

Peer Feedback Session

DSC 106: Data Visualization

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Announcements

Today: Peer feedback session, 15 min intervals.

Final Project video due next week Tuesday.

Wed June 4: Final Project mock showcase

Fri June 6: Final Project video highlights

Sun Jun 8: Final Project due

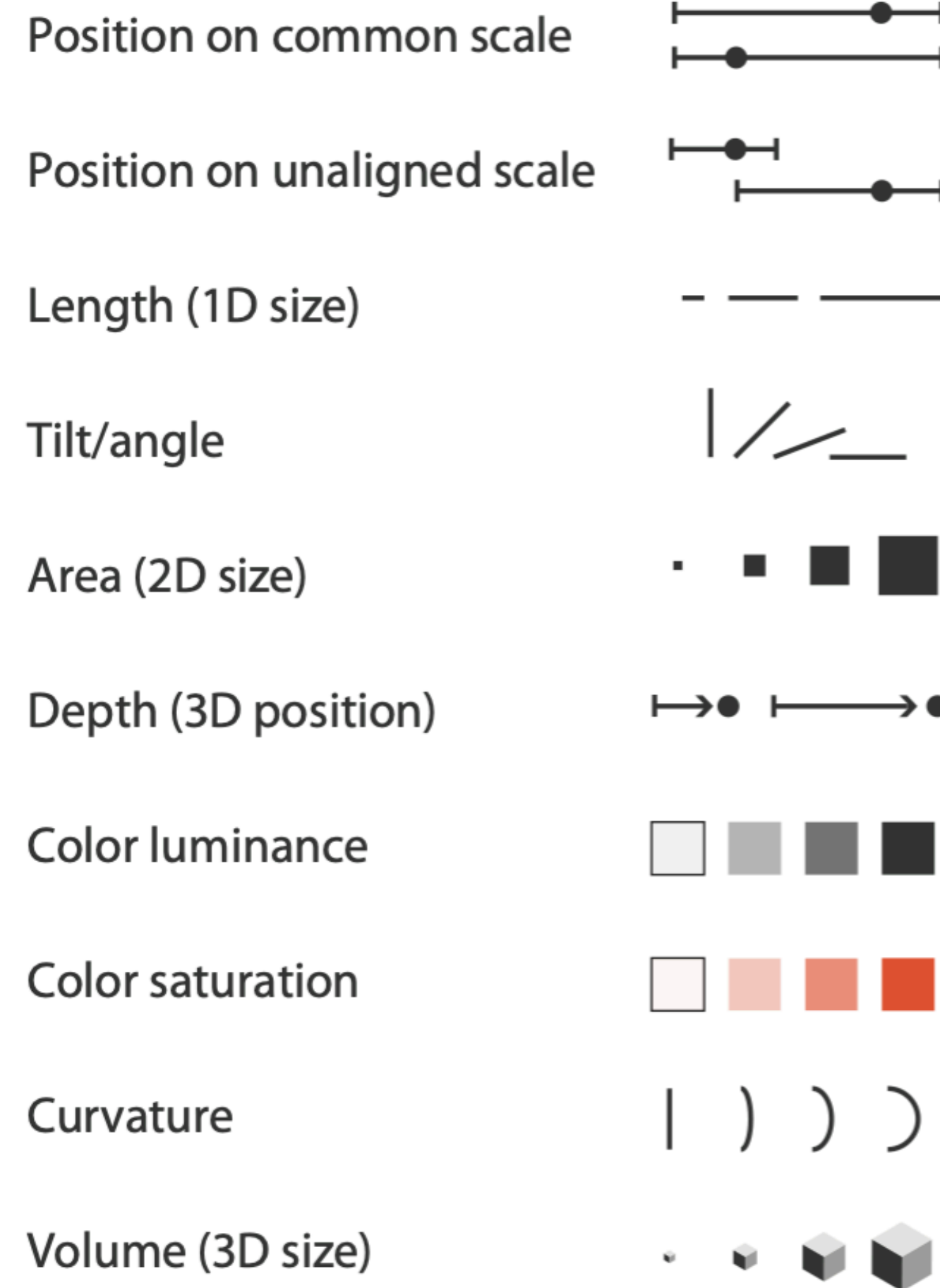
Mon Jun 9: Final Project Showcase

Conclusion

Data and Image Models

Channels: Expressiveness Types and Effectiveness Ranks

➔ **Magnitude** Channels: **Ordered** Attributes



➔ **Identity** Channels: **Categorical** Attributes



Tamara Munzner, *Visualization Analysis and Design* (2014).

Visual Encoding and Dark Patterns

Truncating the y-axis?

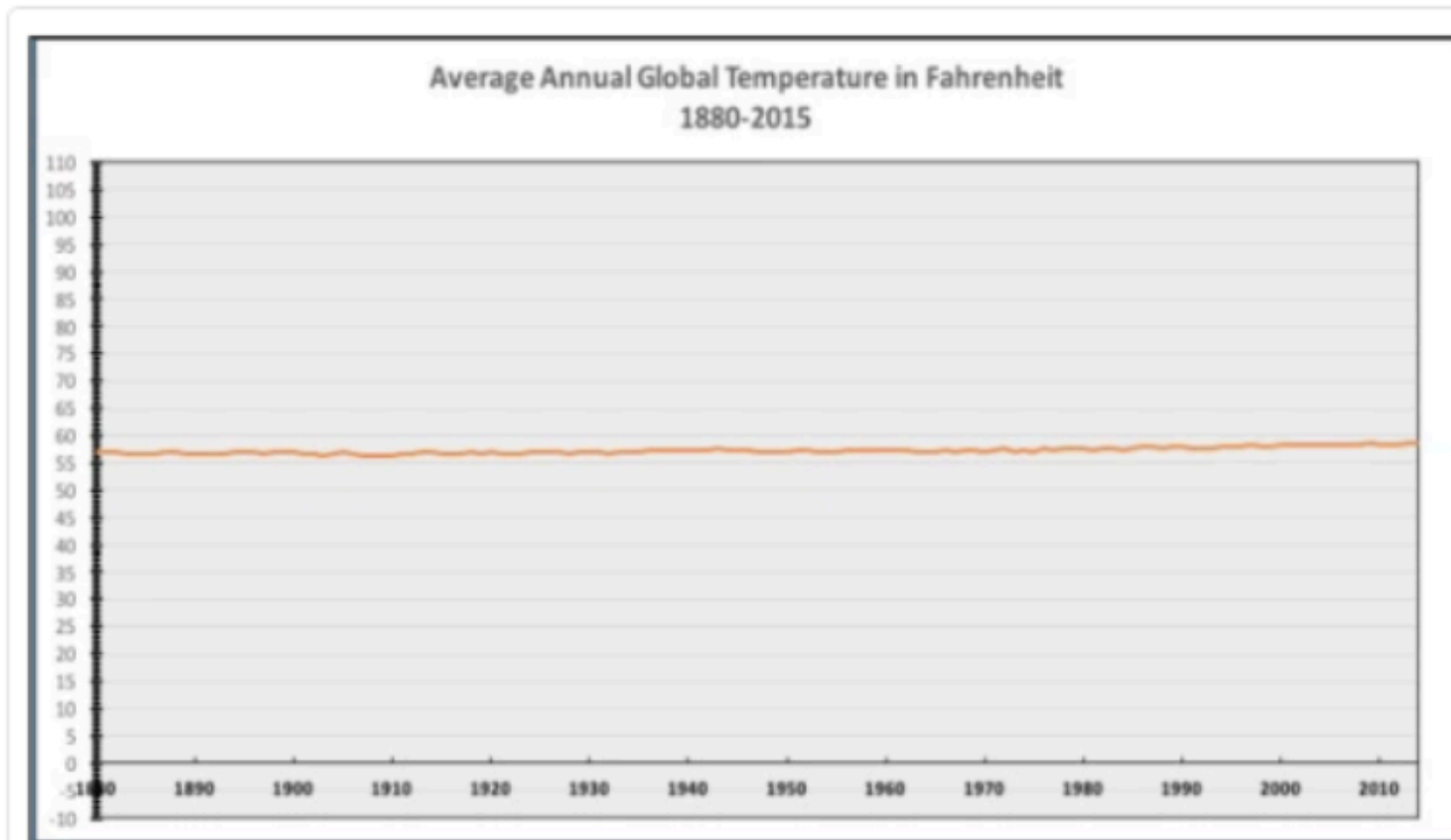
To emphasize Q-interval (vs. Q-ratio)
If the zero value doesn't make much sense.
If it is the norm (e.g., stock charts).



