Infographics Workshop

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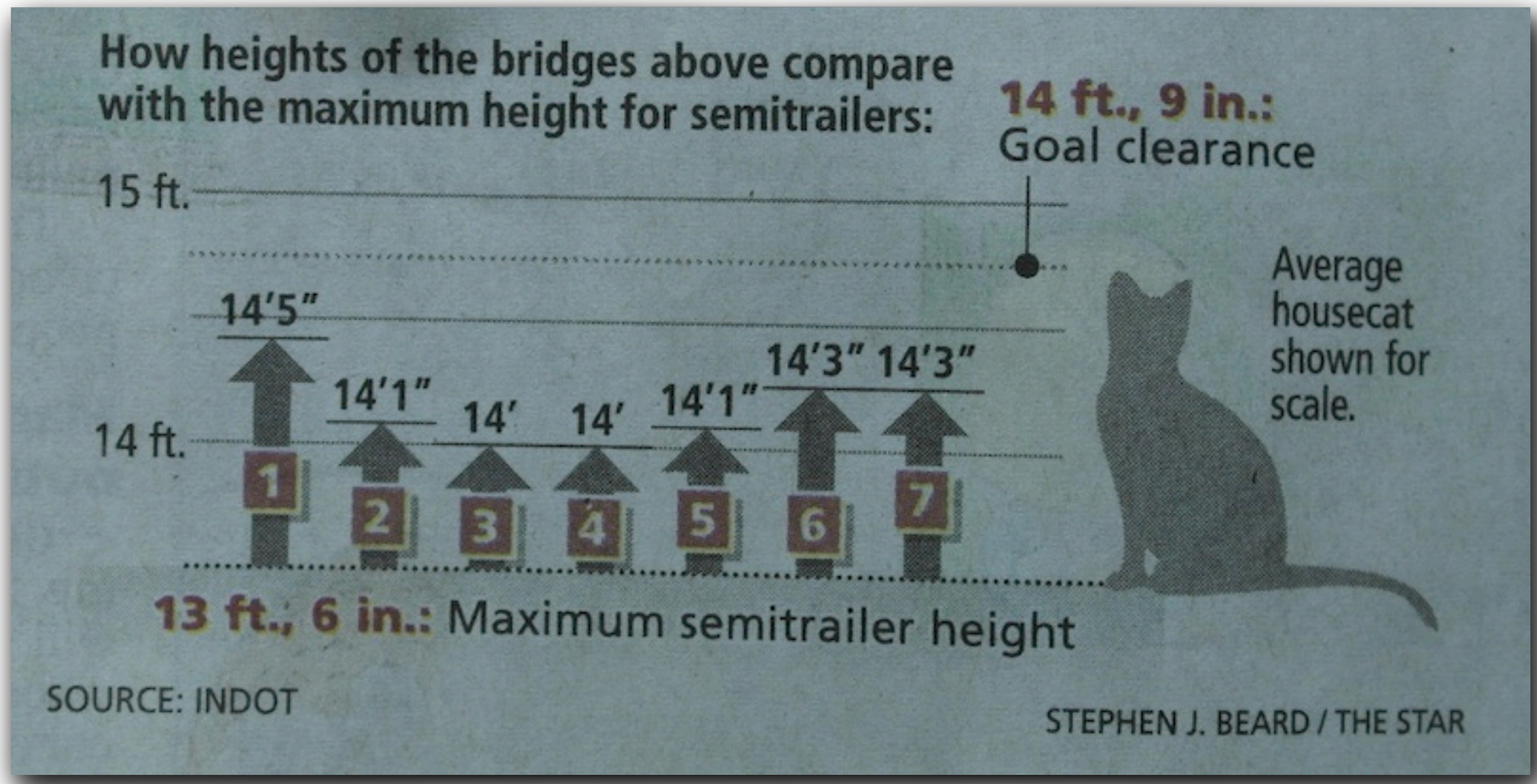
Program in Interdisciplinary Computing

Agenda

- Why Information Visualization?
- Infographics Demonstration — Tableau
- Creating Infographics — Hands-on Experience

How big is this cat?



Icebreaker

(With Rockets)


January 28, 1986

HISTORY OF O-RING DAMAGE ON SRM FIELD JOINTS

	SRM No.	Cross Sectional View: Erosion Depth (in.)	Cross Sectional View: Perimeter Affected (deg)	Cross Sectional View: Nominal Dia. (in.)	Top View: Length Of Max Erosion (in.)	Top View: Total Heat Affected Length (in.)	Clocking Location (deg)
61A LH Center Field**	22A	None	None	0.280	None	None	36°--66°
61A LH ~~CENTER~~ FIELD**	22A	NONE	NONE	0.280	NONE	NONE	338°-18°
51C LH Forward Field**	15A	0.010	154.0	0.280	4.25	5.25	163
51C RH Center Field (prim)***	15B	0.038	130.0	0.280	12.50	58.75	354
51C RH Center Field (sec)***	15B	None	45.0	0.280	None	29.50	354
41D RH Forward Field	13B	0.028	110.0	0.280	3.00	None	275
41C LH Aft Field*	11A	None	None	0.280	None	None	--
41B LH Forward Field	10A	0.040	217.0	0.280	3.00	14.50	351
STS-2 RH Aft Field	2B	0.053	116.0	0.280	--	--	90

*Hot gas path detected in putty. Indication of heat on O-ring, but no damage.
**Soot behind primary O-ring.
***Soot behind primary O-ring, heat affected secondary O-ring.

Clocking location of leak check port - 0 deg.

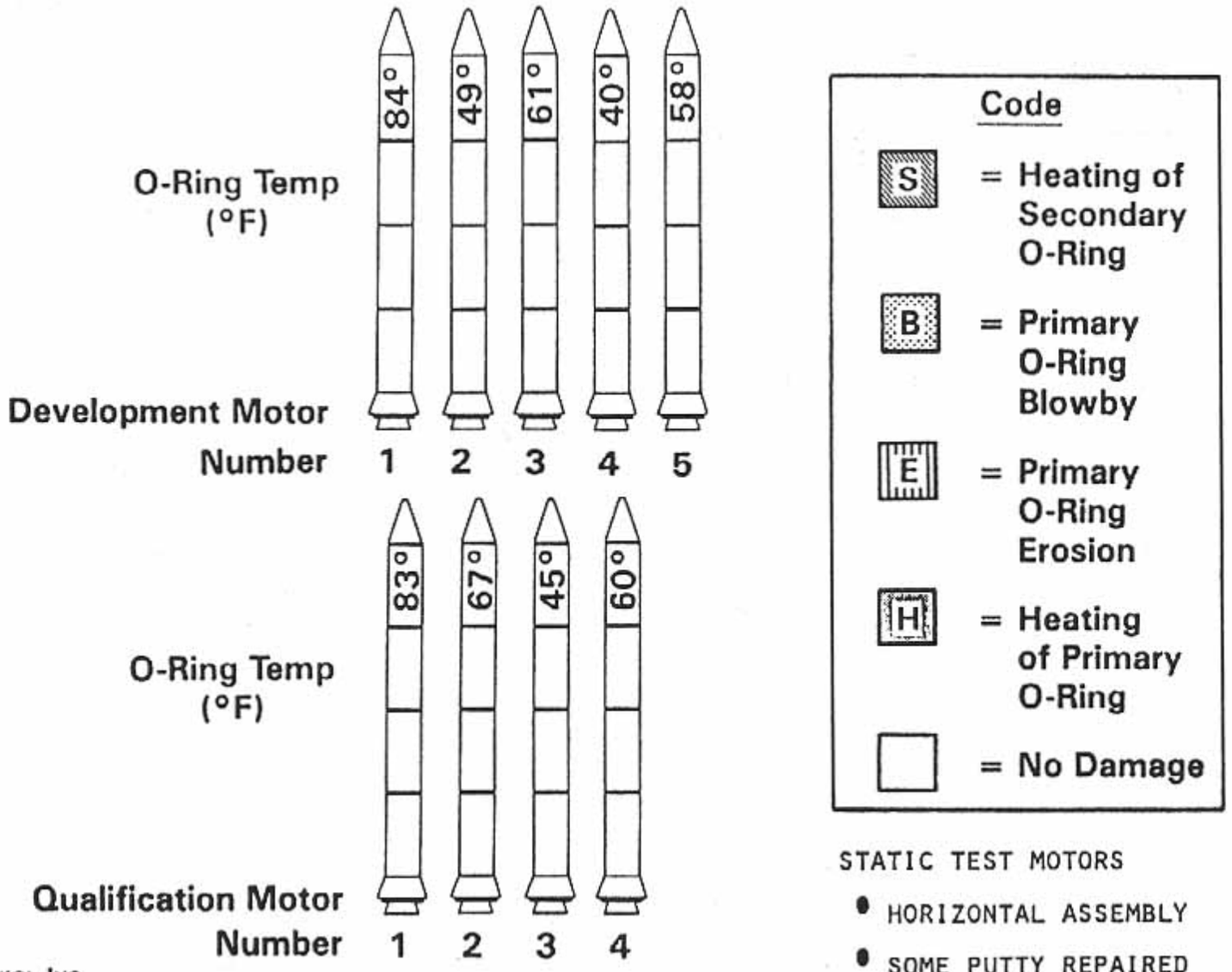
OTHER SRM-15 FIELD JOINTS HAD NO BLOWHOLES IN PUTTY AND NO SOOT NEAR OR BEYOND THE PRIMARY O-RING.

