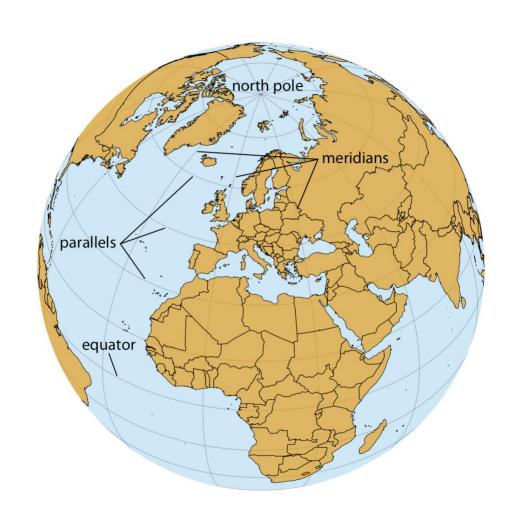
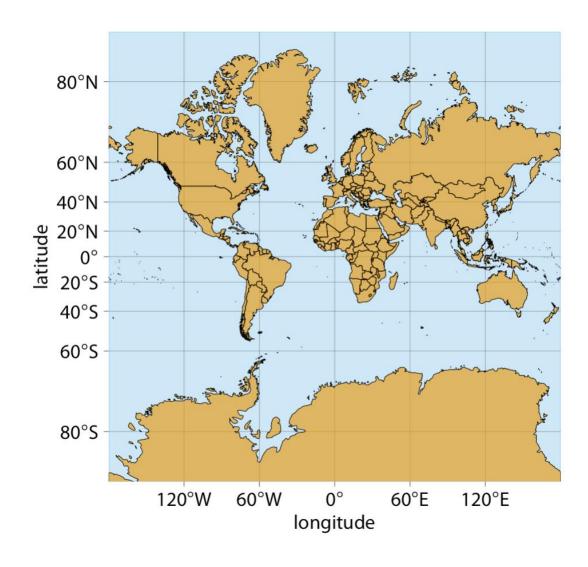
Data Visualization

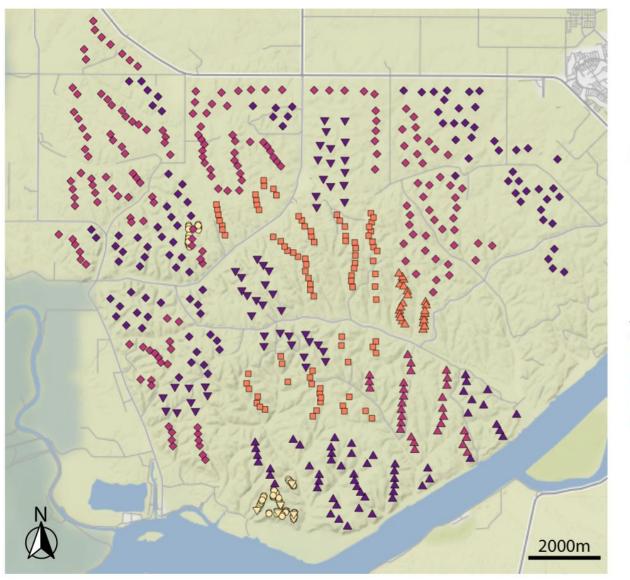
Unit IV

Visualizing Geospatial Data





Data labelling with Geo-Spatial



project name

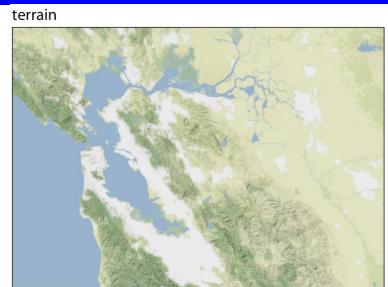
- EDF Renewables
- High Winds
- Shiloh
- Solano

year built

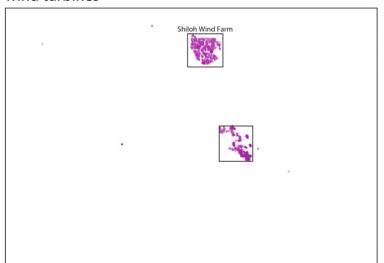
- before 2000
- 2000 to 2004
- 2005 to 2009
- **2010 to 2014**