Follow

The only [#climatechange](#) chart you need to see. natl.re/wPKpro

(h/t [@powerlineUS](#))

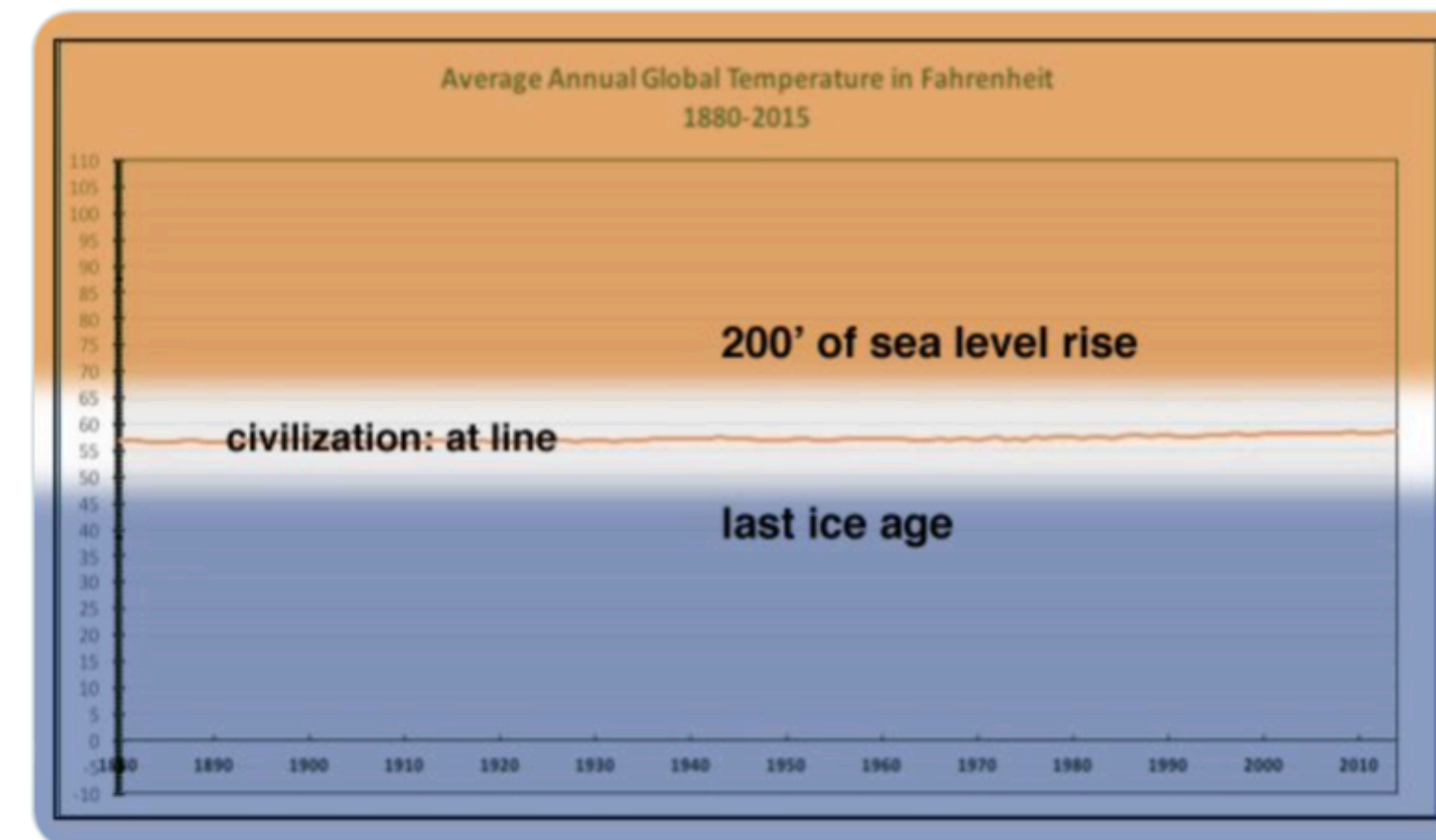


12:36 PM - 14 Dec 2015



Replying to [@NRO](#)

.[@NRO](#) [@powerlineUS](#) [@bradplumer](#) I'm sure someone else has fixed this for you, but here you go. Great idea, thx --



5:28 PM · Dec 14, 2015

78 Retweets 1 Quote Tweet 208 Likes

39

Perception

Graphical Perception Studies

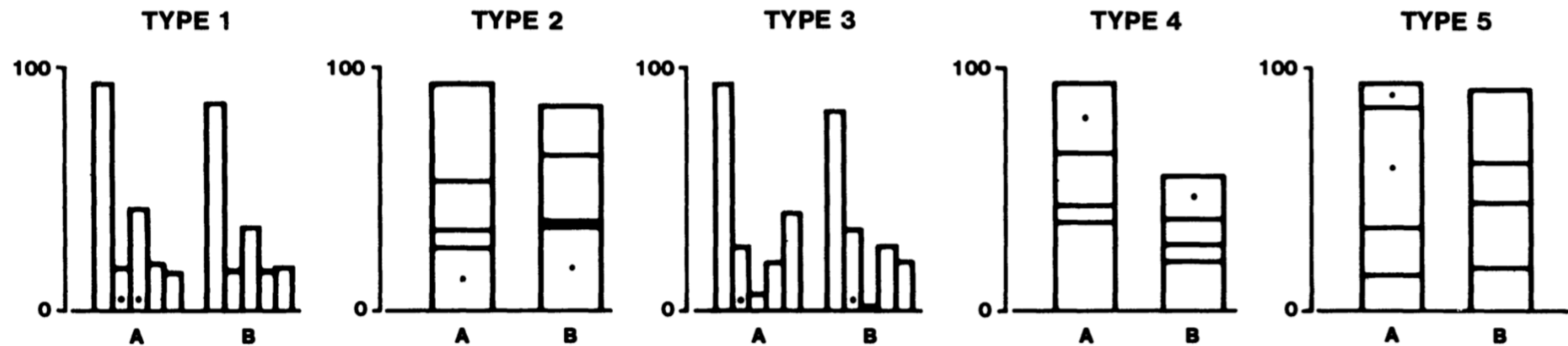


Figure 4. Graphs from position-length experiment.

What proportion is the smaller marked section of the larger?

