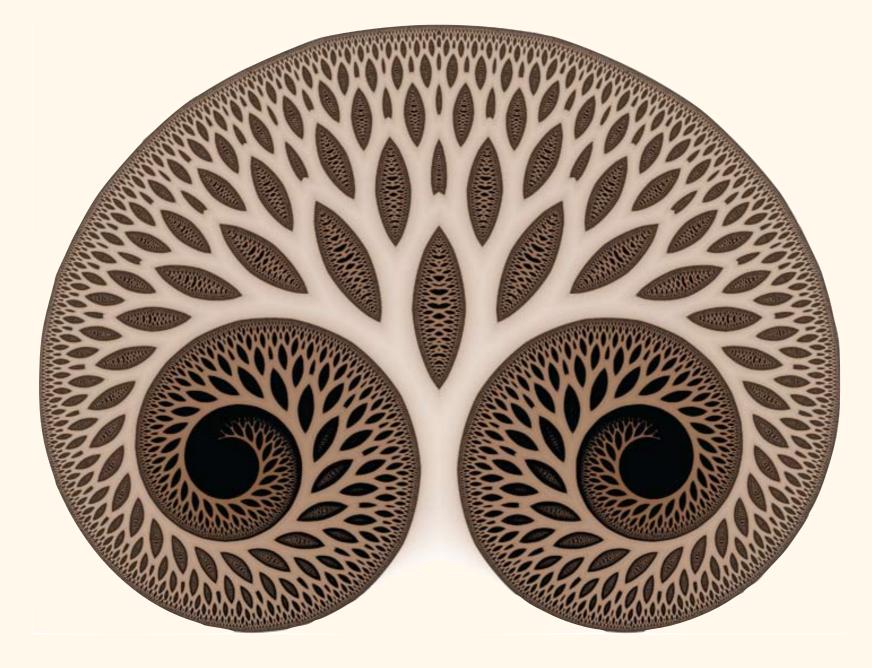
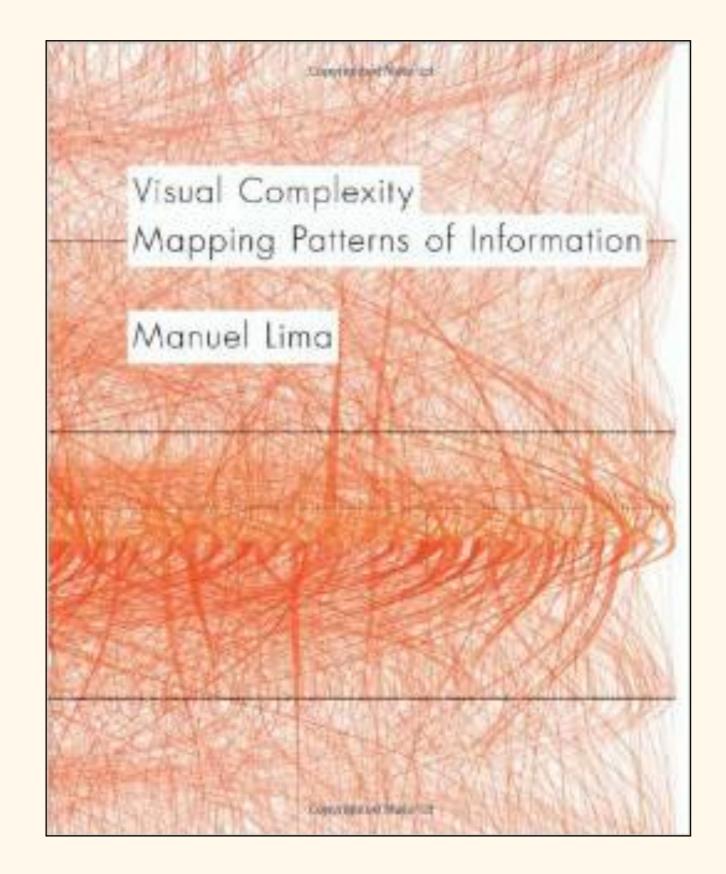
Graphs and Trees Examples (& Tools?)

