Visual Storytelling I

Session Six

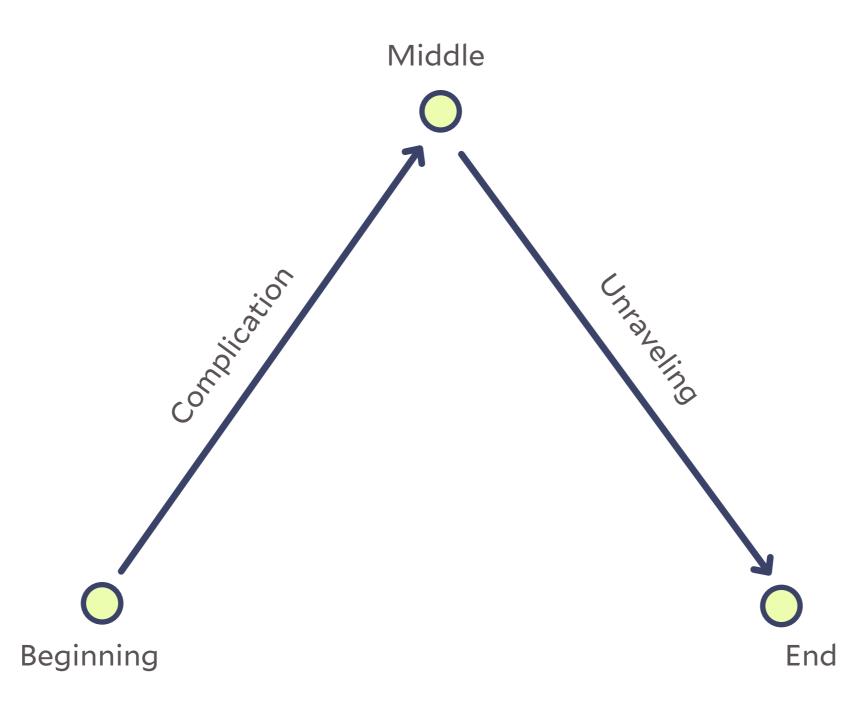
Today:

- Narrative Structures & Datavis types
- Discuss the Final Project
- Share Final Project sketches

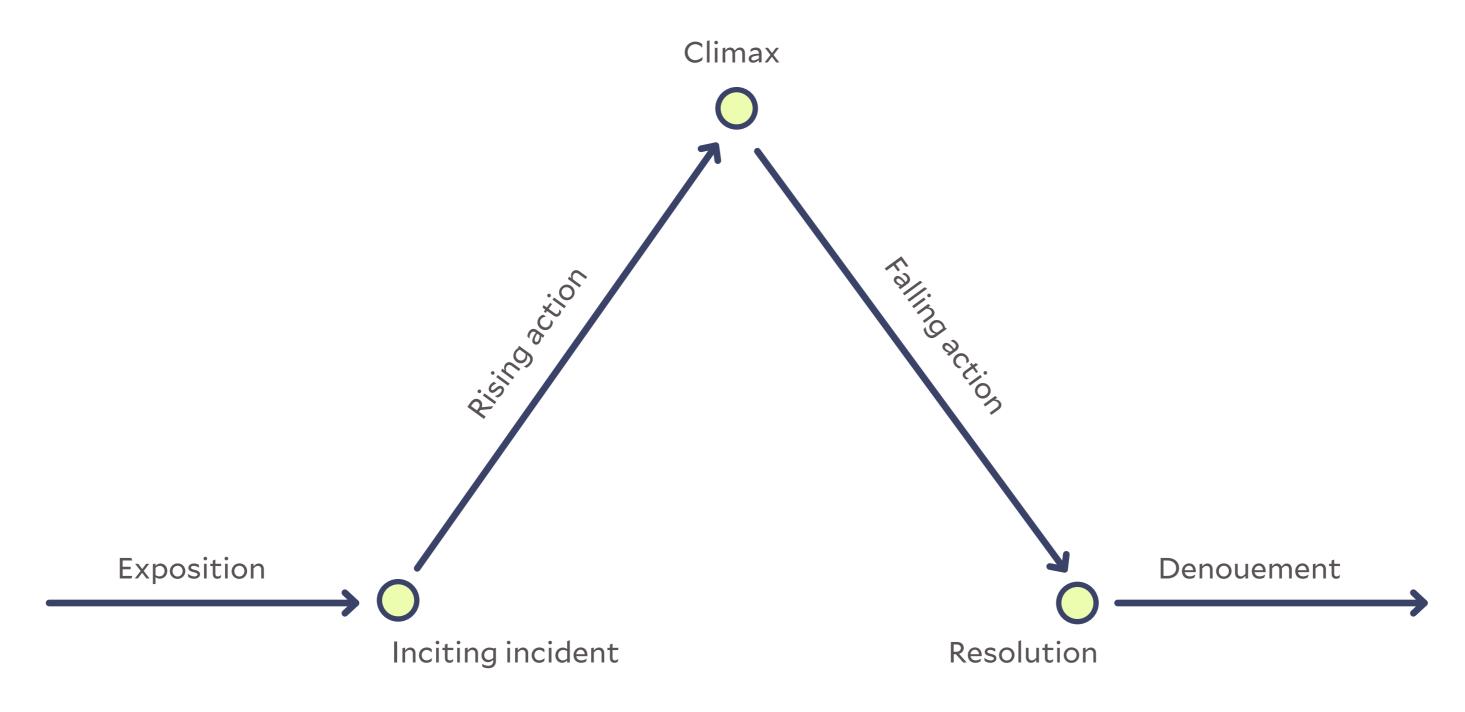
Narrative Structures

"Storytelling is ultimately a creative act of pattern recognition. Through characters, plot and setting, a writer creates places where previously invisible truths become visible. Or the storyteller posits a series of dots that the reader can connect."