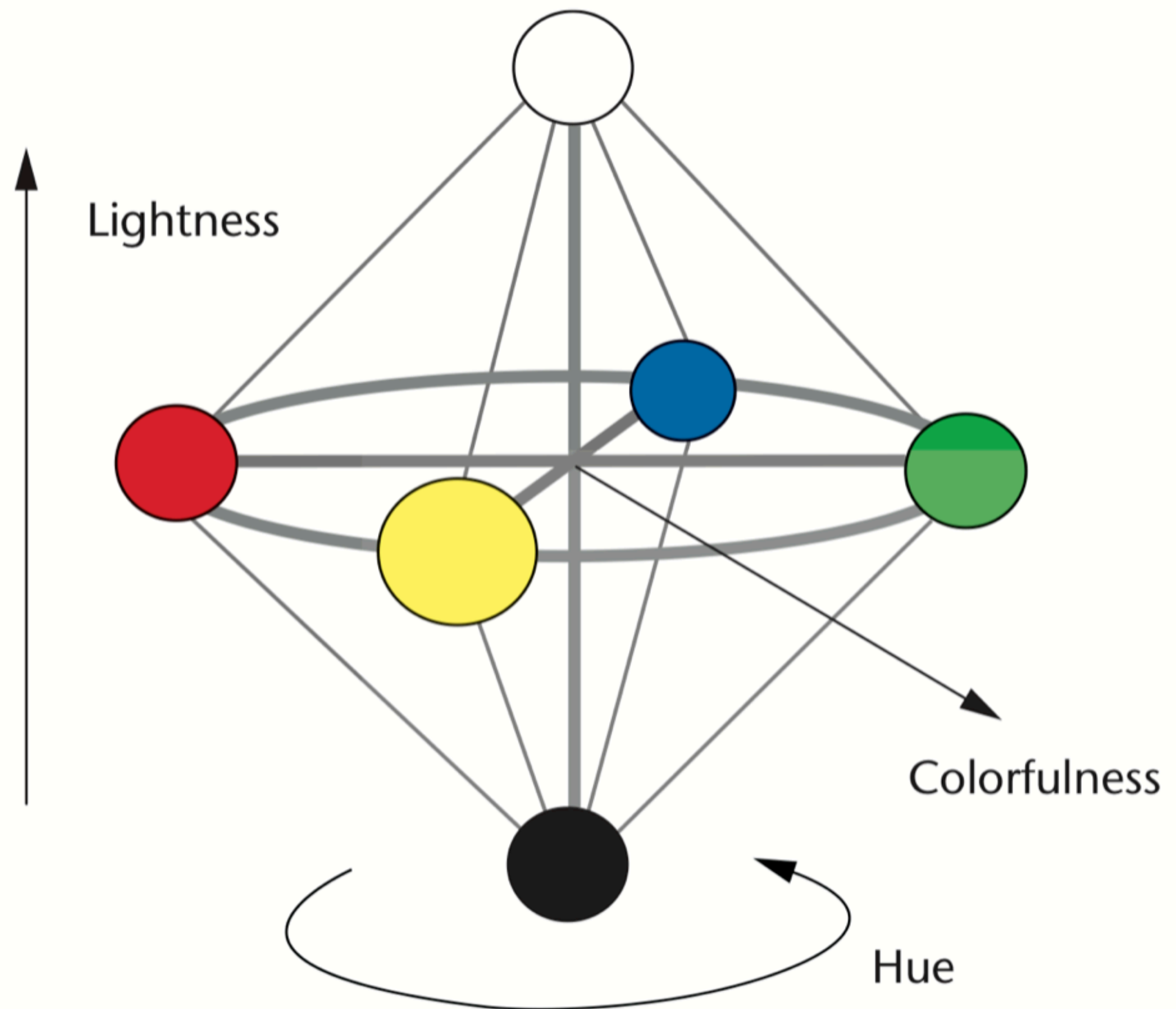
Color

OKLAB Color Space

Oklab is modern version of CIELAB that we recommend

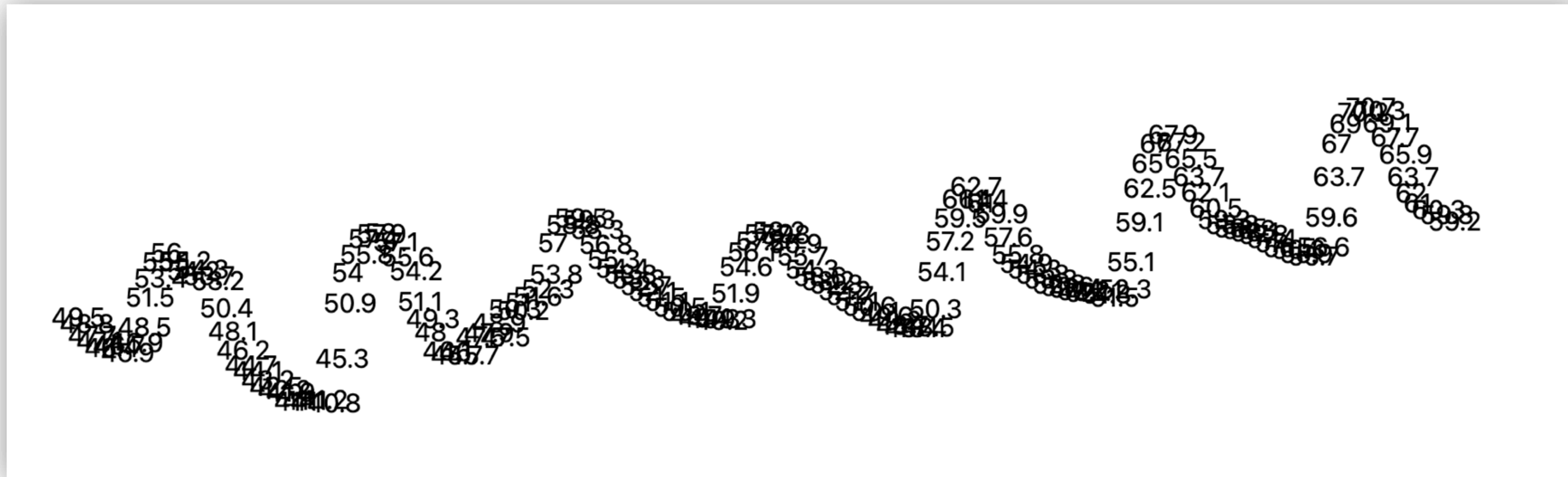
In CSS:

```
oklch(65% 50% 0)
```



JavaScript

Now, let's make our very first data visualization in JS:



[js-lecture/weather02/](#)

(demo)

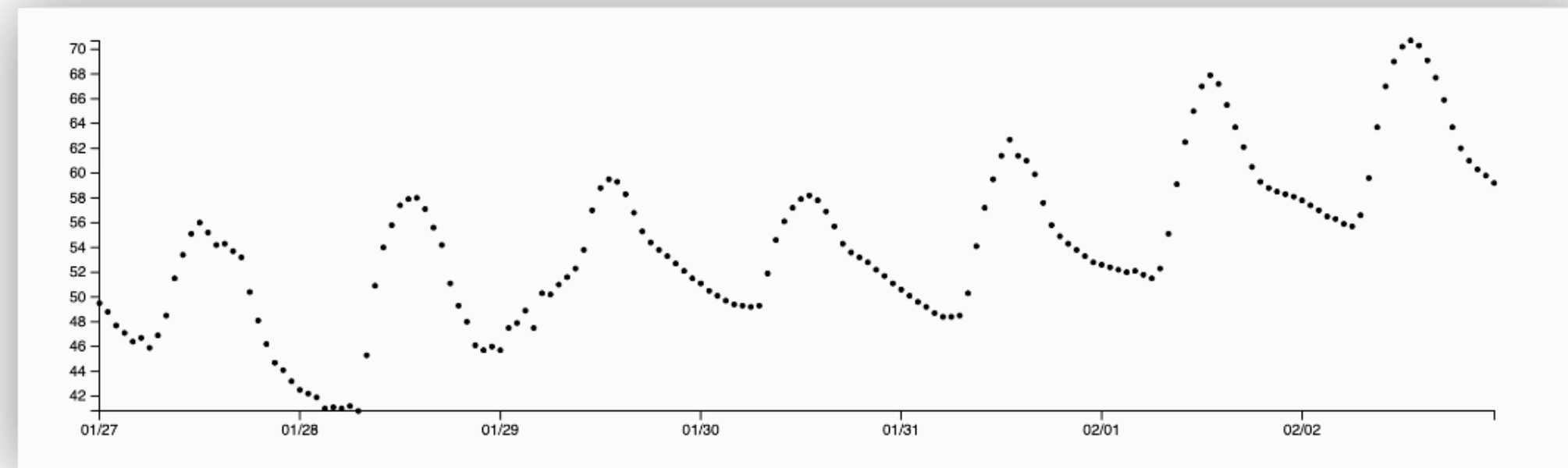
[js-lecture/weather03/](#)

(demo)

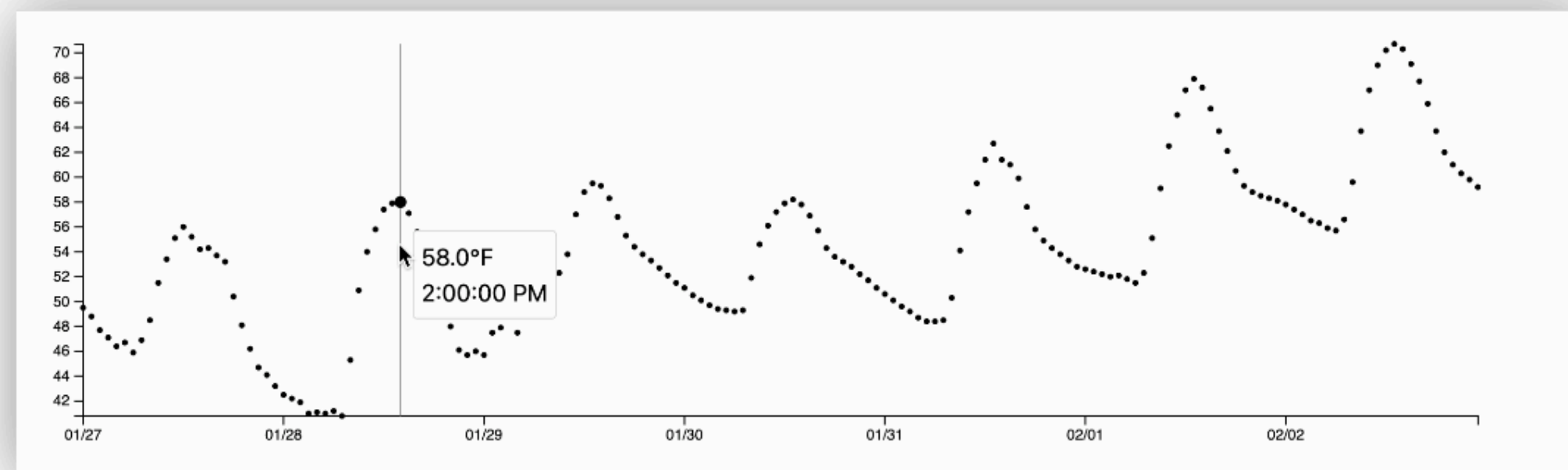
D3

Step 5: Improving our tooltip

Before:

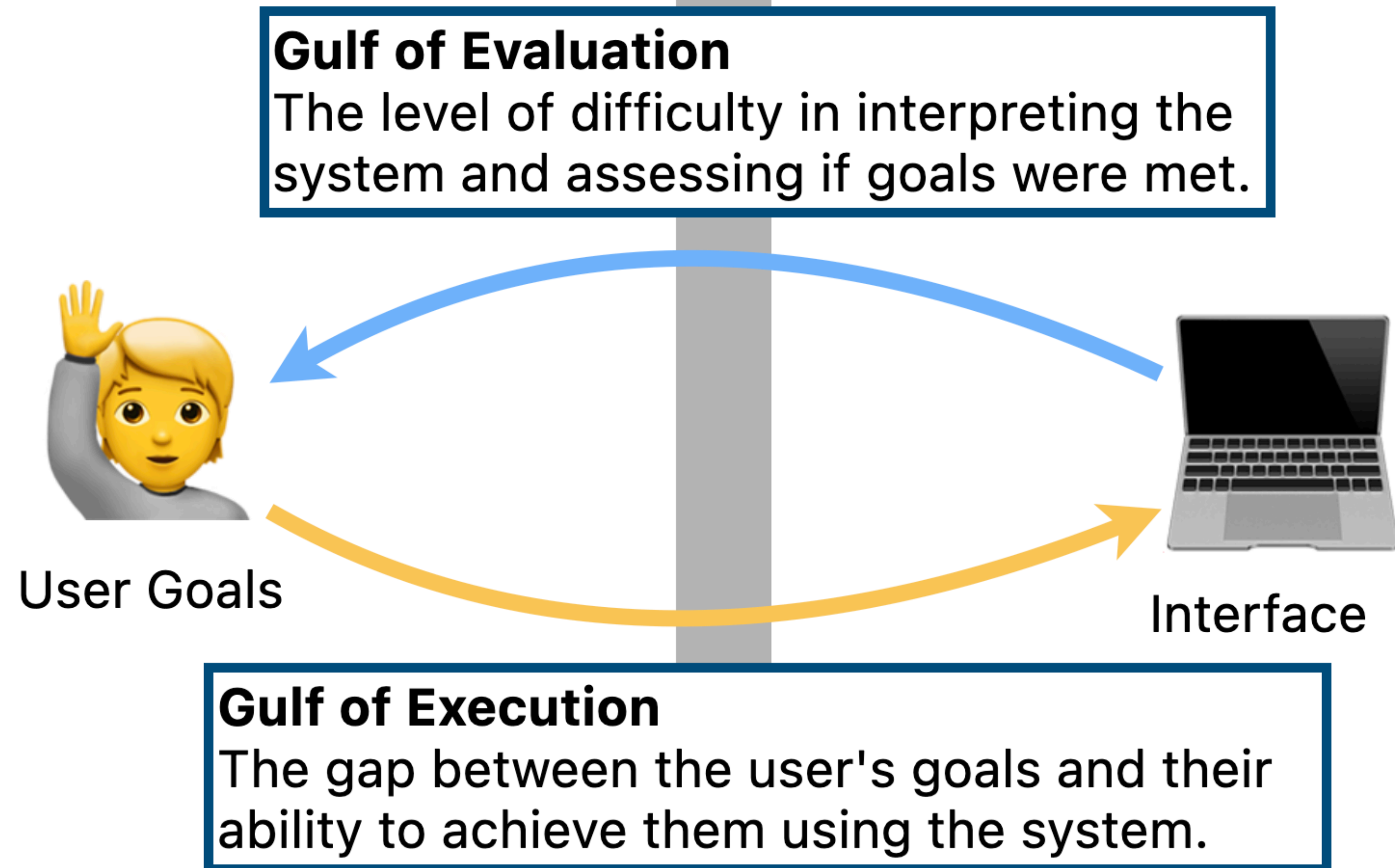


After:



Demo: [d3-lecture/weather05](#)

