

Gulf of Alaska

Common names

No temperatures

Aleutian Islands

Common names

No temperatures

Scatter 1

Scatter 2

Scatter 1

Scatter 2

Pacific cod

Pacific cod

Pacific cod

2013

2000

None

None

None

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kg / hectare

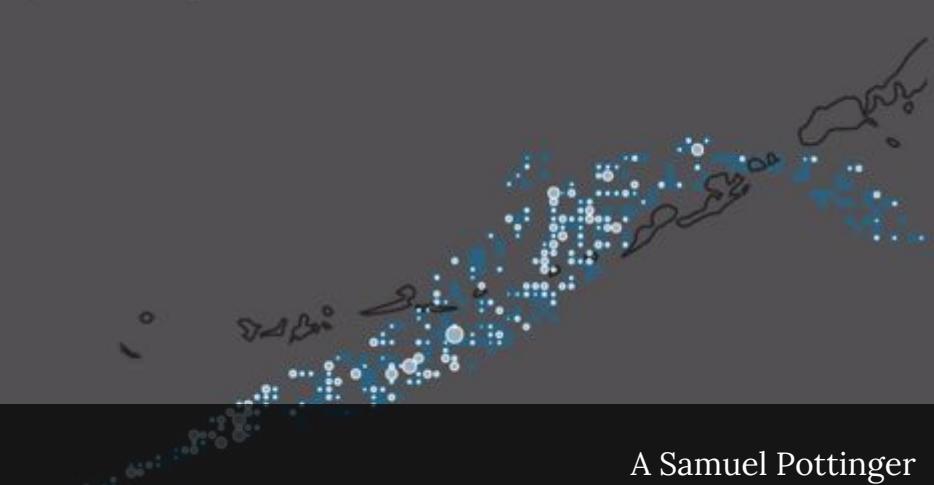
kg / hectare

19.77 kg/hectare overall CPUE

22.18 kg/hectare overall CPUE

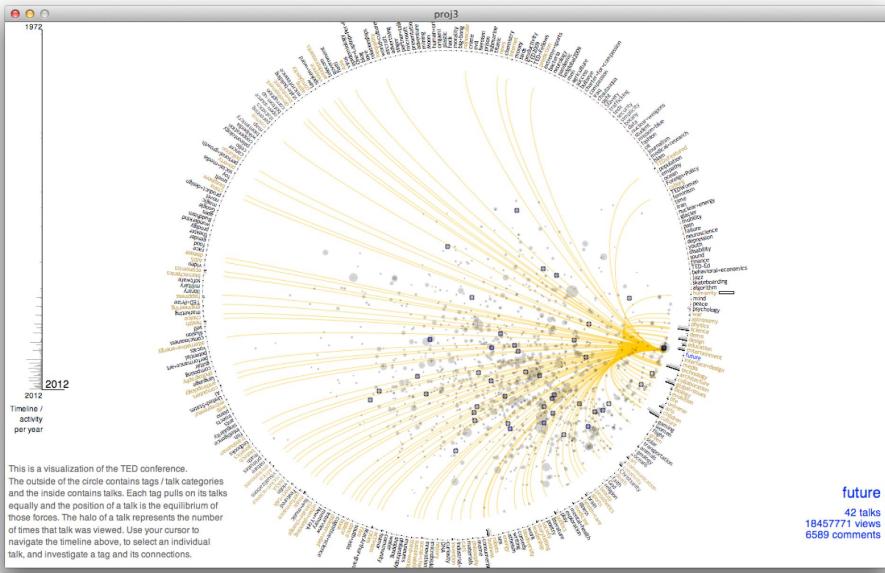
Dynamic scaling enabled

Dynamic scaling enabled



Lecture 0: Hello!