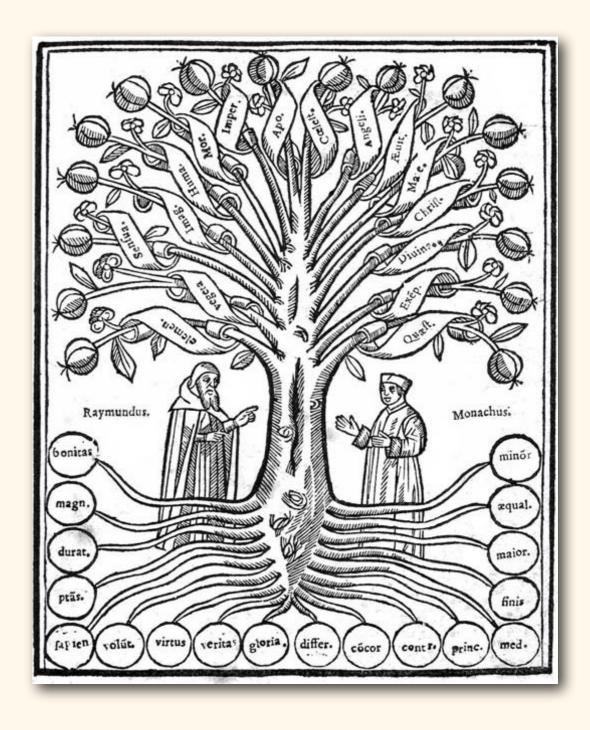


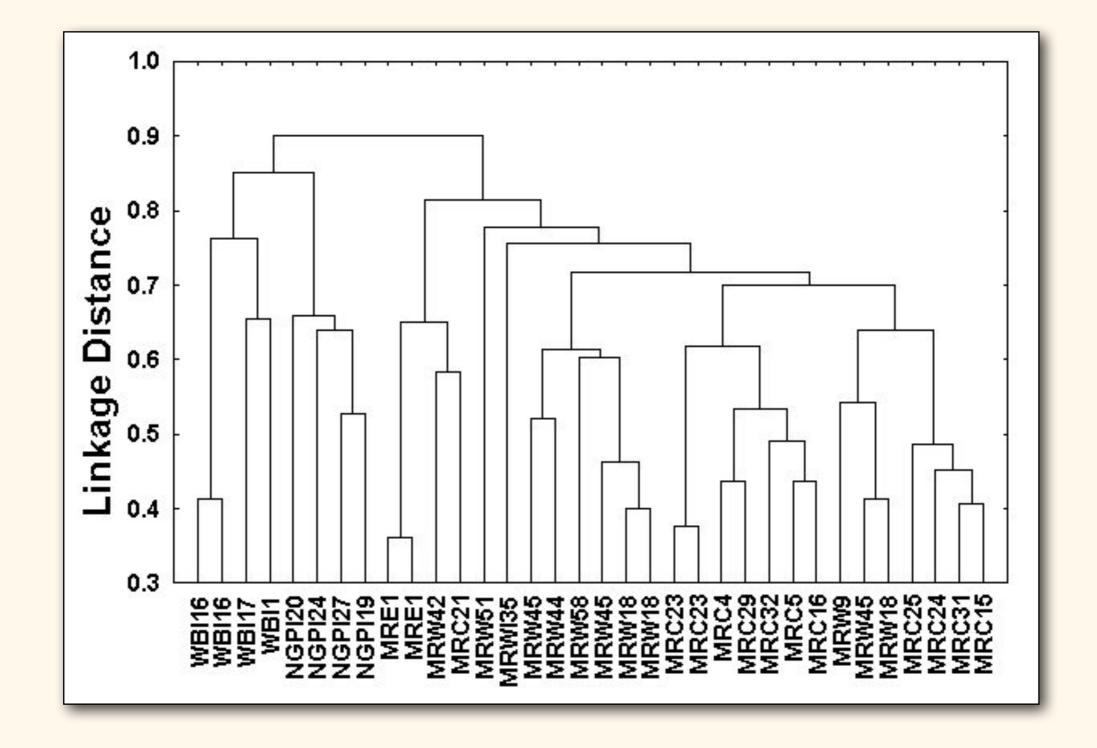
Jackie Wirz & Steven Bedrick CONJ 610, 11/6/14



Tree metaphors for information are not new.







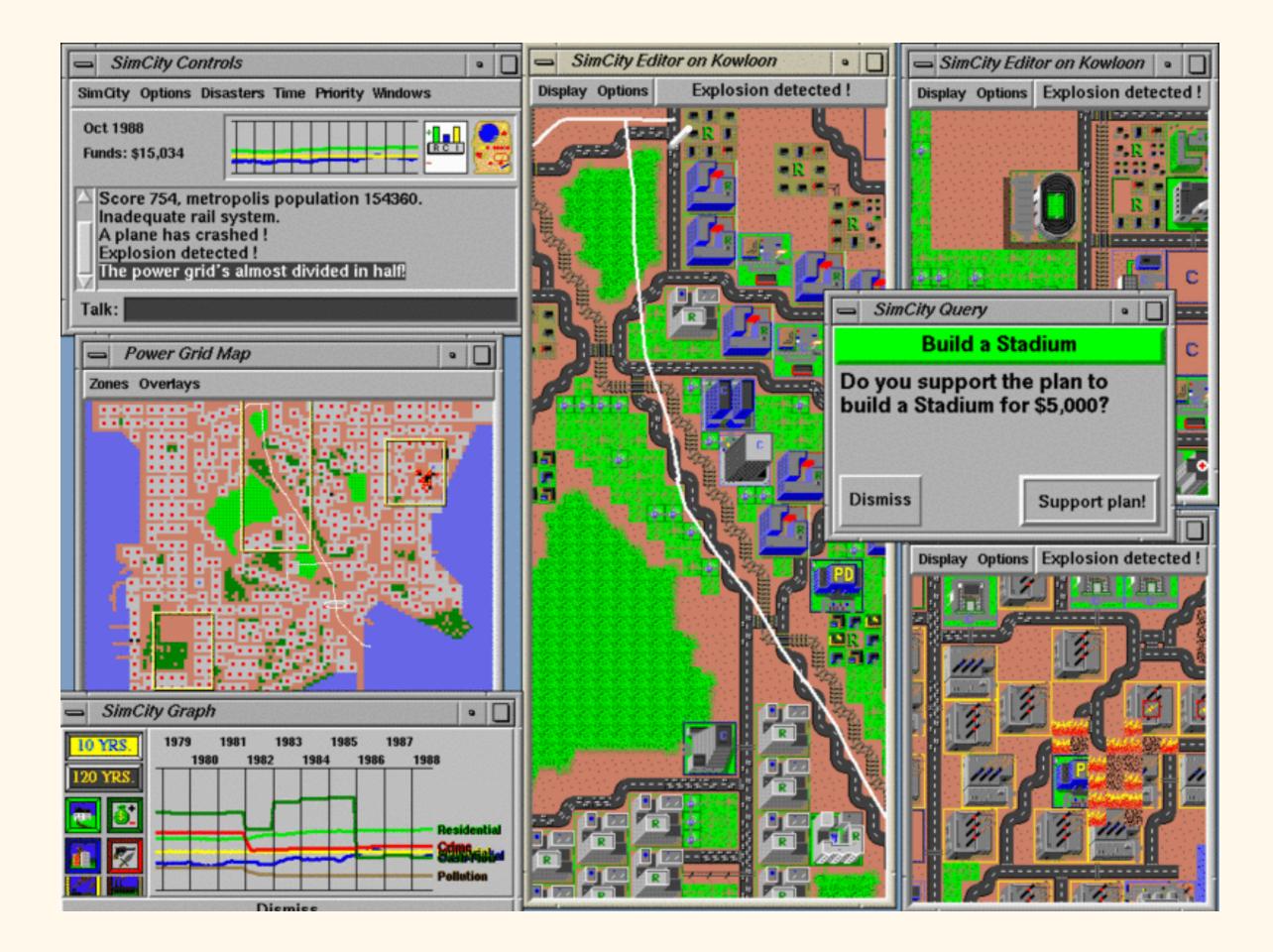
Cautions regarding tree representations:

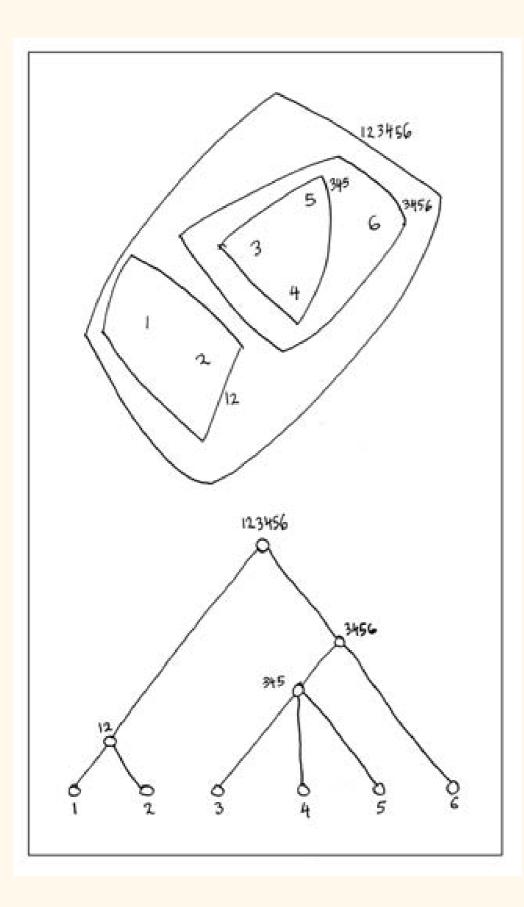
Some data are truly hierarchical... ... many are not.