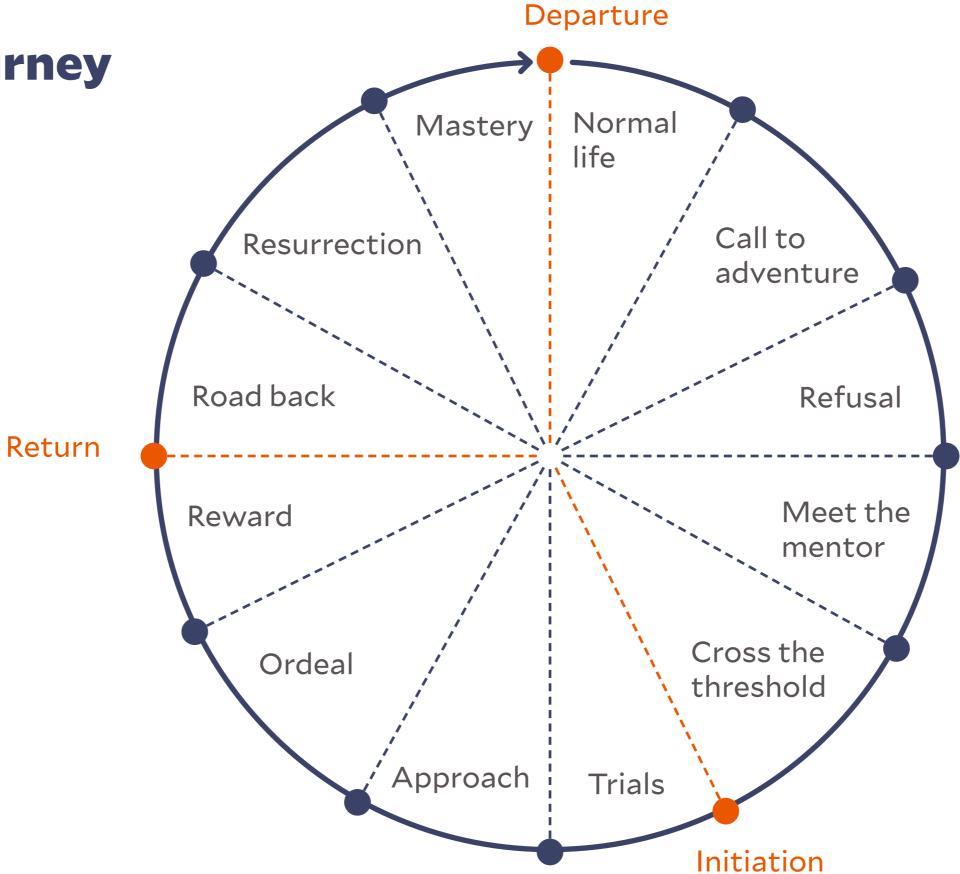
Aristotle's Tragedy Structure



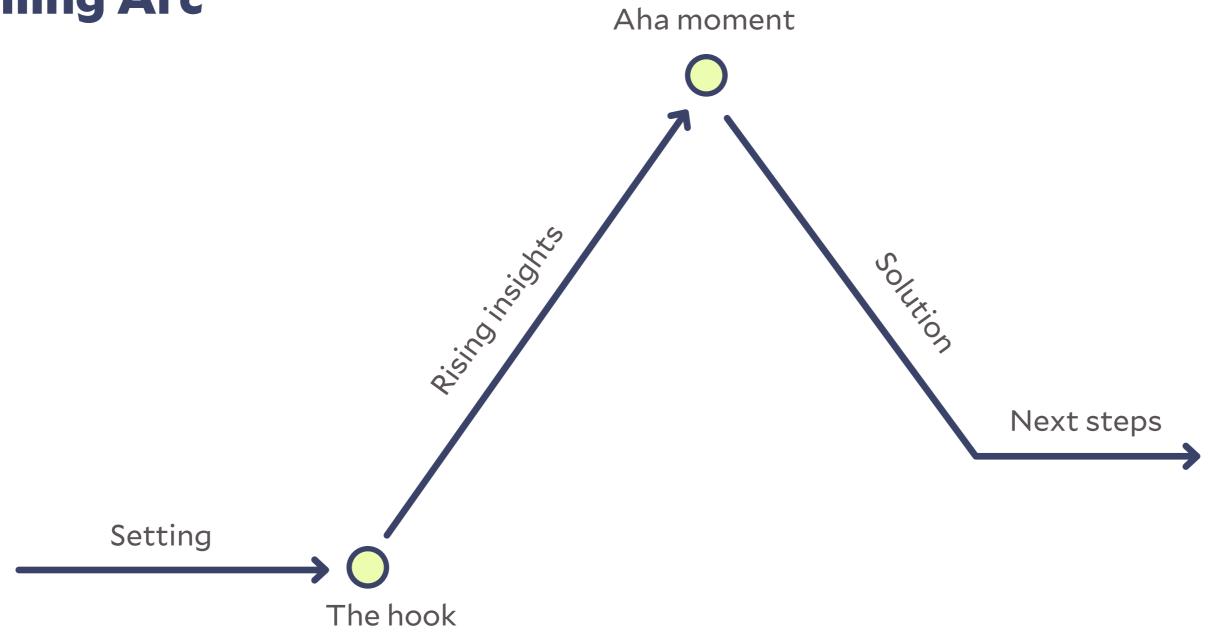
Freytag's Pyramid



Campbell's Hero's Journey

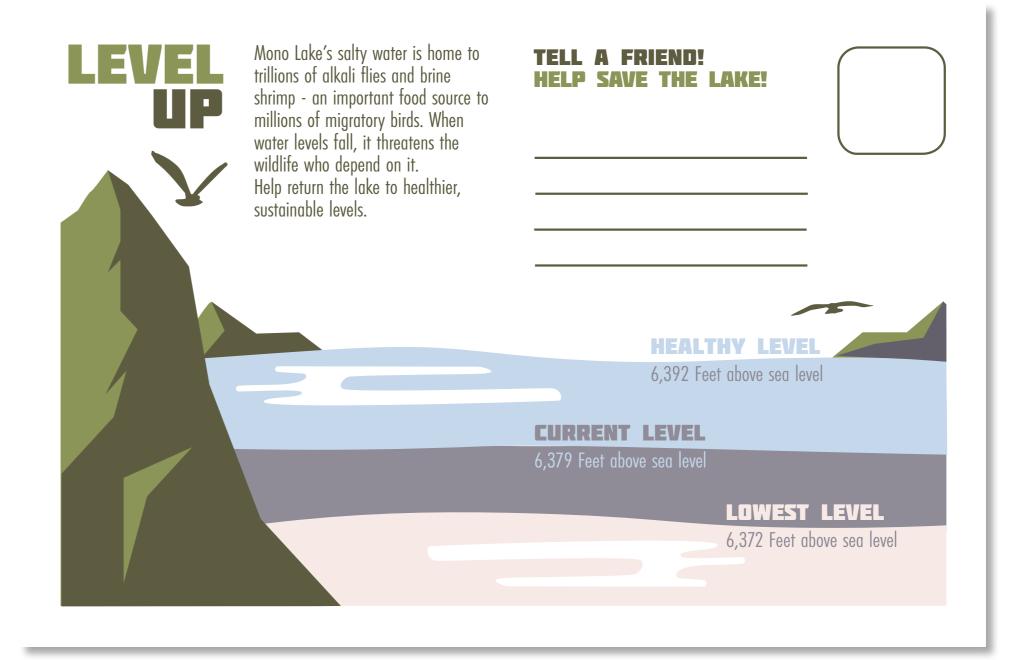


Brent Dykes' Data Storytelling Arc



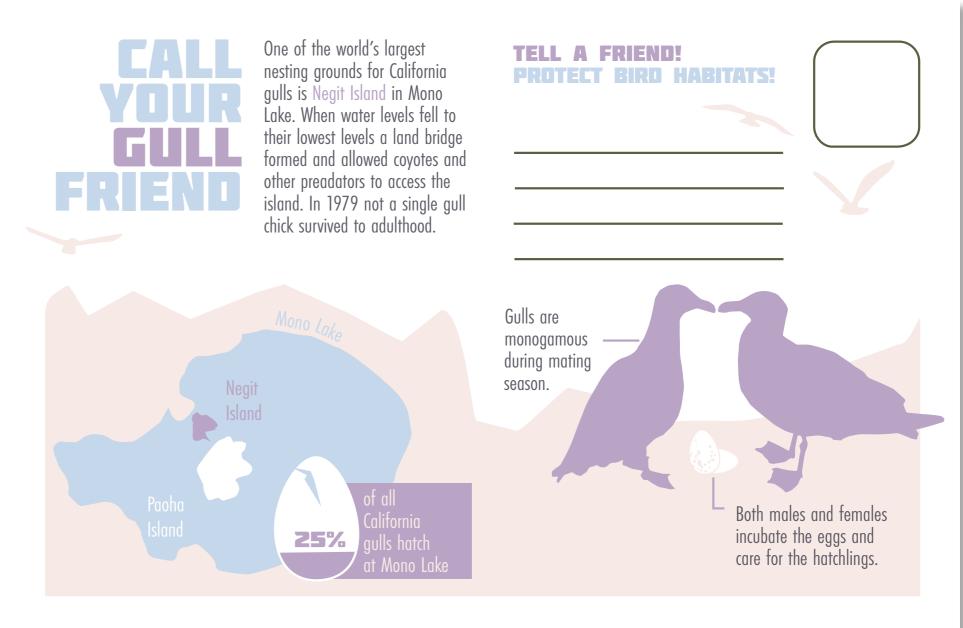


Kelsey Robinson



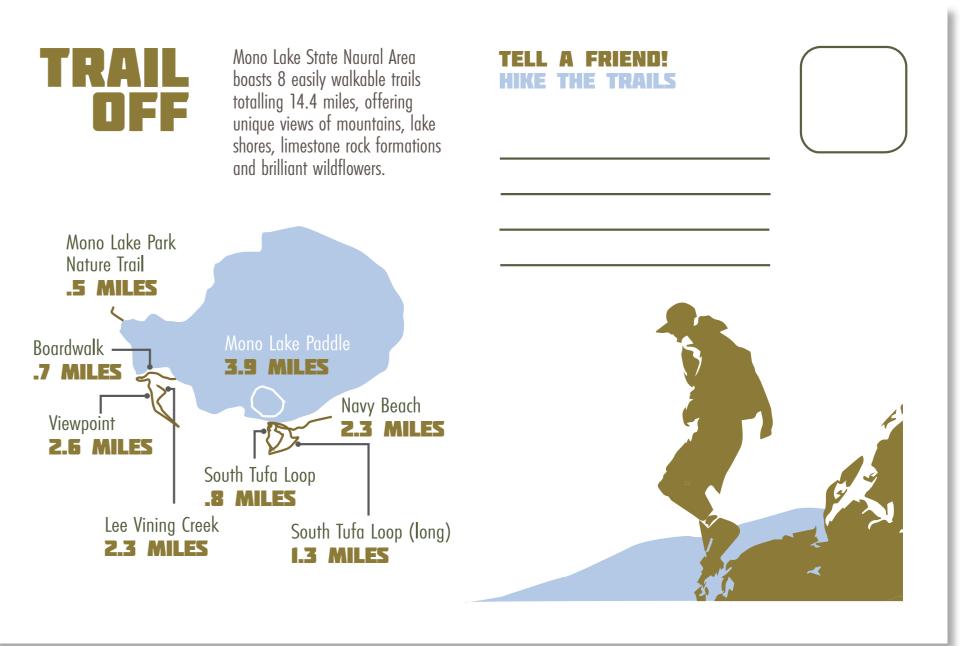
Kelsey Robinson





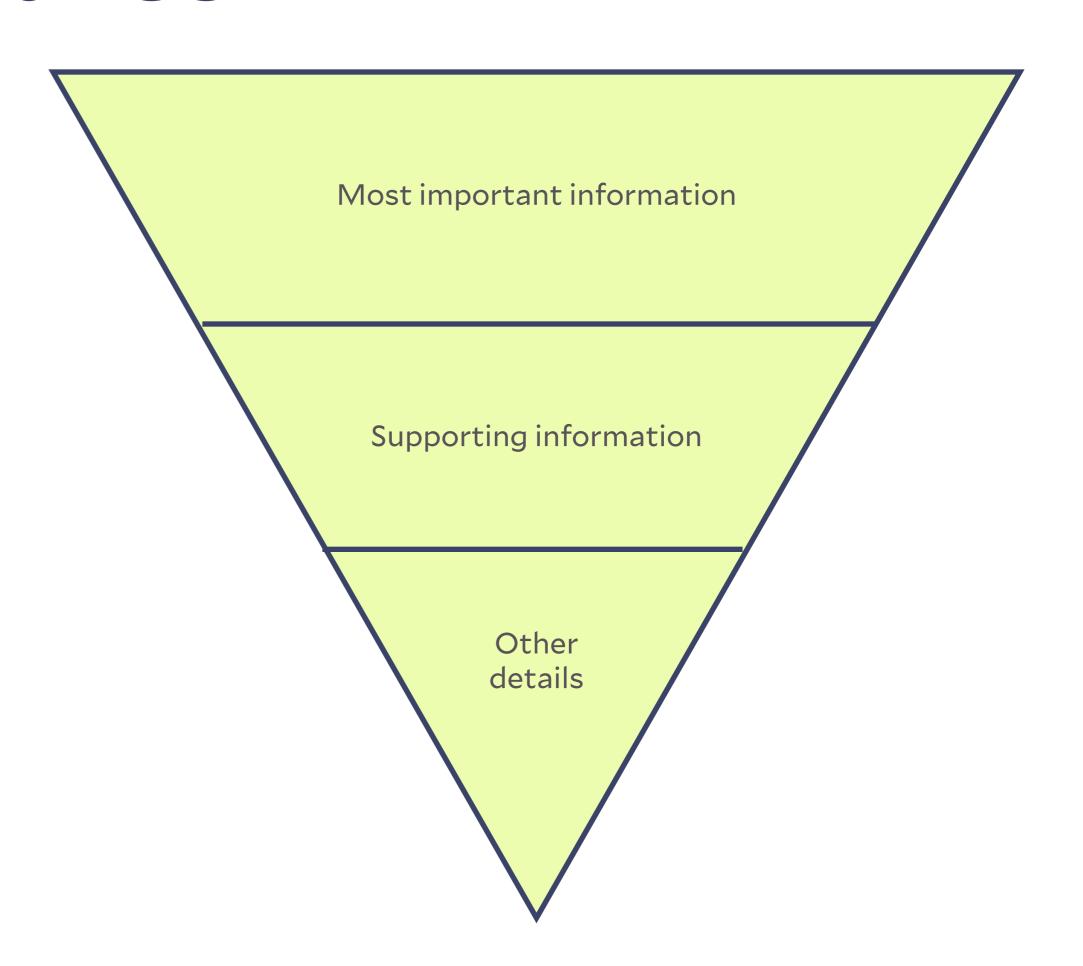
Kelsey Robinson





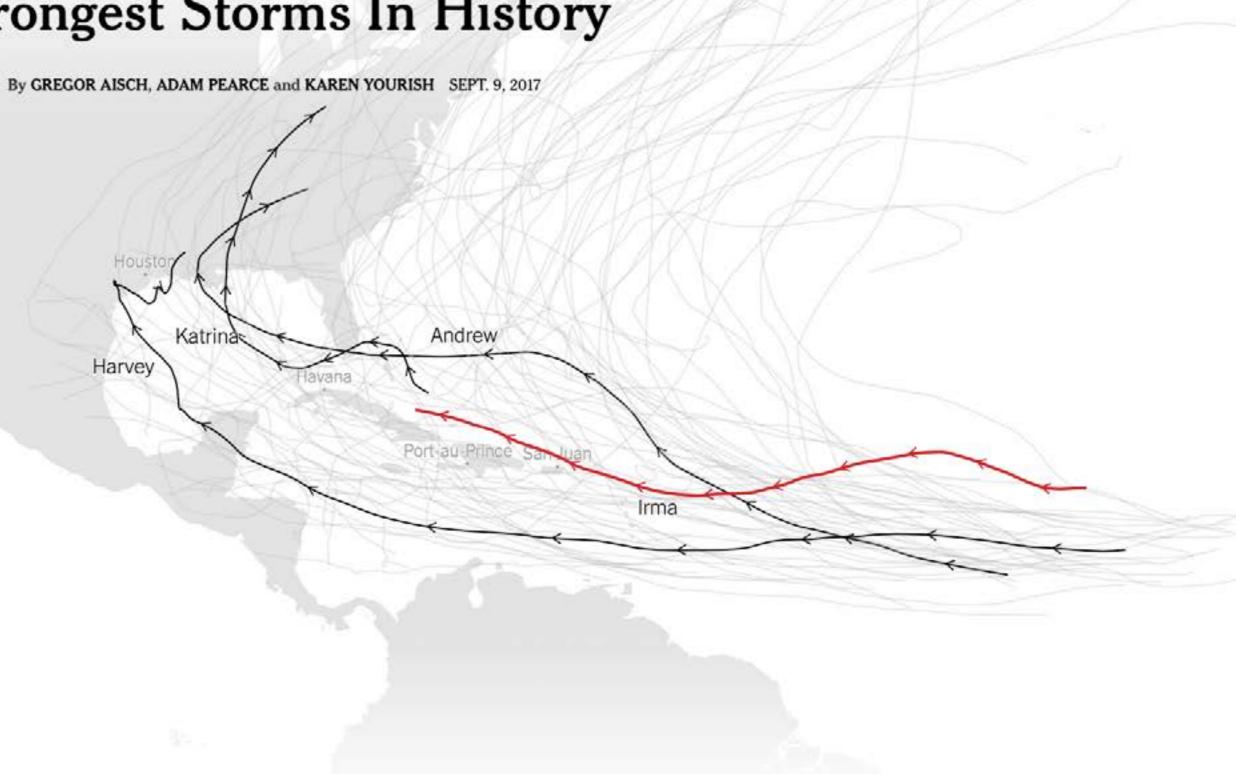
News format

- · "Inverted pyramid" starting with most important information (lede).
- Next provides supporting information.
- · Concludes with other noncritical details.



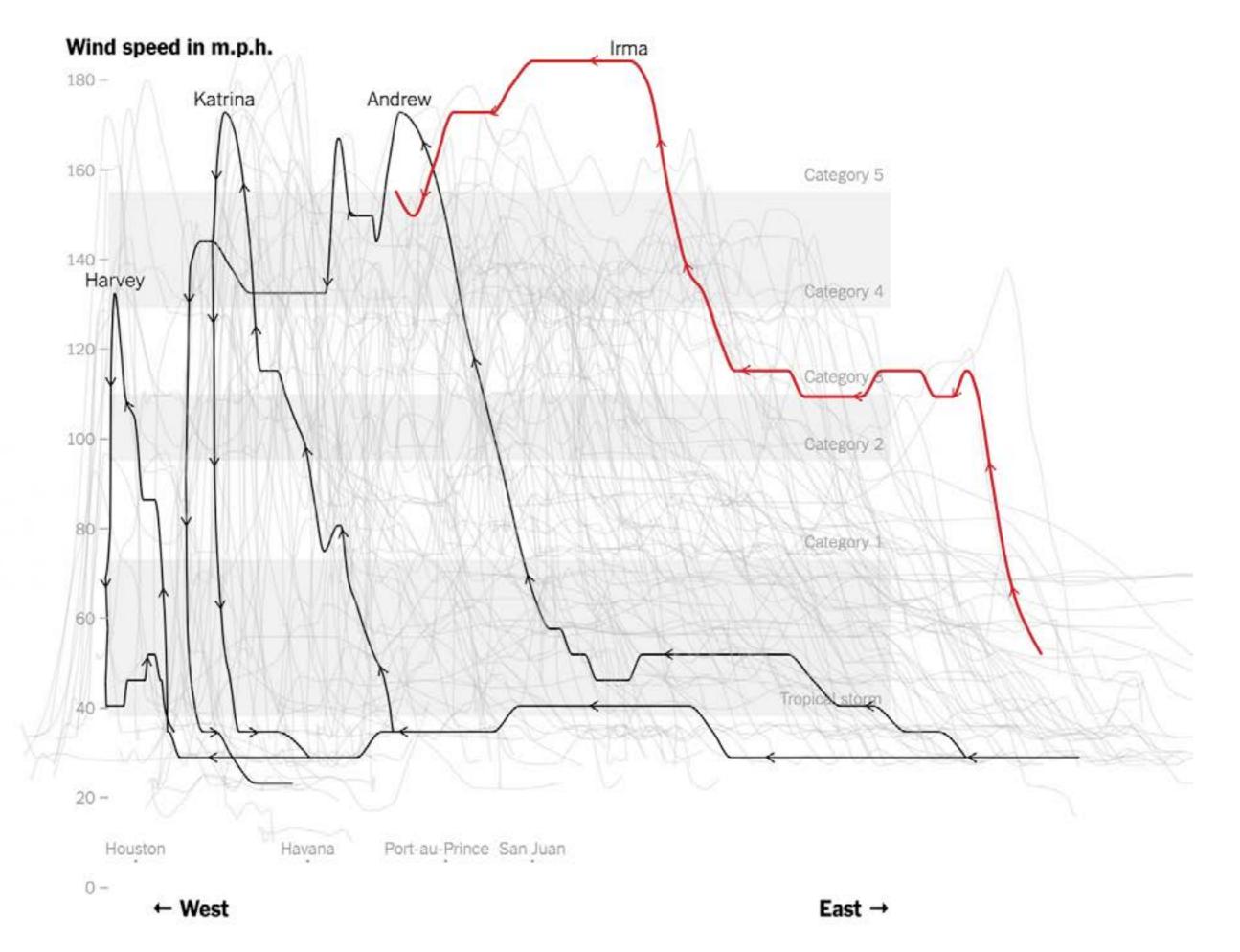
Hurricane Irma Is One of the Strongest Storms In History

Here are all of the Atlantic hurricanes that reached Category 3 or stronger over the last 50 years. Hurricane Irma is highlighted in red.