SRM-22 FORWARD FIELD JOINT HAD PUTTY PATH TO PRIMARY O-RING, BUT NO O-RING EROSION AND NO SOOT BLOWBY. OTHER SRM-22 FIELD JOINTS HAD NO BLOWHOLES IN PUTTY.

[Ref. 2-14-3 2 of 13]

History of O-Ring Damage in Field Joints

History of O-Ring Damage in Field Joints

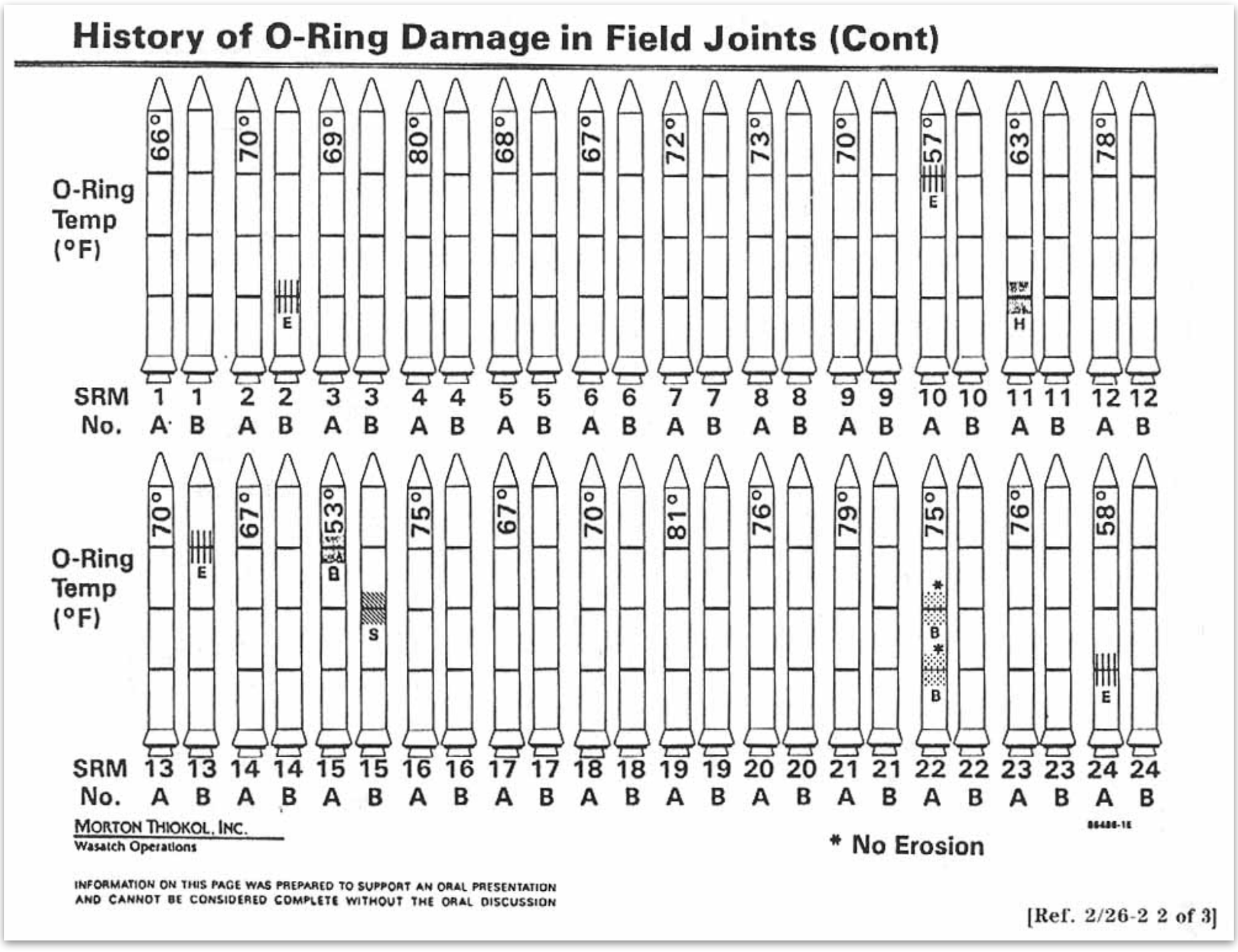


MORTON THIOKOL, INC.
Wasatch Operations

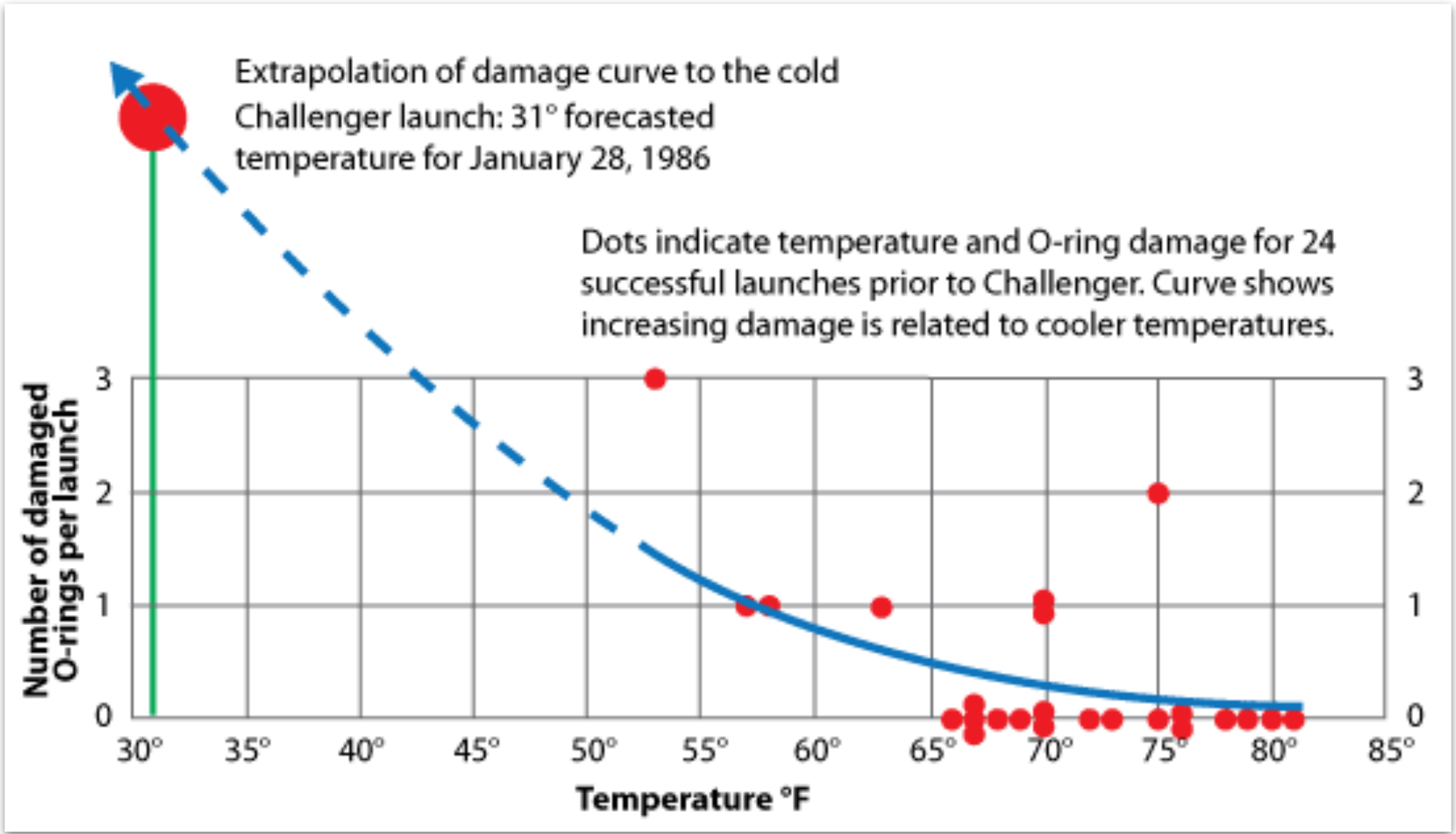
INFORMATION ON THIS PAGE WAS PREPARED TO SUPPORT AN ORAL PRESENTATION AND CANNOT BE CONSIDERED COMPLETE WITHOUT THE ORAL DISCUSSION