Layers





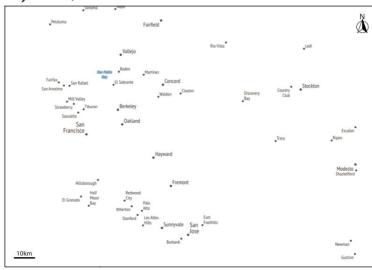




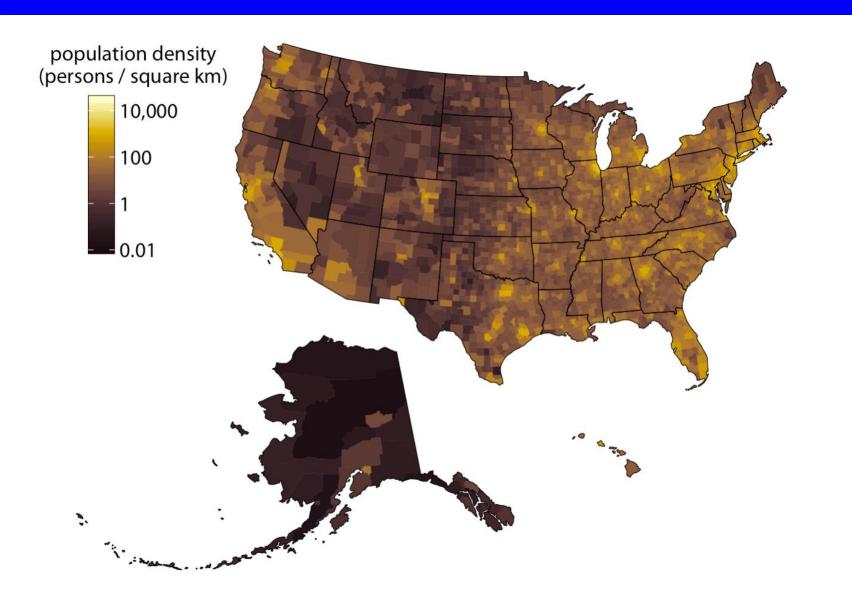




city labels, scale bar



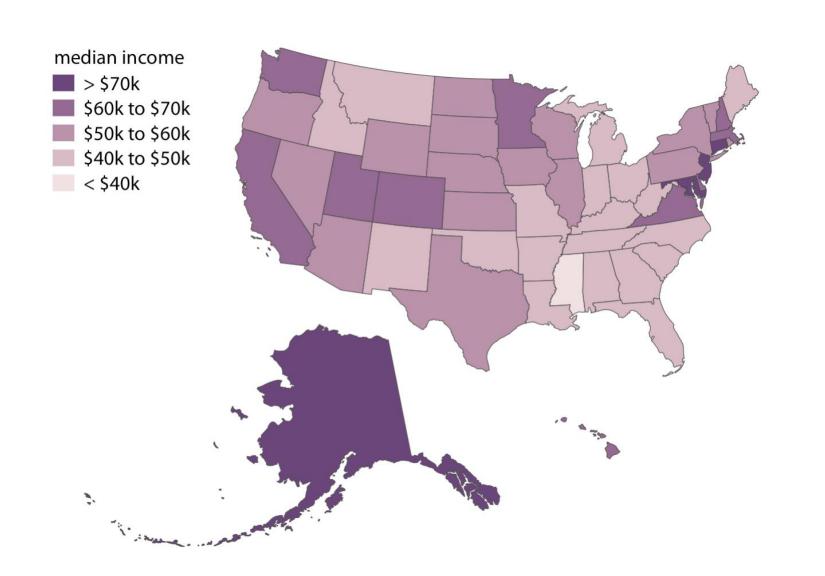
Choropleth Mapping



Showing quantitative data with specific colors.

Same as that of heat map

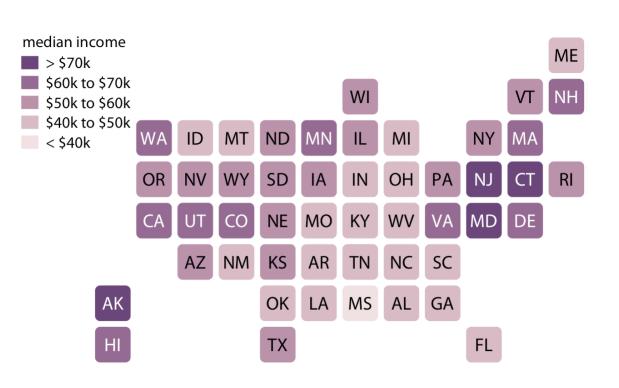
Choropleth Mapping

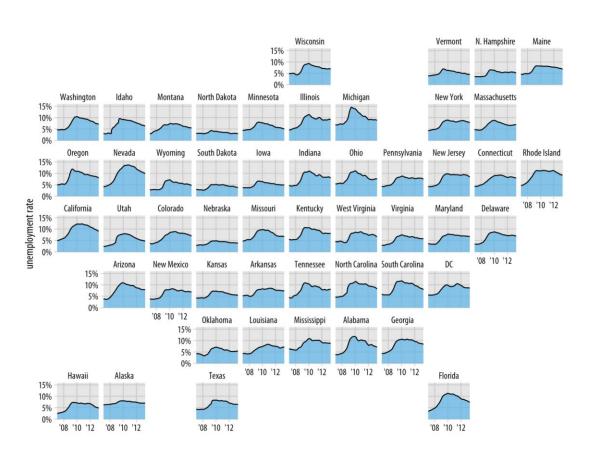


Showing quantitative data with specific colors.

