

2.1 Tri par la granularité spatiale

2.1.1 Etats > cantons

Analyses portant sur les évolutions et/ou sur les échanges entre entités politiques largement autonomes, le plus souvent de grande dimension, formant ou non un territoire continu.

(> cas typique : flux migratoire d'Etat à Etat)

Analyses portant sur les évolutions et/ou sur les échanges entre entités politiques ou administratives formant réseau au sein d'entités constituant des ensembles cohérents plus larges, ensembles au sein desquels on cherche à isoler et comparer des motifs spatio-temporels divergents ou convergents.

(> cas typique : statistiques démographiques à l'intérieur d'un ou de plusieurs pays)

a) publications

Andrienko N., Andrienko G., Gatalsky P. (2003) *Exploratory spatio-temporal visualization: an analytical review* Journal of Visual Languages and Computing 14 (2003) 503-541.
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Banos, A., Lacasa, J. (2007) *Spatio-temporal exploration of SARS epidemic*. Cybergeog : European Journal of Geography [En ligne], Systèmes, Modélisation, Géostatistiques, document 408.
<http://cybergeog.revues.org/12803> (acc 15 09 2013)



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<https://svn.labri.fr/visu/EuroVis%202011/eurovis2011/pdf/v30i3pp0971-0980.pdf> (acc 30 09 2013)

Boyandin I, Bertini E, Lalanne D (2012) *A Qualitative Study on the Exploration of Temporal Changes in Flow Maps with Animation and Small-Multiples*. Eurographics Conference on Visualization (EuroVis 2012) Vol 31 n3 <http://diuf.unifr.ch/people/boyandii/papers/jflowmap-user-study.pdf> (acc 17 09 2013)

Boyandin I, Bertini E, Lalanne D (2010) *Using Flow Maps to Explore Migrations Over Time*. Proceedings of Geospatial Visual Analytics Workshop in conjunction with The 13th AGILE International Conference on Geographic Information Science (GeoVA)
<http://diuf.unifr.ch/main/diva/sites/diuf.unifr.ch.main.diva/files/jflowmap-geova10.pdf> (acc 12 06 2013)

Fabrikant, S.I. (2005). *Towards an understanding of geovisualization with dynamic displays*. Proceedings, American Association for Artificial Intelligence (AAAI) 2005 Spring Symposium Series: Reasoning with Mental and External Diagrams: Computational Modeling and Spatial Assistance. Stanford University, CA, Mar. 21-23, 2005: 6-11. <http://www.aaai.org/Papers/Symposia/Spring/2005/SS-05-06/SS05-06-003.pdf> (acc 11 09 2013)

Fabrikant, S. I. and Goldsberry, K. (2005). *Thematic relevance and perceptual salience of dynamic geovisualization displays*. Proceedings 22th ICA/ACI International Cartographic Conference, A Coruña, Spain, Jul. 9-16, 2005.
http://www.geog.ucsb.edu/~sara/html/research/pubs/fabrikant_goldsberry_ica05.pdf (acc 11 09 2013)

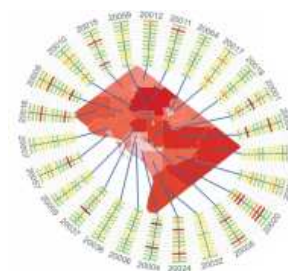
Friendly M. (2002) *Visions and Re-Visions of Charles Joseph Minard* Journal of Educational and Behavioral Statistics Spring 2002, Vol. 27, No. 1, pp. 31-51 <http://www.datavis.ca/papers/jeps.pdf> (acc 02 10 2013)

Goovaerts P., (2010) *Three-dimensional Visualization, Interactive Analysis and Contextual Mapping of Space-time Cancer Data* 13th AGILE International Conference on Geographic Information Science 2010 http://www.agile-online.org/Conference_Paper/CDs/agile_2010/ShortPapers_PDF/89_DOC.pdf (acc 26 08 2013)

Hardisty F., Klippel A.(2010) *Analysing Spatio-Temporal Autocorrelation with LISTA-Viz*. International Journal of Geographical Information Science Volume 24, Issue 10, 2010.
<http://cognitivegis.psu.edu/pdfs/hardisty2010analysing.pdf> (acc 27 08 2013)

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Huang G. et al. (2008) *Geovisualizing Data with Ring Maps*. Esri ArcUser Winter 2008.
<http://www.esri.com/news/arcuser/0408/files/ringmaps.pdf>
(acc 06 08 2013)



Johnson, I. (2004) *Putting Time on the Map: Using TimeMap for Map Animation and Web Delivery*
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http://www.timemap.net/tm/documents/publications/200408_geoinformatics.pdf (acc 17 09 2013)

