

Information Design

Attracting designers into data visualisation: why & how

Marina Geymonat – Research Projects

EICS 2014 - Industrial Panel

CNR Rome, Italy, June 19, 2014



engagment



behavioural psychology

EICS 2014 - Industrial Panel

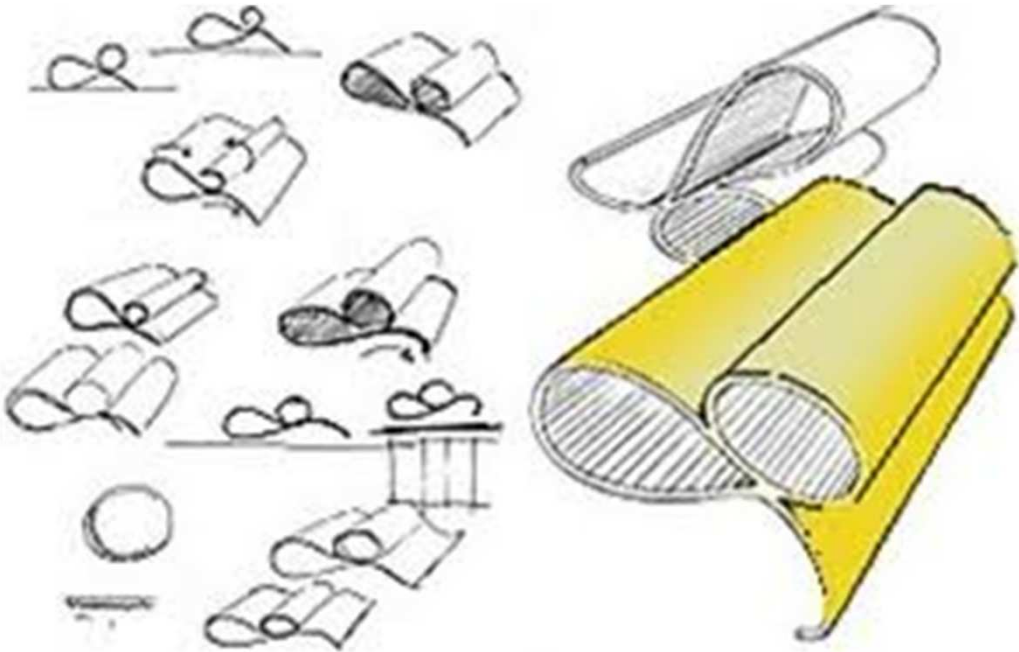
CNR Rome, Italy, June 19, 2014



social dynamics

purpose





user interaction models



But when it comes to **tools** for visualizing data...



EICS 2014 - Industrial Panel

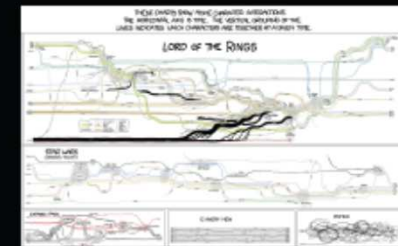
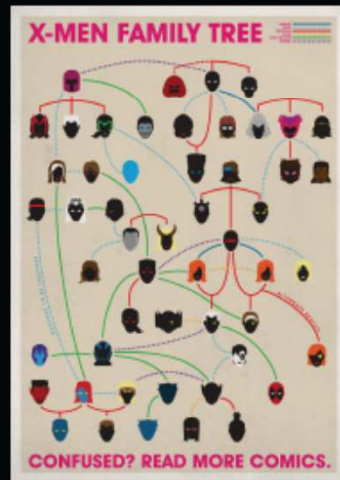
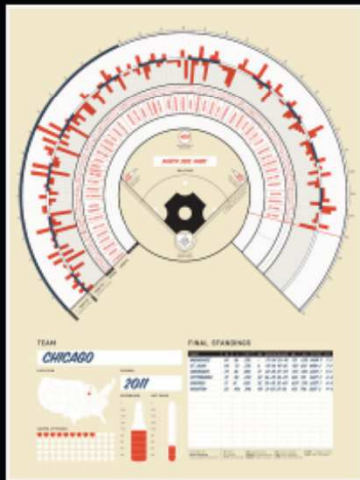
CNR Rome, Italy, June 19, 2014