Interaction



Maps

Choropleth

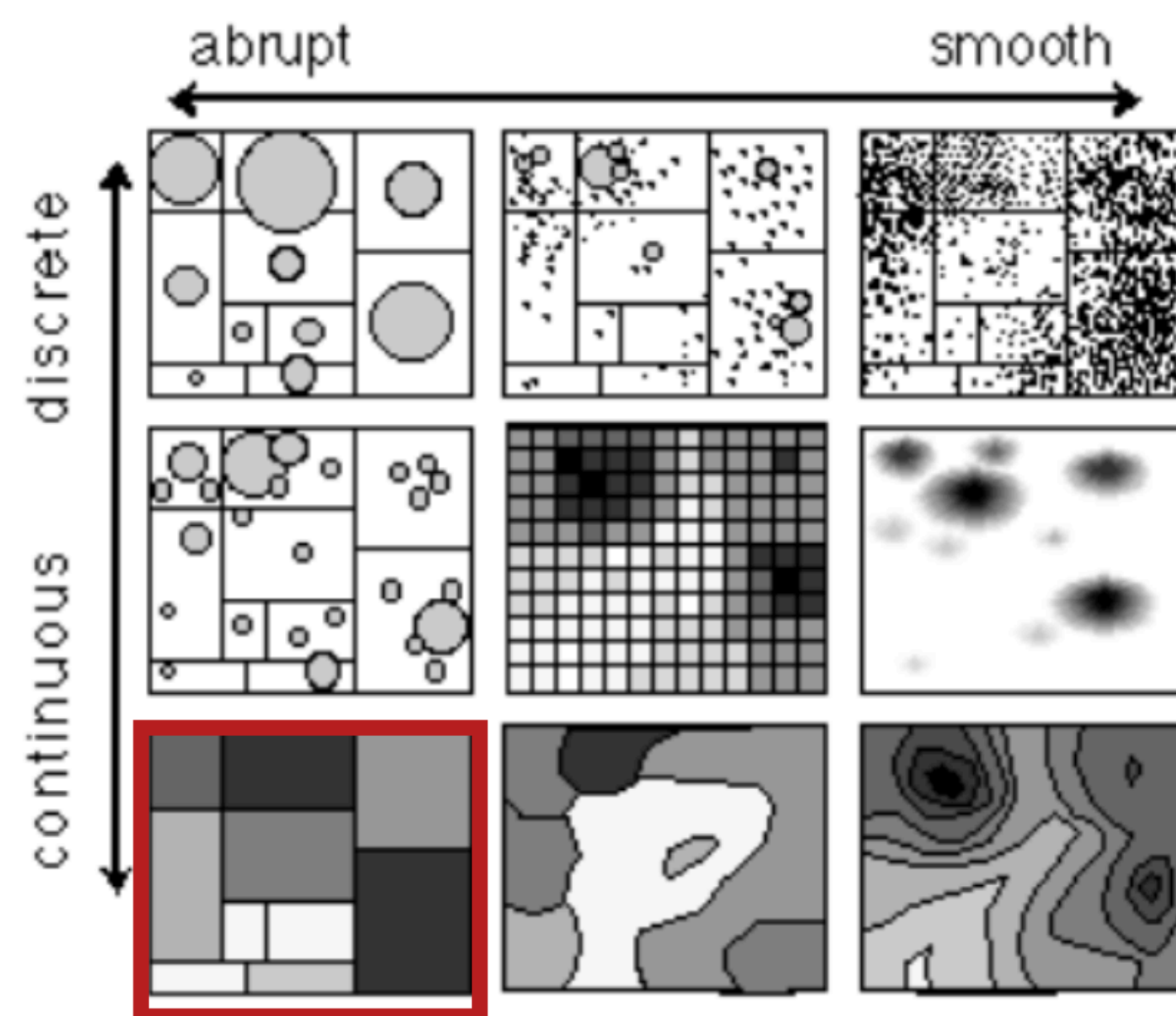
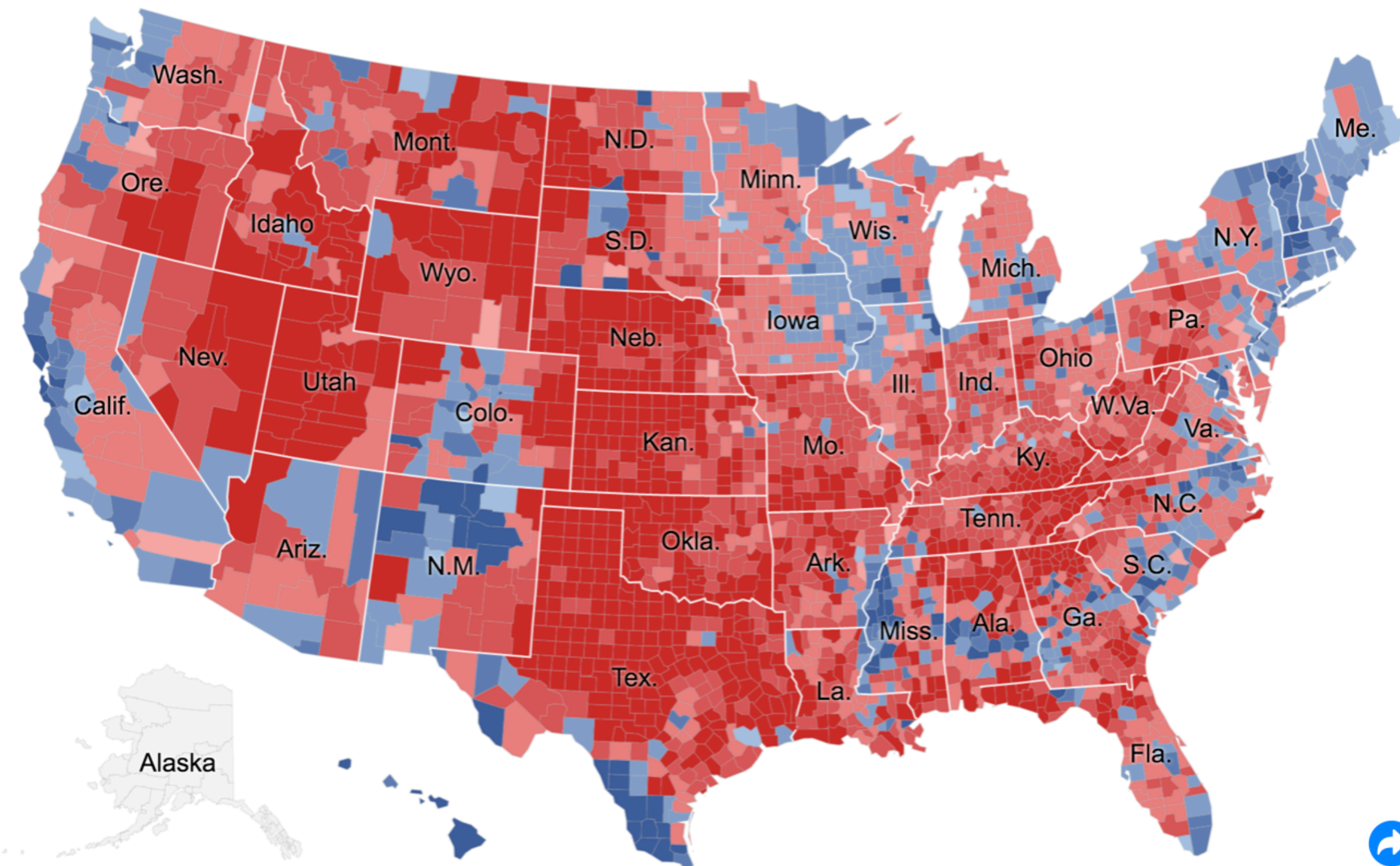


Fig. 9. Possible 2D translations of the 3D data models shown in figure 8.



<https://www.nytimes.com/interactive/2016/11/01/upshot/many-ways-to-map-election-results.html>

Narrative

Interactive Slideshow



R2
D3

A visual introduction to machine learning

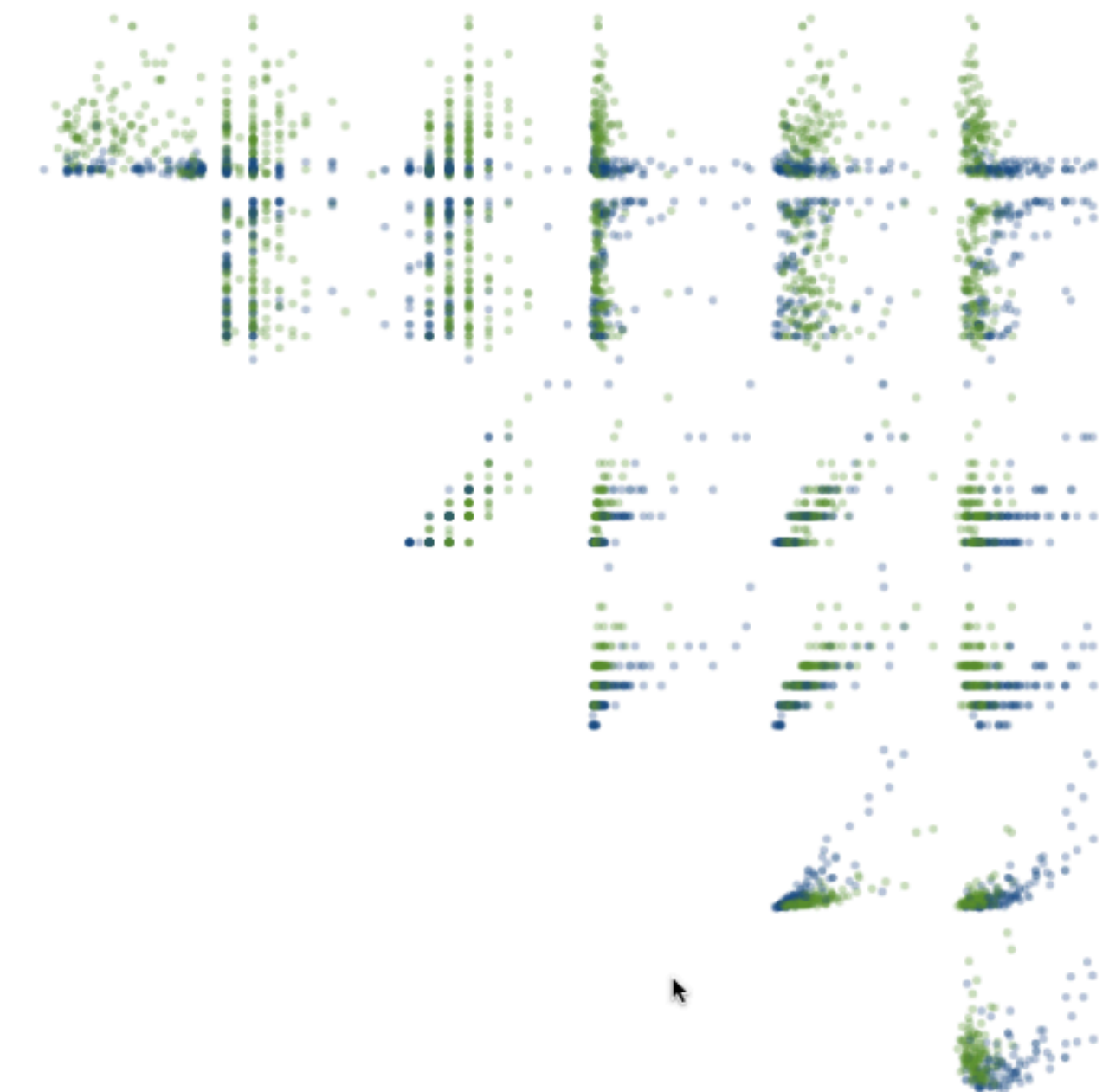
English

In machine learning, computers apply **statistical learning** techniques to automatically identify patterns in data. These techniques can be used to make highly accurate predictions.