Points in a tree only exist in a single context...

... which is rarely the case in reality!

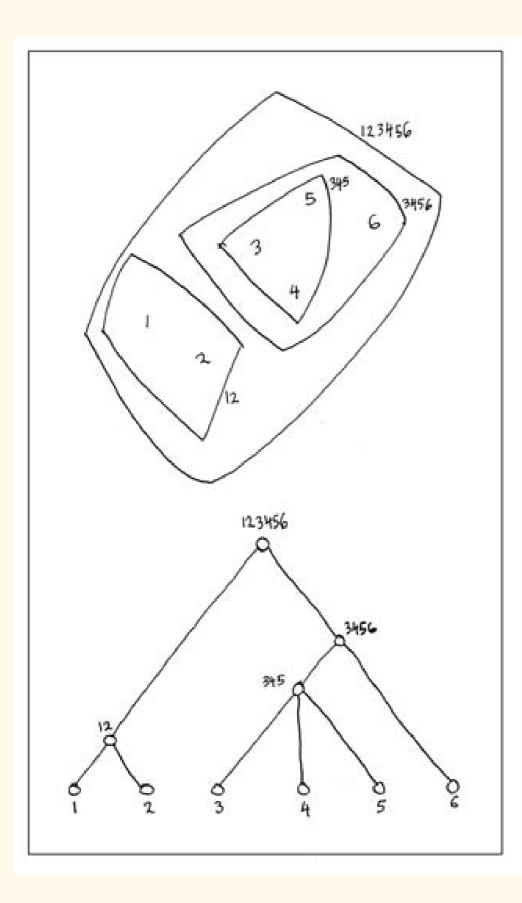
"The medium is the message."

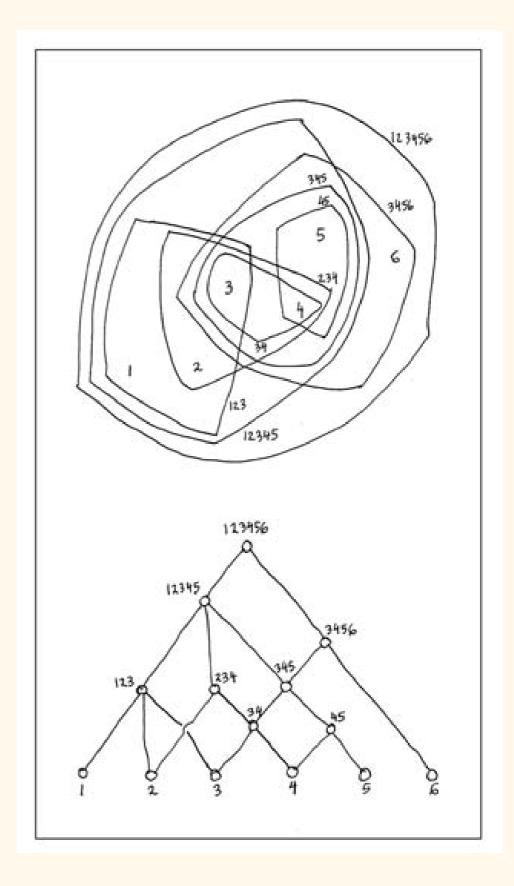




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"...Alexander refutes the hierarchical and centralized organization of the urban landscape, characteristic of model cities such as Brasilia, in favor of organic cities like London and New York. He declares that many of these artificial cities have failed due to the rigid and insipid thinking of their creators, who planned areas of activity (e.g., residential, industrial, commercial) as independent and incommunicable modules, in a typical tree structure of separate branches."





29 $o^{14} e^{14} m^{14} F^{14}$ $n^{14} r^{14} w^{14} y^{14} v^{14} z^{14}$ $a^{14} q^{14}$ p^{14} b^{14} **f**14 *w*¹⁰ z^{10} a^{10} **f**10 $m^{10} E^{10} F^{10}$ $\sqrt{z^9}$ m^{9} **′f**9 a^{9} W^9 A a⁸N// *w*⁸ /f8 k⁸ iz8 $\sim m^8$ и⁸ 18 l k^{7} w^7 z^7 m^7 u^7 17 a^{7} ÷ k^{6} z^6 twie A . $/m^6$ u^{6} a^6 **f**6 k^{5} W $\cdot z^5$ $2 m^{5}$ a^{5} u^{5} $\sqrt{m^4}$ B.R. a^{4} z^4 i^3 $i^2 V$ M/m^3 $\sqrt{z^3}$ t^3 a³ + D \mathbf{z}^2 $\sqrt{m^2}$ t^{2} $\underline{a}^{2^{\prime}}$ S^2 nohm W/m^1 z^1 a^1 - 1 A B Е GHIKL C D F telation Ci.