... and when I told him to use **data analysis & visualization tools...**



Attracting designers into data visualization: **why**

INFOGRAPHICS



*images: visually.com,
wtfviz.org*

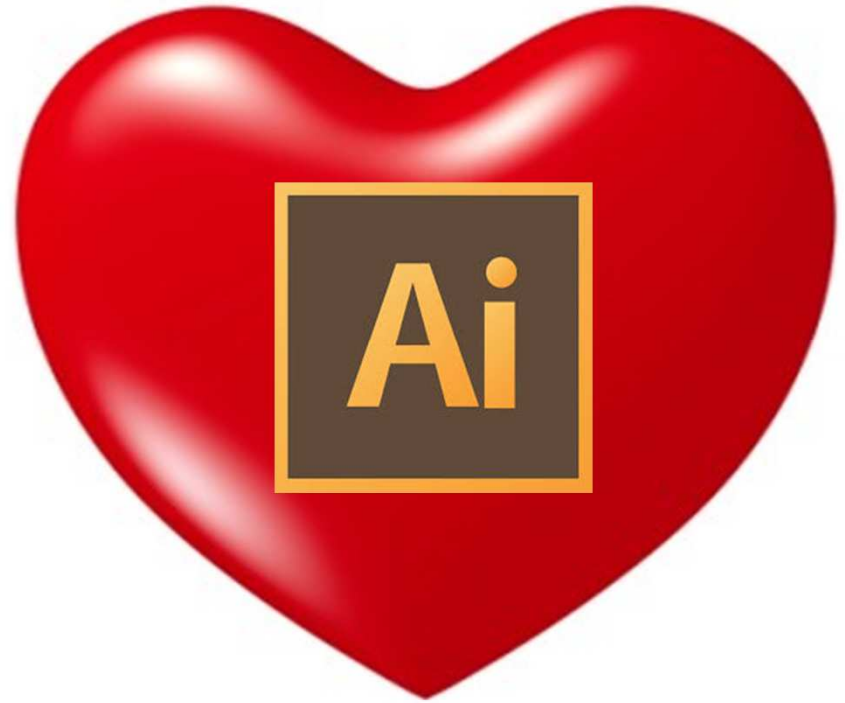
AVI 2014: Reflections on How Designers Design with Data