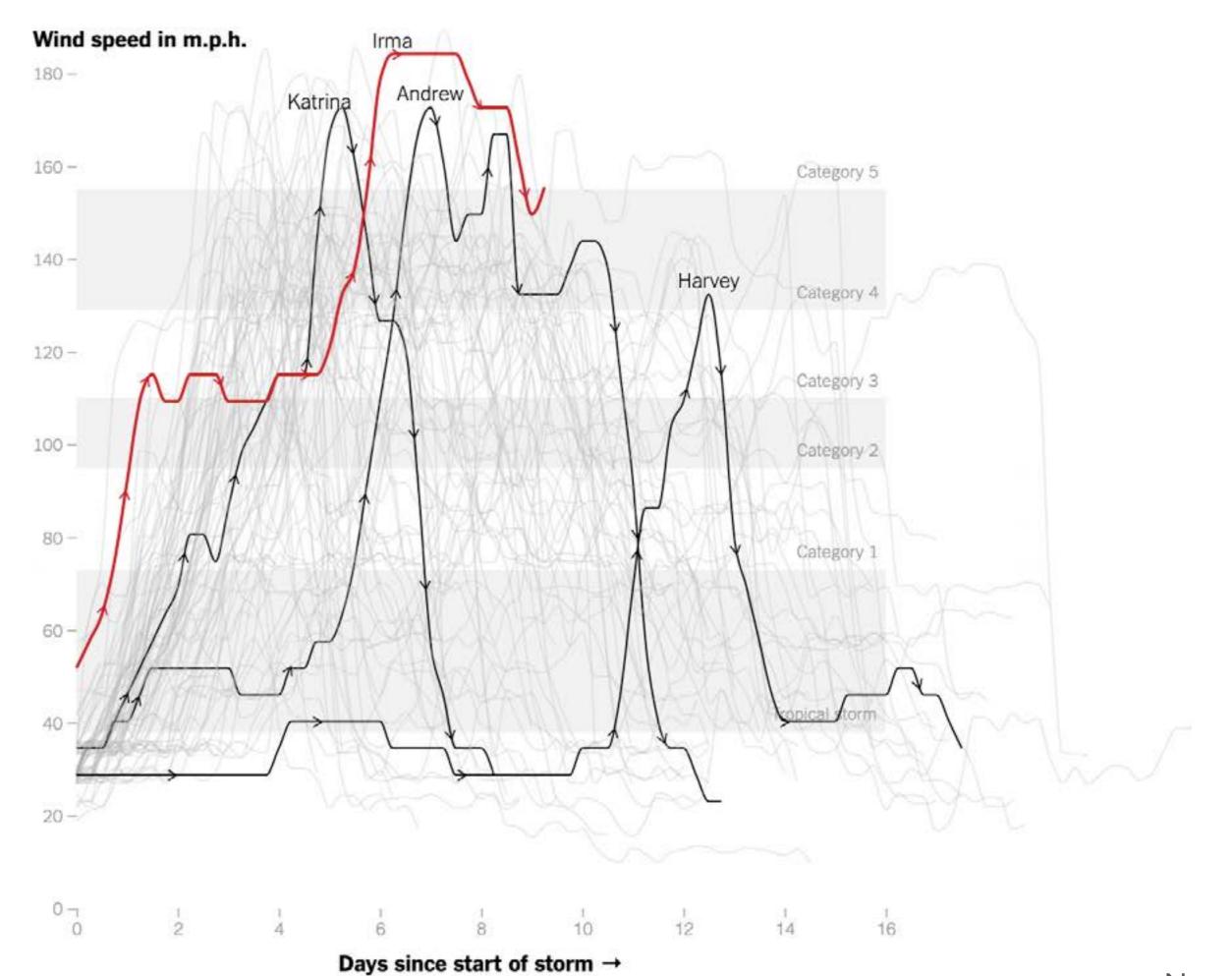
No other hurricane has matched the strength of Irma's winds so far east in the Atlantic.

Irma was classified as a Category 5 hurricane for three consecutive days, longer than any other Atlantic hurricane.

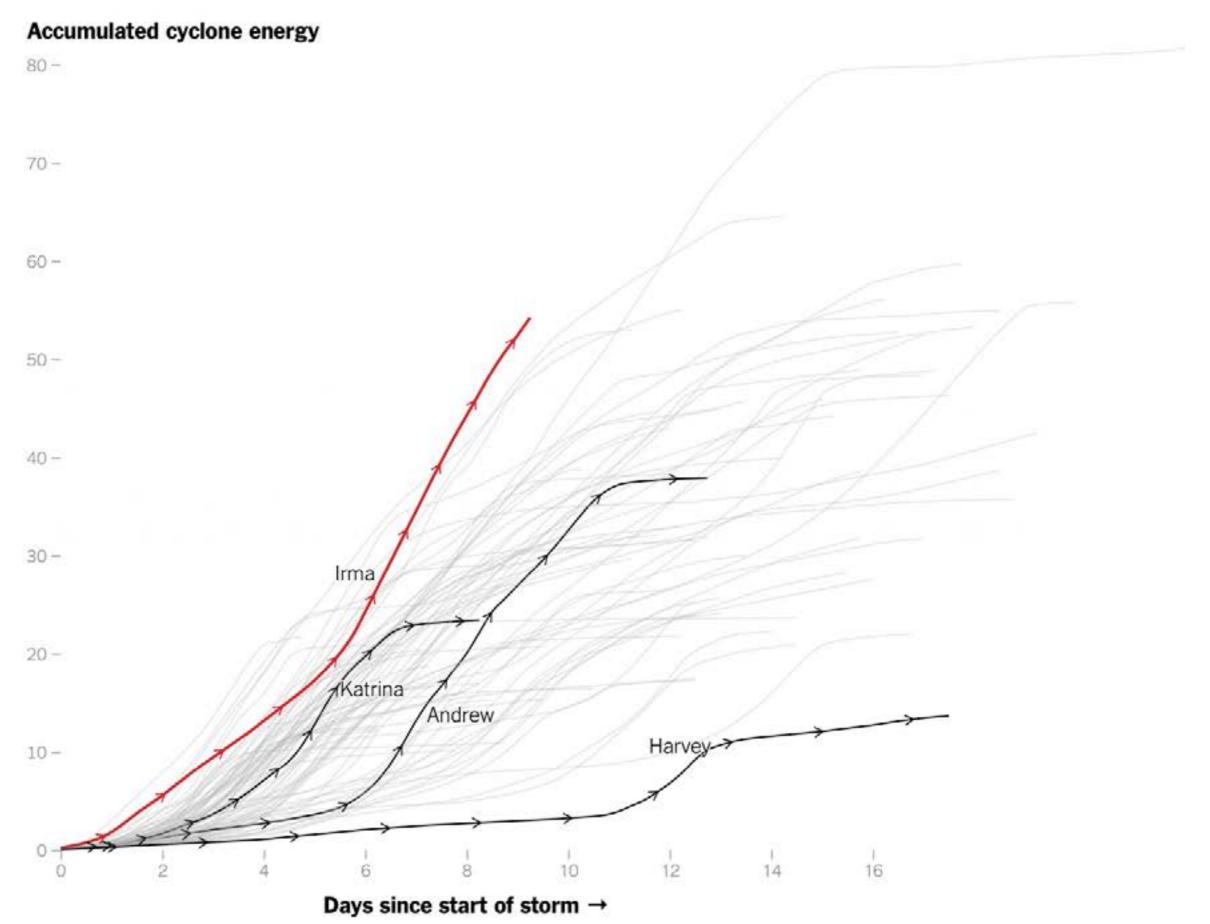


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Irma has also broken records for accumulated cyclone energy, a measure that combines storm strength and duration. This metric is likely to increase during the weekend as the storm nears the United States.



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Situation, Action, Result

- · Situation: What was the problem? What was the desired outcome?
- · Action: What steps were taken to address the problem, and why?
- · Result: What happened? What was the outcome

Situation Action Result

Five-paragraph Essay

- · Introduction: What was the problem and why is it relevant?
- · Body: What information addresses the problem?
- · Conclusion: What is the overarching insight or teaching point? What is the essential insight?

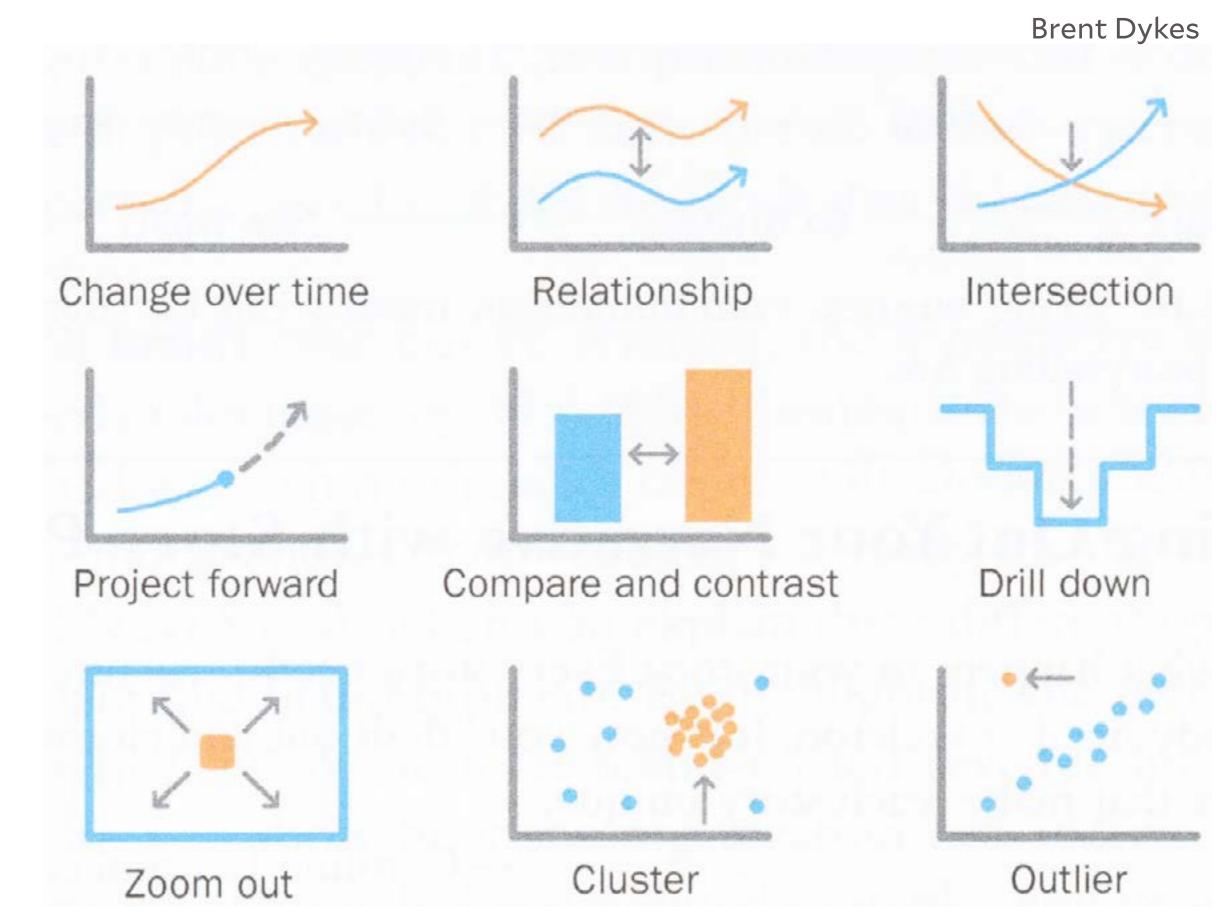
Introduction Body Conclusion

Tell 'Em (Repetition)

- · What you're going to say
- · What you say
- · What you just said

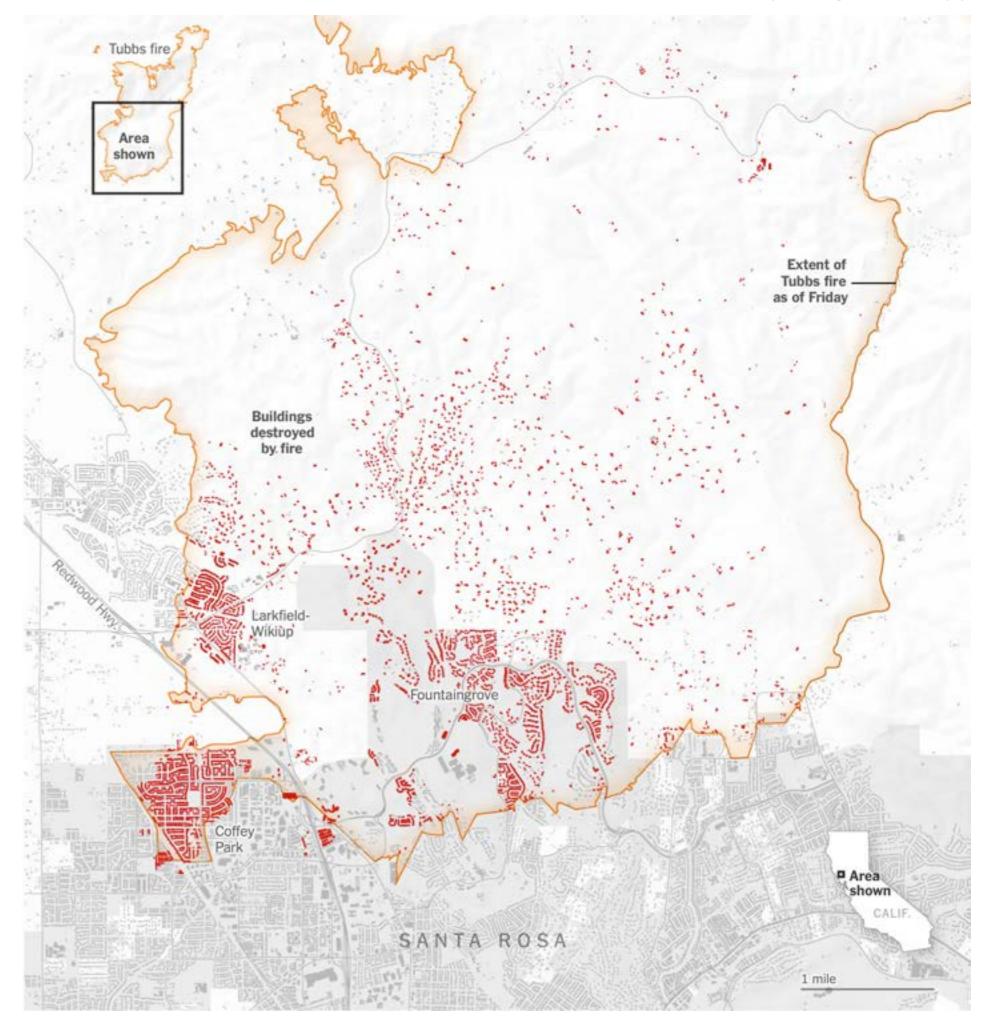
Storypoints for graphical form

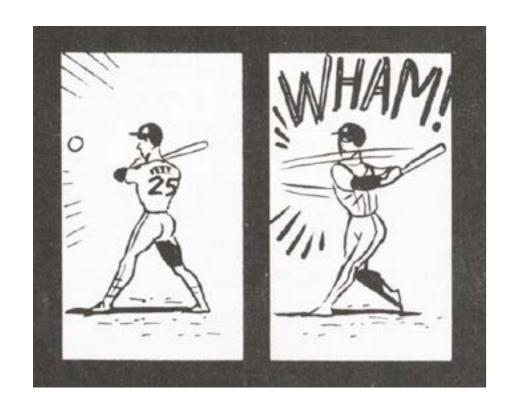
- 1. Change over time
- 2. Relationship
- 3. Intersection
- 4. Project forward
- 5. Compare/contrast
- 6. Drill down
- 7. Zoom out
- 8. Cluster
- 9. Outlier