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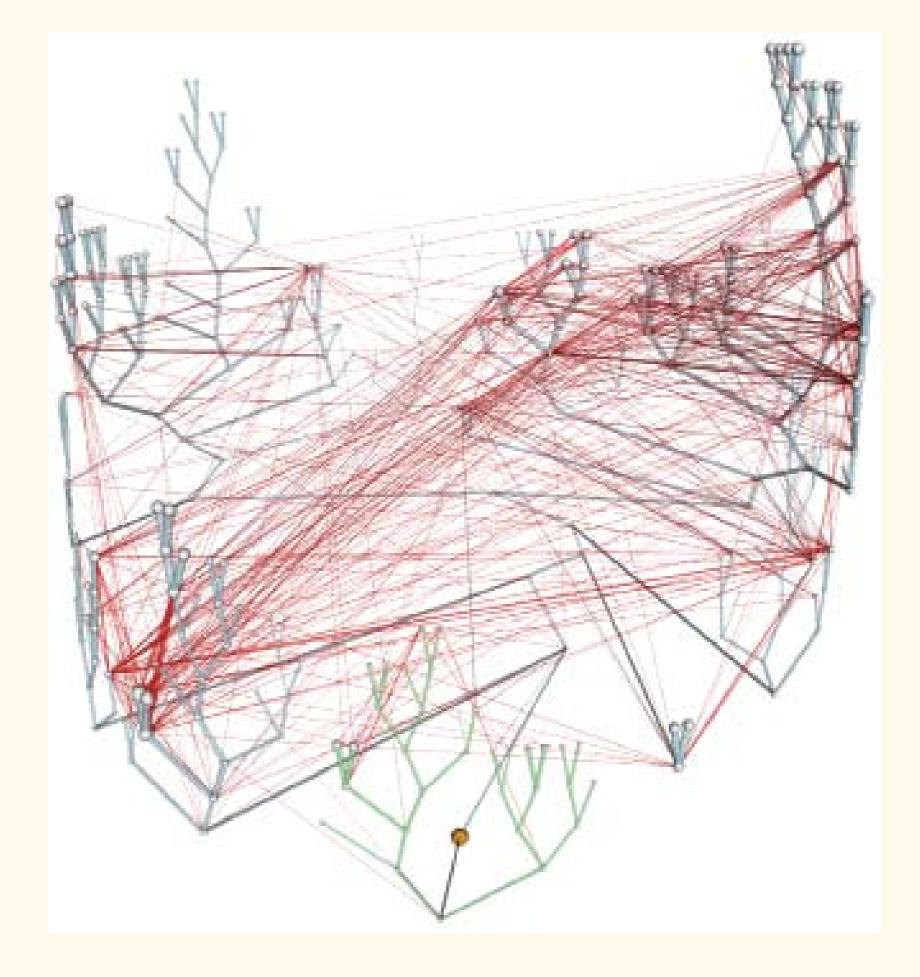
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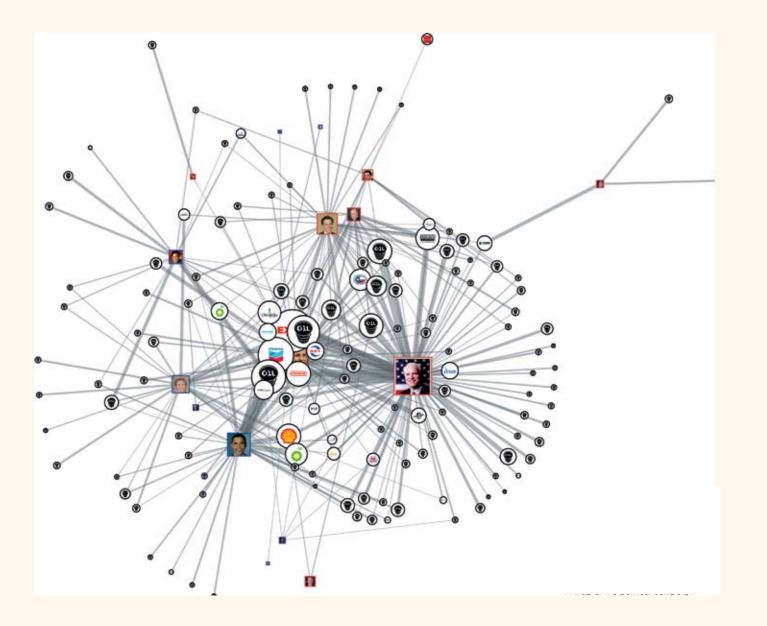
-III

-II

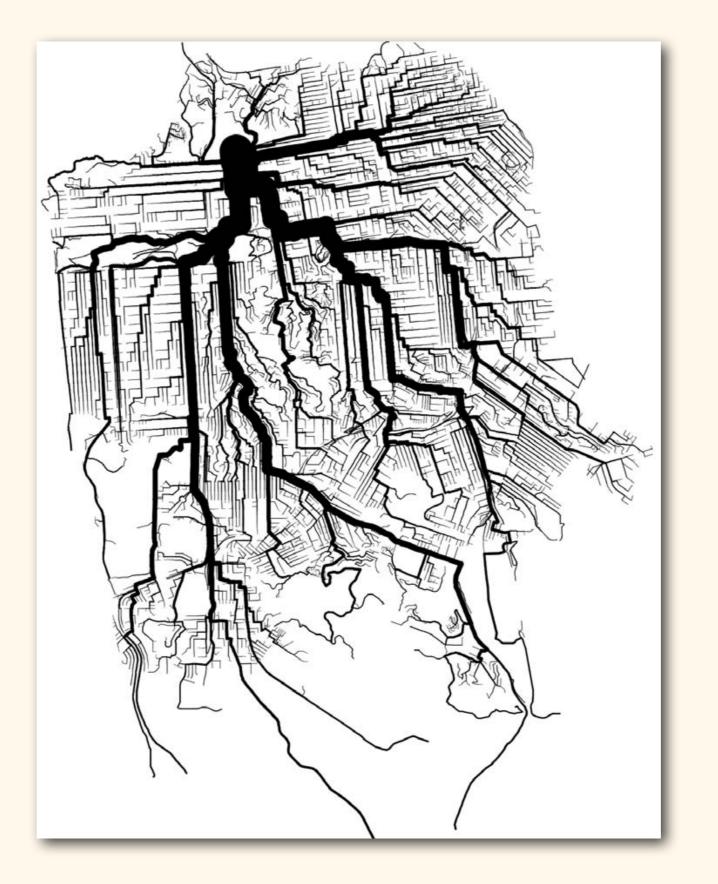


Caution regarding graph visualizations:

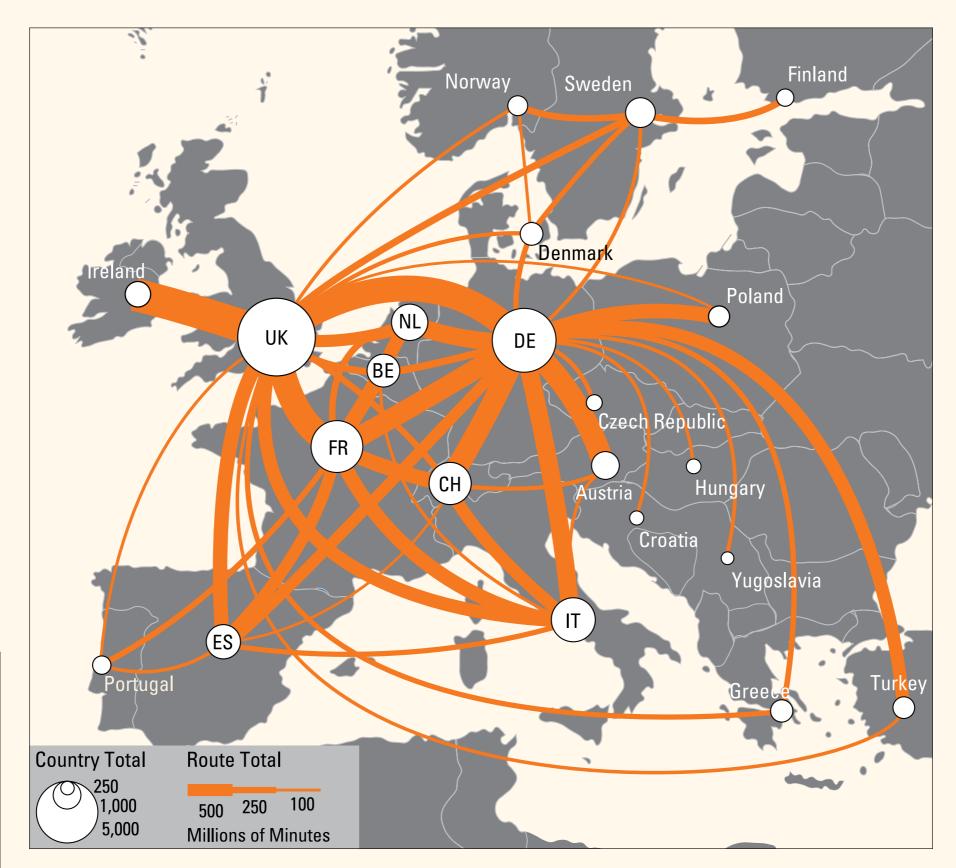
Don't forget about Gestalt properties!



Mixing metaphors:



Mixing metaphors:



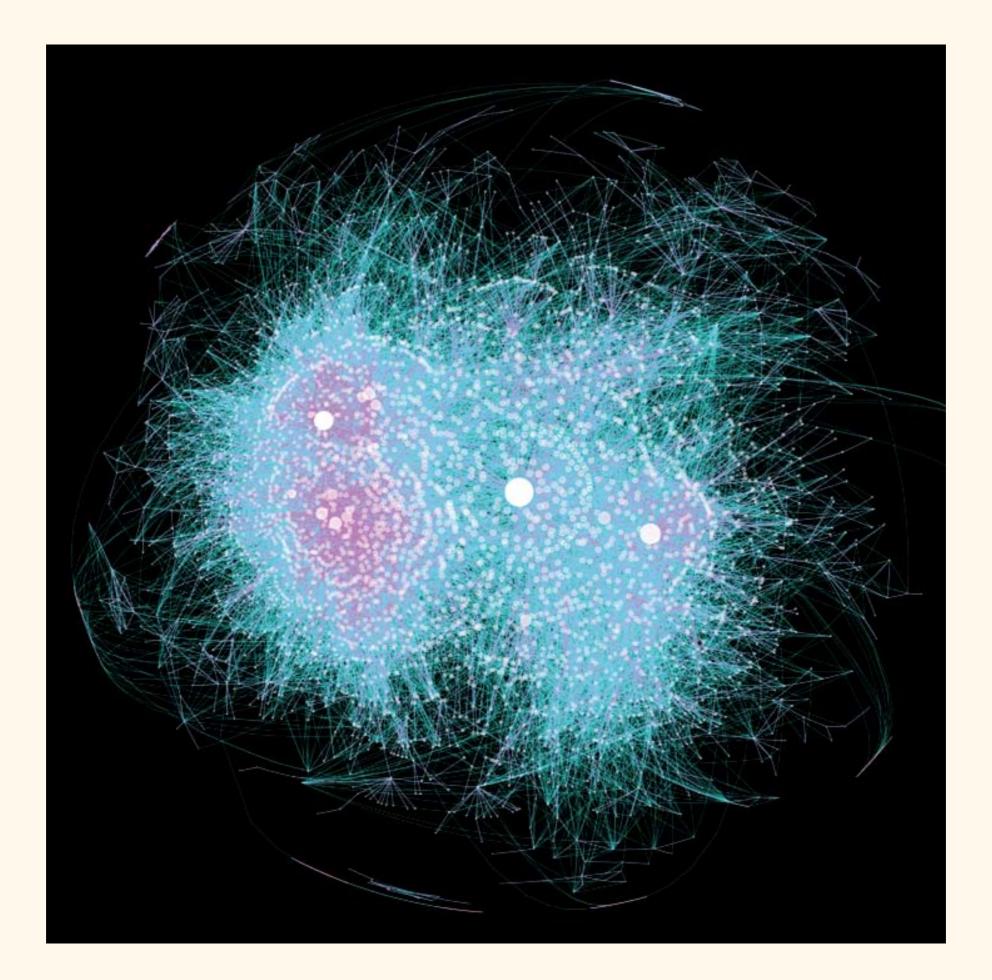
ons and labels

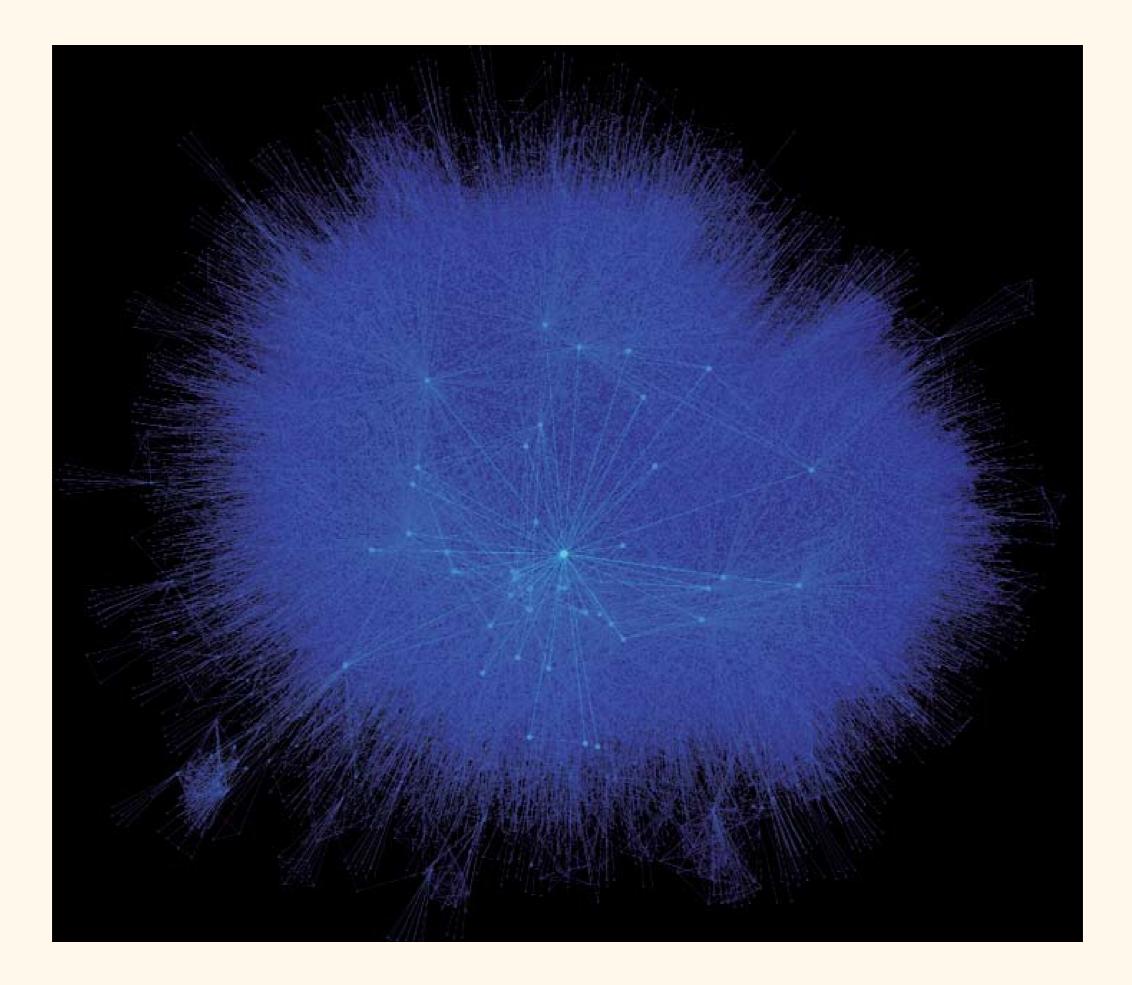
ional capital ital of sub-division ital of sub-sub-division able city ge

