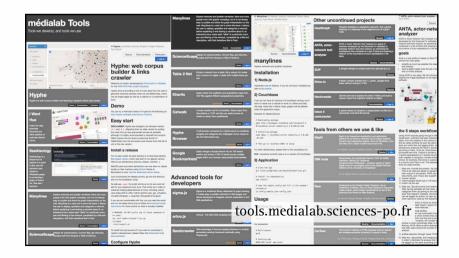
[1] explore, [2] represent and [3] contribute to public sociotechnical debates

through digital quali-quantitative methods

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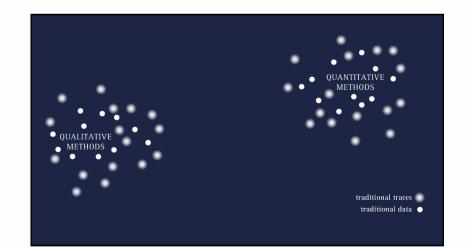
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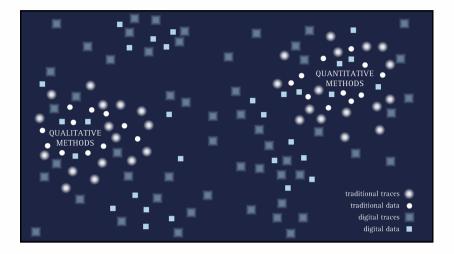


Controversy mapping (or social cartography) is an ensemble of methods to [1] explore, [2] represent and [3] contribute to

public socio-technical debates

through digital quali-quantitative methods





[1] Explore

(observe and describe collective associations)

[2] Represent

(allowing the consideration of heterogeneous elements)

[3] Contribute (keeping in mind the political affordances of maps)

P: I have no patience for context, no. A frame makes a picture look nicer, it may direct the gaze better, increase the value, but it doesn't add anything to the picture. The frame, or the context, is precisely what makes no difference to the data, what is common knowledge about it. If I were you I would abstain from frameworks altogether. Just describe.

S: 'Just describe'. Sorry to ask, but is this not terribly naïve? Is this not exactly the sort of empiricism, or realism, that we have been warned against? I thought your argument was more sophisticated than that.

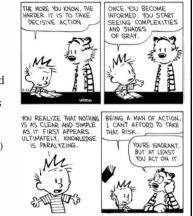
P: Because you think description is easy? You must be confusing it, I guess, with strings of clichés. For every hundred books of commentaries, arguments, glosses, there is only one of description. To describe, to be attentive to the concrete states of affairs, to find the uniquely adequate account of a given situation–I have, myself, always found this incredibly demanding. Ever heard of Harold Garfinkel

Latour, Bruno. 2003. "On Using ANT for Studying Information Systems: A (Somewhat) Socratic Dialogue." In *The Social Study of Information and Communication Study*, edited by C. Avgerou, C. Ciborra, and F.F. Land, 62–76. Oxford: University Press.

[1] Explore

Controversies as natural and large-scale breaching experiment "Procedurally it is my preference to start with familiar scenes and ask what can be done to make trouble ...

to produce disorganized interaction should tell us something about how the structures of everyday activities are ordinarily and routinely produced and maintained" (p. 37) Harold Garfinkel, 1967, *Studies in ethnomethodology*.



"My husband and I were watching television. My husband remarked that he was tired. I asked, 'How are you tired? Physically, mentally, or just bored?'

(S) I don't know, I guess physically, mainly

(E) You mean that your muscles ache or your bones?

(S) I guess so. Don't be so technical. (After more watching)

(S) All these old movies have the same kind of old iron bed-stead in them

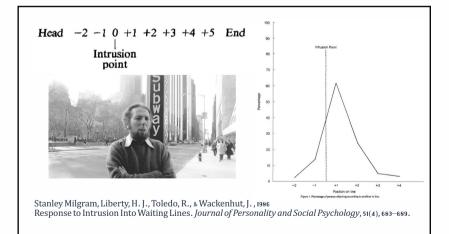
(E) What do you mean? Do you mean all old movies, or some of them, or just the ones you have seen?