Same as that of heat map

Cartograms

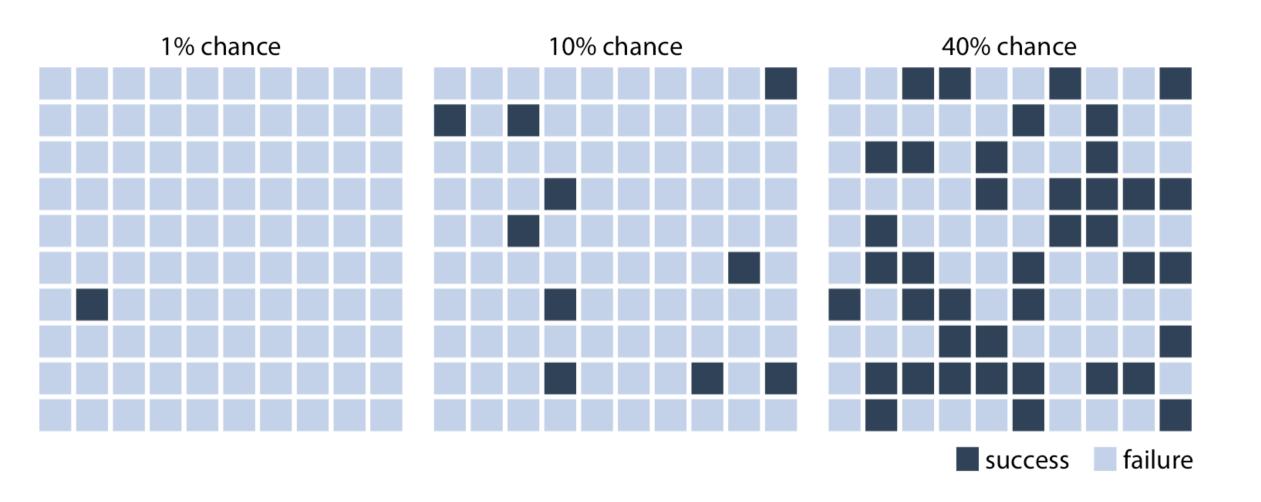




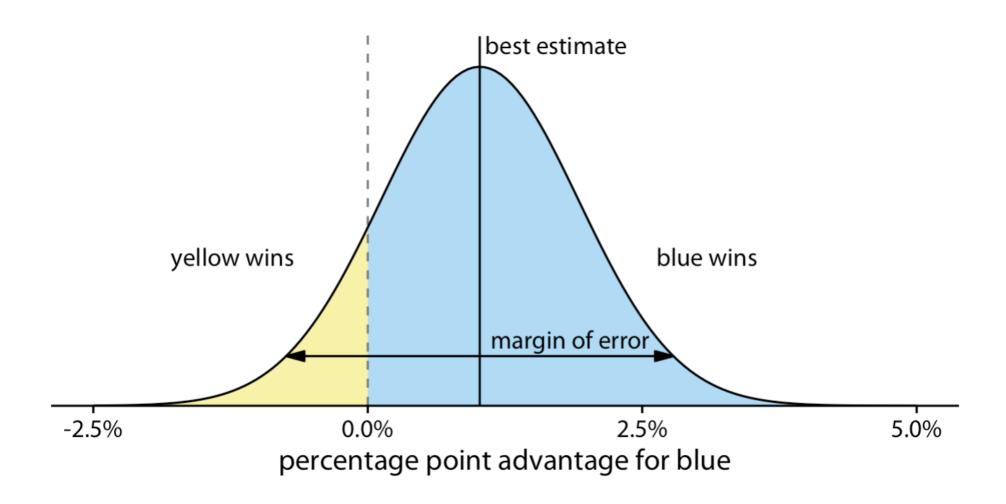
Visualizing Uncertainty

- Graphical representation of uncertainty or variability in data or predictions.
- It is a technique used to convey the level of confidence or range of possible outcomes associated with a particular data point or estimate.
- Different ways to represent Uncertainty
 - Error Bars:
 - Confidence Intervals:
 - Probability Density Plots:

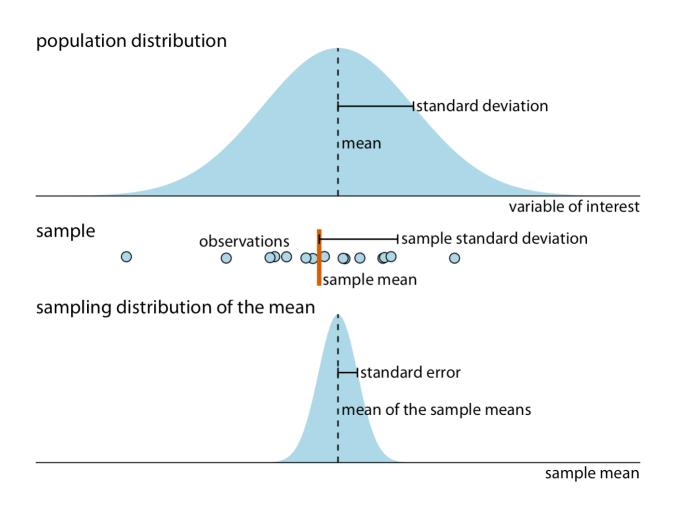
Basic's of Uncertainty with probability



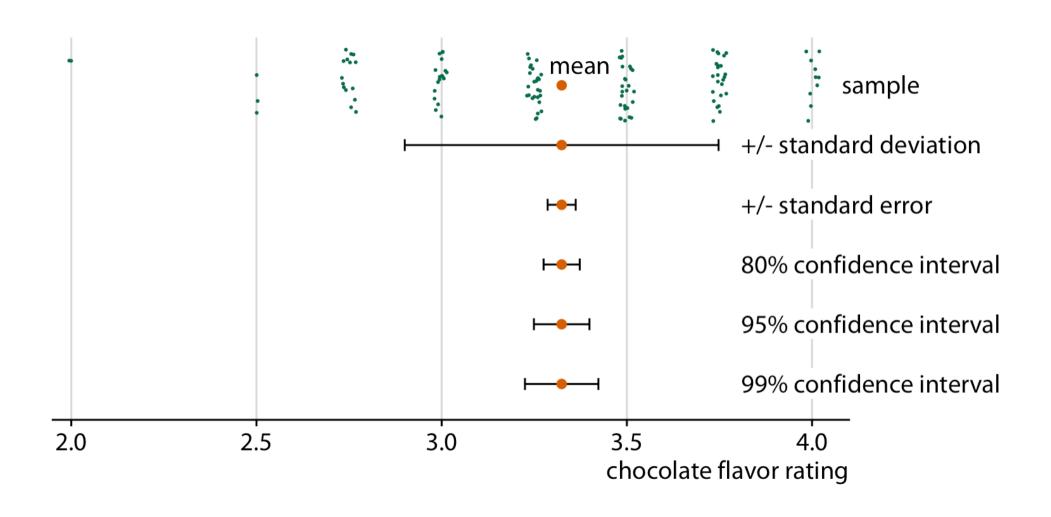
Confidence interval



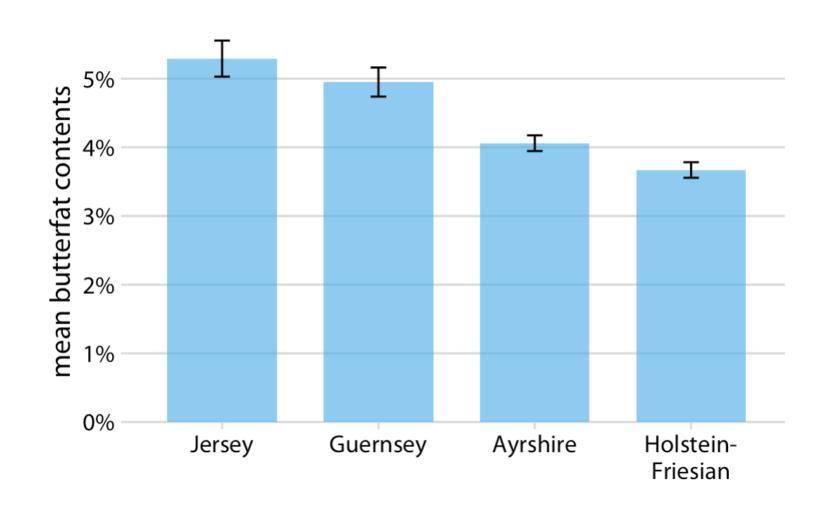
Visualizing the Uncertainty of Point Estimates



