# USA TODAY's Approach to Visualization and Its Relevance to NHTS

**Paul Overberg** 

**USA TODAY** 

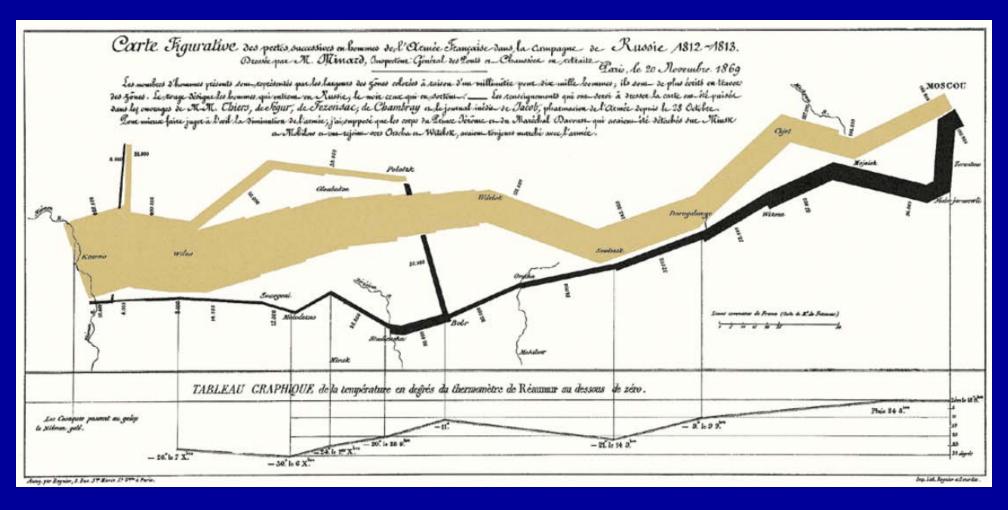
TRB Workshop

**June 6, 2011** 

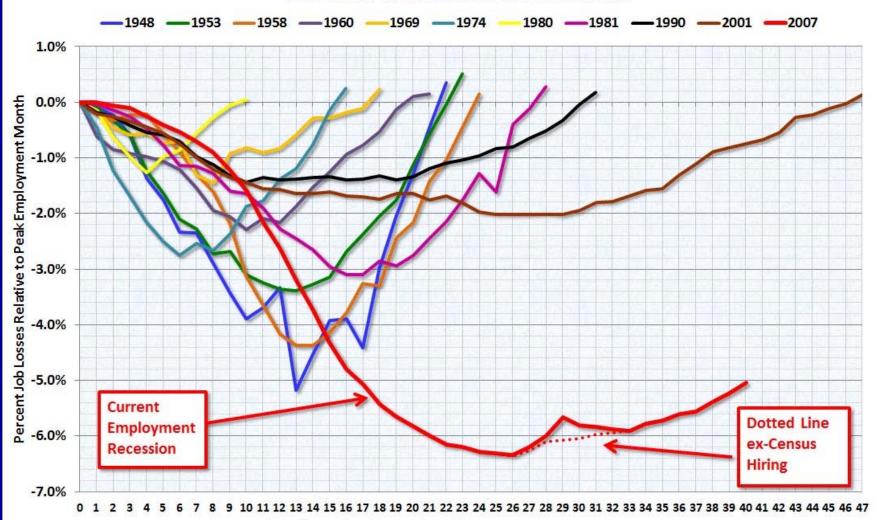


### Outline

- > "Data visualization"?
- > USA TODAY examples
- > How we think about info graphics
- > Opening data for experimentation