[Ref. 2/26-2 1 of 3]

History of O-Ring Damage in Field Joints



History of O-Ring Damage in Field Joints



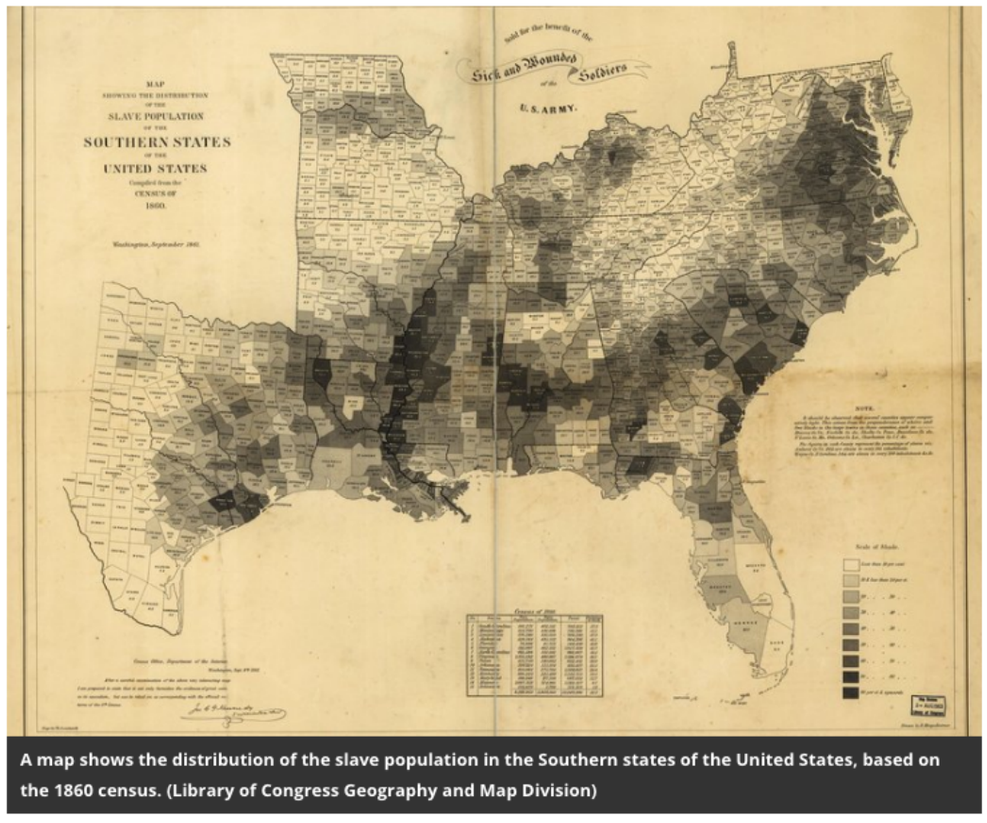
O-Ring Damage vs. Temperature
Edward Tufte (1997), *Visual Explanations*

O-Rings in Ice Water

Infographics are Important

The Surprising History of the Infographic

Early iterations saved soldiers' lives, debunked myths about slavery and helped Americans settle the frontier



A map shows the distribution of the slave population in the Southern states of the United States, based on the 1860 census. (Library of Congress Geography and Map Division)

http://www.smithsonianmag.com/history/surprising-history-infographic-180959563/

INFOGRAPHICS AS A CREATIVE ASSESSMENT

Infographics as a Creative Assessment

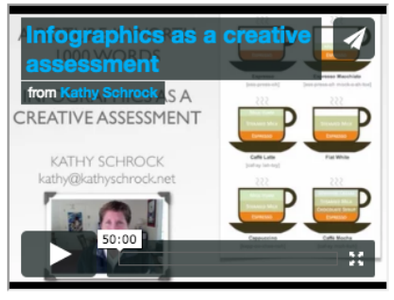
Infographics are a visual representation of data. When students create infographics, they are using information, visual, and technology literacies. This page includes links to help you develop formative or summative assessments that have students creating infographics to showcase their mastery of knowledge.

If you find a link that is not working, please let me know the title and I will fix it! Thank you!

BOOKS ON THE TOPIC

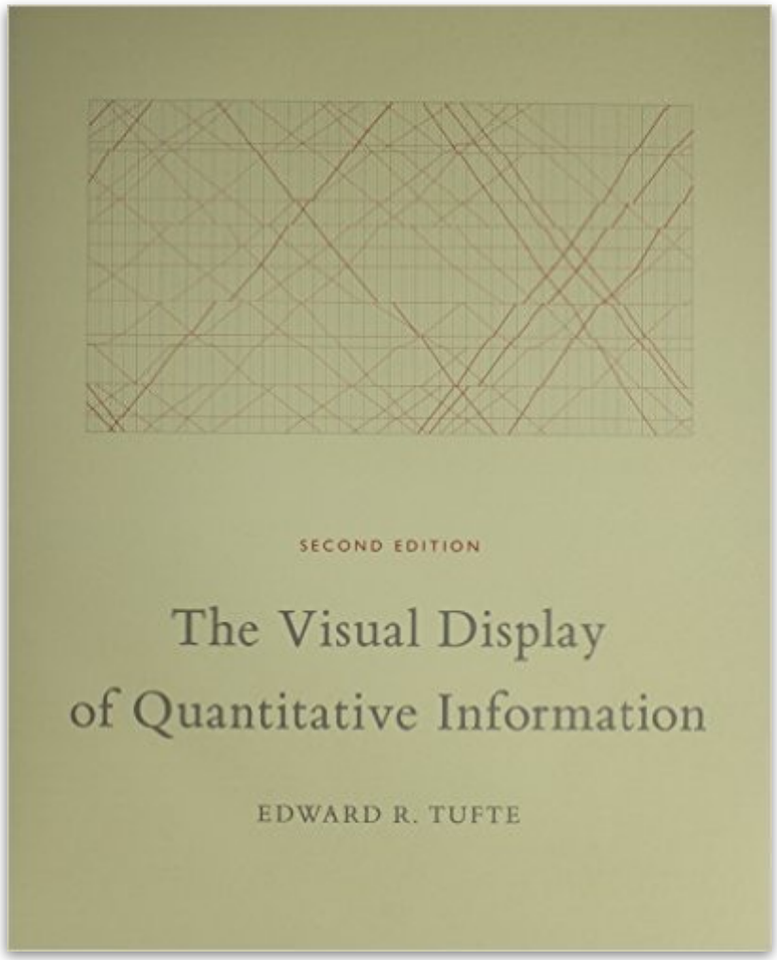
- Beegel: Infographics for Dummies
- Tufte: The Visual Display of Quantitive Information
- O'Grady: The Information Design Handbook
- Meyer: Designing Infographics
- Krum: Cool Infographics
- Crane: Infographics for Librarians
- Creighton: School Library Infographics