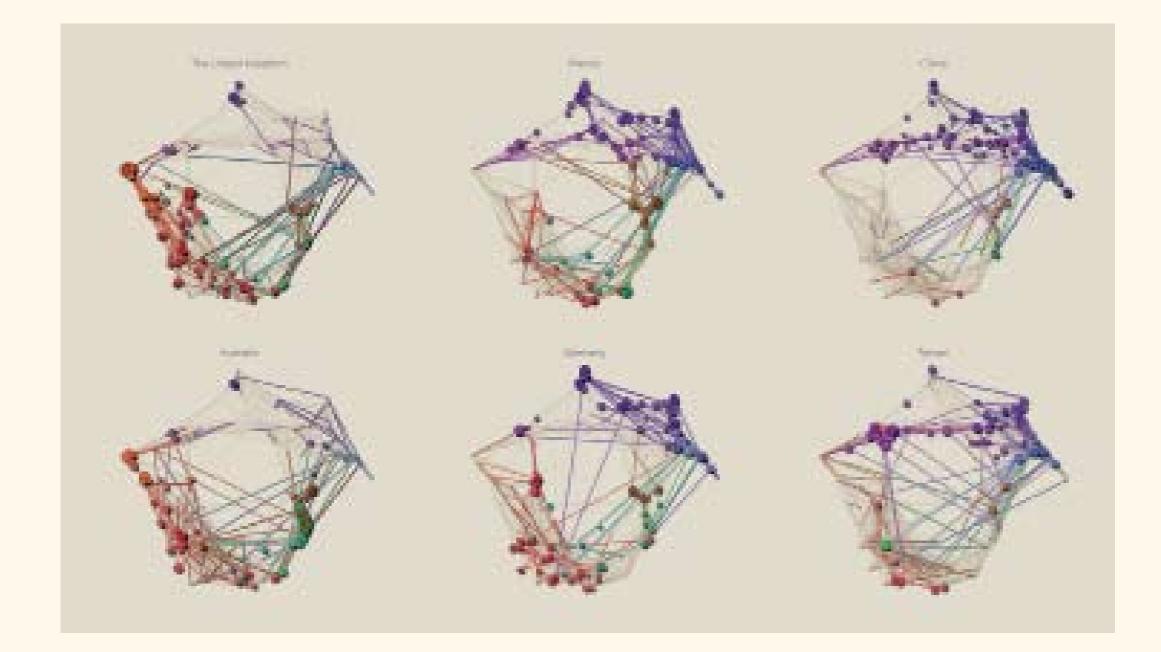
t (roads and buildings) Traffic Flow Map, TeleGeography

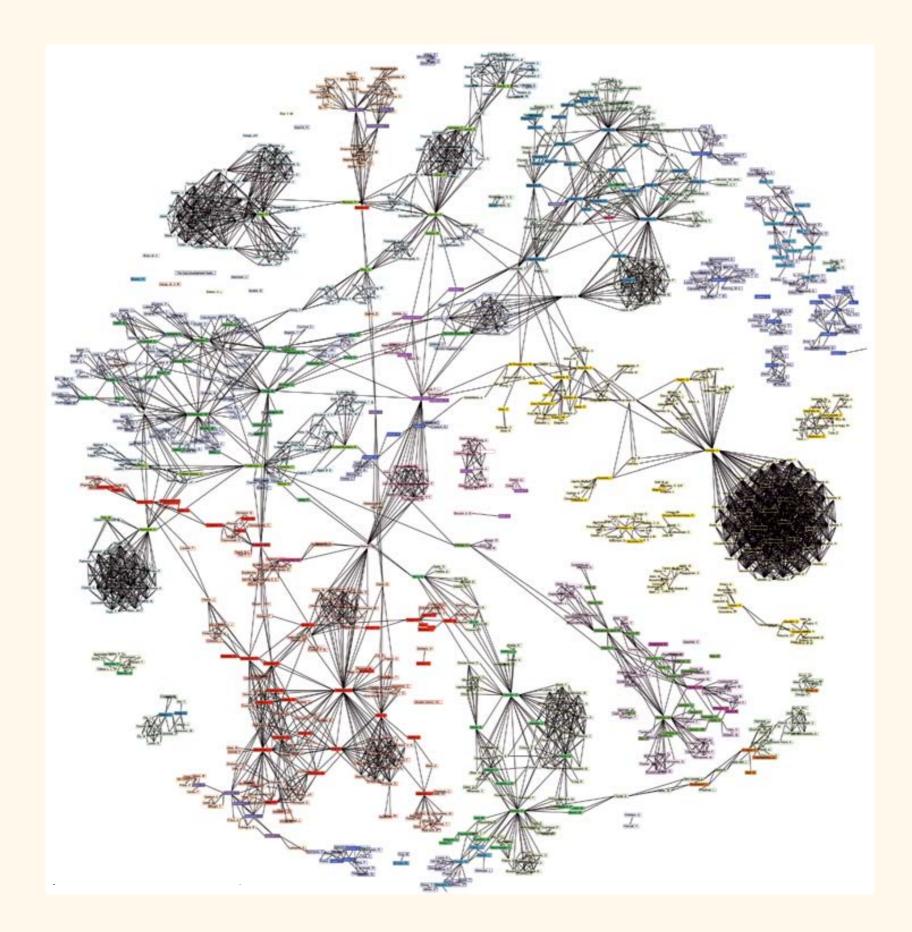
Mixing metaphors:

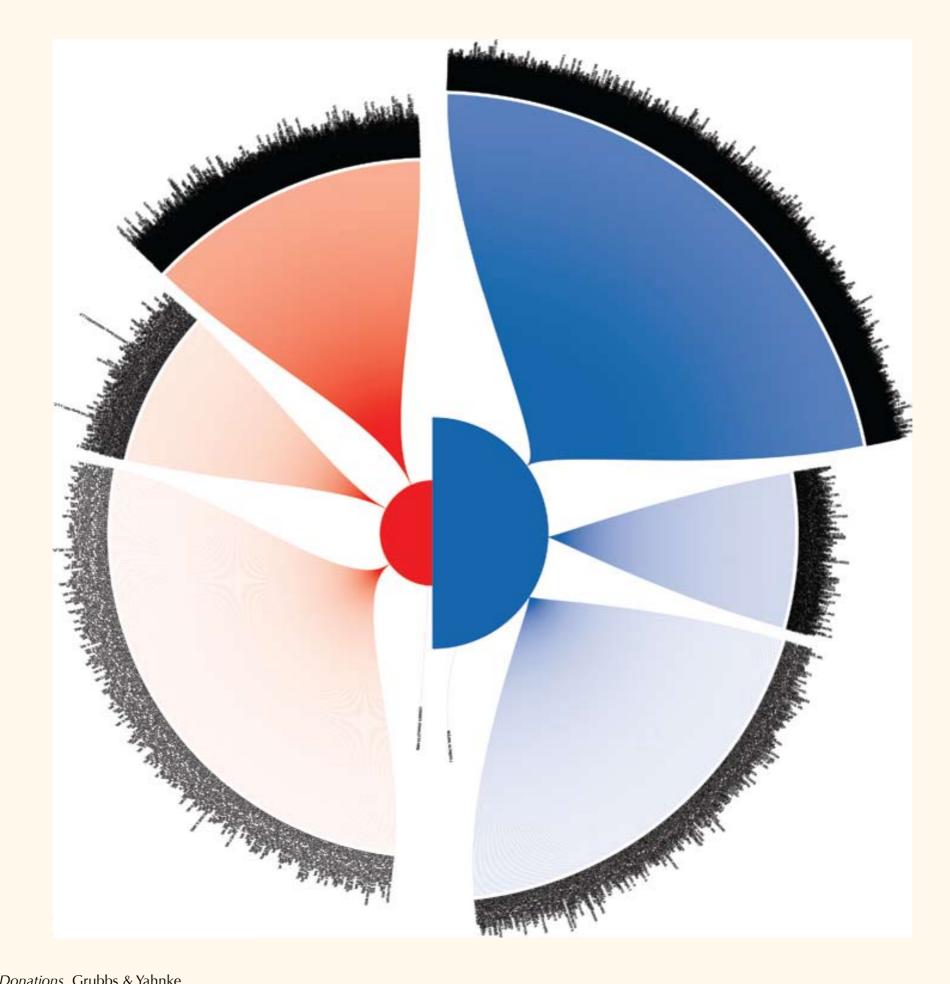


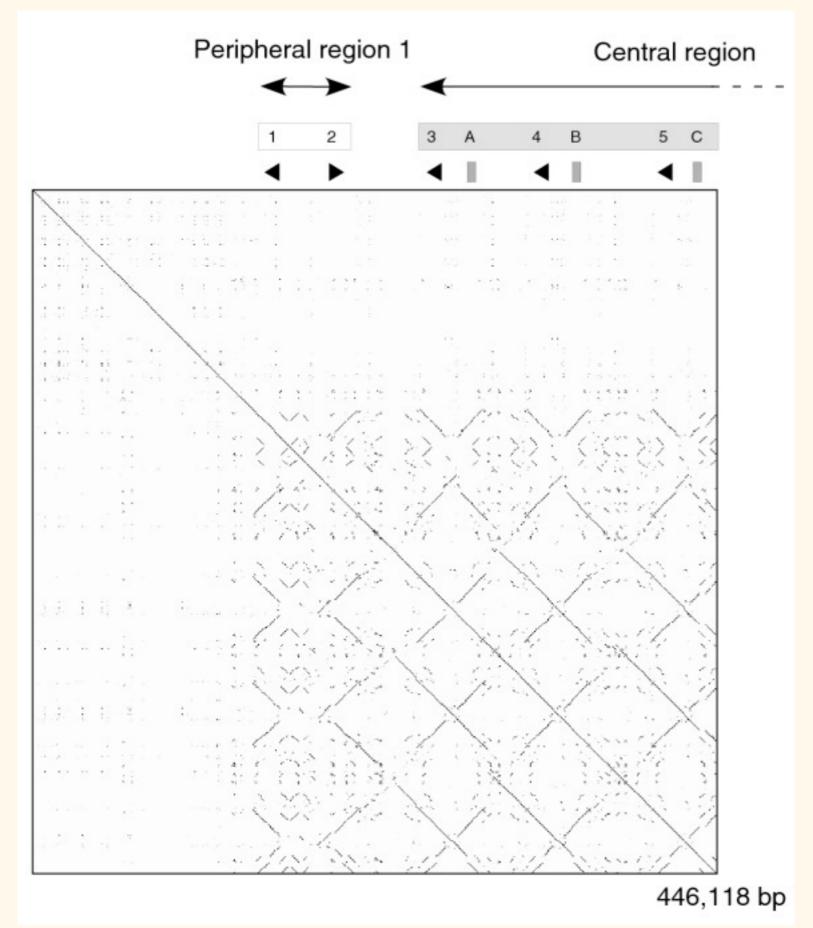




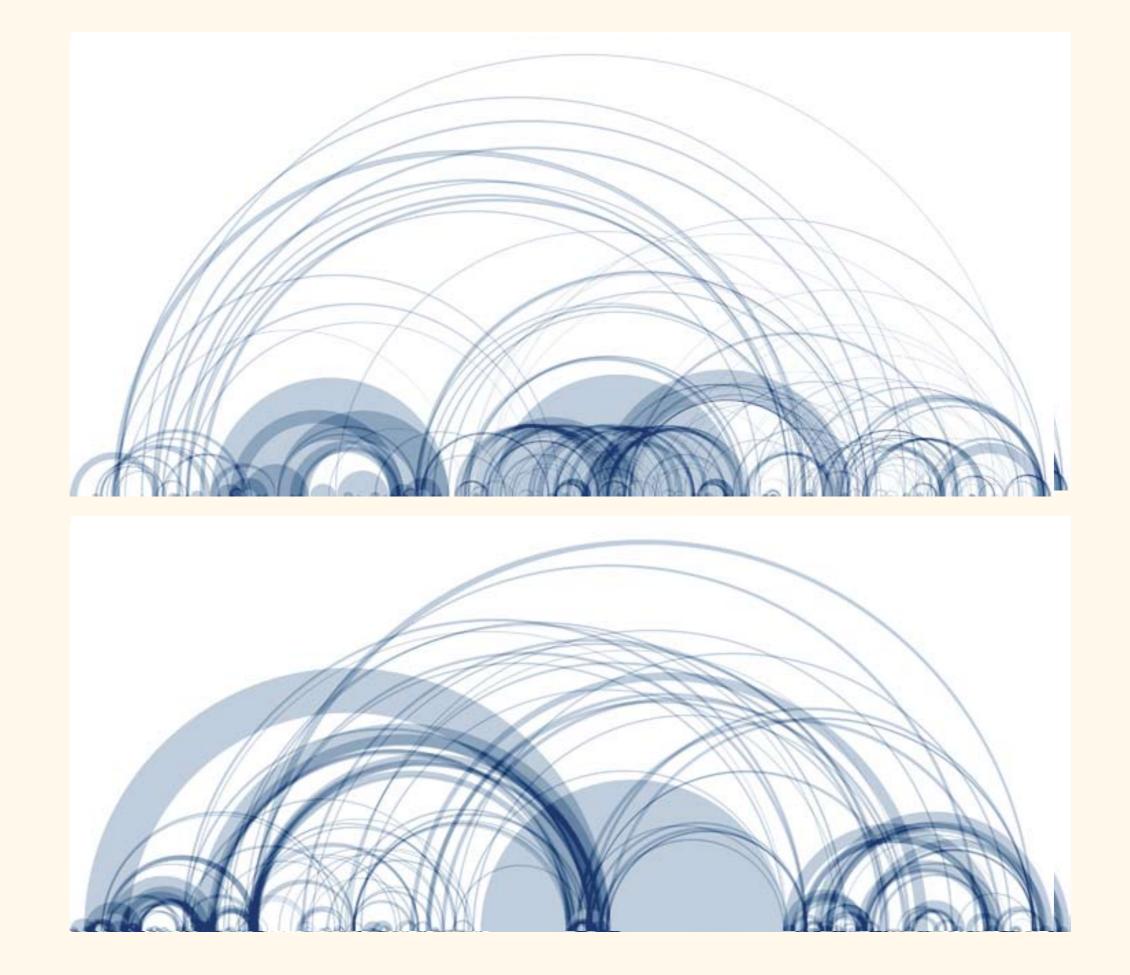




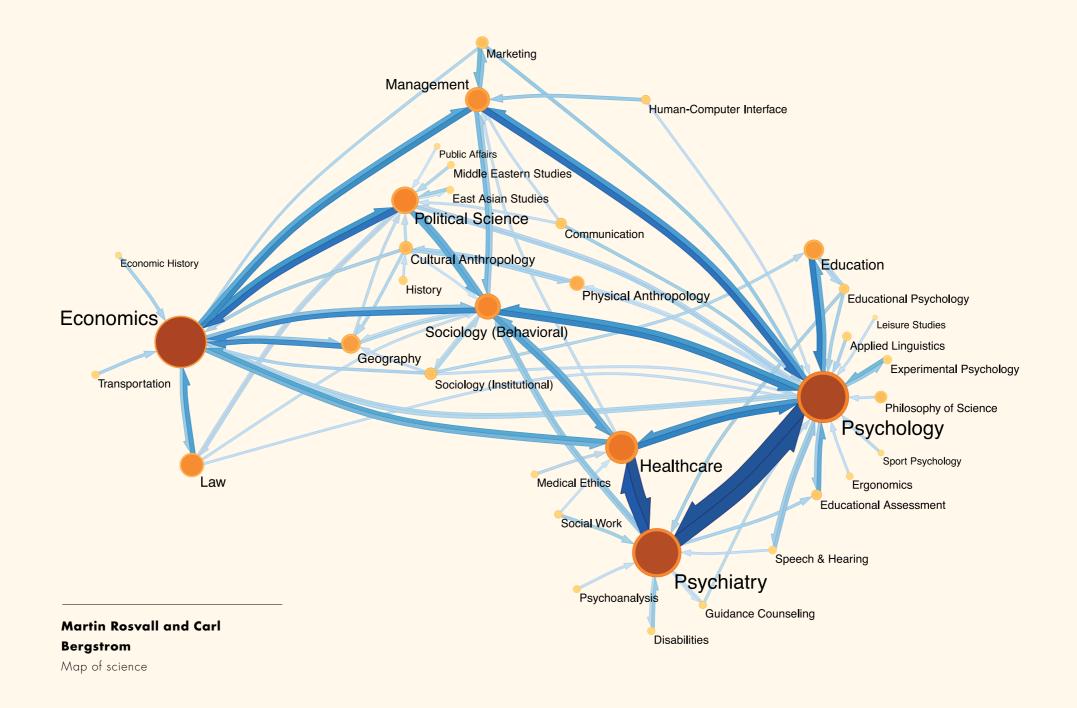




Jonathan M Mudge, Stuart D Armstrong, Karen McLaren, Robert J Beynon, Jane L Hurst, Christine Nicholson, Duncan H Robertson, Laurens G Wilming, and Jennifer L Harrow -Dynamic instability of the major urinary protein gene family revealed by genomic and phenotypic comparisons between C57 and 129 strain mice, Genome Biol. 2008; 9(5): R91.



To smooth, or not to smooth?



To smooth, or not to smooth?