Keep scrolling. Using a data set about homes, we will create a machine learning model to distinguish homes in New York from homes in San Francisco.

“Scrolly”-telling

SCROLL

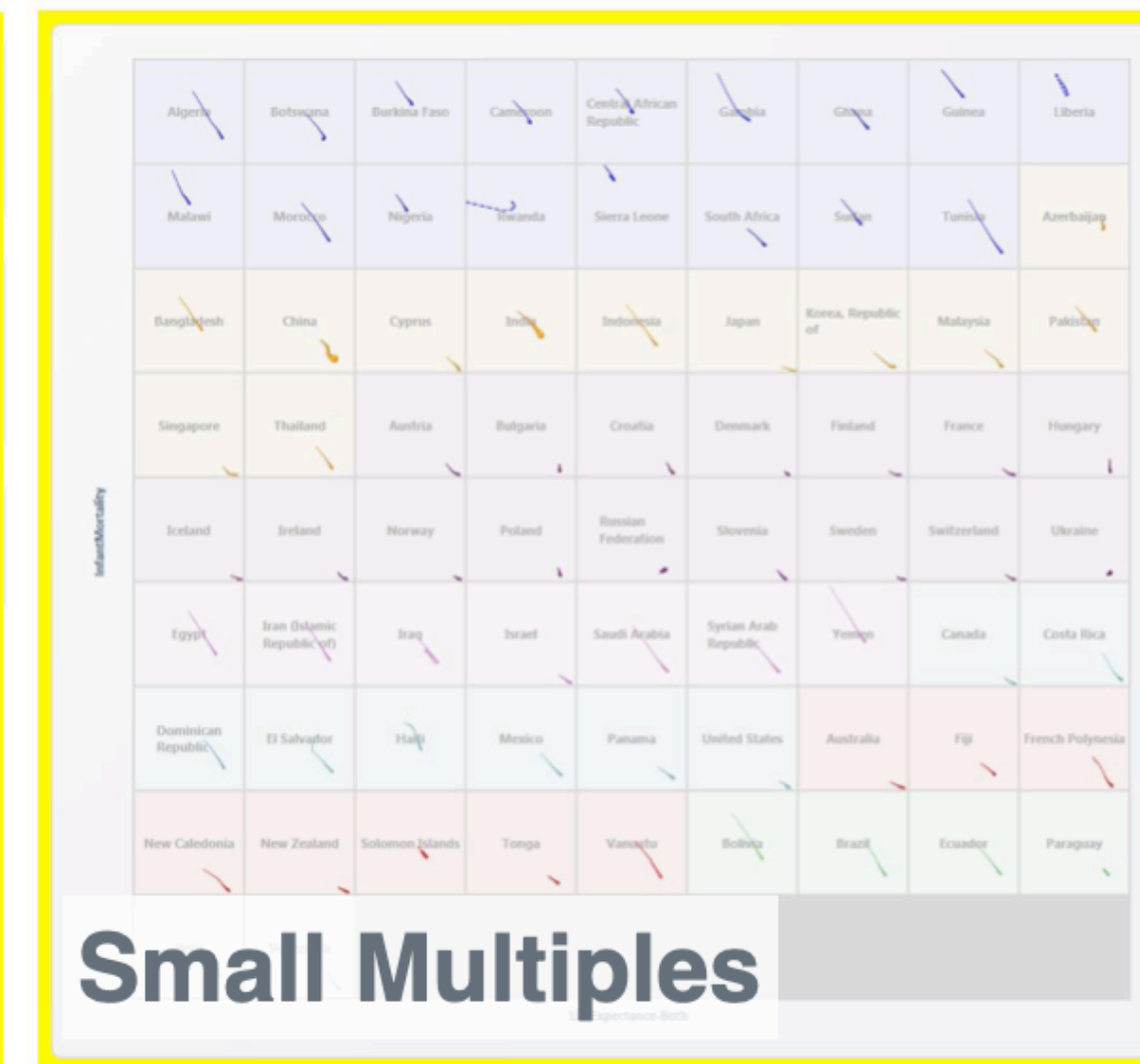
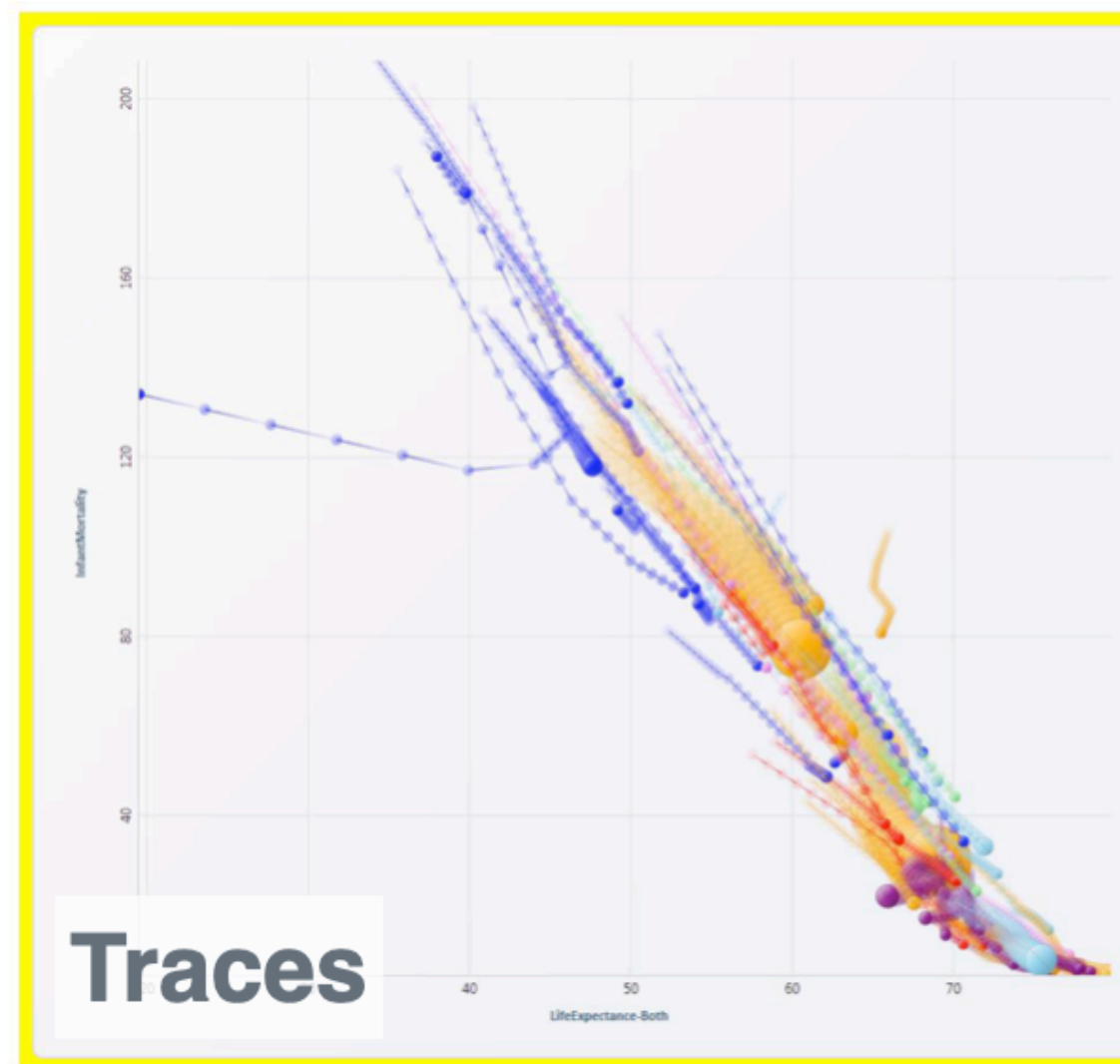
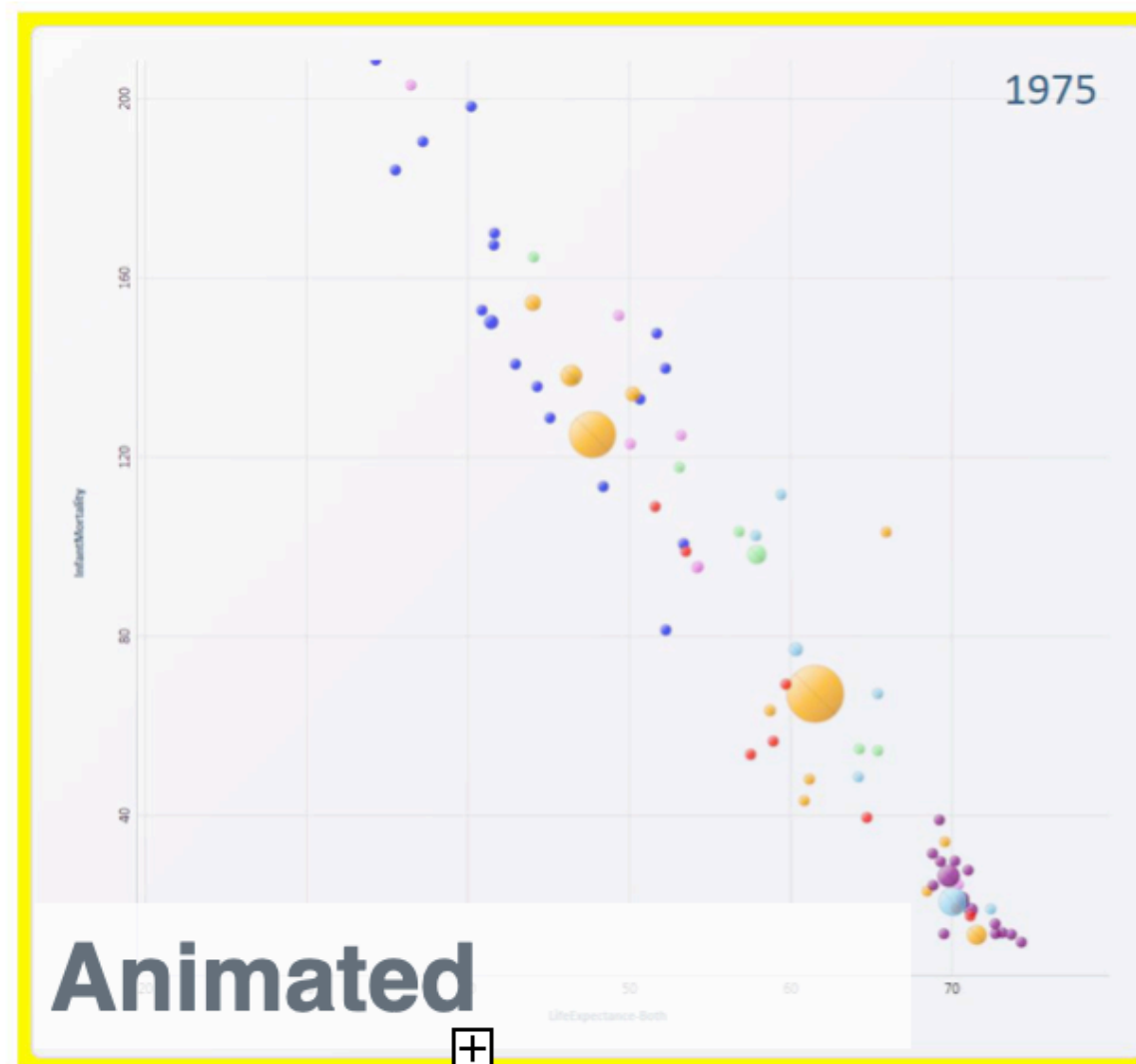