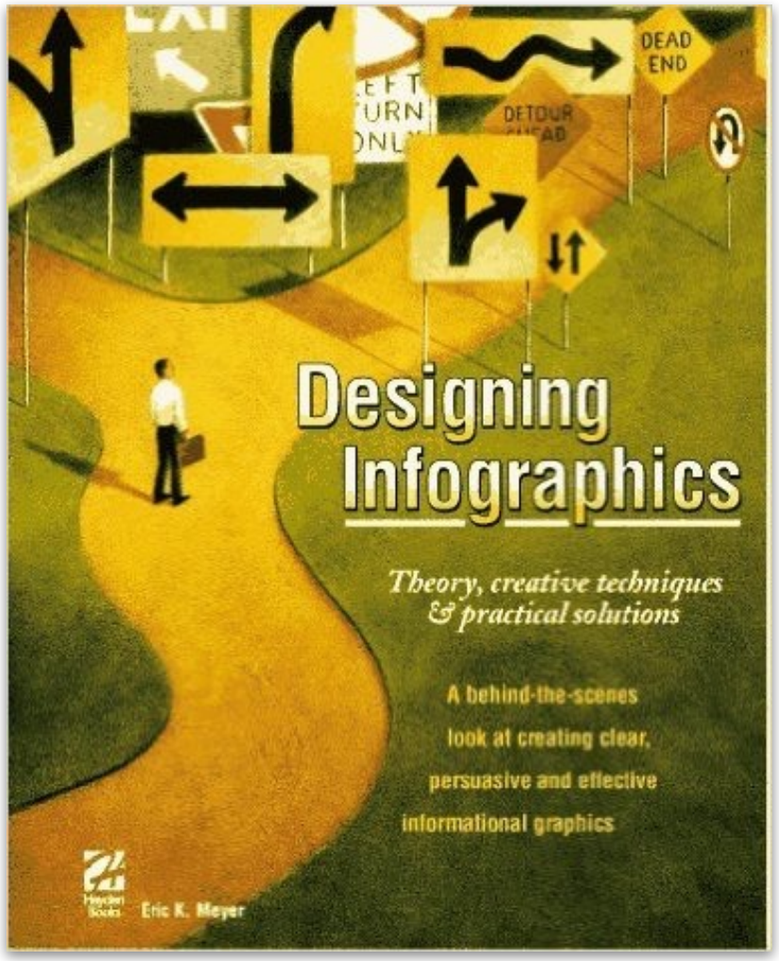
Short overview of presentation (2:27)

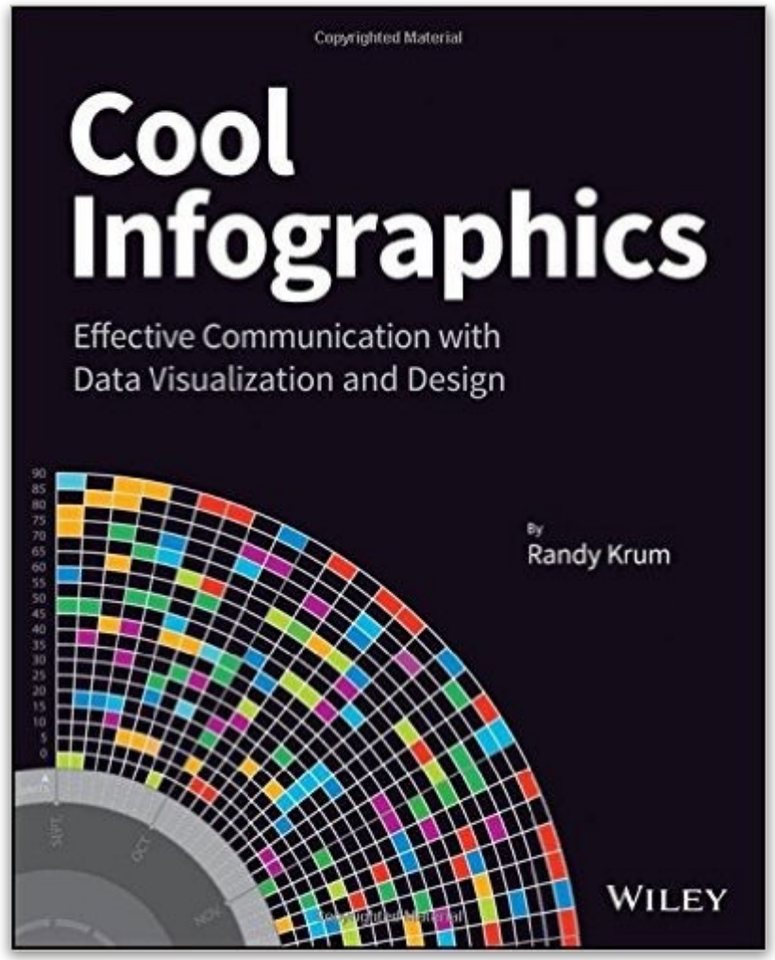


Full presentation (50:00)