#### Percent Job Losses in Post WWII Recessions

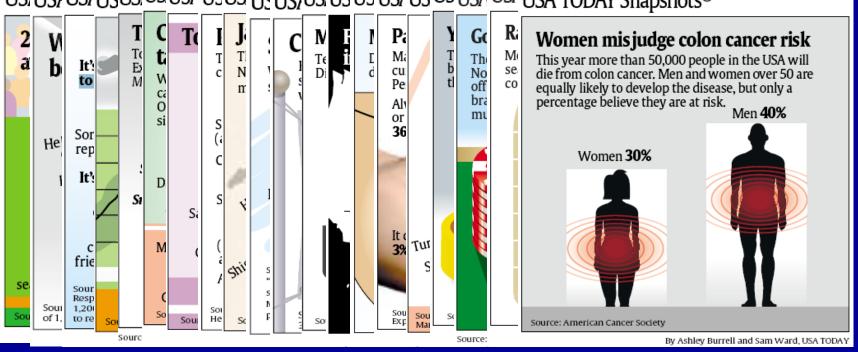


Number of Months After Peak Employment http://www.calculatedriskblog.com/

#### USA TODAY Snapshots®

## What do you dislike most about voice mail? Listening to long messages Navigating touch-tone menus Needing to take notes 14%

#### 



#### For many, a sealed fate ...

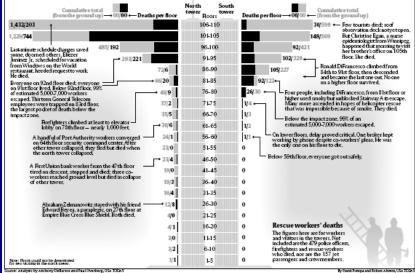
The fate of nearly everyone inside the World Trade Center was sealed the moment the highest determined the highest the north tower, which was hit first, But more than 1,000 people used the

#### The north tower The south tower I ne SOURT LOWER Only four people on the Bitfilloor or above survived; they used an unblocked stainway to escape. All butfour of the 599 who ded in the south tower worded above the impact cone. United Airlines Bight 175, carrying 65 people, struck from the south at-90 (254 a.m. the jet, sharply angled, crashed into the south at-90 (254 a.m. the jet, sharply angled, crashed into the southests corner from the 76th through 84th floors, Decemi ded in a 76th floor elsexor bolby, where they had Everyone onfloors 92 and up died; 99% of those below lived, American 99% of those below lived, American Airlines Flight 11, carrying 92 people, struck at 8;46;26 am The jet attacked from the north, slightly angled, and crashed into the 93rd through 98th floors, Of those working or visiting the tower at the time, 1,434 cfied. gone to evacuate after the crash in the other tower, A narrow escape , length 159 ft. Fight 175 destroyed two of the three stairways in the impact zone. But Stairway A, furthest from the crash, remained unobstructed from the top to the bottom of the south tower, A small number of people excepted down the stairway; several from the 78th from elevator below, where deserned deet, plus four from above. An unknown number of people climbed the stairs toward the roof in search of a helicopter rescue that never came. The layout of the 78th floor: South side view Stairway A North sidessies to upper levels

#### ... for thousands of others, a miracle escape

More than 6,000 were feared to have died in the World Trade Center attacks, but that figure was based on missing persons reports compiled by New York City police, A USA TODAY count shows the toll was fewer than 3,000, including 2,180 building occupants.

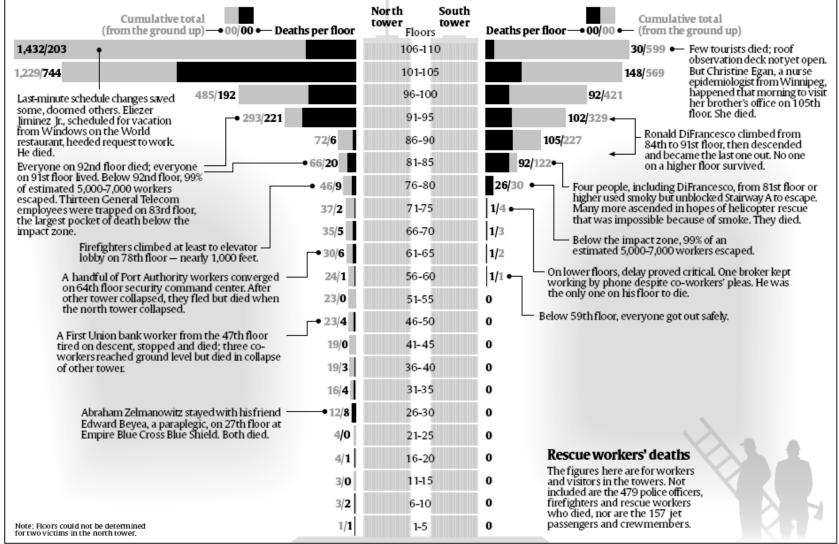
Where victims worked or were located:

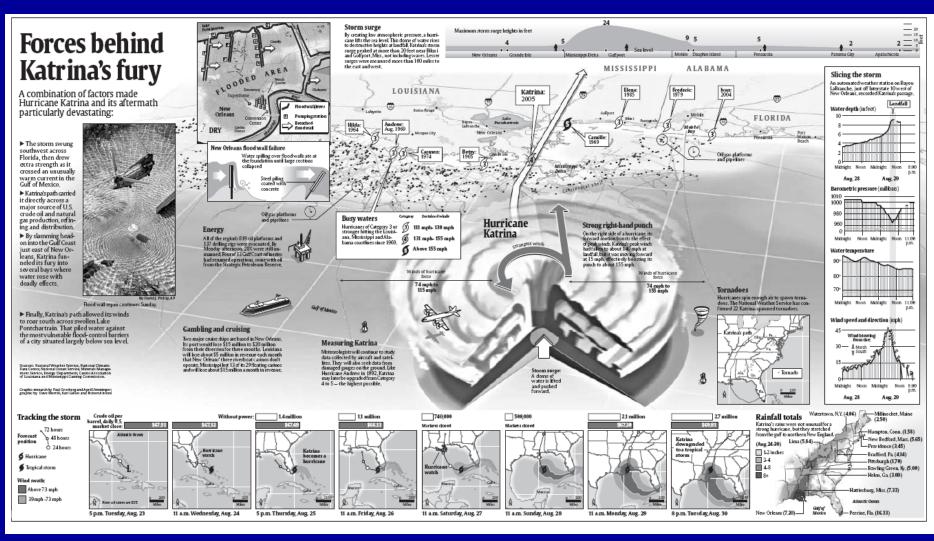


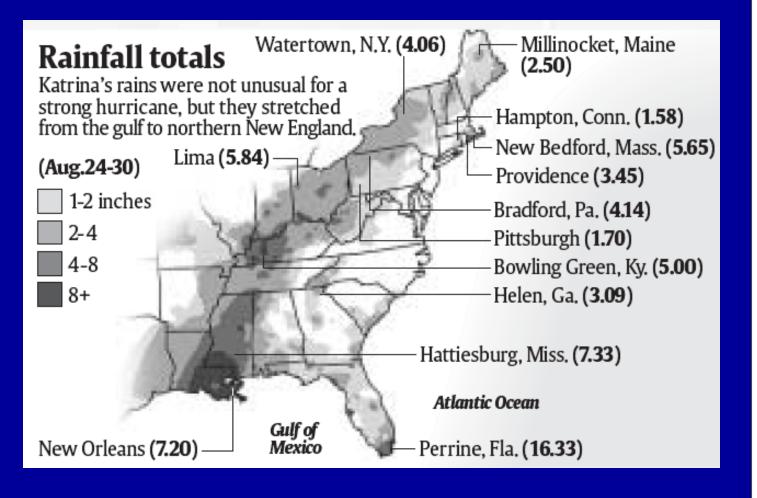
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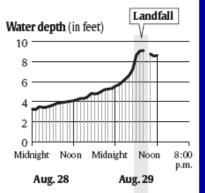




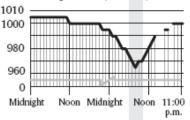


#### Slicing the storm

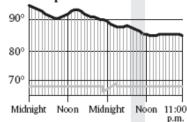
An automated weather station on Bayou LaBranche, just off Interstate 10 west of New Orleans, recorded Katrina's passage.