(S) What's the matter with you? You know what I mean

(E) I wish you would be more specific

(S) You know what I mean! Drop dead" (p. 43)

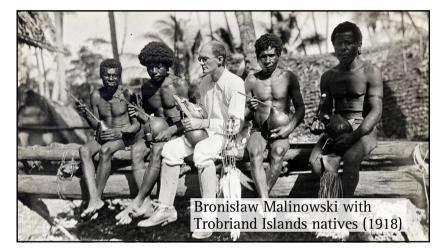
Harold Garfinkel, 1967, Studies in ethnomethodology.



"a similar methodology was advocated by Harold Garfinkel, for investigating the takenfor-granted features of social life... The methodological assumption underpinning the study of controversies is similar, only in this case the breach in the normal social operation of science is produced by the scientists themselves. By studying a scientific controversy, or moments of contestation, one learns something about the underlying dynamics of science and its relations with wider society"

Trevor Pinch, 2015, "Scientific Controversies" in *Encyclopedia of the Social & Behavioral Sciences*





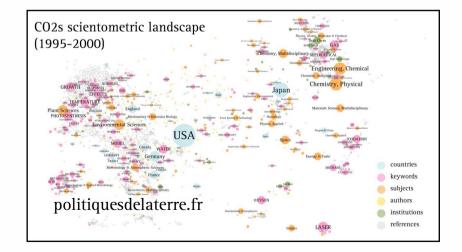
I always remember how unrelaxed I felt in a particular bathroom which was kept spotlessly clean in so far as the removal of grime and grease was concerned.

It had been installed in an old house in a space created by the simple expedient of setting a door at each end of a corridor between two staircases.

The decor remained unchanged: the engraved portrait of Vinogradoff, the books, the gardening tools, the row of gumboots. It all made good sense as the scene of a back corridor, but as a bathroom – the impression destroyed repose.

Mary Douglas (1966) Purity and Danger







Venturini, T., & Latour, B. (2010). "The Social Fabric: Digital Traces and Quali-Quantitative Methods" In *Proceedings of Future en Seine 2009*

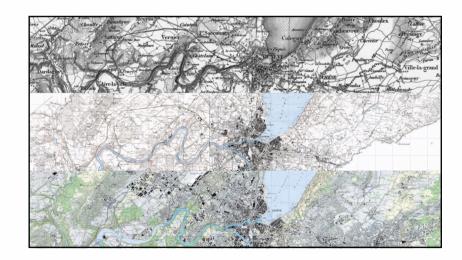
Latour, B., Jensen, P., Venturini, T., Grauwin, S. & Boullier, D. (2012). 'The Whole Is Always Smaller than Its Parts': a Digital Test of Gabriel Tardes' Monads *British Journal of Sociology* 63(4)

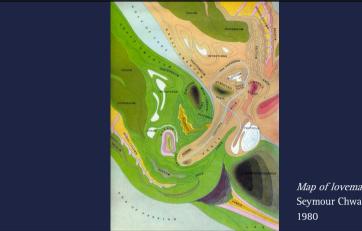
Venturini, T. (2012).

"Great Expectations: Méthodes Quali-Quantitative et Analyse Des Réseaux Sociaux" In *L'Ére Post-Media*, Fourmentraux, J.P. (ed.). Hermann. Venturini, T., Jensen, P. & Latour, B. (2015). Fill in the Gap: A New Alliance for Social and Natural Sciences Journal of Artificial Societies and Social Simulation 18(2):11.

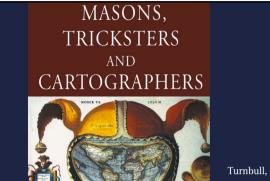
Venturini, T., Cardon, D. & Cointet, J.P. (2015). Méthodes Digitales: Approches Quali/quanti Des Données Numériques - Curation and Presentation of the Special Issue. *Réseaux* 188.