http://www.schrockguide.net/infographics-as-an-assessment.html

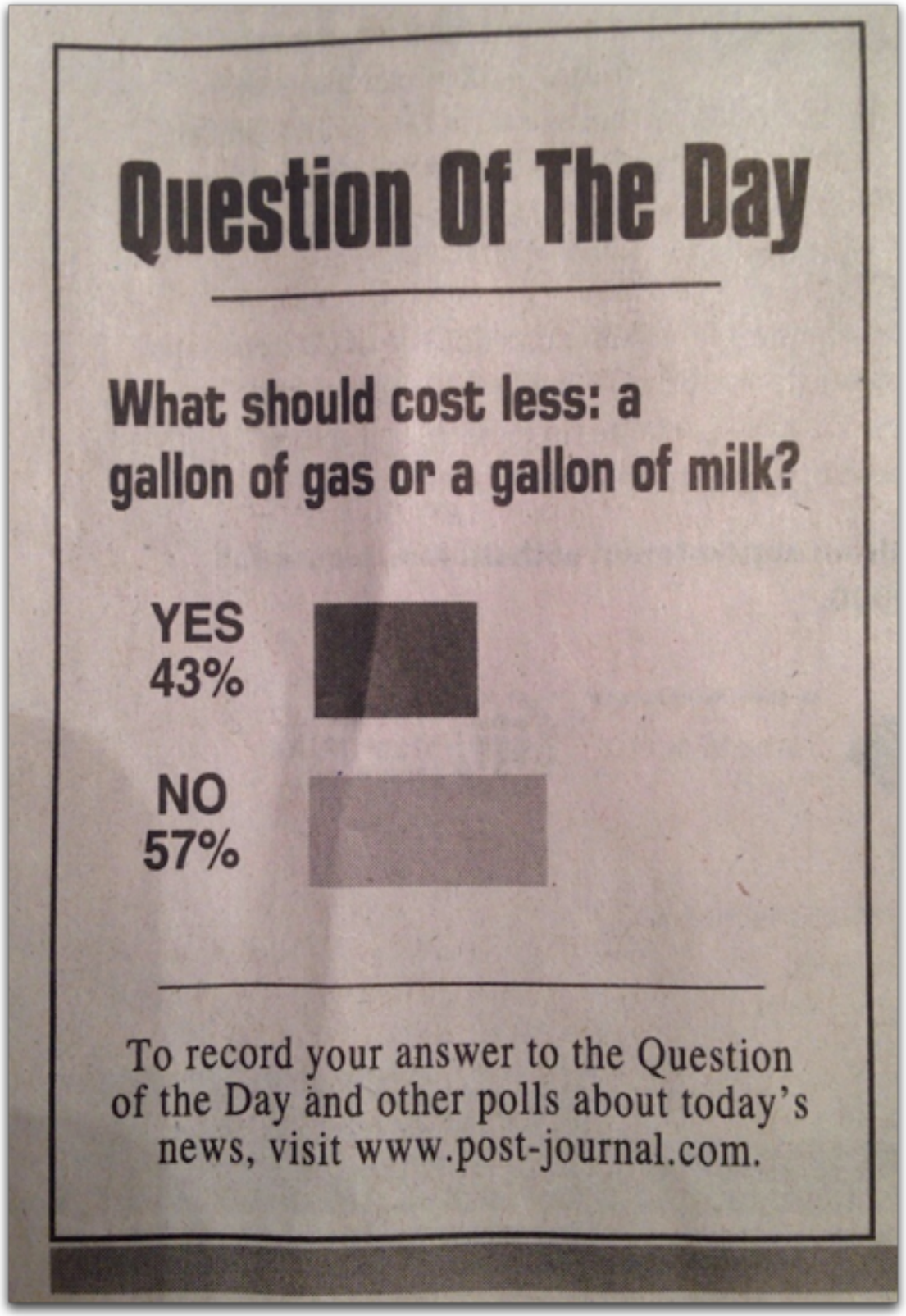

SECOND EDITION
The Visual Display
of Quantitative Information
EDWARD R. TUFTE


DEAD
END
DETOUR
Designing
Infographics
Theory, creative techniques
& practical solutions
A behind-the-scenes
look at creating clear,
persuasive and effective
informational graphics
Eric K. Meyer

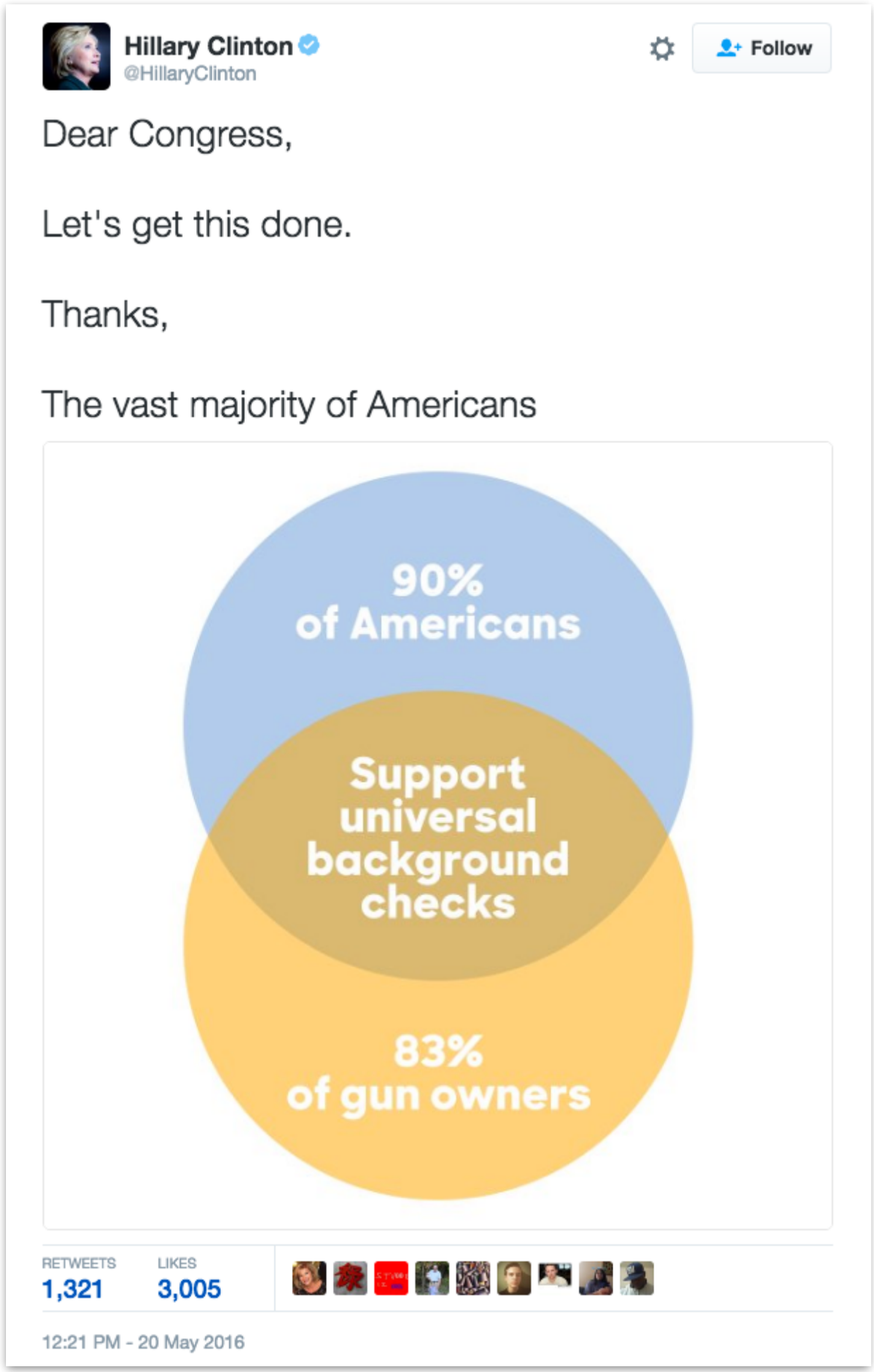

Copyrighted Material
Cool
Infographics
Effective Communication with
Data Visualization and Design
By
Randy Krum
WILEY