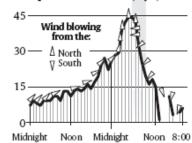
#### Barometric pressure (millibars)

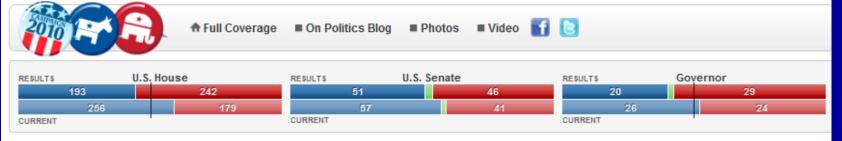


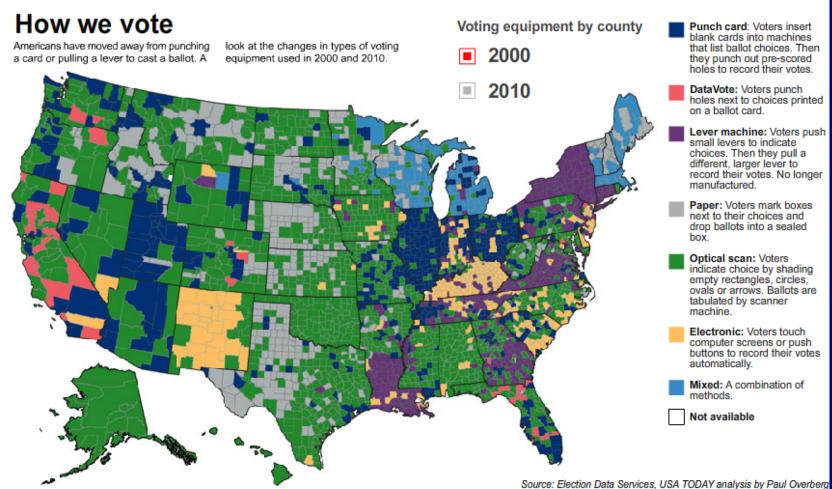
#### Water temperature



#### Wind speed and direction (mph)







Source: Election Data Services, USA TODAY analysis by Paul Overberg

#### Jobs forecast 2011

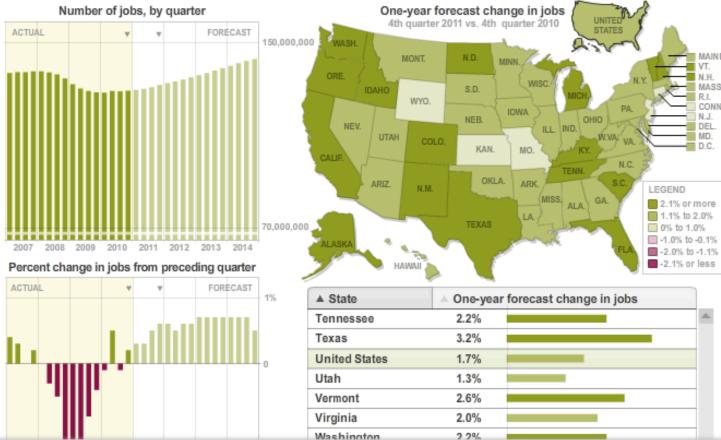
View by metro

View by state

One-year forecast change in jobs: United States: All sectors: 1.7%



All sectors: Total number of persons on establishment payrolls employed full or part time. Excludes proprietors, selfemployed, unpaid family or volunteer workers, farmworkers, and domestic workers.





Census 2010

VIDEO: What is reapportionm ▼

Alabama

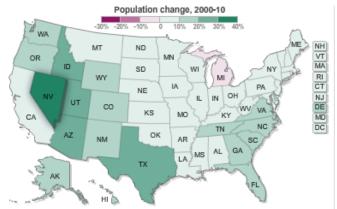
Current U.S. POPULATION 311,447,236

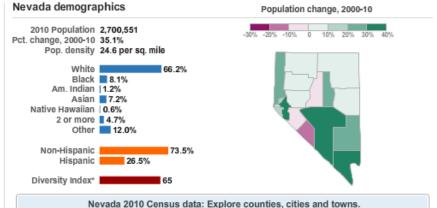
BIRTHS

NET IMMIGRATION

#### Census 2010 data show population and diversity trends

Click on states and counties to see the first local data from the 2010 Census. Data on population trends and racial and ethnic makeup for thousands of localities has been released.