[2] Represent

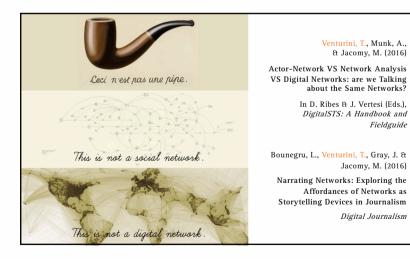




Map of lovemaking Seymour Chwast,

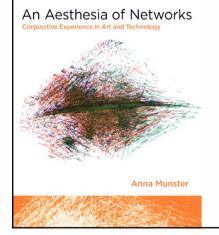


Turnbull, David. 2000. Masons, Tricksters and Cartographers London: Routledge.



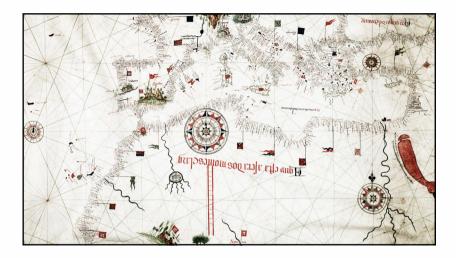
- 1. Partiality of digital inscriptions
- 2. (Lack of) heterogeneity of nodes and edges
- 3. (Lack of) reversibility of nodes and networks
- 4. Dynamics of relational change

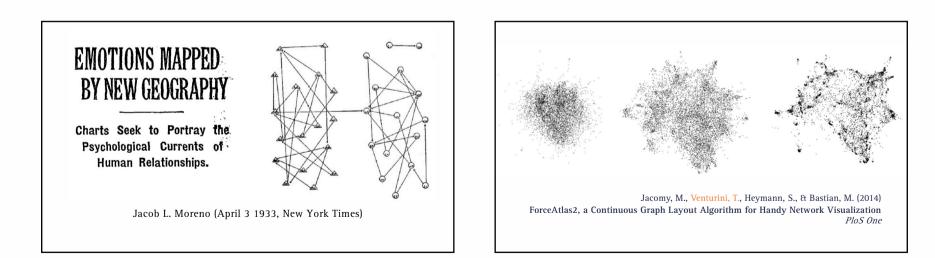
Networks are not networks (graphs are not actor-networks)

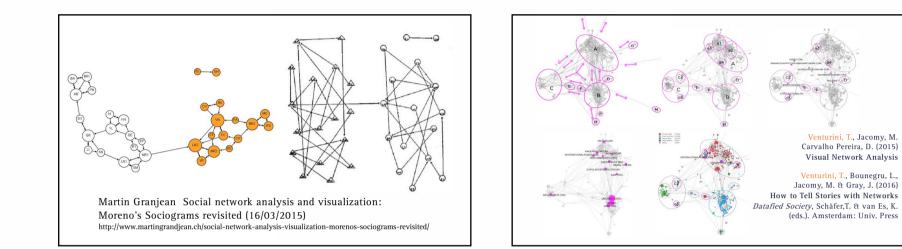


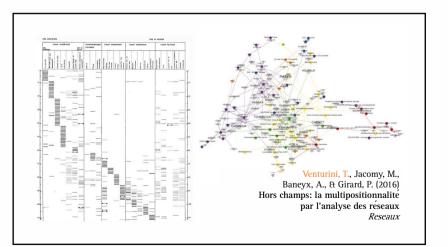
Munster, A. (2013). *An Aesthesia of Networks.* Cambridge Mass.: MIT Press

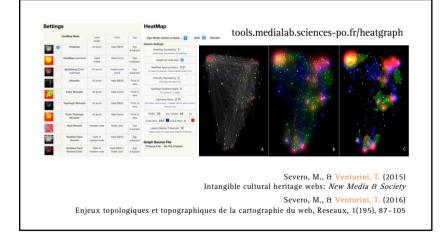
A diagram of a network, then, does not look like a network but maintain the same qualities of relations – proximities, degrees of separation, and so forth – that a network also requires in order to form. Resemblance should here be considered a resonating rather than a hierarchy (p. 24).