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New York Times





Action to action



Subject to subject

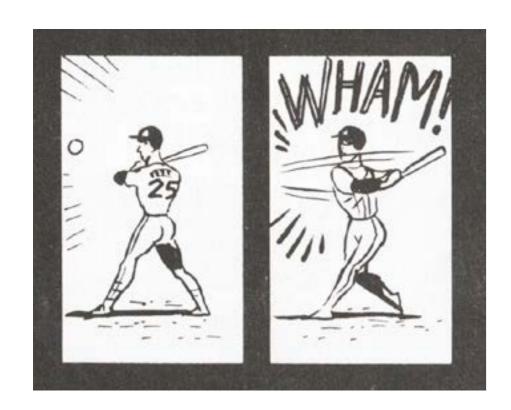


Scene to scene





Aspect to aspect



Action to action



Subject to subject

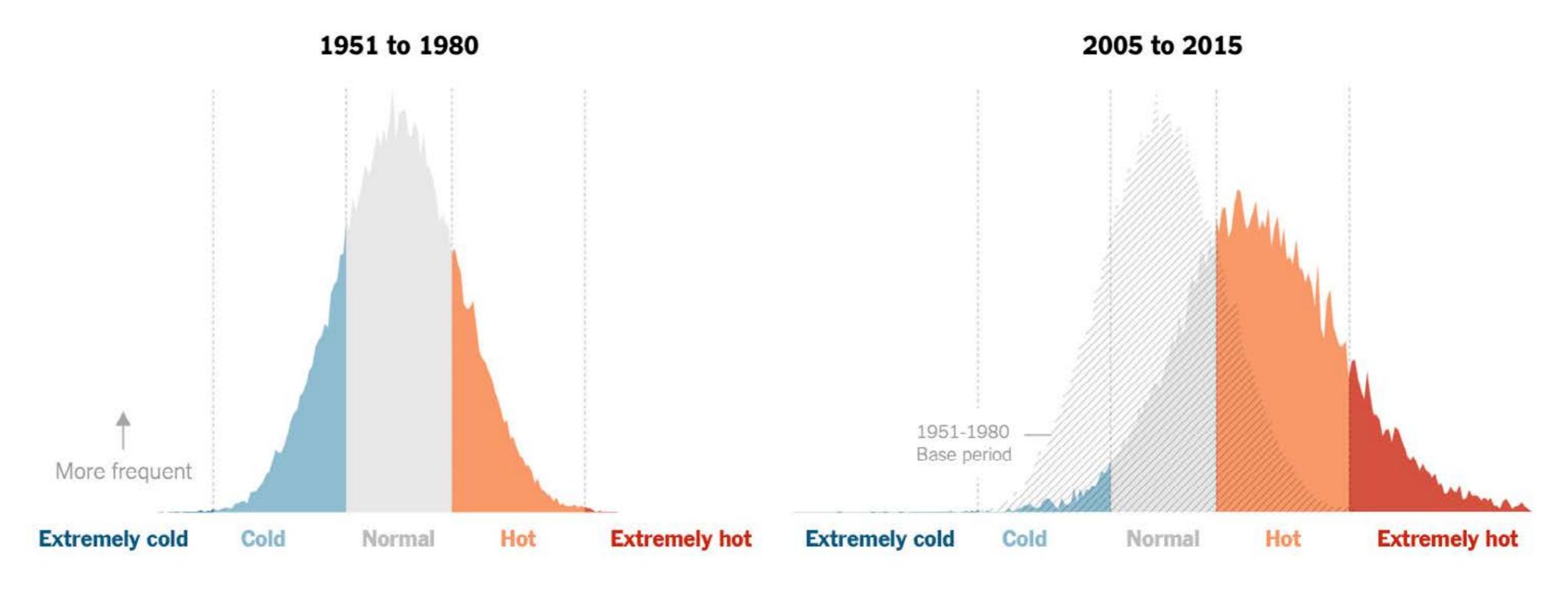


Scene to scene

Scott McCloud



Aspect to aspect





Action to action



Subject to subject



Scene to scene

Scott McCloud



Aspect to aspect

Where We Came From and Where We Went, State by State

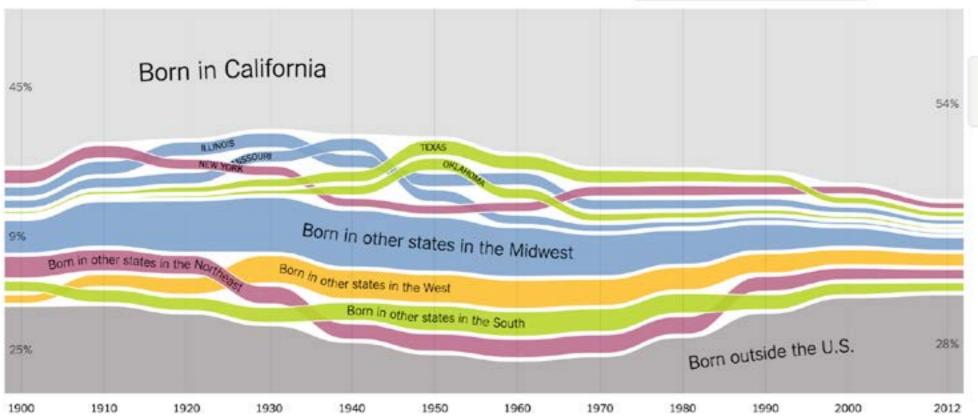
By GREGOR AISCH, ROBERT GEBELOFF and KEVIN QUEALY UPDATED August 19, 2014

We charted how Americans have moved between states since 1900. See how your state has changed.

Updated Aug. 19 Use this button to toggle between migrations to states and diaspora from states.

() Switch to Diaspora Out of California

Where people living in California were born:

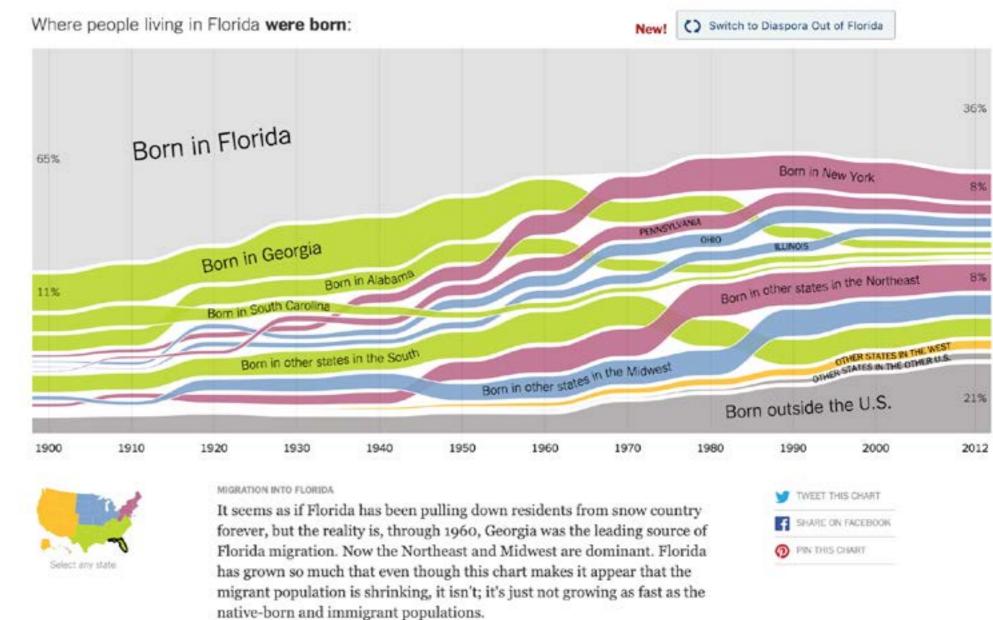


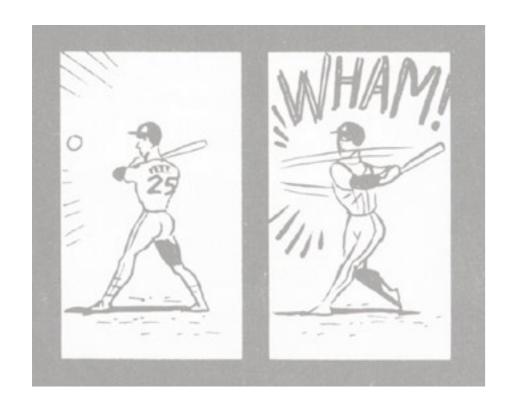


Foreign immigration is a hot topic these days, but the movement of people from one state to another can have an even bigger influence on the United States' economy, politics and culture. Americans have already seen this with the Western expansion, the movement of Southern blacks to Northern cities and the migration from the Rust Belt.



New York Times





Action to action



Subject to subject



Scene to scene

Scott McCloud



Aspect to aspect

TRAIL OFF

Mono Lake State Naural Area boasts 8 easily walkable trails totalling 14.4 miles, offering unique views of mountains, lake shores, limestone rock formations and brilliant wildflowers.





TELL A FRIEND!

HIKE THE TRAILS

Kelsey Robinson



One of the world's largest nesting grounds for California gulls is Negit Island in Mono Lake. When water levels fell to their lowest levels a land bridge formed and allowed coyotes and other preadators to access the island. In 1979 not a single gull chick survived to adulthood.



Considerations for your project

If it could apply to your work:

- 1. Identify the "aha moment": What is the key insight that the audience should take away from the visualization?
- 2. Find the beginning, including the Hook (the key point of interest to start the narrative) and the setting.
- 3. Choose rising insights, to build up to the "aha moment."
- 4. Do you want to empower the audience to act by creating a set of next steps and/or a clear call to action.

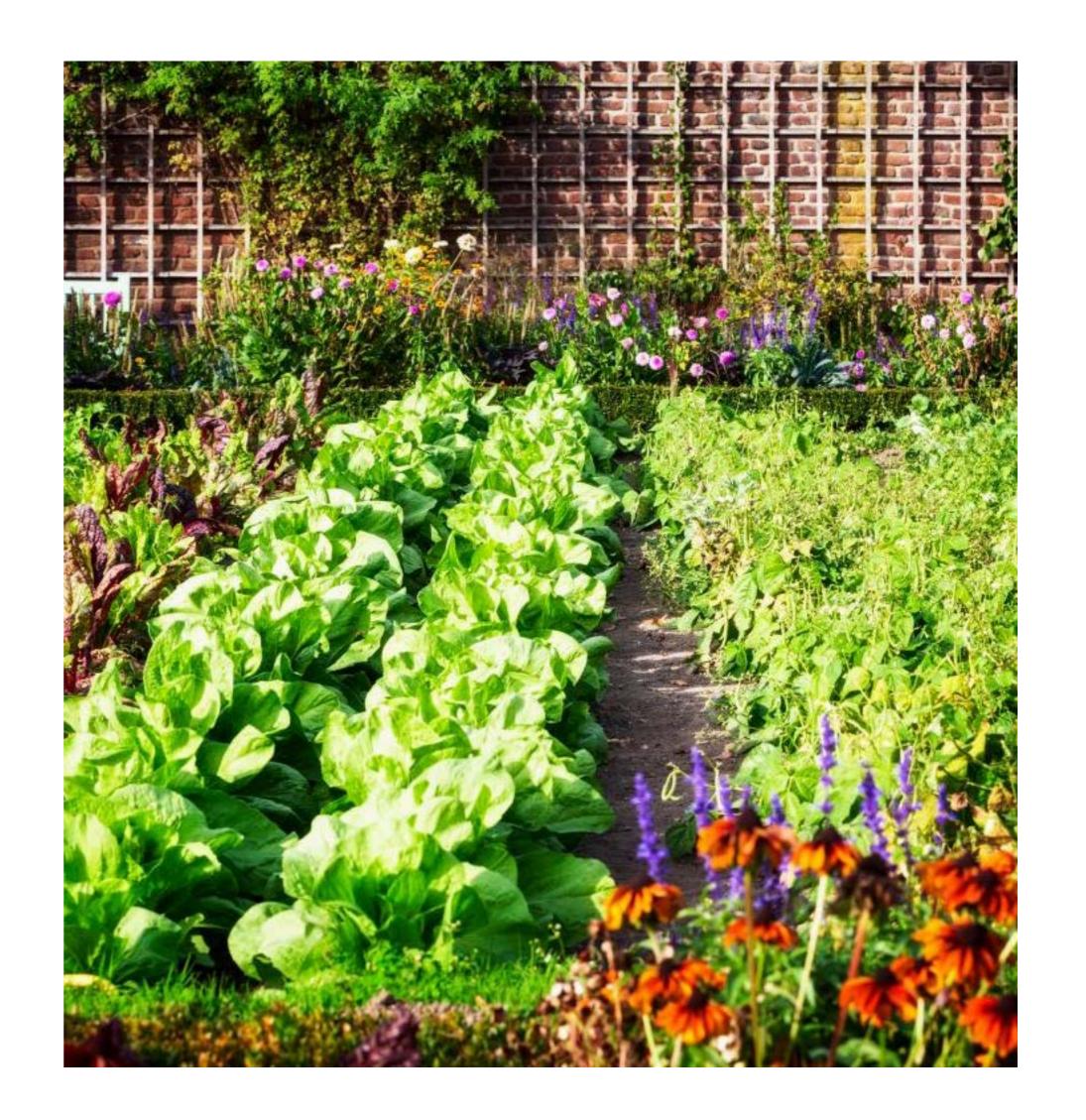
"Analogies, it is true, decide nothing, but they can make one feel more at home."

- Sigmund Freud

Using analogies

Verify you have a solid analogy

- · Is it relatable?
- · Is it sound?
- · Is it clear?
- · Is it concise?
- · Is it interesting?