Visualizing the Uncertainty of Point Estimates

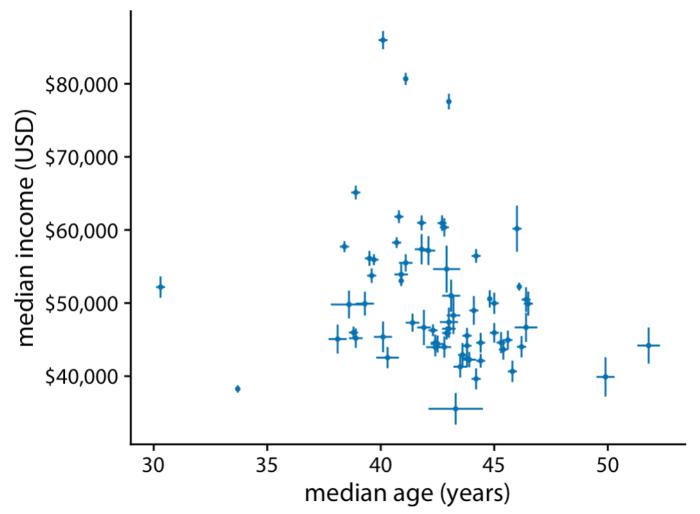


Error Bars



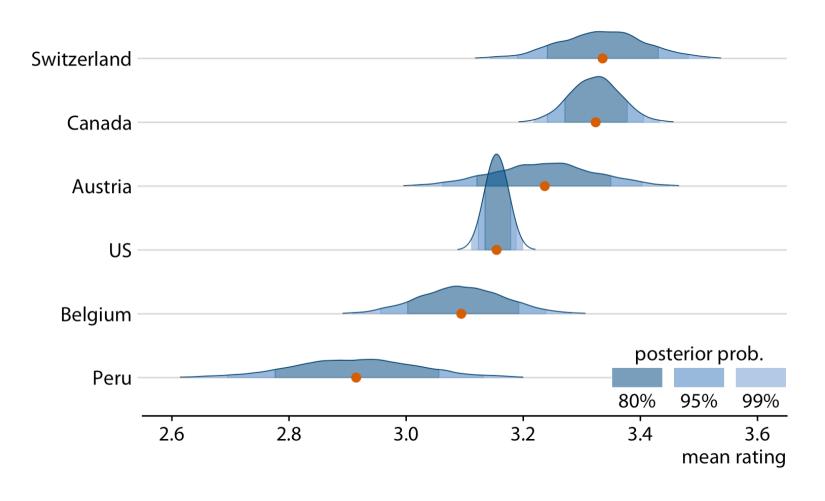
Mean butterfat contents in the milk of four cattle breeds.

Error Bars



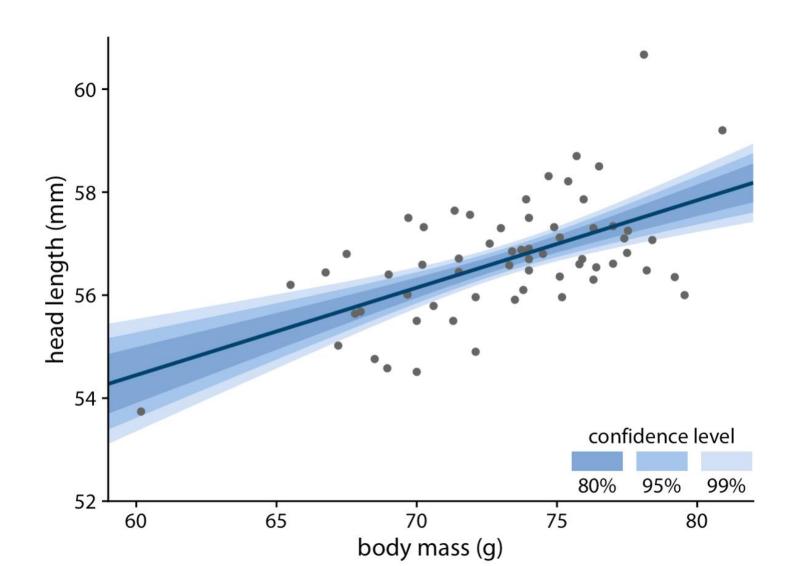
Median income versus median age for 67 counties in Pennsylvania

Probabilities/distributions



Bayesian posterior distributions of mean chocolate bar ratings, shown as a ridgeline plot.

Visualizing the Uncertainty of Curve Fits



Hypothetical Outcome Plots