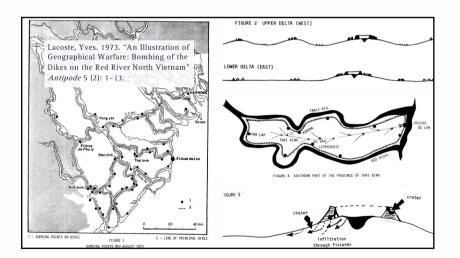


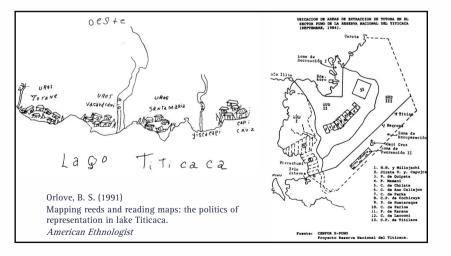


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[3] Contribute







Researchers, along with stakeholders, act as the "cartographers" of different, viable policy pathways and their practical consequences by acting as the "mapmakers" of the political solution space. They provide a guidebook with alternative options for policymakers (i.e., the "navigators") and the public. Such maps cannot replace travelling (i.e., decision- making), nor can they resolve all environmental policy conflicts, yet they can provide an important orientation in otherwise uncharted territories (p. 63)

Edenhofer, O., & Kowarsch, M. (2015). Cartography of pathways: A new model for environmental policy assessments *Environmental Science and Policy*, *51*, 56–64, p. 63. Researchers, along with stakeholders, act as the "cartographers" of different, viable policy pathways and their practical consequences by acting as the "mapmakers" of the political solution space. They provide a guidebook with alternative options for policymakers (i.e., the "army officers") and the public. Such maps cannot replace warfare (i.e., decision- making), nor can they resolve all environmental policy conflicts, yet they can facilitate the colonization of otherwise uncharted territories (p. 63)

MODIFIED VERSION OF Edenhofer, O., & Kowarsch, M. (2015). Cartography of pathways: A new model for environmental policy assessments *Environmental Science and Policy*, *51*, 56–64, p. 63.

1. The first principle of critical mapping is that maps are incredibly useful ways of organizing and producing knowledge... but ... also incorporate unexamined assumptions which act as limits which deserve to be challenged

- 2. One way to challenge these orders of knowledge is by putting them into historical perspective... maps and spatial knowledges have been deployed has varied tremendously between cultures and places
- 3. Critical mapping also holds that geographic knowledge is shaped by a whole array of social, economic, and historical forces, so that knowledge does not exist except in relation to power
- 4. The critical mapping project is also one which has an activist, *emancipatory* flavor to it

Crampton, Jeremy (2010). Mapping: A Critical Introduction to Cartography and GIS. We don't know what a researcher who today affirms the legitimacy or even the necessity of experiments on animals is capable of becoming in an *oikos* [configuration of research] that demands that he or she think"in the presence of" the victims of his or her decision (p. 997)

Isabelle Stengers, 2005 "The Cosmopolitical Proposal" In Making Things Public Atmospheres of Democracy, Latour, B. Weibel, P. (eds.) Cambridge Mass.: MIT Press



Data Sprint – WHO?

- Social Sciences Researchers
- Developers
- Designers
- But also
- Controversy experts
- Representatives of the public

Data Sprint – WHAT

- Pose the research questions
- Operationalise them in digital mapping projects
- Collect and clean the data
- Write the code
- Design visualisation and navigation interfaces
- Promote engagement and coproduction of knowledge and policies

Thank you