A Samuel Pottinger  
Interactive Data Science  
and Visualization



# Today

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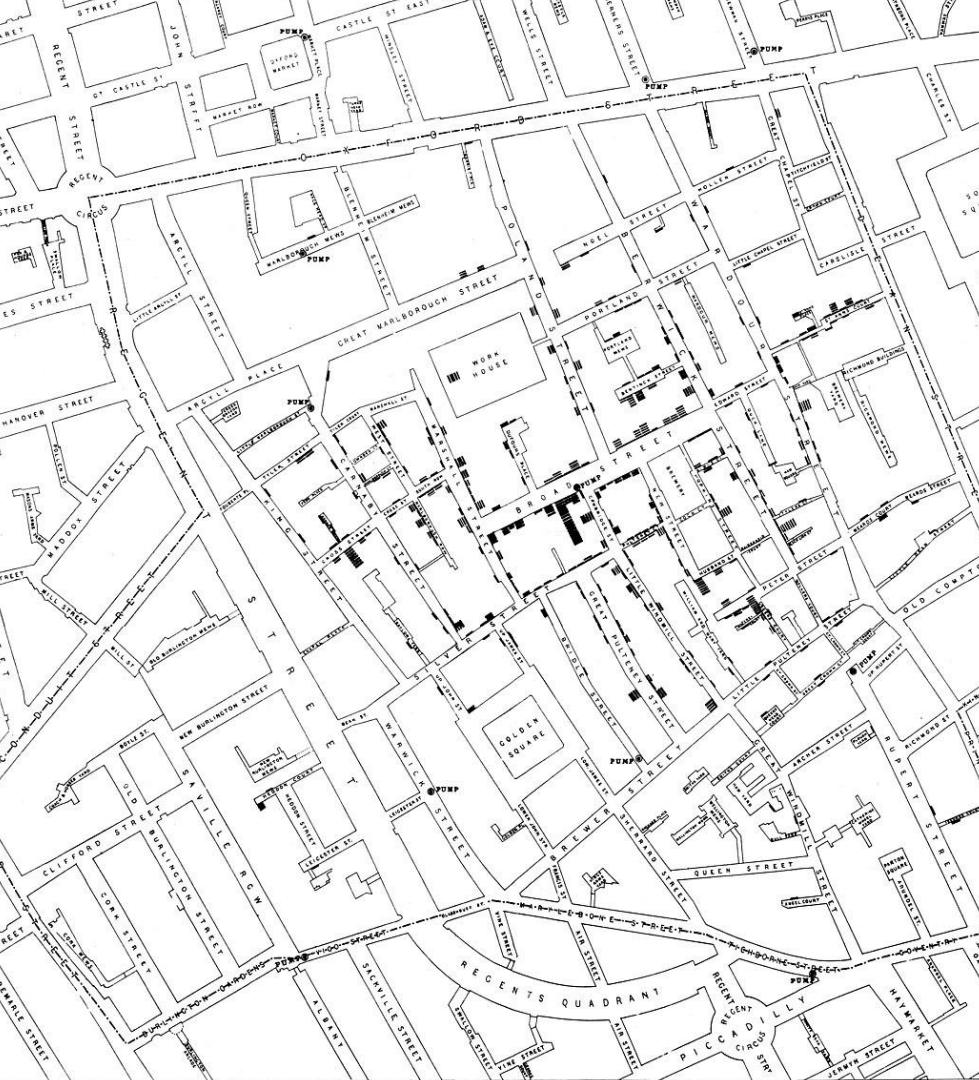
Purpose

