FiberClay: Sculpting Three Dimensional Trajectories to Reveal Structural Insights

Christophe Hurter, Nathalie Henry Riche, Steven M. Drucker, Maxime Cordeil, Richard Alligier, Romain Vuillemot
Traffic Analysis

C. Hurter, B. Tissoires, S. Conversy.
FromDaDy: spreading data across views to support iterative exploration of aircraft trajectories.

Traffic Dynamics

Visualisation, Selection, and Analysis of Traffic Flows. 
in IEEE Transactions on Visualization and Computer Graphics, Institute of Electrical and Electronics Engineers, 2015, PP (99)
Visual Simplification

County-to-county migration flow files (http://www.census.gov/population/www/cen2000/ctytoctyflow/). These data come from the Census 2000 long-form question on residence 5 years ago and contain the number of people who moved between counties.

Graph Bundling by Kernel Density Estimation.
Comp. Graph. Forum 31, 3pt1 (June 2012), 865-874.
Immersive Analytics
Interaction techniques

Scale

Pan/Data grasp

Rotation
Rendering modes

- Alpha Bendling
- Additive Bendling
- Solid Bendling
- Points/Animated Particule System
Brush Plus / Minus
Brush Union
Presets navigation
Conclusion

• Fiberclay is a flexible scalable Immersive Analytic system
• Take advantage of Immersive technology and multimodal interactions
• New interaction paradigms (Union Brushig, Small Multiple navigation)
• Demonstration of three use cases
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Data-Driven Storytelling
Nathalie Riche, Christophe Hurter, Nicholas Diakopoulos, Sheelagh Carpendale

Image-Based Visualization
Interactive Multidimensional Data Exploration

Christophe Hurter

Synthesis Lectures on Visualization
Niko Efrain, David Ebert, Series Editors