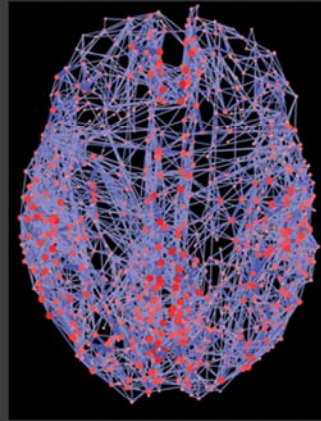


The Human Connectome



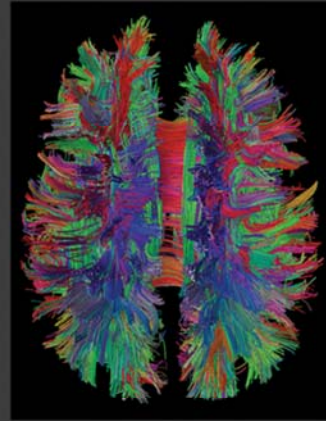
Anatomy

Klingler's method for fiber tract dissection uses freezing of brain matter to spread nerve fibers apart. Afterwards, tissue is carefully scratched away to reveal a relief-like surface in which the desired nerve tracts are naturally surrounded by their anatomical brain areas.



Connectome

Shown are the connections of brain regions together with "hubs" that connect signals among different brain areas and a central "core" or backbone of connections, which relays commands for our thoughts and behaviors.