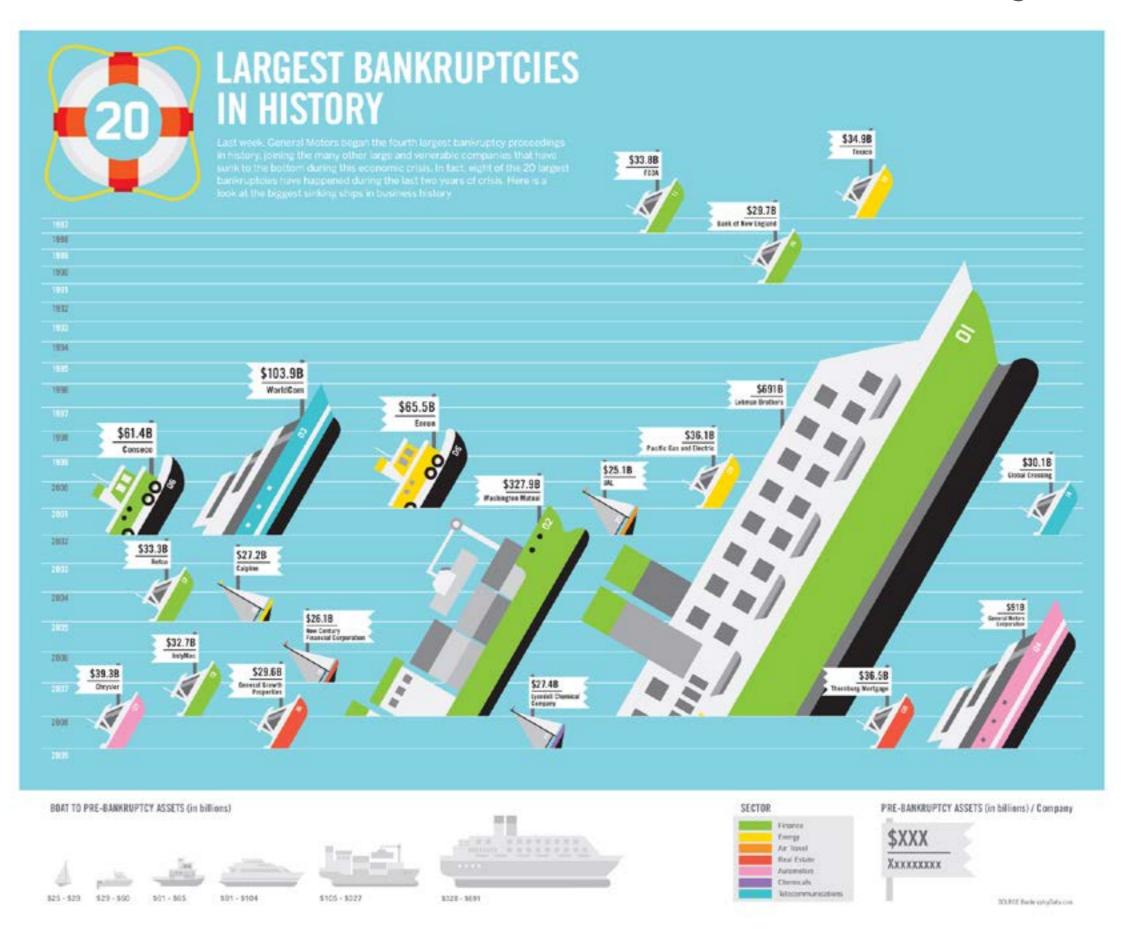


Using analogies

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Good Magazine



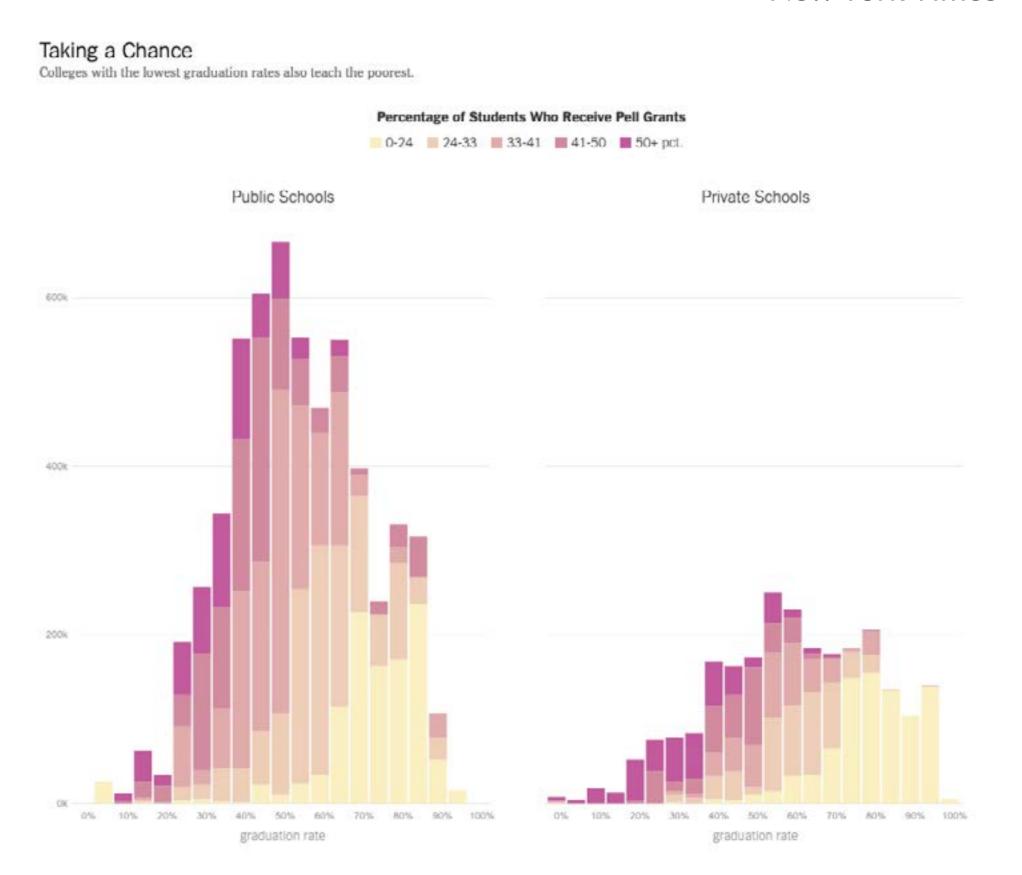
Questions?

types of data visualization

When looking at the data you've chosen, consider what you're aiming to compare, and what different forms of visualization are good at showing.

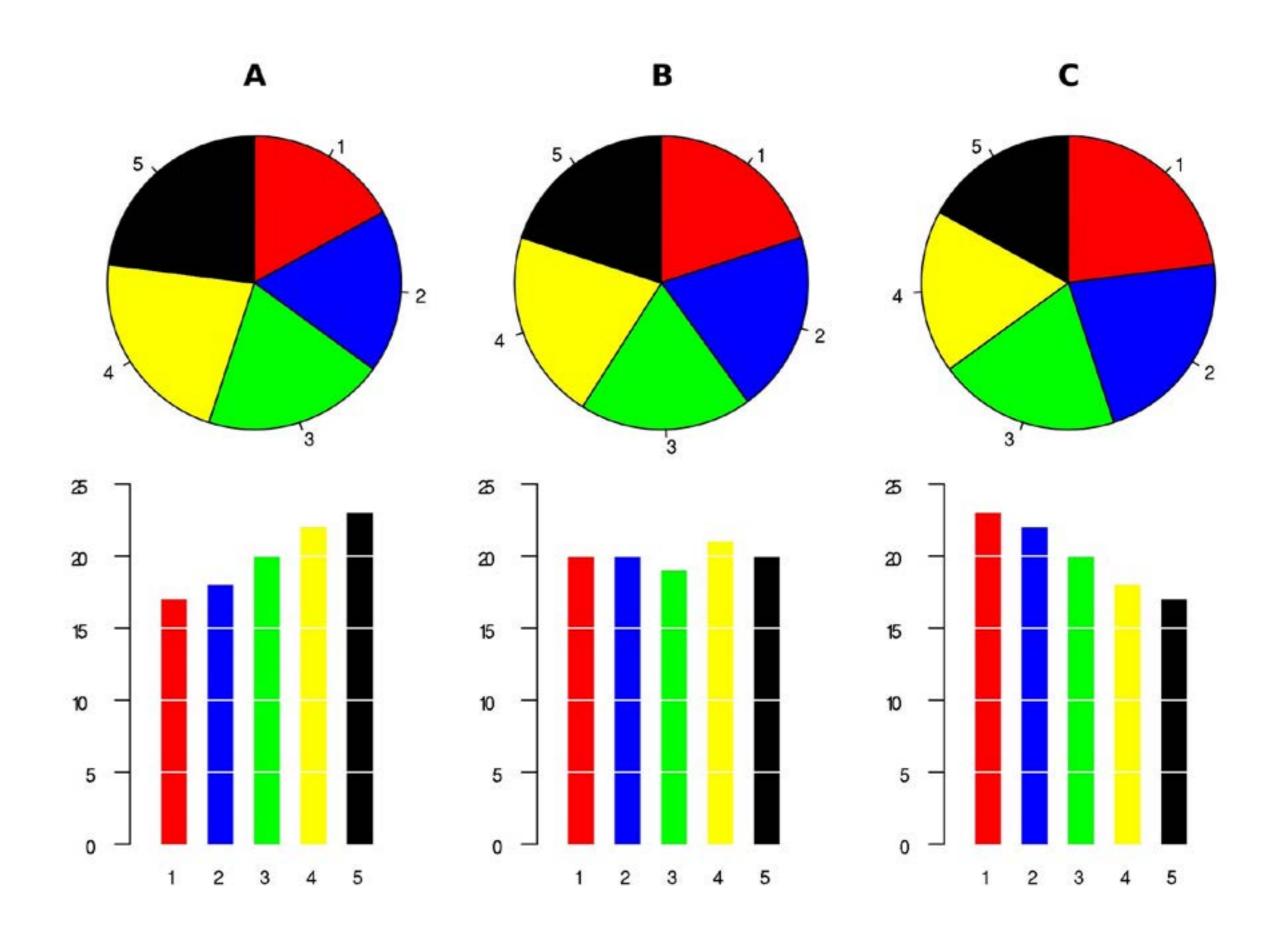
Many different forms can be viewed at datavizproject.com

New York Times



Types of data visualization

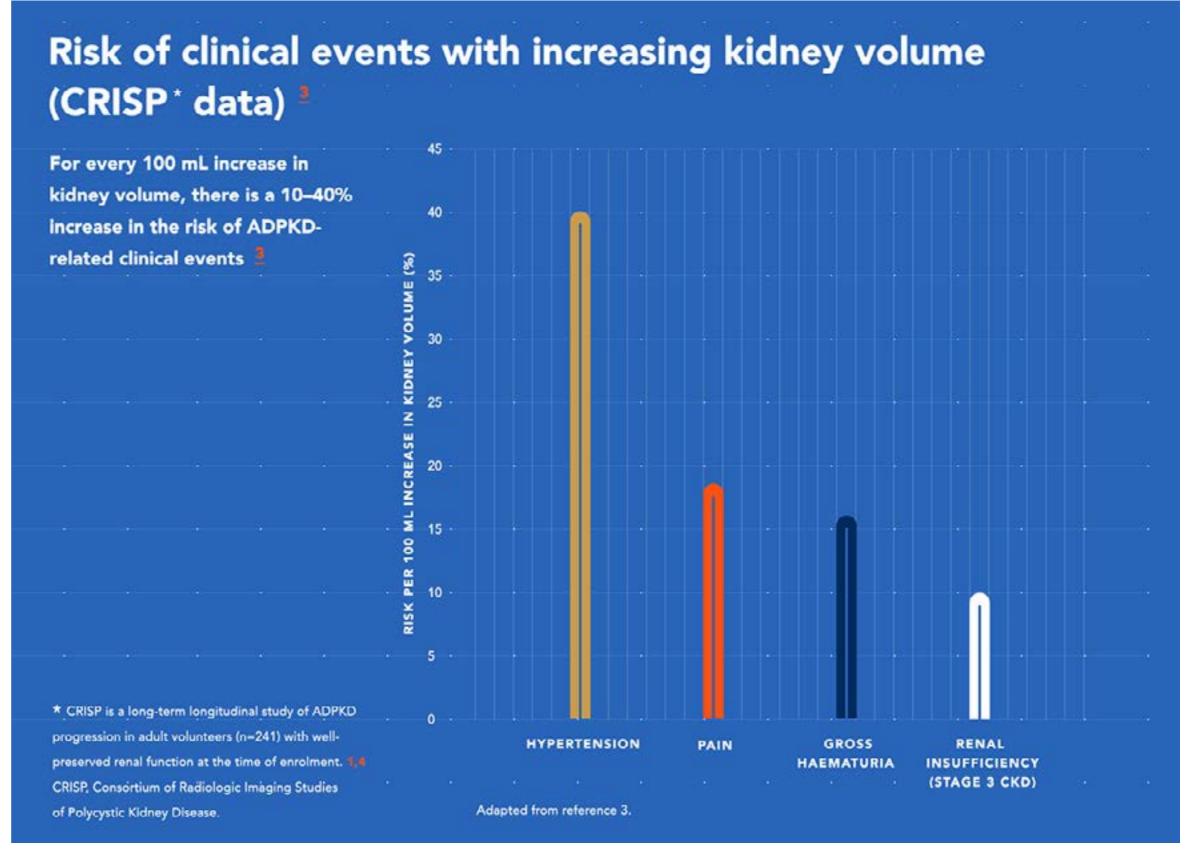
It can be difficult to compare values in Pie charts. Only use them when you have a few amounts to compare.