Background

Structure

Resources

Get Started

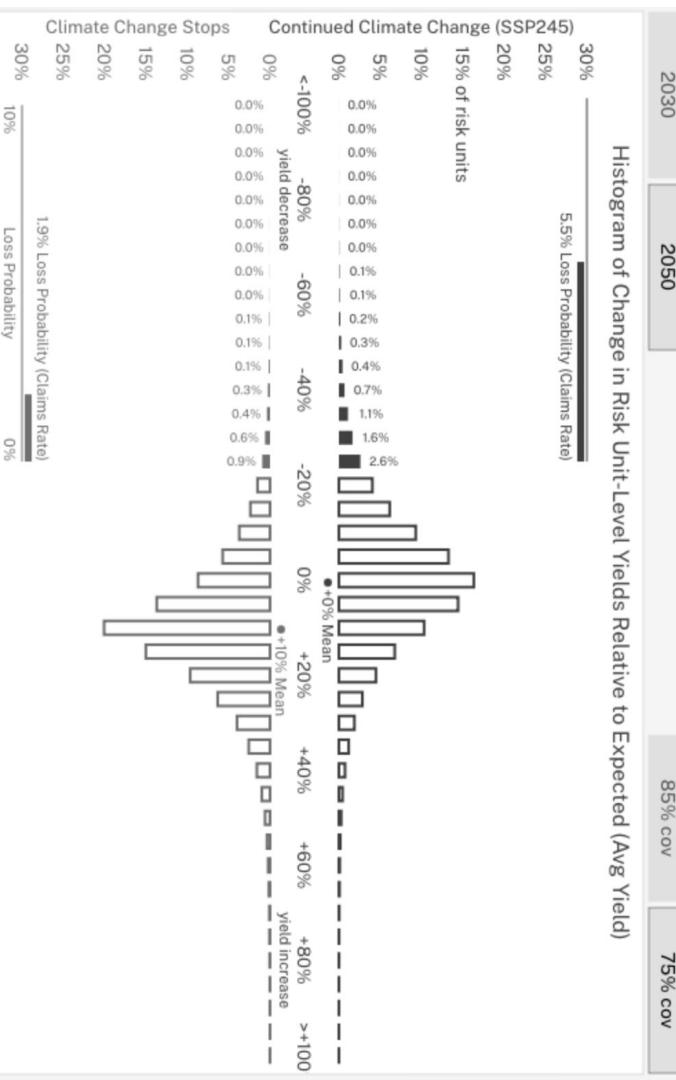


## Purpose

World-class effective static and interactive user experiences with data.

Design instruction and human lenses.

Hands-on exploration of skills.

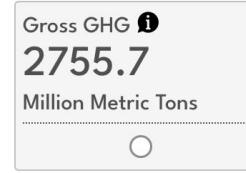


## Background

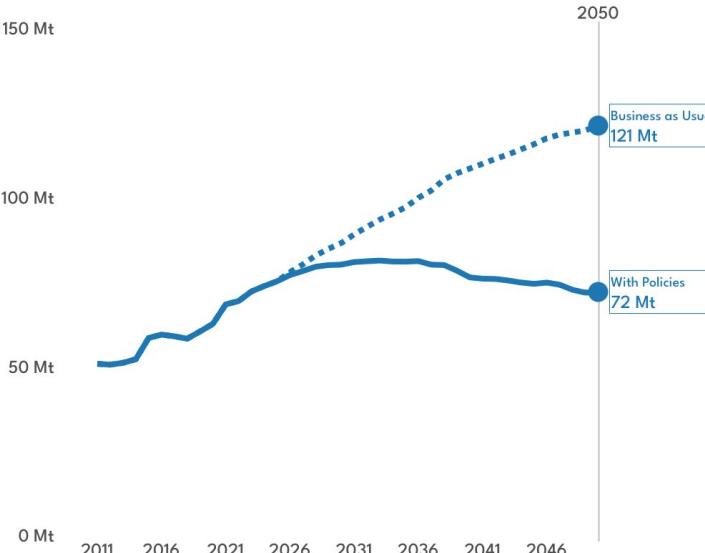
Originally taught as Stat 198 at UC Berkeley in 2025.

## Some updates to materials for online

Broad audience but some prerequisites expected.



### Global Annual Rate of Mismanaged Waste as Million Metric Tons 🌐



[Explore detailed projections](#)

With Policies

Business as Usual

# Structure

First lecture provides details.

Traditional perception science.

Bridge into other design disciplines.