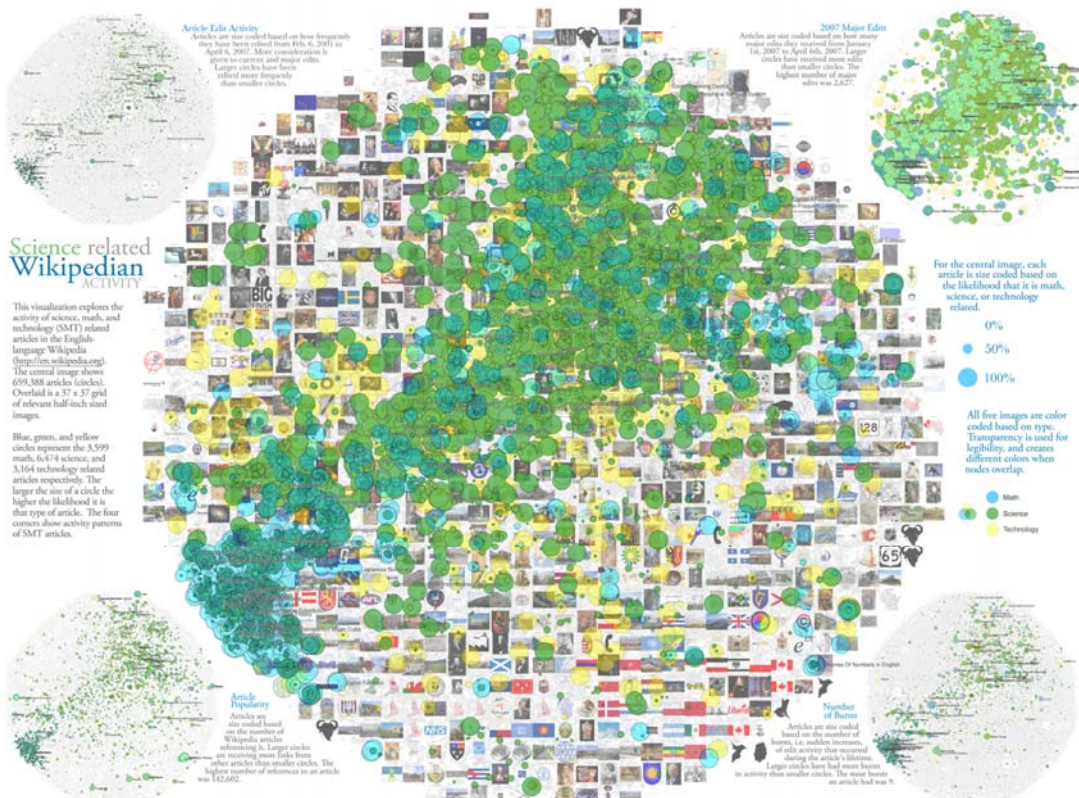


Neuronal Pathways

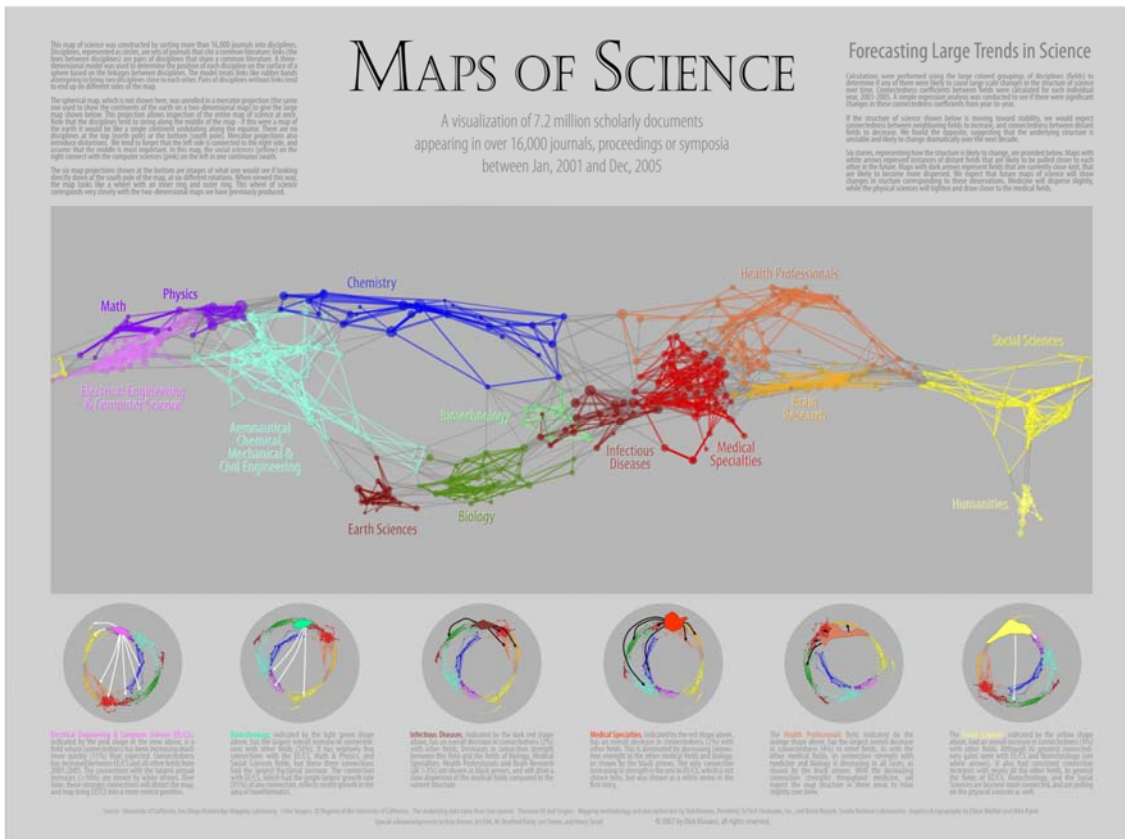
A new MRI technique called diffusion spectrum imaging (DSI) analyzes how water molecules move along nerve fibers. DSI can show a brain's major neuron pathways and will help neurologists relate structure to function.

The Human Connectome - Eugen Ludwlg, Josef Klingler, Patric Hagmann & Olaf Sporns – 2008