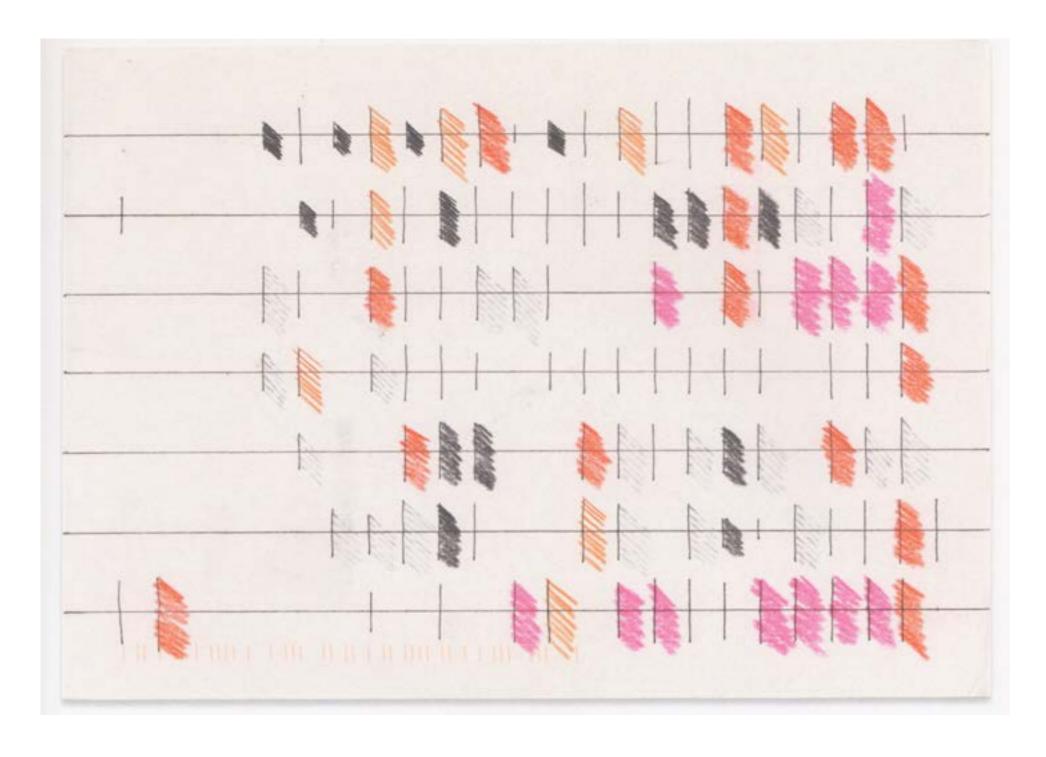
Types of data visualization

You can find interesting ways to display conventional forms

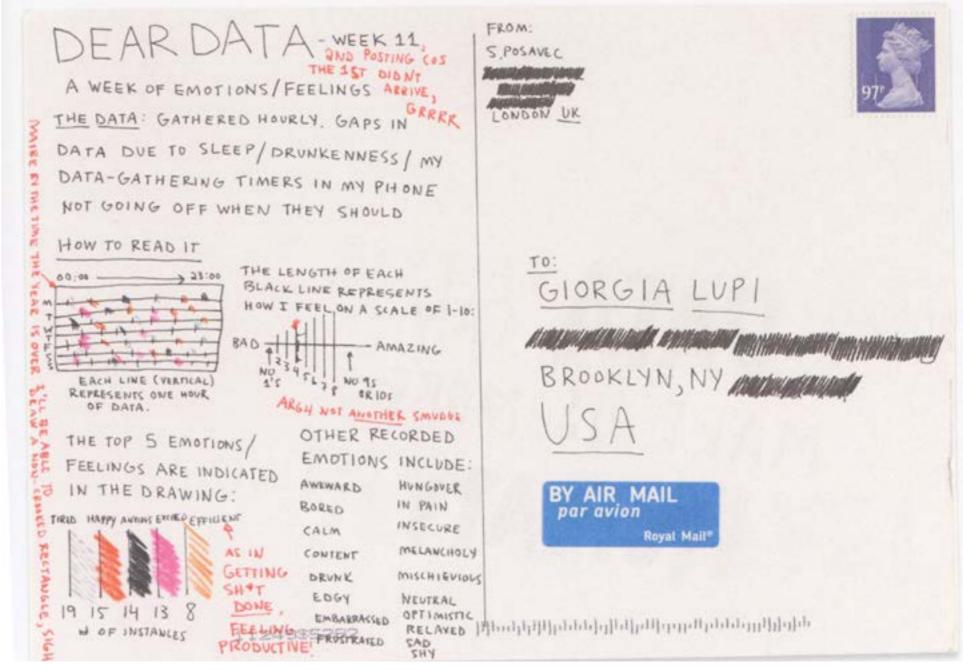
Jinarc



You can find interesting ways to display conventional forms



Stephanie Posavek



Temporal

Hierarchical

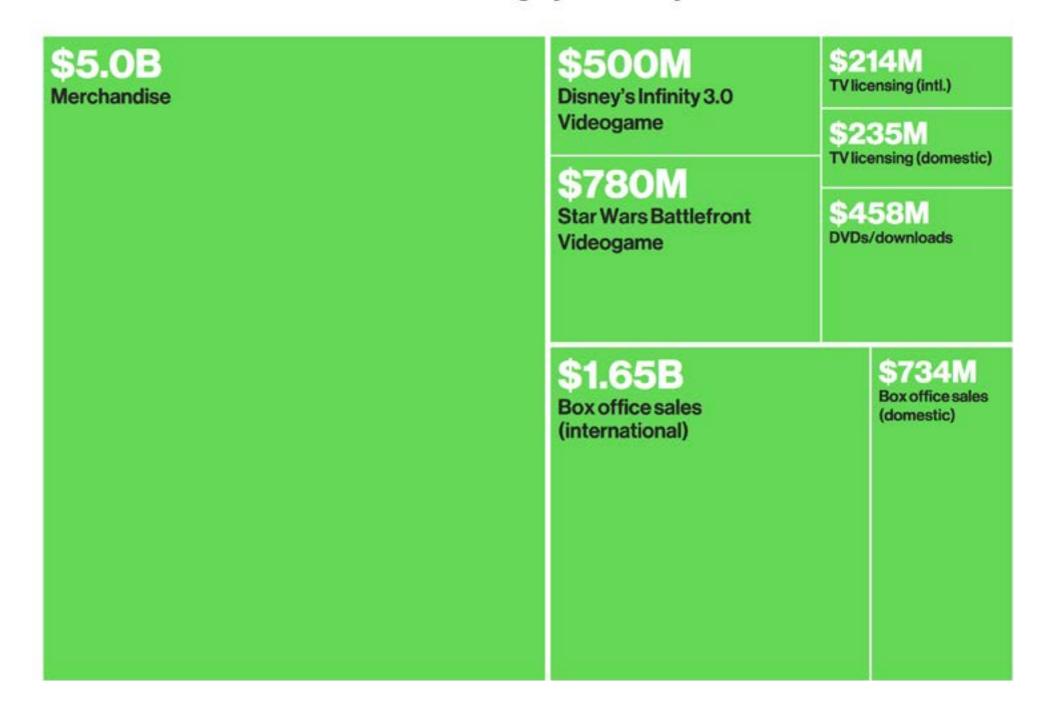
Spacial

Textual

Relational

Bloomberg

"The Force Awakens" could produce \$9.6 billion in revenue from worldwide ticket sales, merchandise, and home entertainment in roughly the first year of release.



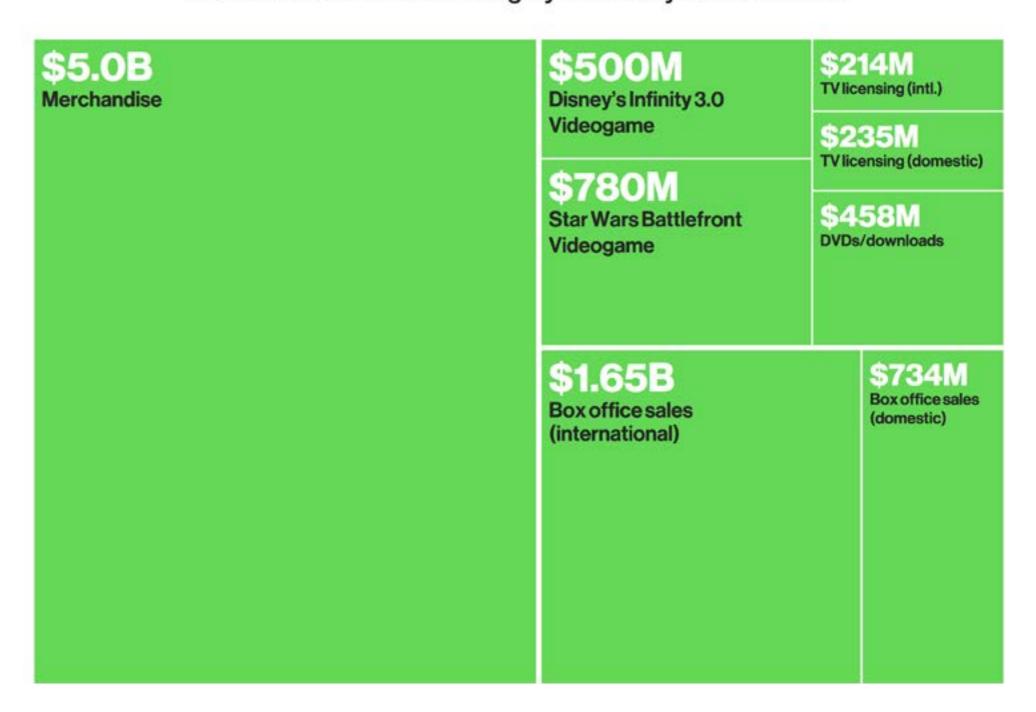
Hierarchical

Tree maps compare data in nested rectangles. Rectangles can be grouped by category.

Other hierarchical visualizations include Sunburst diagrams and Voronoi diagrams.

Bloomberg

"The Force Awakens" could produce \$9.6 billion in revenue from worldwide ticket sales, merchandise, and home entertainment in roughly the first year of release.



The Economist

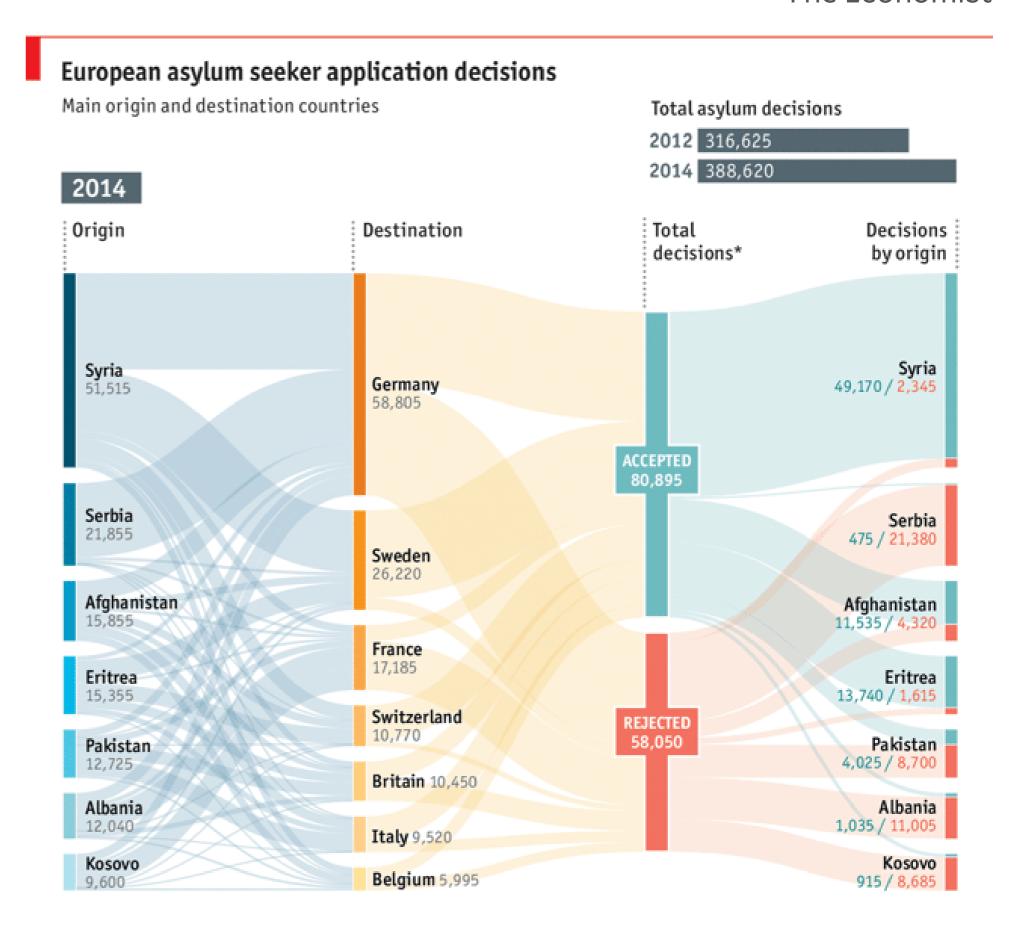
Temporal

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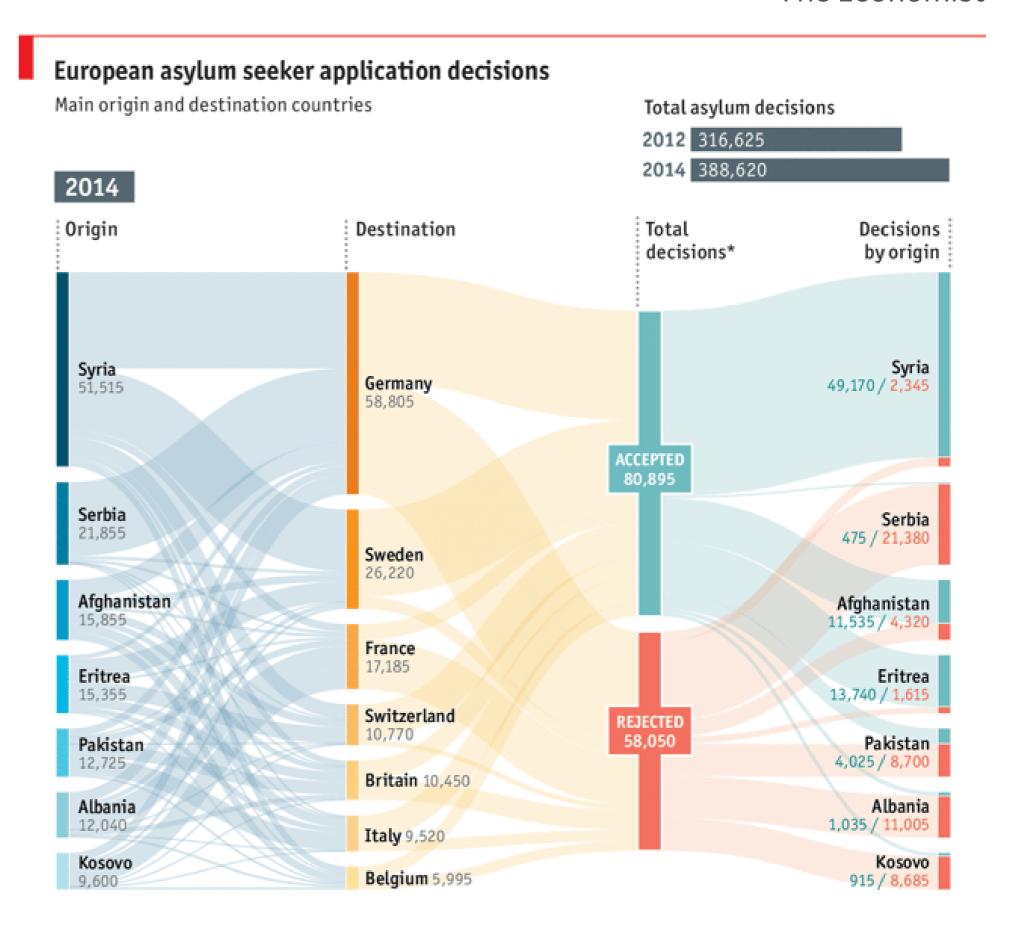


The Economist

Relational

An alluvial diagram can represent how a network structure changes.