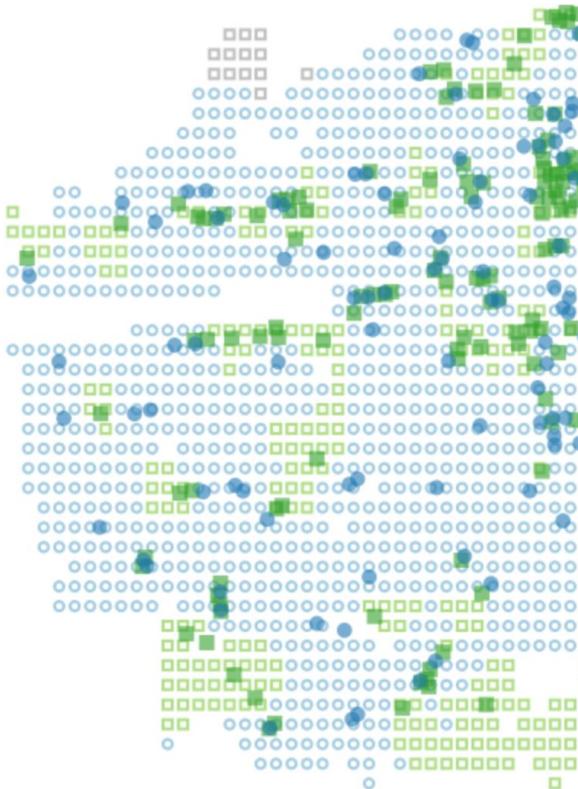
Arts, semiotics, sociology, anthropology, media studies perspective.

Interaction perspective on creating tools which foster user-generated meaning.



## Progress:

Keep going! You have spent 0% of your budget (0% on transit improvement and subsidy). Goal: 80% choose [design and try again](#).



## Resources

Outlines, captioned videos, slides, rubrics, guides, manual, syllabus.

Cover to cover, borrow elements for your own instruction, deep dive on a specific aspect, or test the waters to determine if you want to take a full course.

I am thankful you,  
your perspective,  
and your ideas are  
here.

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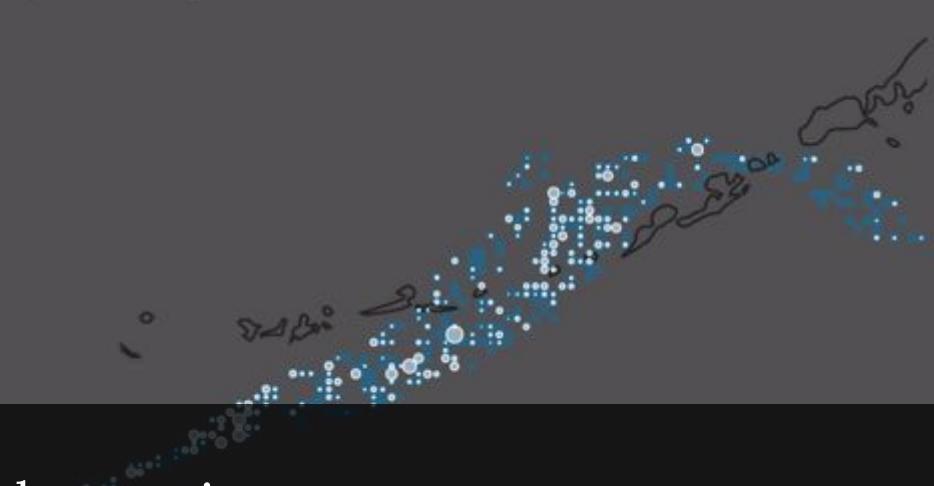
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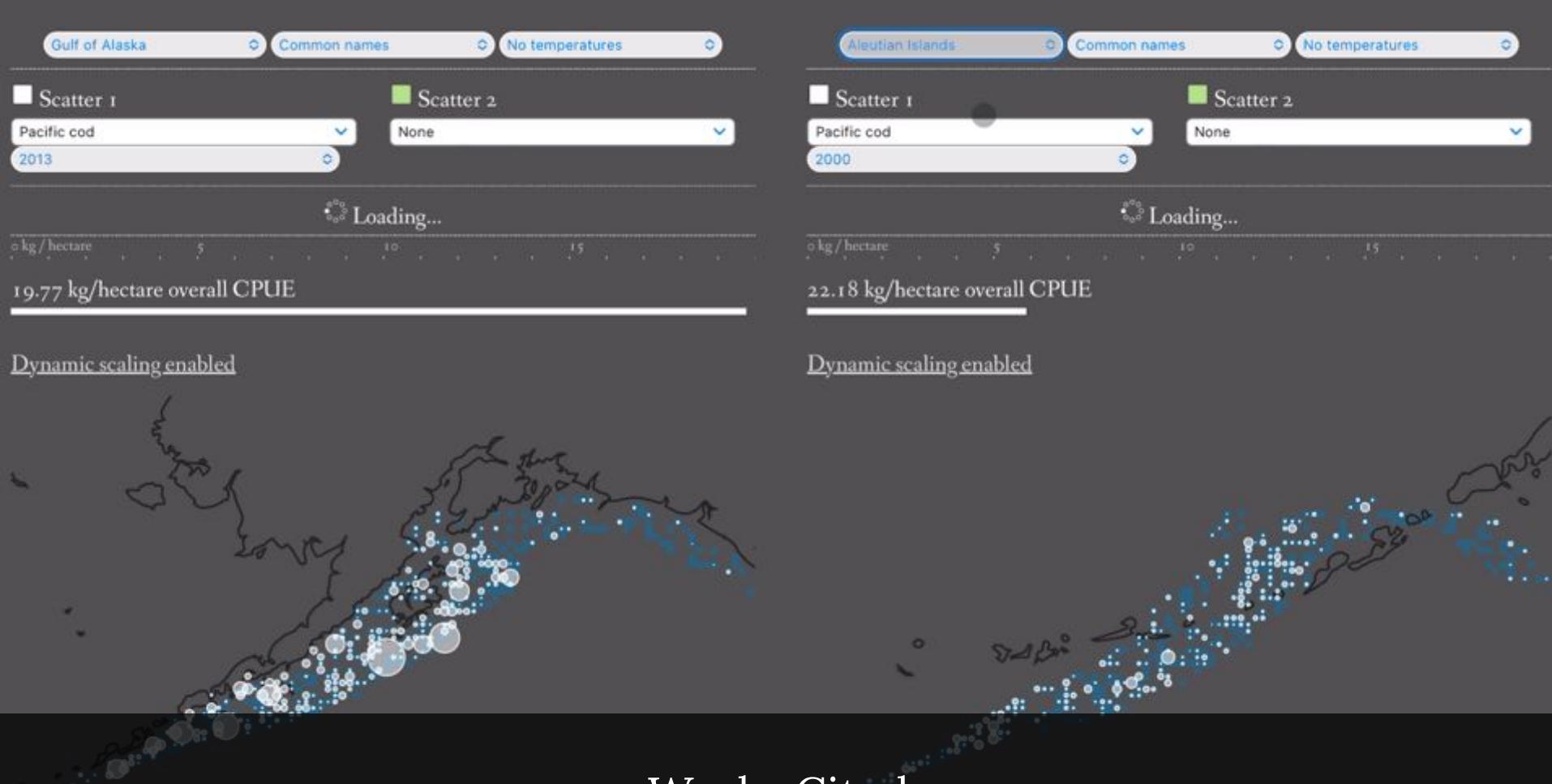
22.18 kg/hectare overall CPUE