Five Takeaway Lessons

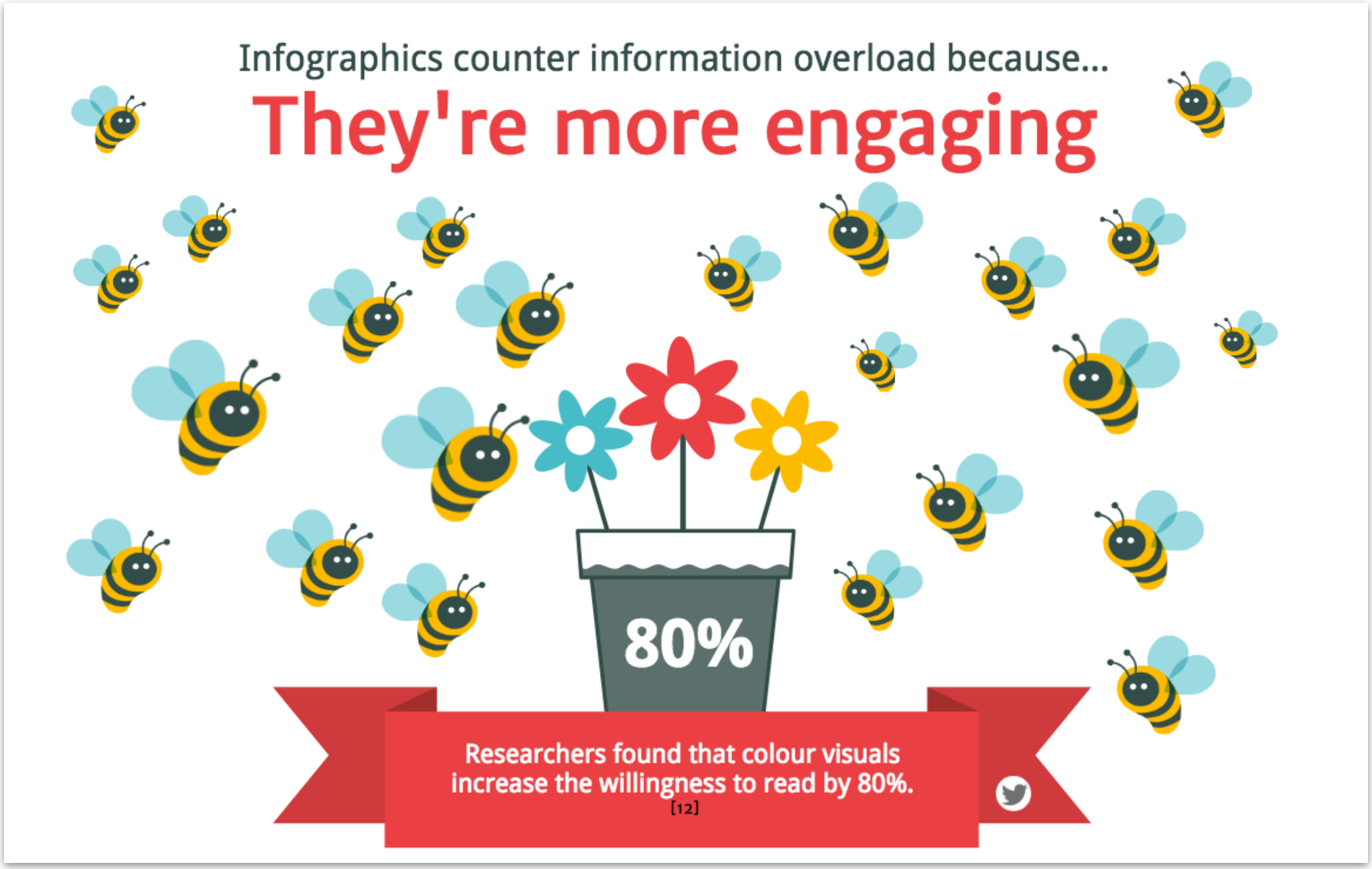
1) Infographics Should Present Data Accurately and Clearly (Confusion Doesn't Help Anyone)



2) Infographics Should Serve a Necessary Purpose (Don't Use Graphics for Graphics' Sake)

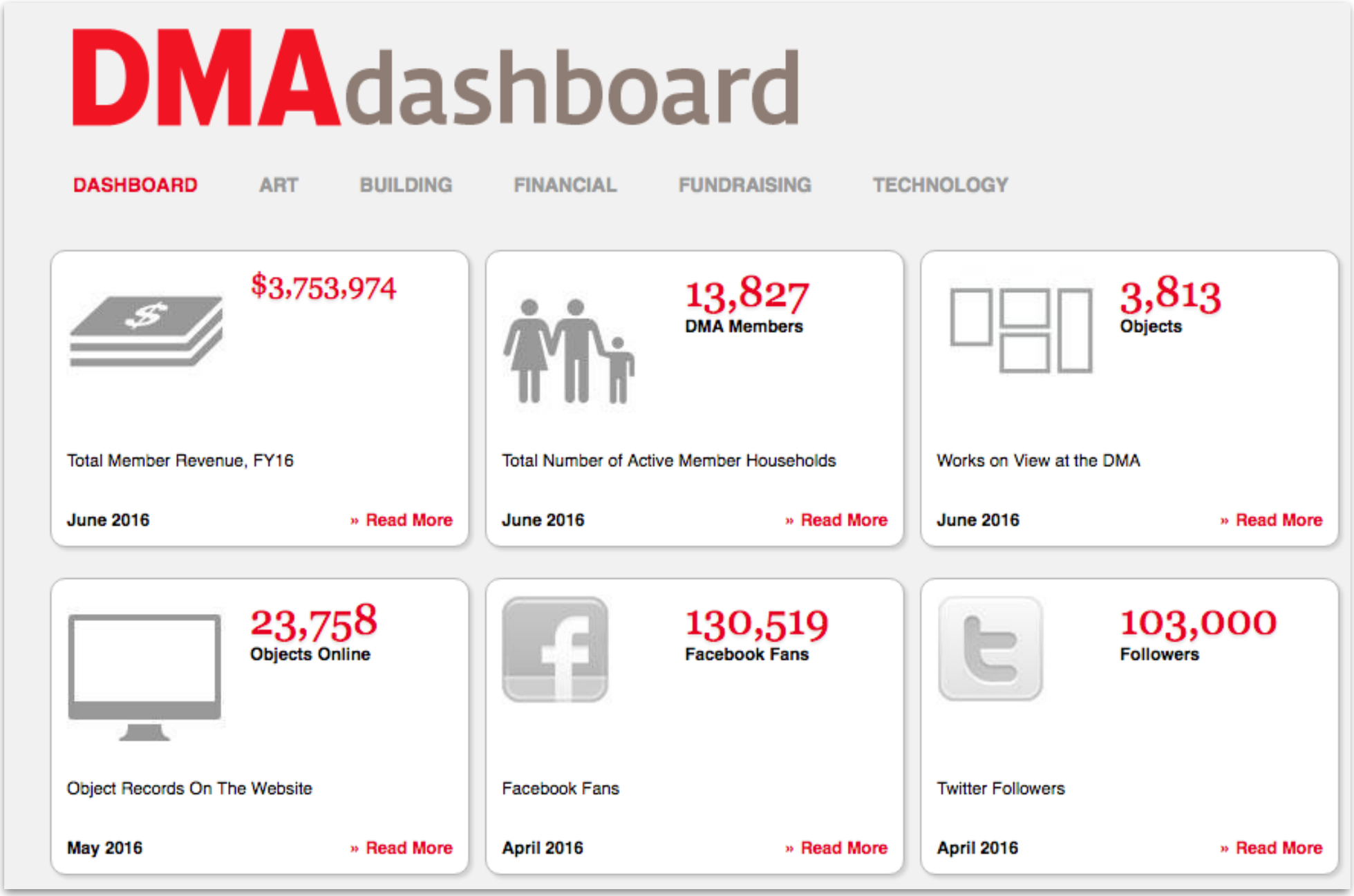


3) Infographics Should Be Informative (Don’t Bee Distracting!)