Graphic by Anthony DeBarros, Barbara Hansen, Raul Miller, Paul Overberg, Juan Thomassie

\*The USA TODAY Diversity Index is a 0-100 score that represents the probability that two people chosen randomly from an area will have different racial or ethnic backgrounds. A score of 50 means there is a 50% chance they are different.

Top news

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#### Fewer couples embrace marriage, more live together



□ CAPTION STR. A

By Hava El Nasser and Paul Overberg, USA TODAY

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Census shows growth among Asian Indians

census | Comments 🖳 164 | Recommend 🌣 11

After 50 years of decline, household size is growing

nation | Comments 🗐 19 | Recommend 🗘 3

Suburban growth focused on inner and outer communities

census | Comments 📮 6 | Recommend 🗘 5

Growth slowed in U.S. metros last decade

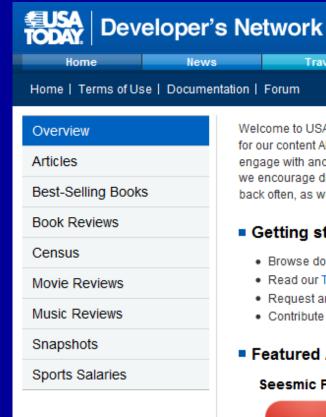


## USA TODAY info graphics

- ➤ Think outside in user perspective
- Think about various kinds of users
- ➤ Show don't tell
- > Simplify, simplify, simplify

## USA TODAY info graphics

- > Report, report, report
- What story can we tell?
- > Sketch (wire-frame)
- > Build, revise, build, revise, etc.
- Edit, edit, edit



Welcome to USA TODAY's Developer Network! Our network will serve as a home for our content APIs and as a community for developers that want to discover, engage with and communicate about our content. After reading our terms of use, we encourage developers to sign up for access and get to coding! Please check back often, as we intend to continue expanding available API's.

Money

#### Getting started

- Browse documentation for our APIs in the left rail.
- · Read our Terms of Use.
- Request an API key, or access your existing keys.
- Contribute to our forum, or follow us on Twitter.

#### Featured Applications

Seesmic Plugin



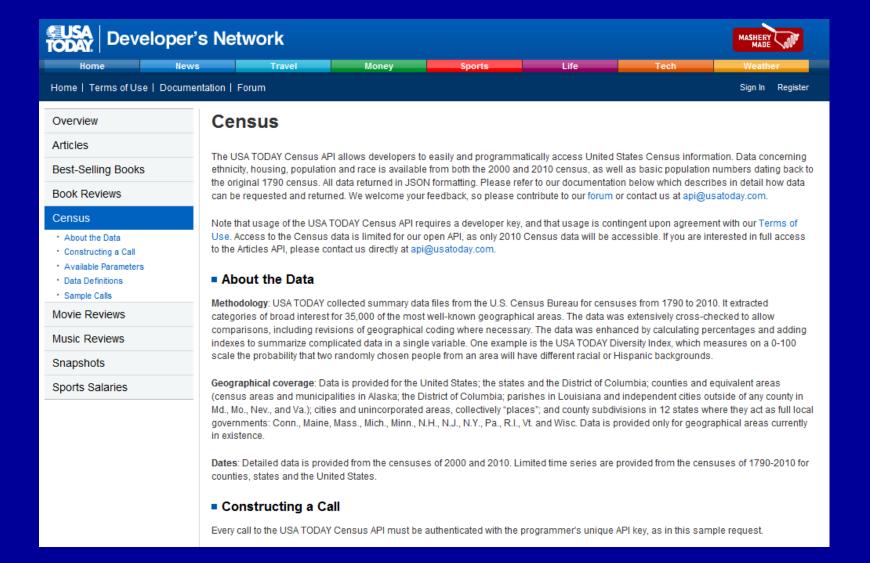
Newsdeck



Marriott GoBoard



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## Questions?

poverberg@usatoday.com