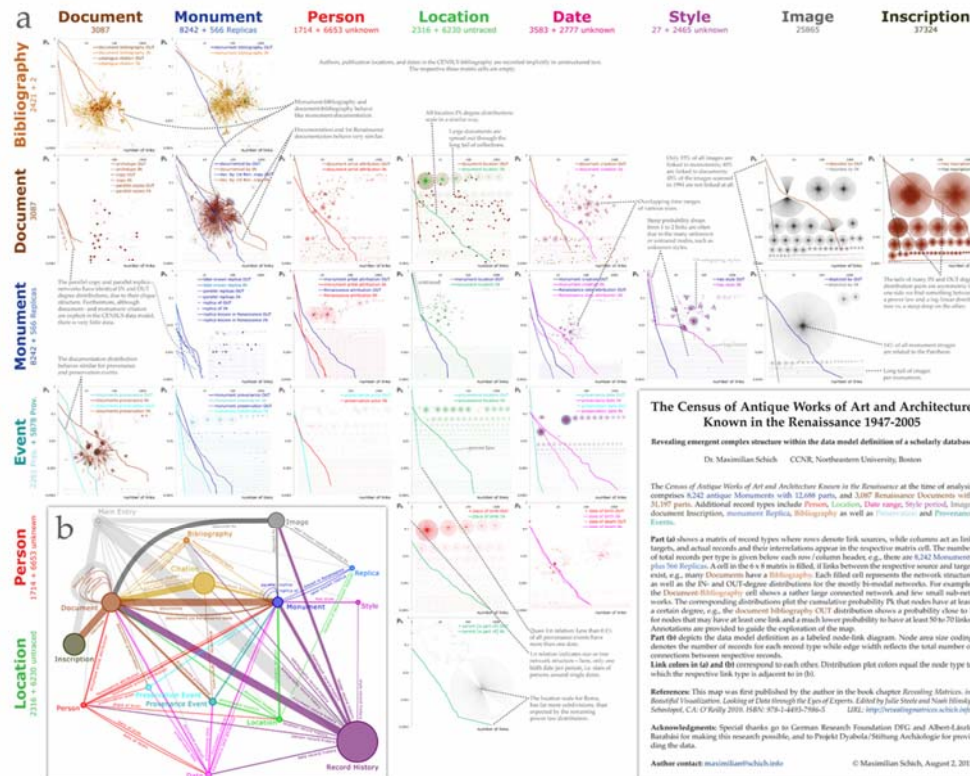
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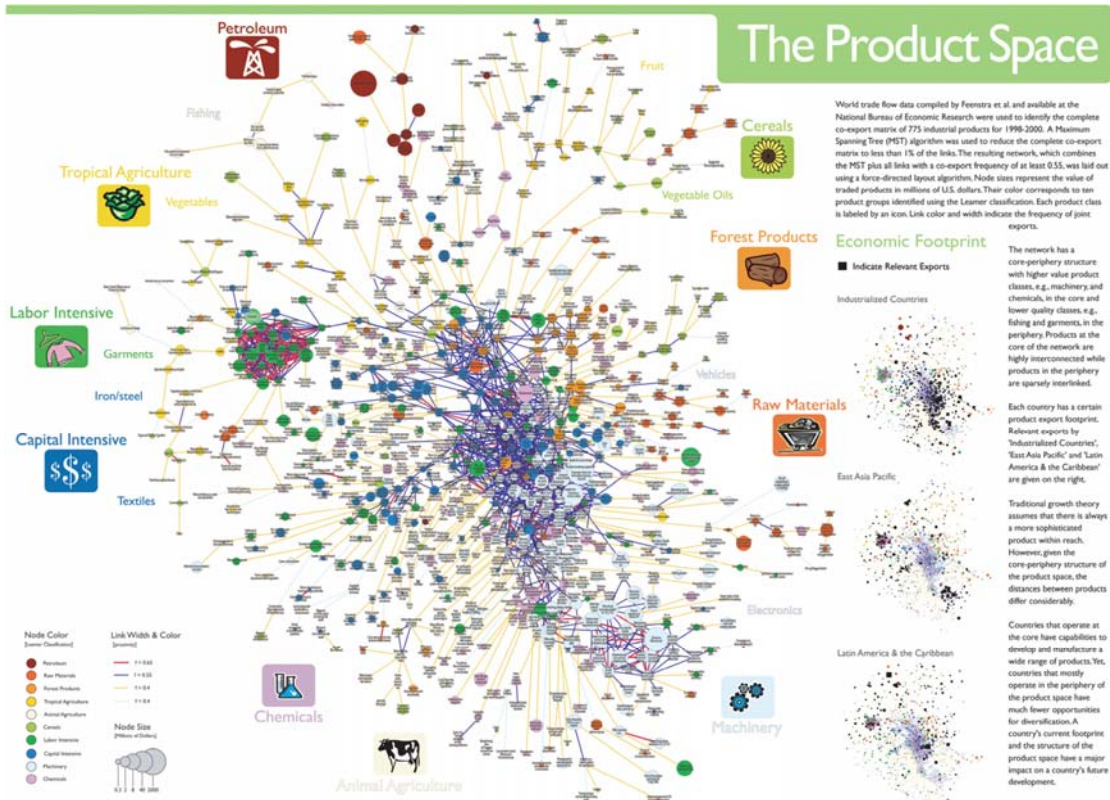
Science-Related Wikipedia Activity - Bruce W. Herr II, Todd Holloway, Katy Börner, Elisha F. Hardy & Kevin Boyack - 2007



Maps of Science: Forecasting Large Trends in Science - Richard Klavans & Kevin Boyack - 2007



The Census of Antique Works of Art and Architecture Known in the Renaissance, 1947-2005 - Maximilian Schich - 2011



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