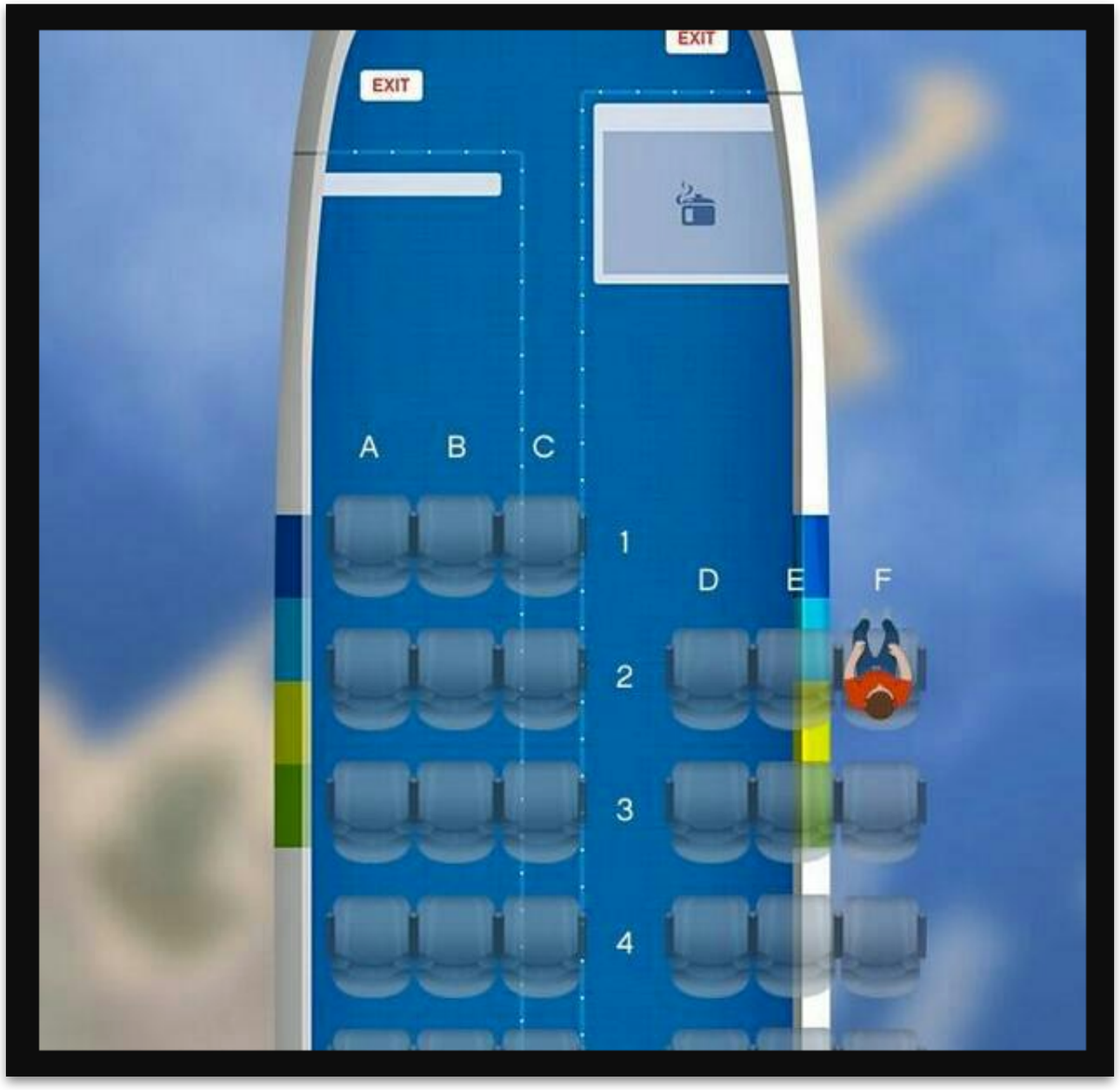
http://neomam.com/interactive/13reasons/

4) Infographics Should Present Data Understandable “at a Glance”



https://dashboard.dma.org/

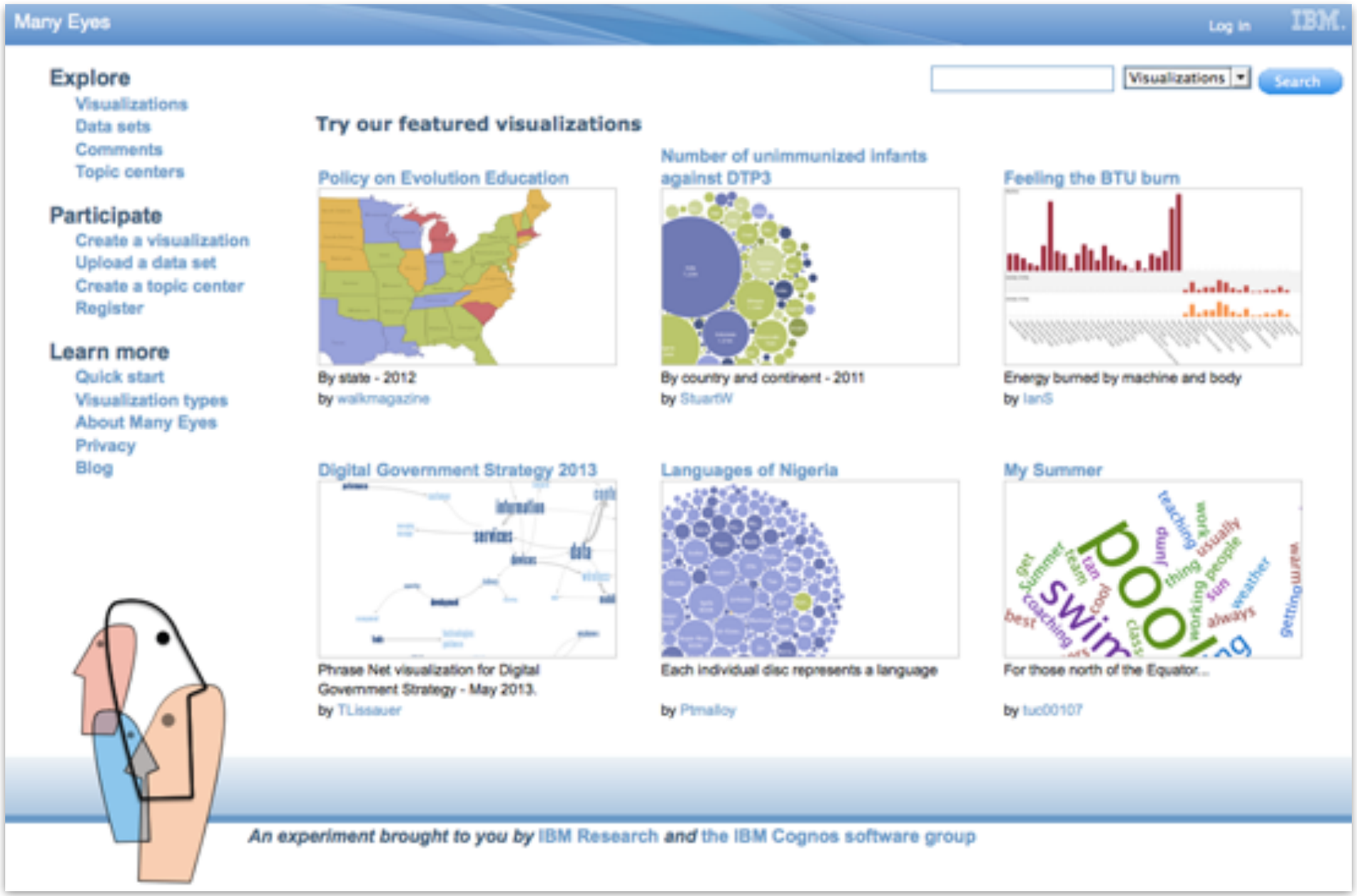
5) Infographics Should Follow Principles of User-Centered Design