<http://www.r2d3.us/visual-intro-to-machine-learning-part-1/>

Animation

Study Conclusions

Analysis Task and Presentation Task.
Presentation condition included narration.
Subjects asked comprehension questions.

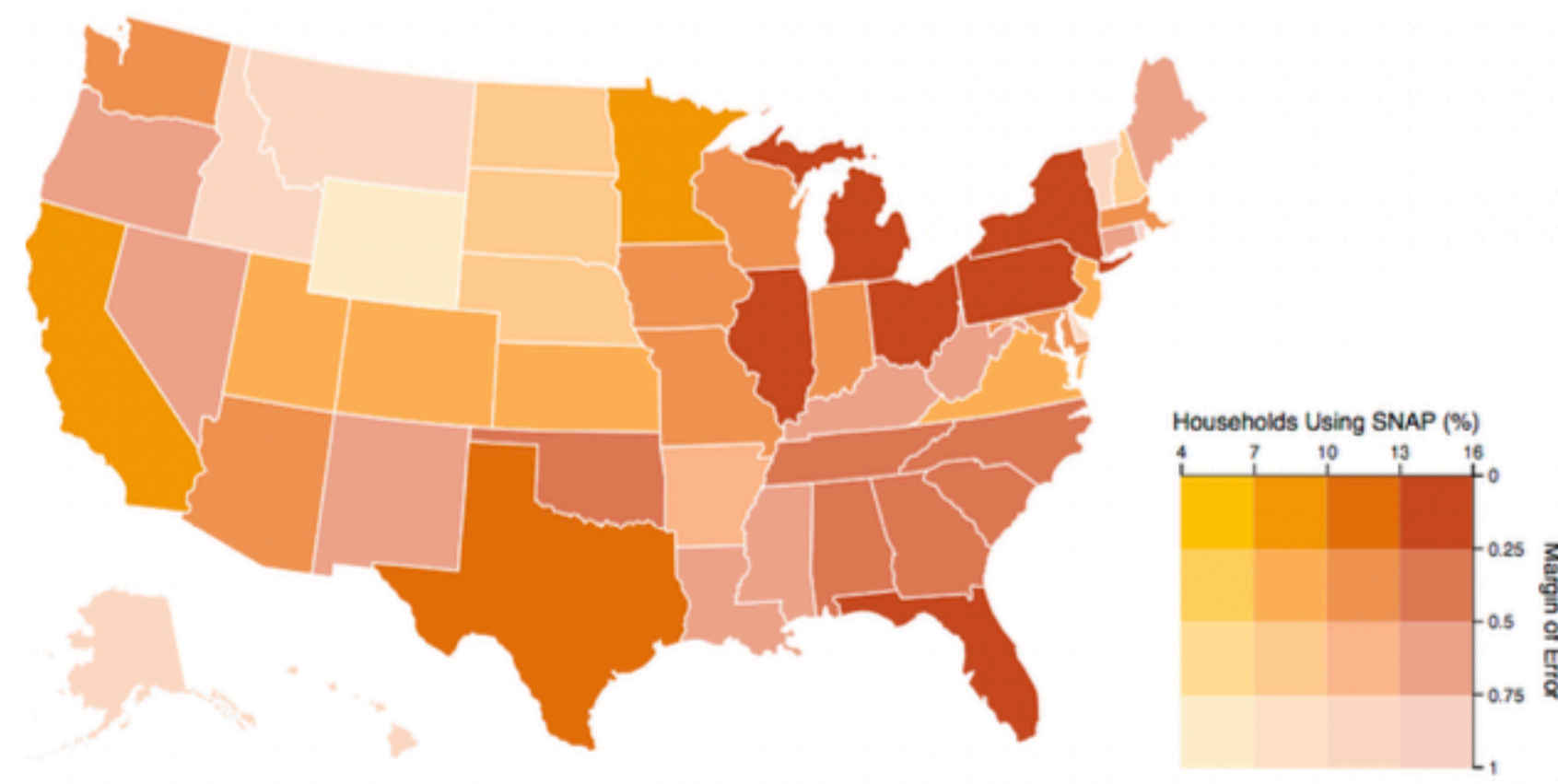


Which condition would participants:
be more **accurate**, be **faster**, and **prefer**?