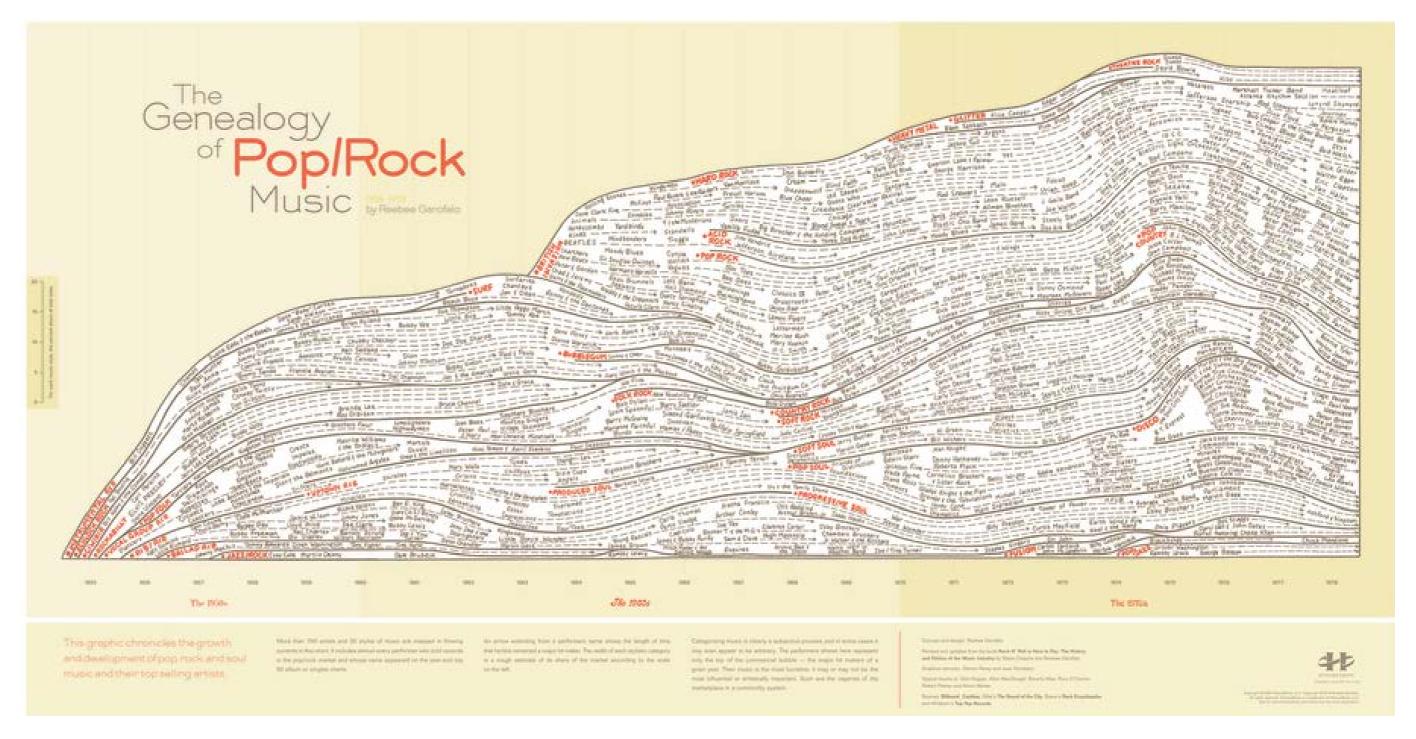
Chord diagrams are also an example of relational data visualizations



Temporal
Hierarchical
Spacial
Textual

Relational

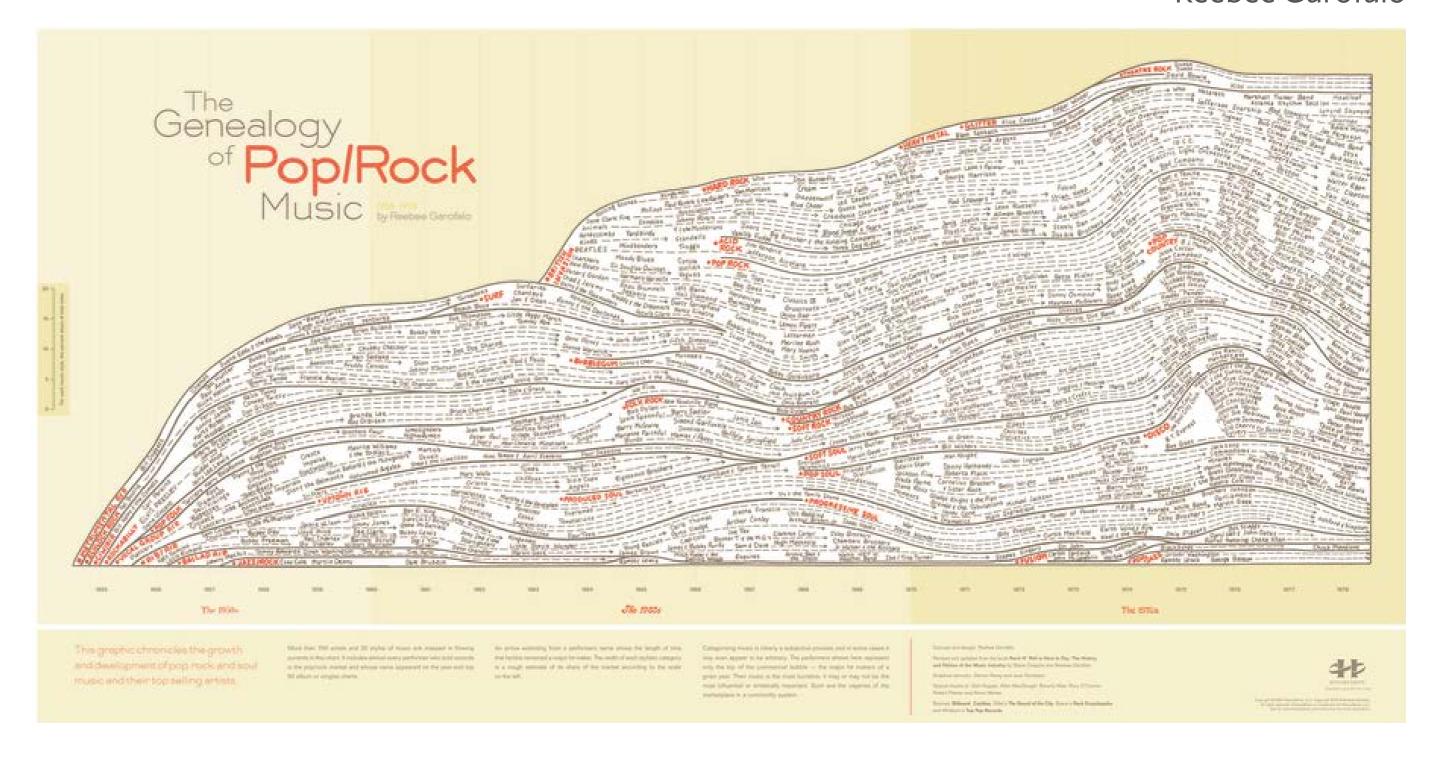
Reebee Garofalo



Temporal

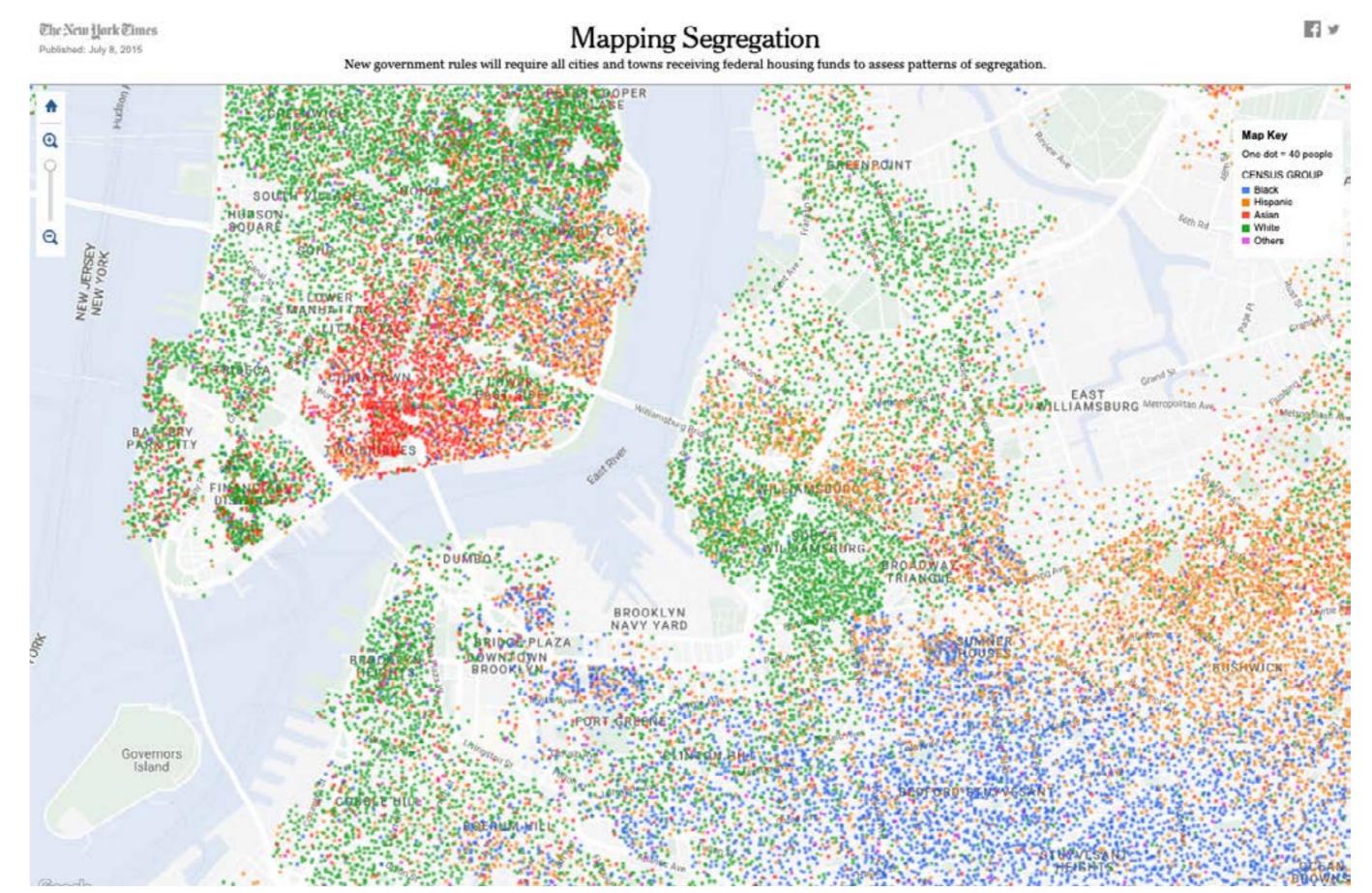
A stacked area chart is useful for comparing the change in multiple variables over time.

Reebee Garofalo



New York Times

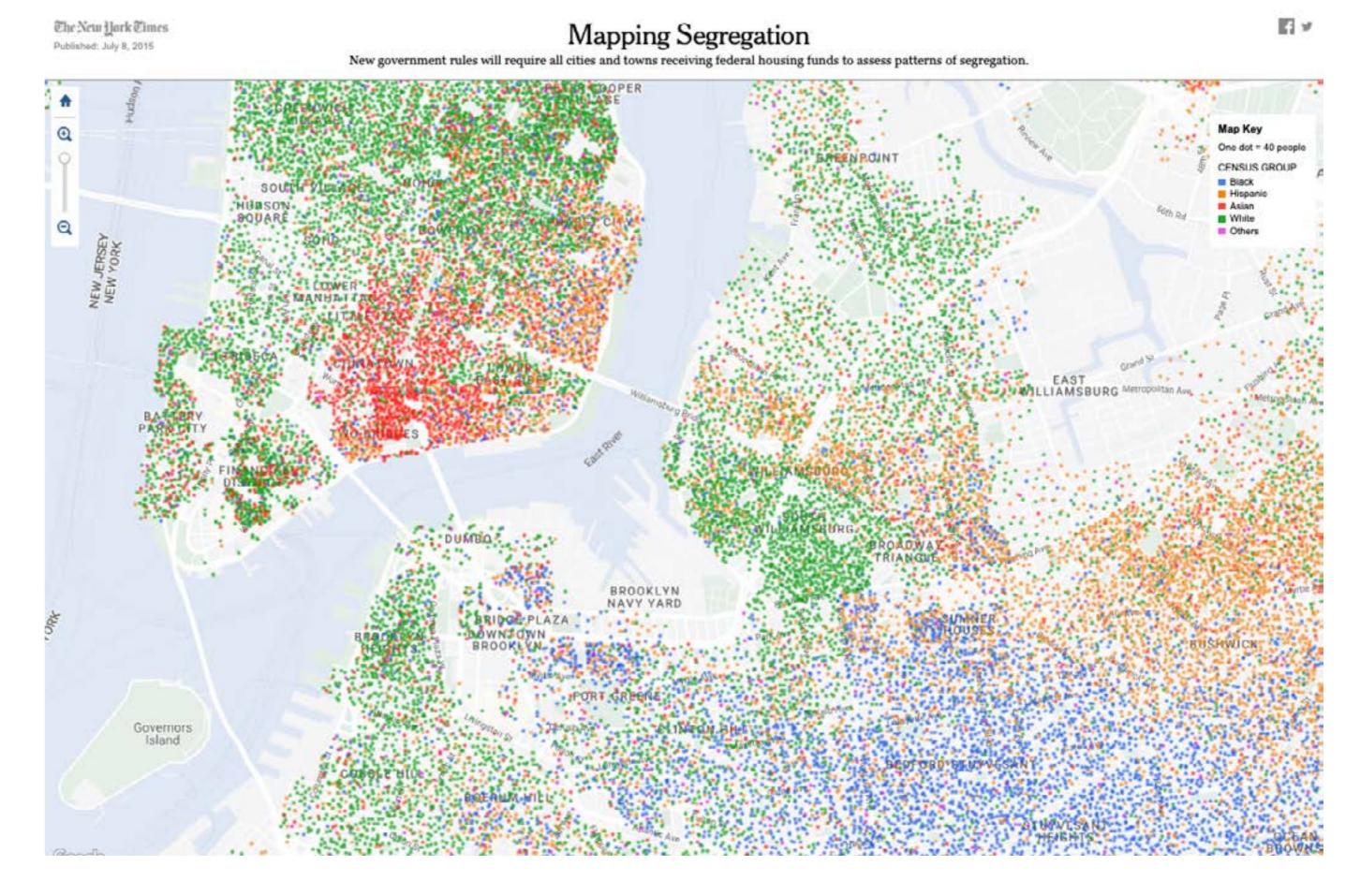
Temporal
Hierarchical
Spacial
Textual
Relational