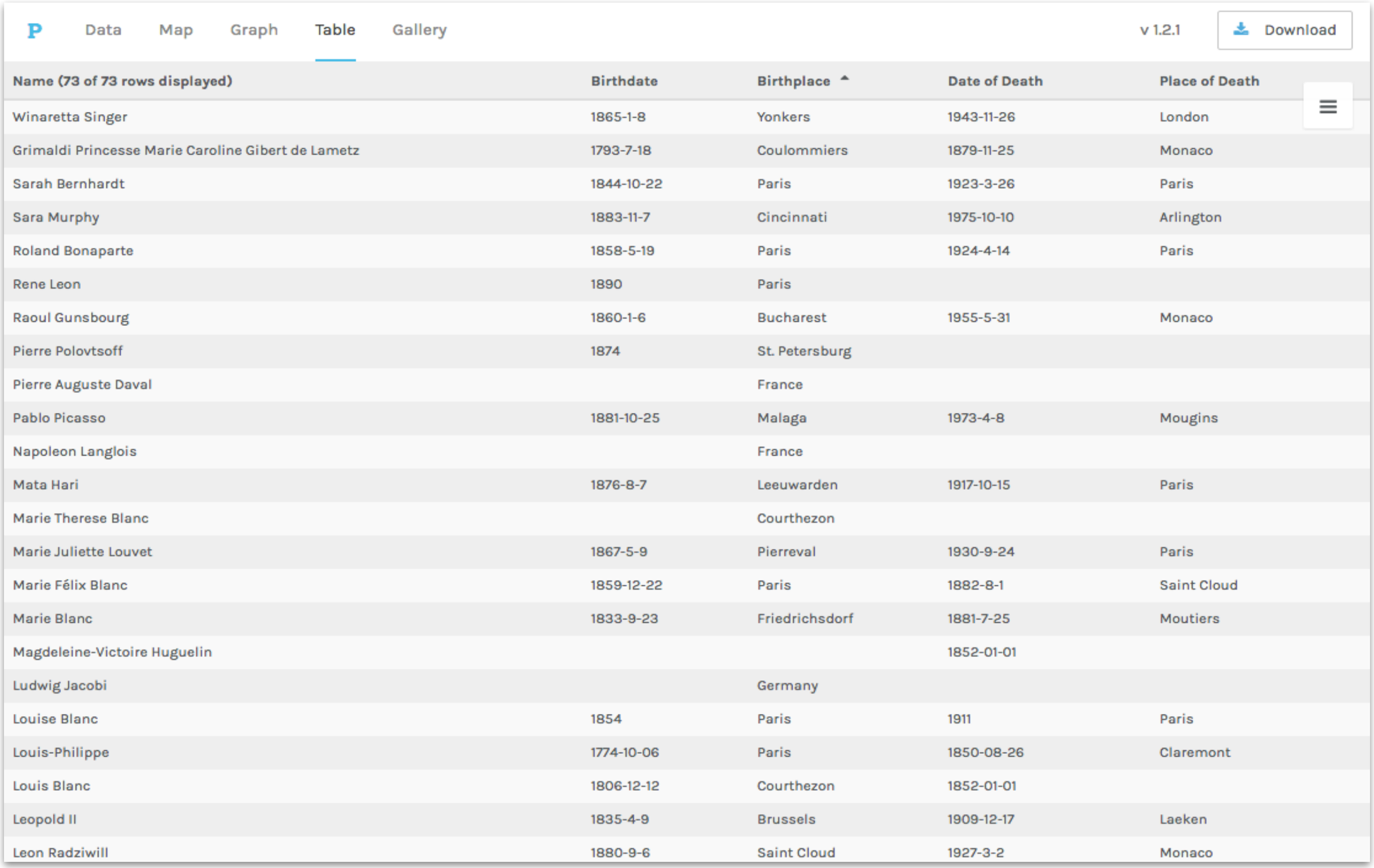
N.B. Poorly Coded CSS Can Kill You

Creating Infographics

IBM's Many Eyes



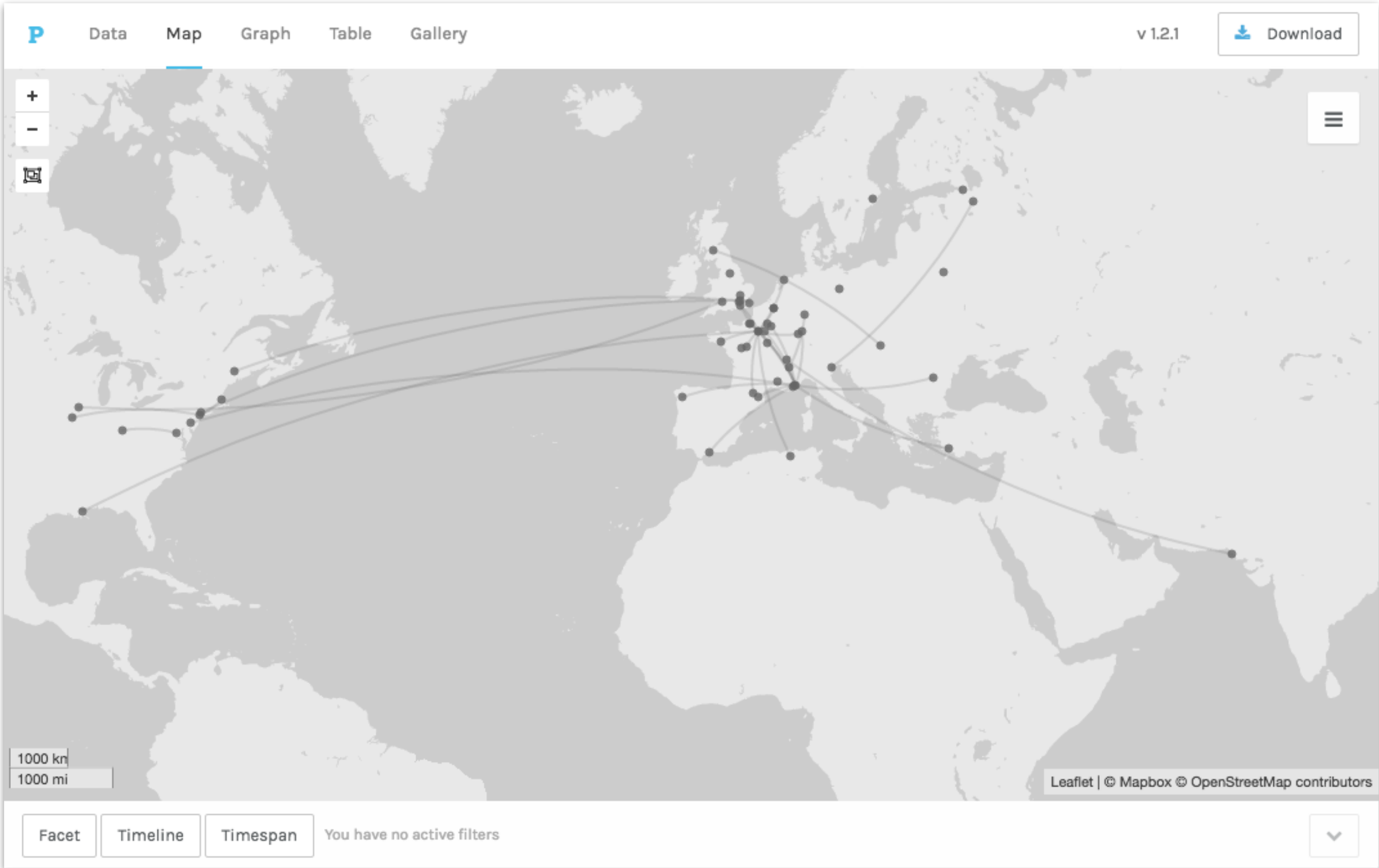
http://palladio.designhumanities.org/



P Data Map Graph Table Gallery v 1.2.1 Download

Name (73 of 73 rows displayed)	Birthdate	Birthplace	Date of Death	Place of Death
Winaretta Singer	1865-1-8	Yonkers	1943-11-26	London
Grimaldi Princesse Marie Caroline Gibert de Lametz	1793-7-18	Coulommiers	1879-11-25	Monaco
Sarah Bernhardt	1844-10-22	Paris	1923-3-26	Paris
Sara Murphy	1883-11-7	Cincinnati	1975-10-10	Arlington
Roland Bonaparte	1858-5-19	Paris	1924-4-14	Paris
Rene Leon	1890	Paris		
Raoul Gunsbourg	1860-1-6	Bucharest	1955-5-31	Monaco
Pierre Polovtsoff	1874	St. Petersburg		
Pierre Auguste Daval		France		
Pablo Picasso	1881-10-25	Malaga	1973-4-8	Mougins
Napoleon Langlois		France		
Mata Hari	1876-8-7	Leeuwarden	1917-10-15	Paris
Marie Therese Blanc		Courthezon		
Marie Juliette Louvet	1867-5-9	Pierreval	1930-9-24	Paris
Marie Félix Blanc	1859-12-22	Paris	1882-8-1	Saint Cloud
Marie Blanc	1833-9-23	Friedrichsdorf	1881-7-25	Moutiers
Magdeleine-Victoire Huguelin			1852-01-01	
Ludwig Jacobi		Germany		
Louise Blanc	1854	Paris	1911	Paris
Louis-Philippe	1774-10-06	Paris	1850-08-26	Claremont
Louis Blanc	1806-12-12	Courthezon	1852-01-01	
Leopold II	1835-4-9	Brussels	1909-12-17	Laeken
Leon Radziwill	1880-9-6	Saint Cloud	1927-3-2	Monaco

http://palladio.designhumanities.org/



Let’s Learn About Tableau!!