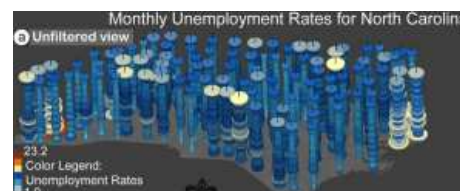
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<http://diuf.unifr.ch/people/lalanned/Articles/isit10.pdf> (acc 19 03 2013)

Phan D., Xiao L., Yeh R., Hanrahan P., Winograd T. (2005). *Flow Map Layout*
Proc. INFOVIS '05 Proceedings of the Proceedings of the 2005 IEEE Symposium on Information Visualization
http://graphics.stanford.edu/papers/flow_map_layout/ (acc 14 06 2013)

Rød J.K. (2003) *ViewConflicts: Software for Visualising Spatiotemporal Data on Armed Conflicts* Geography, Conflict and Cooperation ECPR Joint Session, Edinburgh, UK
http://www.geomatikk.ntnu.no/viewConflicts/papers/ECPR_paper.pdf (acc 26 08 2013)

Thakur S., Rhyne T.M. (2009) *Data Vases: 2D and 3D Plots for Visualizing Multiple Time Series*.
Advances in Visual Computing Proc. ISVC 2009 Springer.
http://www.renci.org/~sthakur/pubs/isvc09_SidThakur_Data_Vases.pdf (acc 22 09 2013)



Tomaszewski B., MacEachren A.M. (2012) *Geovisual analytics to support crisis management: Information foraging for geo-historical context* Information Visualization 11(4) 339-359
http://www.geovista.psu.edu/publications/2012/Tomaszewski_InformationVisualization_12.pdf (acc 22 09 2013)

Tominski C., Schumann H., Andrienko G., Andrienko N. (2012) *Stacking-Based Visualization of Trajectory Attribute Data*
IEEE Transactions on Visualization and Computer Graphics (Proceedings IEEE Information Visualization 2012), vol. 18(12). http://www.informatik.uni-rostock.de/~ct/pub_files/Tominski12TrajectoryVis.pdf (acc 14 03 2013)

Wood, J. & Dykes, J. (2008). *Spatially Ordered Treemaps*. IEEE Transactions on Visualization and Computer Graphics, 14(6), 1348 - 1355. <http://openaccess.city.ac.uk/536/> (acc 27 08 2013)

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b) demos en ligne

American migration interactive map
<http://www.forbes.com/special-report/2011/migration.html> (acc 24 08 2013)

Animated map of GCSE Results in England
<http://www.ons.gov.uk/ons/interactive/gcse-results-in-england---dvc23/index.html> (acc 10 09 2013)

Animeye (Eye-movement analyses of dynamic geovisualization displays)
<http://www.geog.ucsb.edu/~animeye/animations.htm> (acc 14 09 2013)

Crime and Poverty in the USA, 2000
http://www.carto.net/svg/us_crime_2000/ (acc 21 09 2013)

DATAR Observatoire des territoires module de cartographie interactive
<http://carto.observatoire-des-territoires.gouv.fr/> (acc 15 10 2013)

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Exploring the SARS epidemic: An animated cartography approach
http://arnaudbanos.perso.neuf.fr/SARS/sars_epidemic.html (acc 24 08 2013)

Histoire du Proche-Orient ancien
<http://arethuse1.free.fr/chronologie.php> (acc 10 10 2013)

InstantAtlas Dynamic Reports
<http://www.instantatlas.com/index.xhtmll> (acc 06 09 2013)

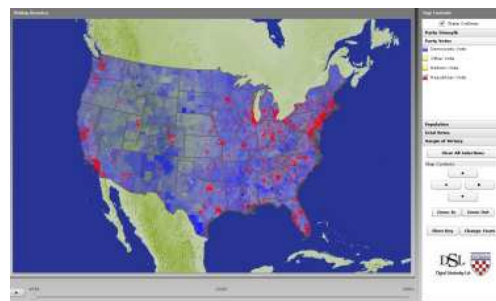
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<http://itineraires-romains-en-france.pagesperso-orange.fr/default.htm> (acc 10 10 2013)

JflowMap / Flowstrates
<http://code.google.com/p/jflowmap/wiki/Flowstrates> (acc 08 05 2013)

OECD Regional eXplorer
<http://stats.oecd.org/OECDregionalstatistics/#> (acc 06 04 2013)

Simulateur climatique Météo France
http://climat.meteofrance.com/jsp/site/Portal.jsp?page_id=12979 (acc 14 09 2013)

Voting America interactive maps
<http://dsl.richmond.edu/voting/index.html>
(acc 04 09 2013)



Animated maps of GCSE Results in England
<http://www.ons.gov.uk/ons/interactive/gcse-results-in-england---dvc23/index.html> (acc 04 09 2013)

What has ITC done with Minard's map?
<http://www.itc.nl/personal/kraak/1812/minard-itc.htm>
(acc 03 10 2013)