Alex Bigelow, Steven Drucker, Danyel Fisher, Miriah Meyer

University of Utah {abigelow, [miriah](mailto:miriah@cs.utah.edu)}@cs.utah.edu

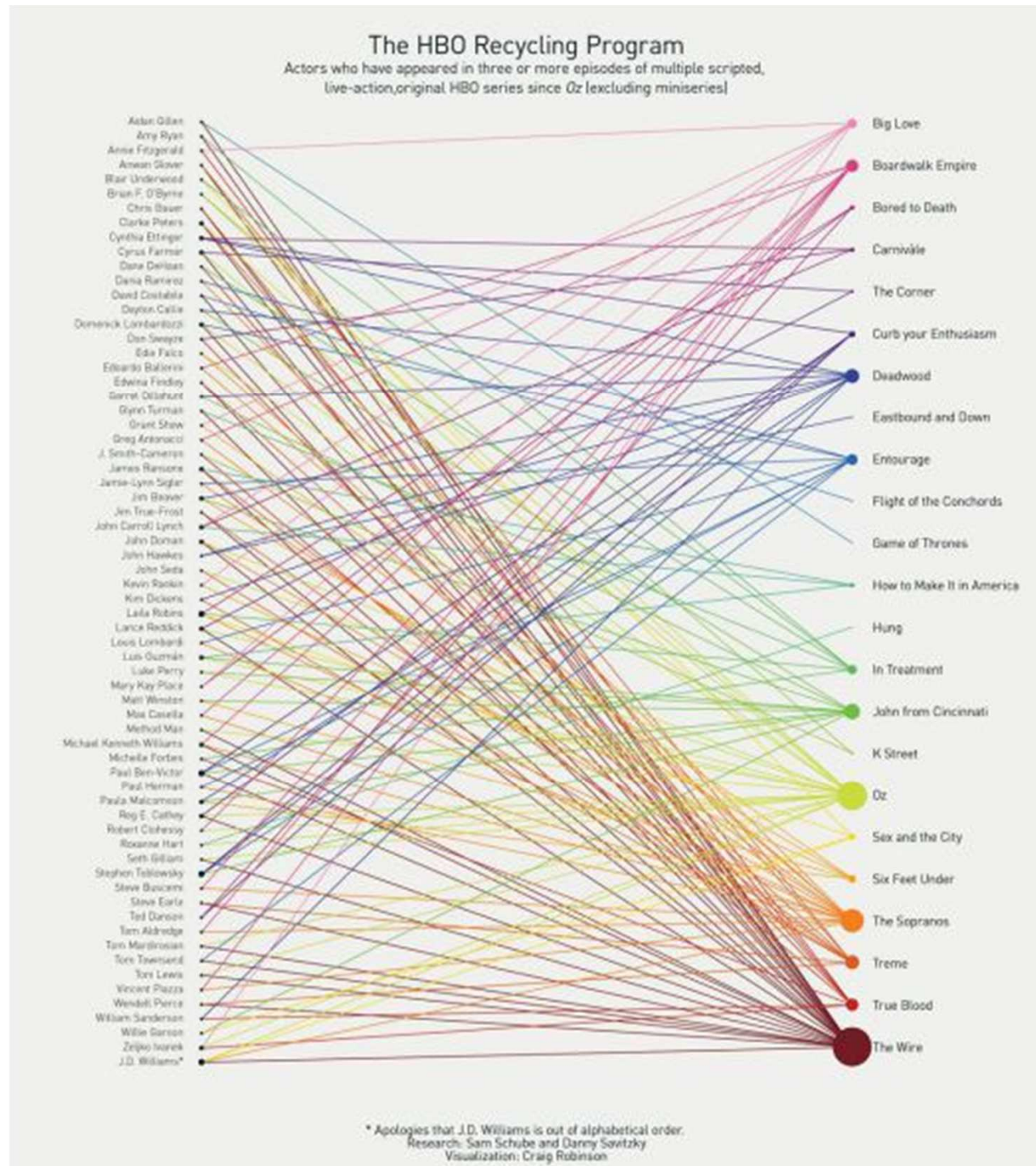
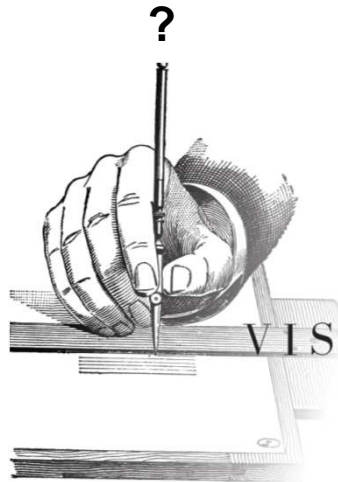
Microsoft Research {sdrucker, danyelf}@microsoft.com