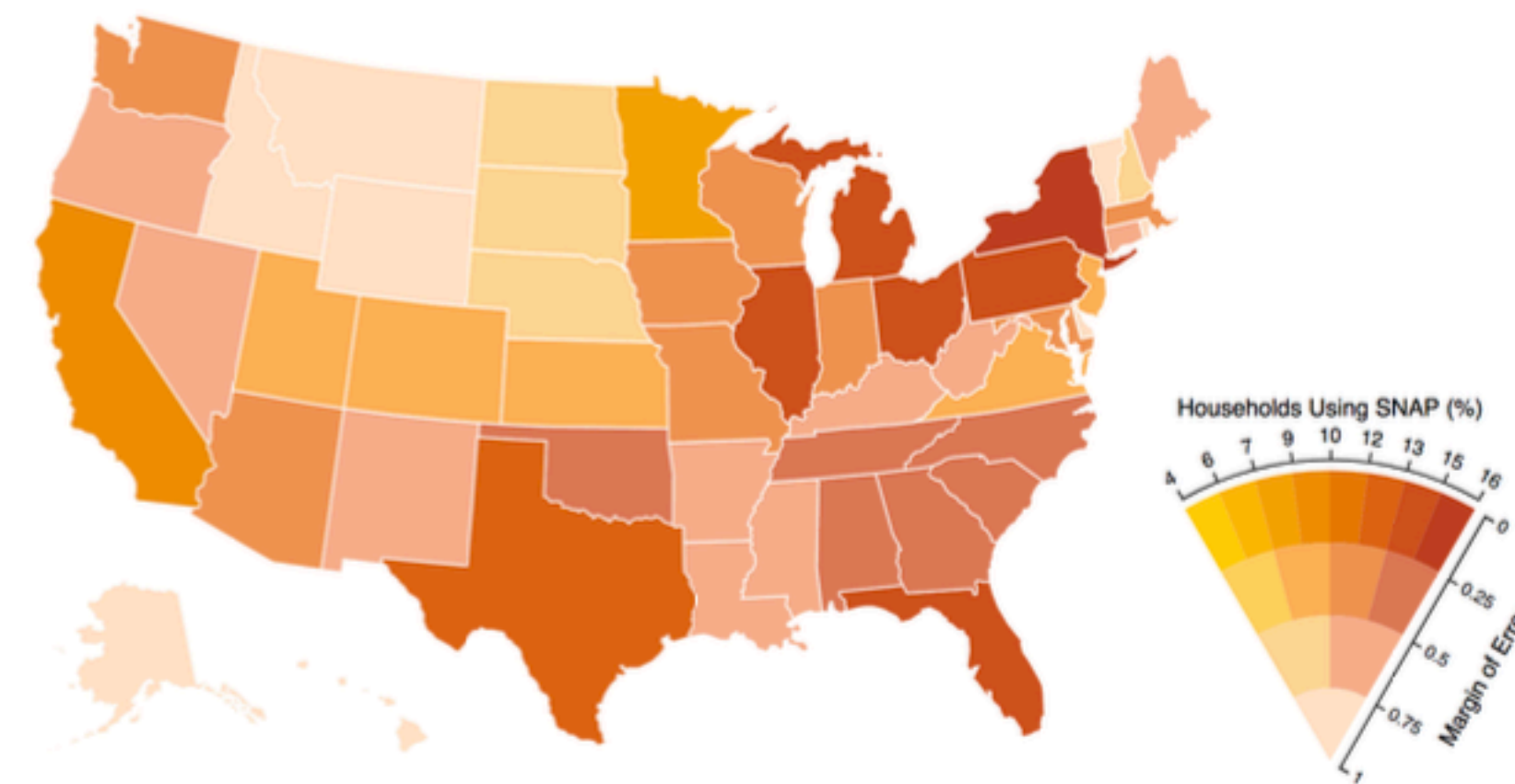
tryclassbuzz.com
Code: **anim**

Uncertainty

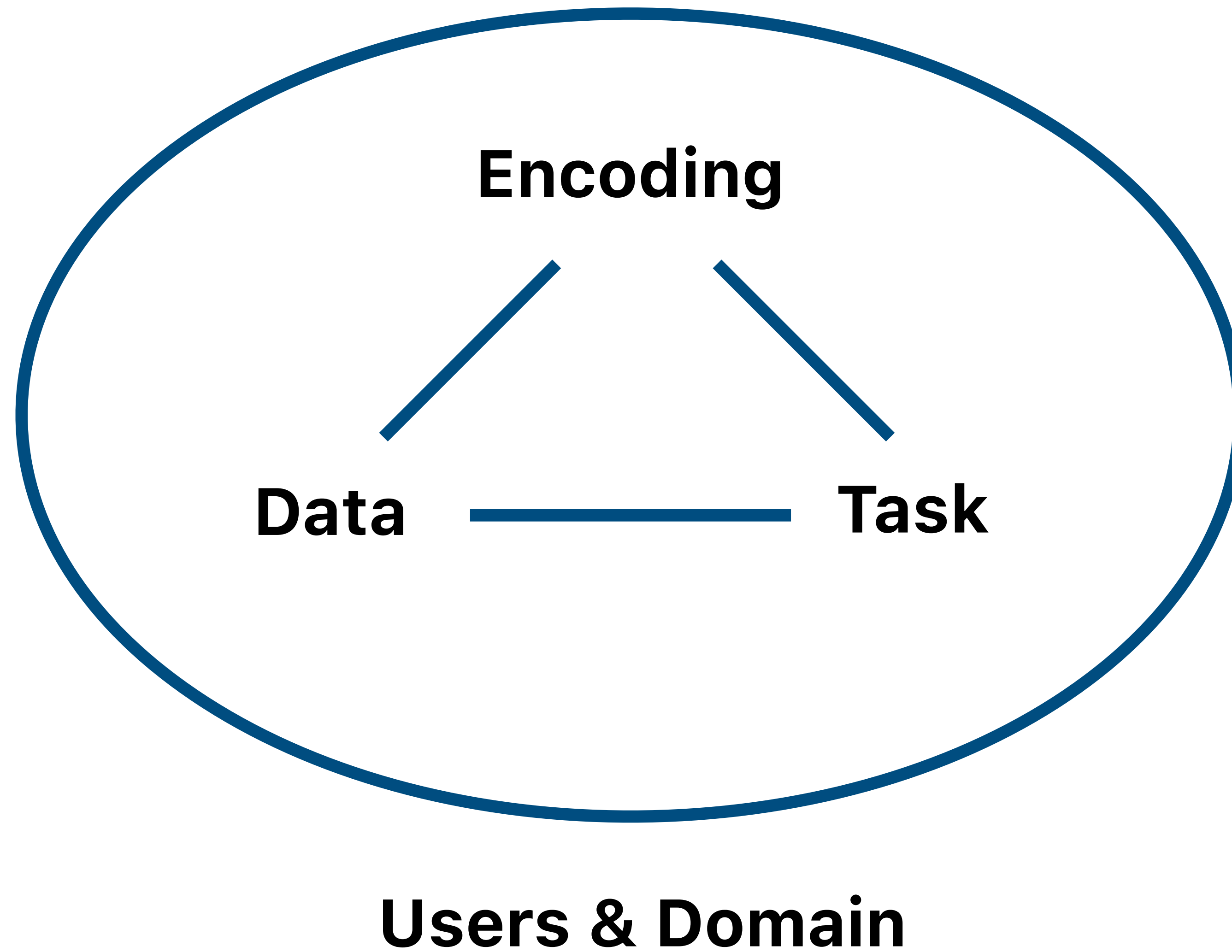
For uncertainty, use **visual variables** instead of visualizing point estimates



Bivariate Map (Data + Uncertainty)



Value-Suppressing Uncertainty Map



Thank You!

TAs: Giorgia, Heng

Tutors: Jesse, Lauren

Apply to join our staff in the future!

Peer Feedback

Peer Review Round 1

Focus: **Storytelling**. Time limit: 10 mins

1. Find another group (that hasn't seen your project yet)
2. Exchange projects but DON'T explain anything
3. Share: What was your takeaway from the visualization? What might make the story more memorable?

What ideas did you find valuable from your peers?

tryclassbuzz.com
Code: **peer1**

Peer Review Round 2

Focus: **Interaction**. Time limit: 10 mins

1. Find another group (that hasn't seen your project yet)
2. Exchange projects but DON'T explain anything.
3. Share: What interactive elements did you find useful? How might the interactions be improved?

What ideas did you find valuable from your peers?

tryclassbuzz.com
Code: **peer2**

Peer Review Round 3

Focus: **Presentation**. Time limit: 10 mins

1. Find another group (that hasn't seen your project yet)
2. Exchange projects, DO explain your project for 2 minutes.
3. Share: What parts of the presentation did you find most memorable? How could the presenters improve their presentation?

What ideas did you find valuable from your peers?

tryclassbuzz.com
Code: **peer3**