Dynamic scaling enabled

Dynamic scaling enabled



See you in lecture!



[1] A. Pottinger, "TED Visualization," Gleap.org. Available: [https://gleap.org/content/ted\\_visualization](https://gleap.org/content/ted_visualization)

[2] Wikipedia Contributors, "Snow-cholera-map-1.jpg." Wikimedia Foundation, Inc., 2020. Available: <https://en.wikipedia.org/wiki/File:Snow-cholera-map-1.jpg>

[3] A. Pottinger, L. Connor, B. Guzder-Williams, M. Weltman-Fahs, N. Gondek, and T. Bowles, "Climate-driven doubling of U.S. maize loss probability: Interactive simulation with neural network Monte Carlo," *JDSSV*, 2025. doi: 10.52933/jdssv.v5i3.134

[4] A. Pottinger, R. Geyer, N. Biyani, C. Martinez, N. Nathan, M. Morse, M. de Bruyn, C. Boettiger, E. Baker, K. Koy, and D. McCauley, "Global Plastics AI Policy Tool," University of California, 2024. Available: <https://global-plastics-tool.org/>

[5] A. Pottinger, "Food Sim SF," Gleap, 2024. Available: <https://foodsimsf.com/>

[6] A. S. Pottinger and G. Zarpellon, "Pyafscgap.org: Open source multi-modal Python-based tools for NOAA AFSC RACE GAP," *JOSS*, vol. 8, no. 86, p. 5593, Jun. 2023, doi: 10.21105/joss.05593.



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