based on data

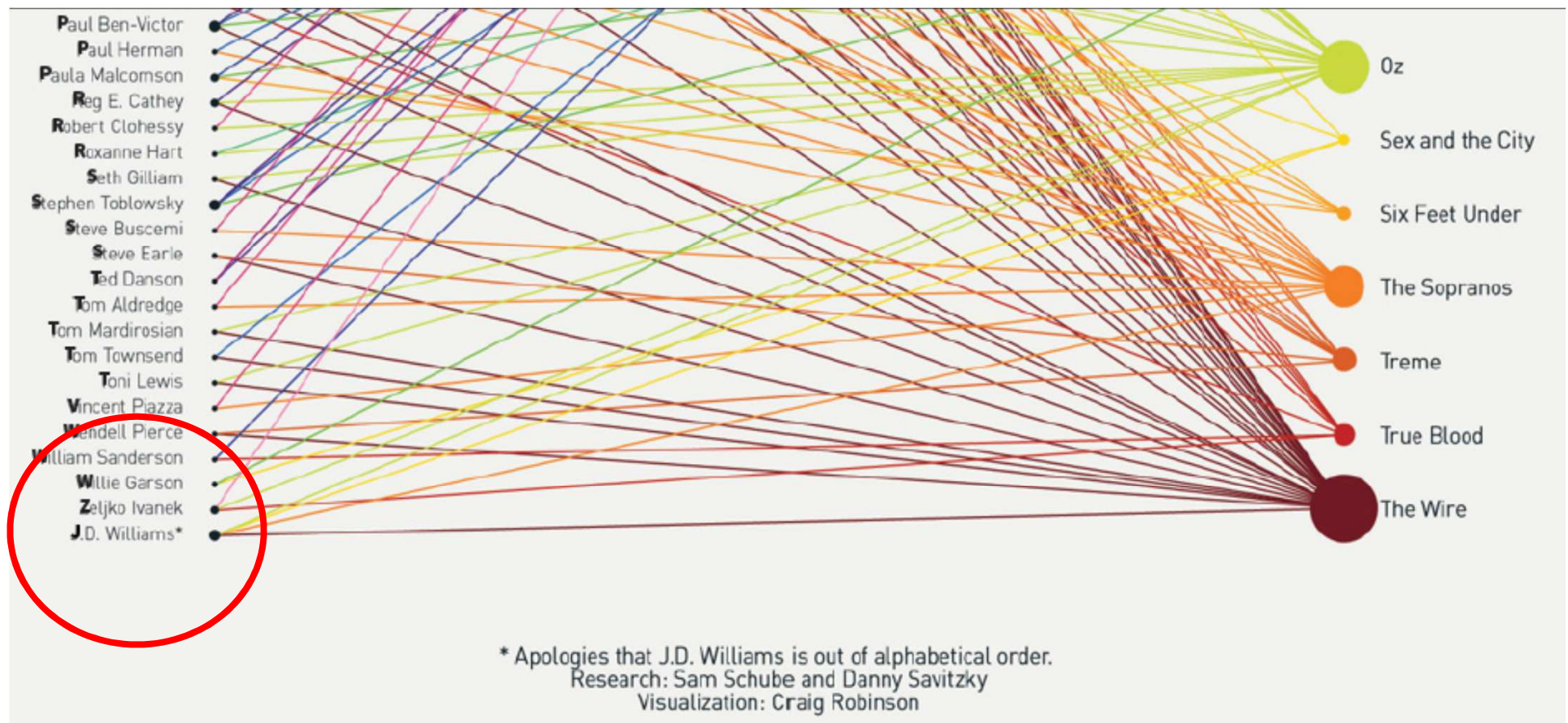


free from data

EICS 2014 - Industrial Panel
 CNR Rome, Italy, June 19, 2014



Attracting designers into data visualization: **why**



AVI 2014: Reflections on How
Designers Design with Data
Alex Bigelow



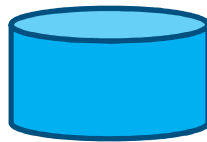
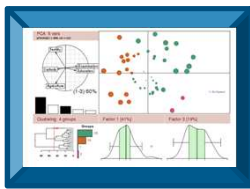
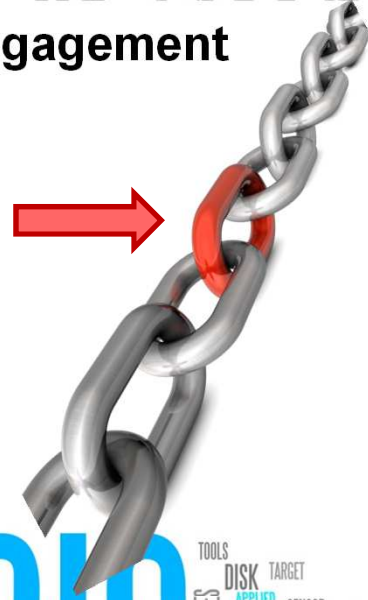
behavioural psychology