New York Times

Spatial

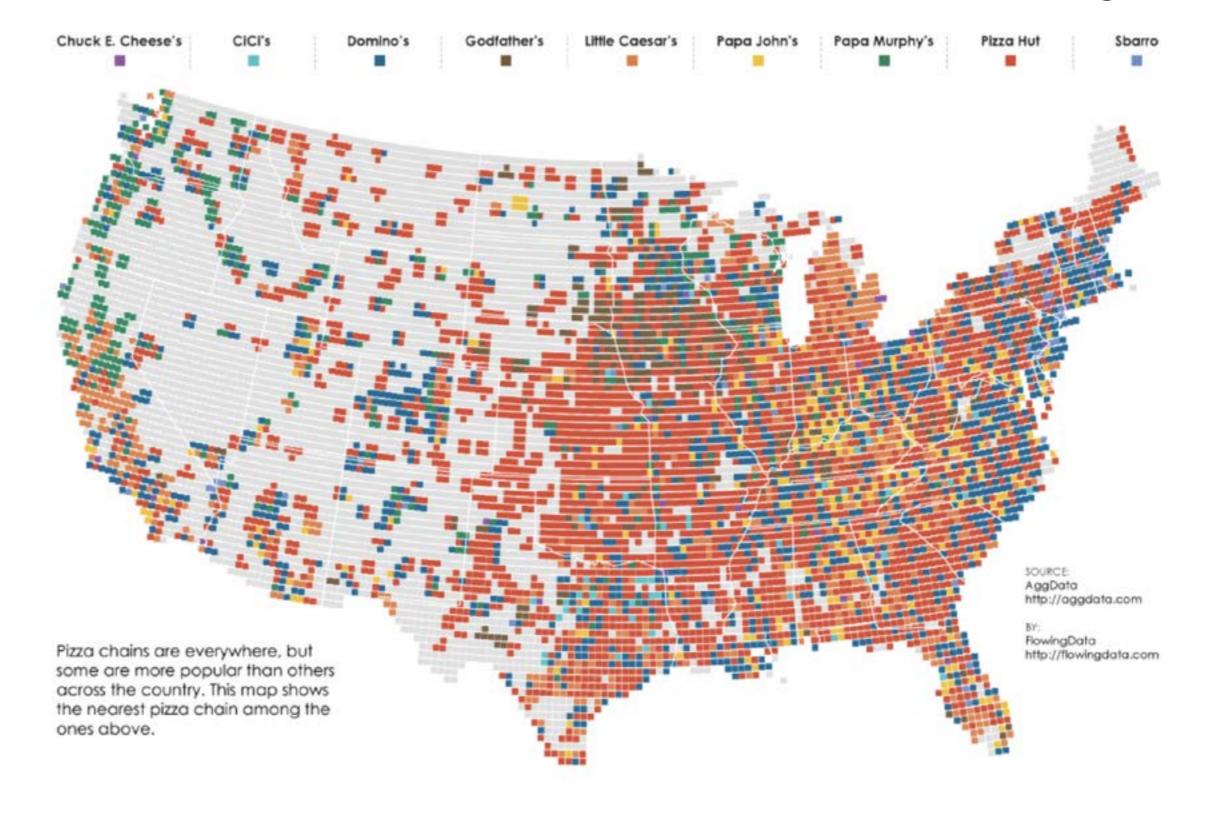
A dot density map uses a symbol to represent a feature at a location. The amount of dots in an area indicates high or low concentration.



Spatial

A choropleth map can visualize how a measurement changes across a geographic area by using shading of different regions

Flowing Data



Spatial

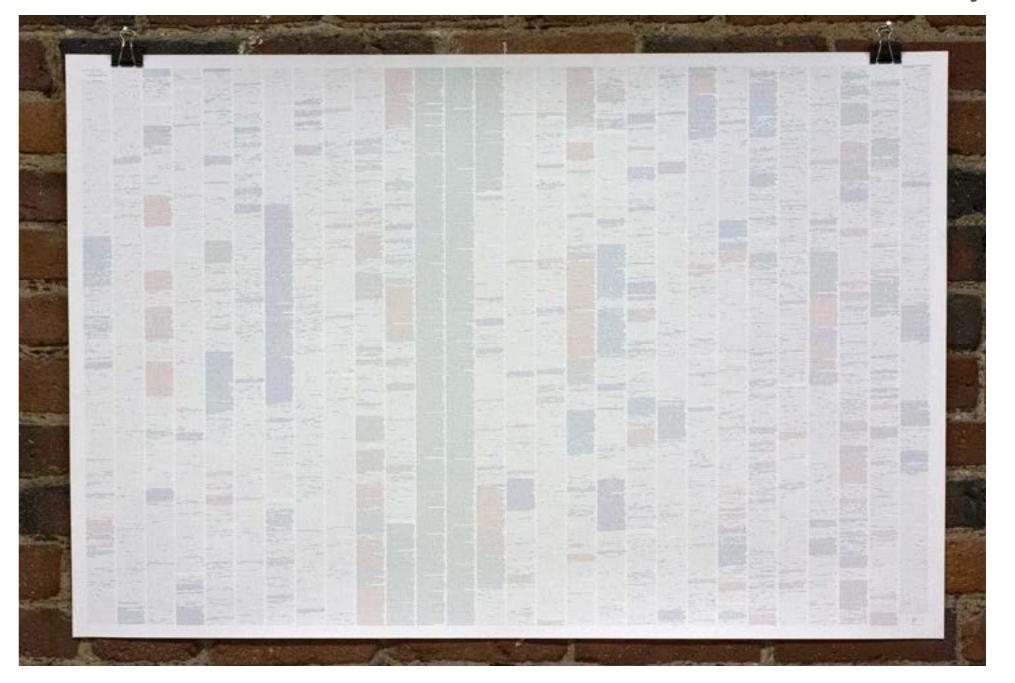
A bubble map is used to visualize location and proportion.

The Refugee Project



Textual

Using text as the data.





Editing The Gray Lady

Six workers Workers at Hunts Point Market died from Covid, and hundreds fell ill. They say won a raise they deserve higher wages after said was deserved for risking their health to supply New York City with food.

Textual

Using text as the data.

New York Times

Tall the News That's Fistor Prior The New Hork Times Late Left Inc. That's Fistor Prior Times The New Hork Times Times

U.S. DEATHS NEAR 100,000, AN INCALCULABLE LOSS

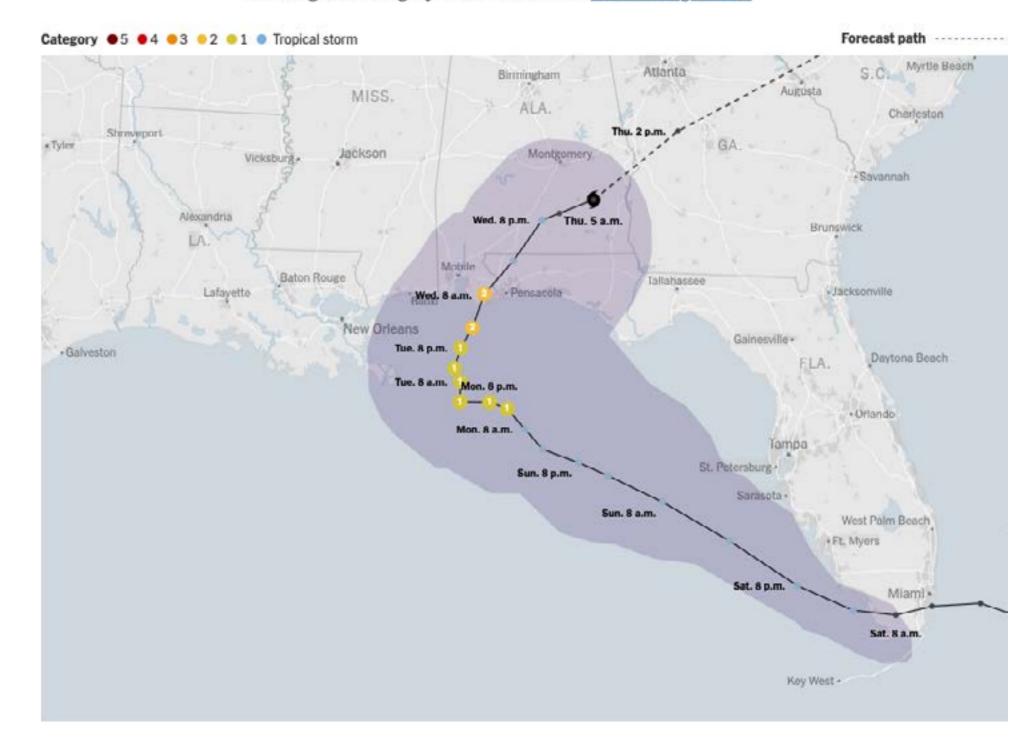
New York Times

A route map has starting and ending points on geographic data. It's possible to indicate time or other values in the route.

Map: Hurricane Sally's Path and Rainfall

By Matthew Bloch, Scott Reinhard and Tim Wallace Updated Sept. 17, 2020

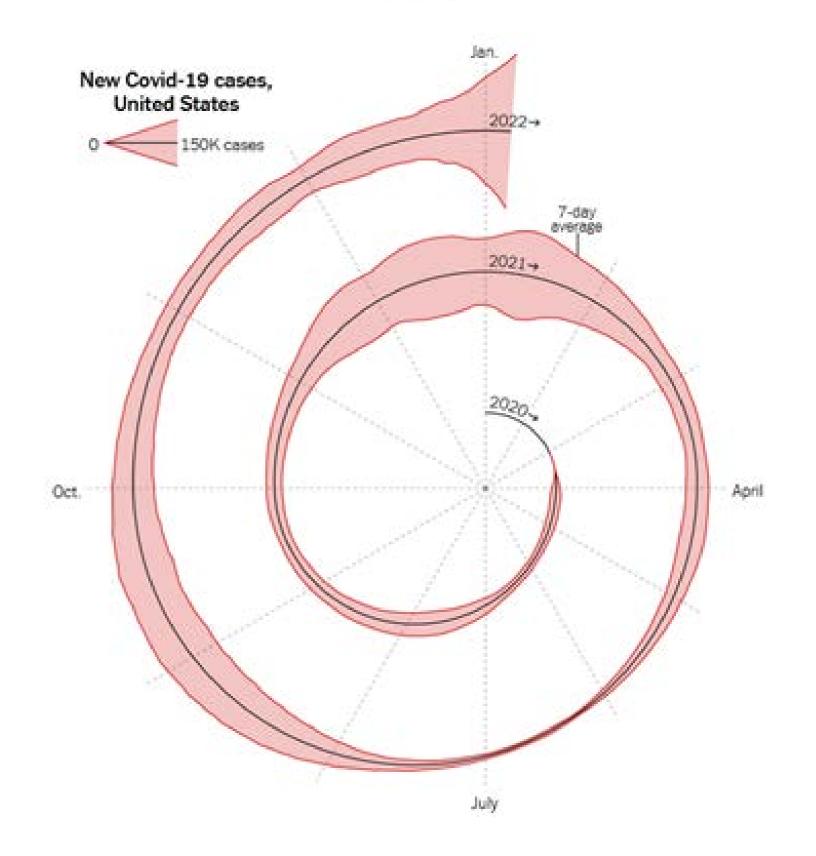
Hurricane Sally made landfall on the Gulf Coast Wednesday morning as a Category 2 storm. Read our live coverage here



The controversial New York Times spiral graph.

Here's When We Expect Omicron to Peak

Jan. 6, 2022



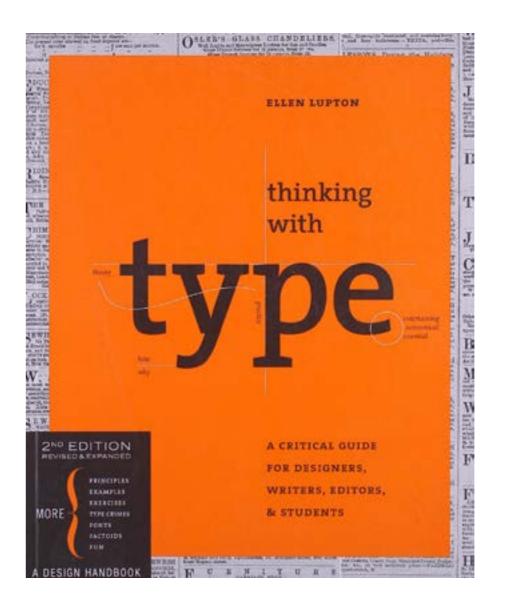
For next week

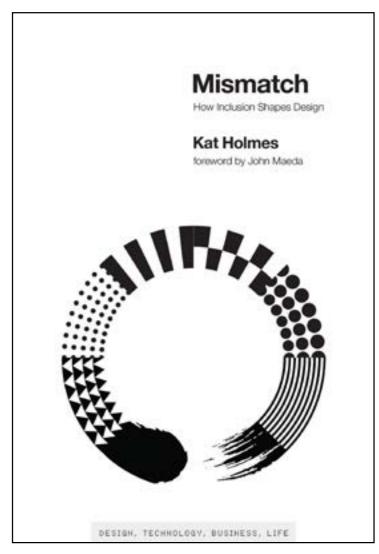
Peer feedback

Post your final project sketches and hierarchy in Canvas and comment on at least two other people's projects.

Reading

- Lupton chapter 3(Grid)
- · Holmes chapters 5





The Final Project

Part 2 (due session 7)

Create at least half of the "sections" (ie: pages, segments of a poster, etc) including at least 2 forms of data visualization (ie: hierarchical, temporal, spatial, spatio-temporal, etc). Make sure that together they address at least 5 of the themes.

Your submission will be a PDF containing at least half of the "sections" and at least 2 forms of data visualization crafted. They should be:

- · Placed in your chosen format
- · Created or modified in a design application
- · In an art board using your type hierarchy

The Final Project

Part 3 (due session 8)

Your submission will be a PDF with all completed "sections" including at least 3 forms of data visualization

- · placed in your chosen format
- · created or modified in a design application
- · using your grid and type hierarchy

With your submission, write a paragraph describing how your Final Project uses at least 5 of the chosen themes (affordances, inclusive design, etc)

Prepare a 5-10 minute presentation of your completed Final Project which you will share in class.

Questions?

Break