engagement

purpose

social dynamics

user interaction



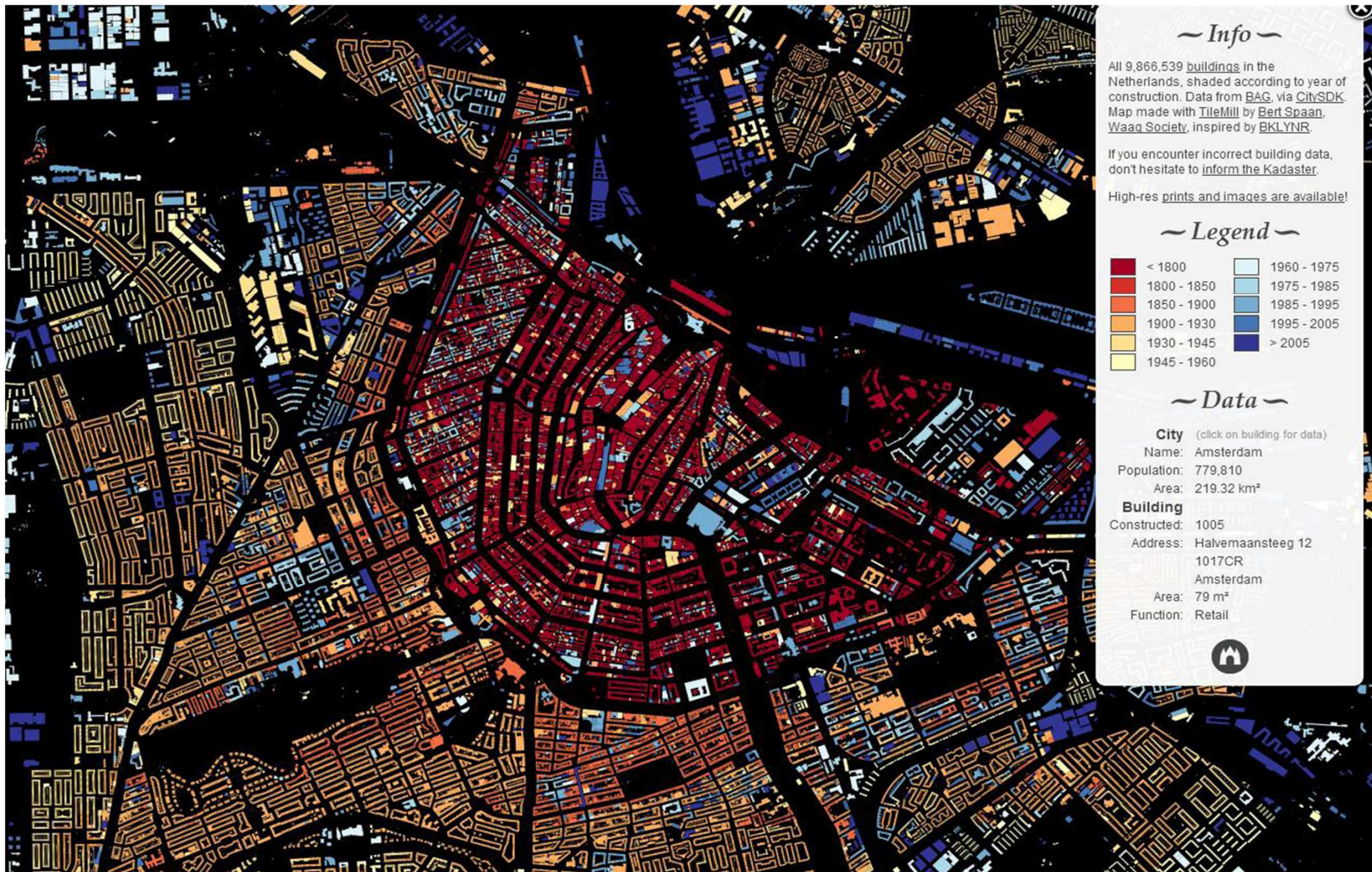
$$m_m = \frac{1}{4} \text{Re} \left\{ \int_{V_m} dv [i\omega \mathbf{A}_n - \nabla \phi_n]^* \cdot \mathbf{J}_m \right\}$$

$$\frac{1}{4} \text{Re} \left\{ \int_{V_m} dv \left[\int_{V_n} dv' \frac{e^{ik|\mathbf{r}_m - \mathbf{r}'_n|}}{4\pi|\mathbf{r}_m - \mathbf{r}'_n|} \left(i\omega \mu_0 \mathbf{J}_n + \frac{\rho_n \nabla}{\epsilon_0} \right) \right]^* \cdot \mathbf{J}_m \right\} \quad (38)$$

$$\frac{\omega}{16\pi} \int_{V_m} dv \int_{V_n} dv' \text{Re} \left\{ \left(\frac{\rho_n^* \rho_m}{\epsilon_0} - \mu_0 \mathbf{J}_n^* \cdot \mathbf{J}_m \right) \frac{e^{ik|\mathbf{r}_m - \mathbf{r}'_n|}}{4\pi|\mathbf{r}_m - \mathbf{r}'_n|} \right\}$$

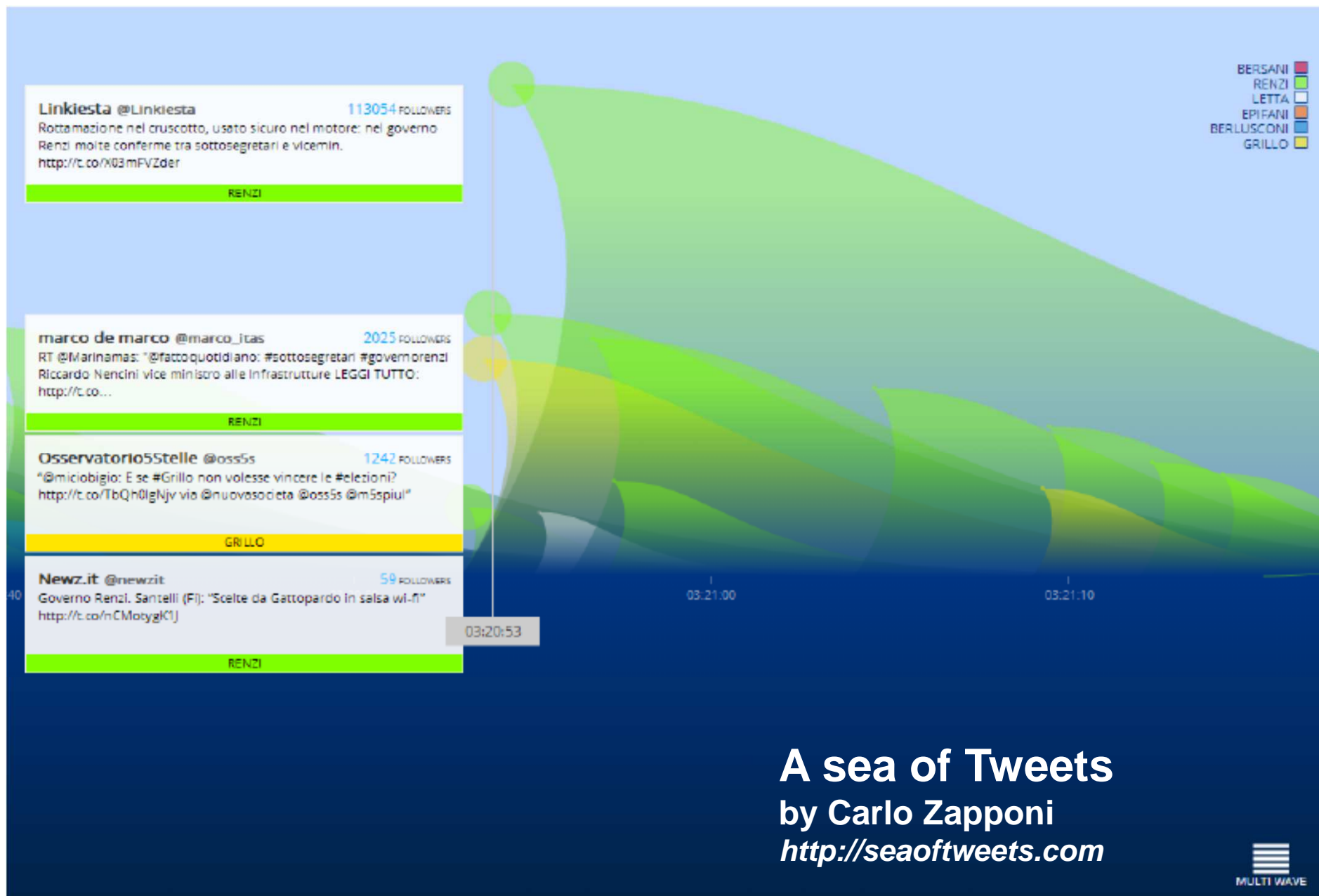


There are great examples



EICS 2014 - Industrial Panel

CNR Rome, Italy, June 19, 2014



Attracting (more) designers into data visualization: **how?**

Should designer become information scientists and/or viceversa?

Is there a need for more studies to fill the space “in between”?

Should we create easy tools for designing by hand but also linking to data?



marina.geymonat@telecomitalia.it

Thank you