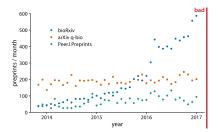
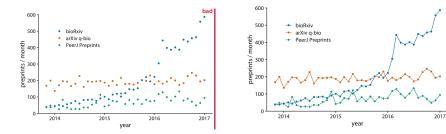
Stats 170A/B, Data Visualization, Part II

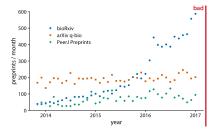
Chen Li¹ and Vladimir Minin²

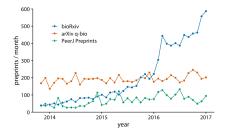
¹ Department of Computer Science ² Department of Statistics Bren School of Information and Computer Sciences University of California, Irvine

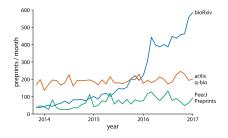
February 5, 2020

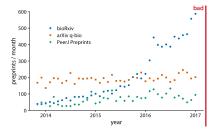


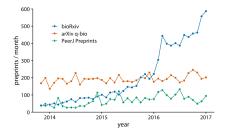


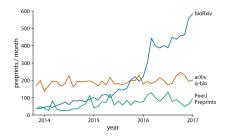






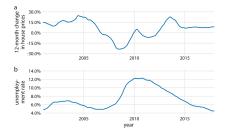


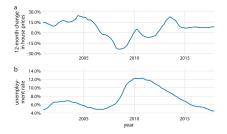


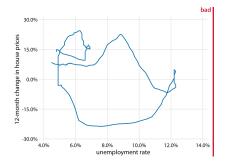


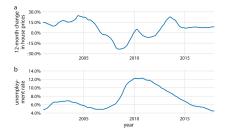
Consider replacing legends with direct labeling.

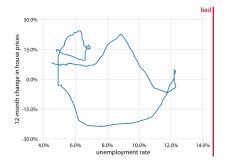
Make sure it is easy to compare objects of interest

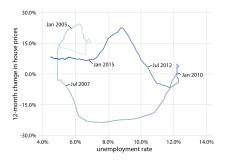


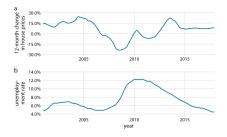


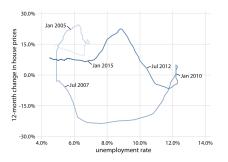


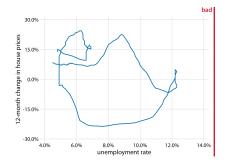






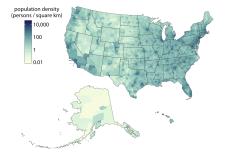


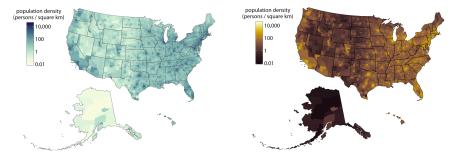


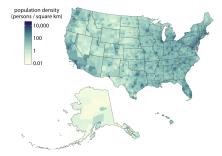


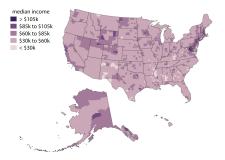
Connected scatter plots are great, but don't forget to indicate both the direction and the temporal scale of the data.

When you have more than two y-axes, use dimension reduction techniques to map \mathbb{R}^n onto \mathbb{R}^2 .

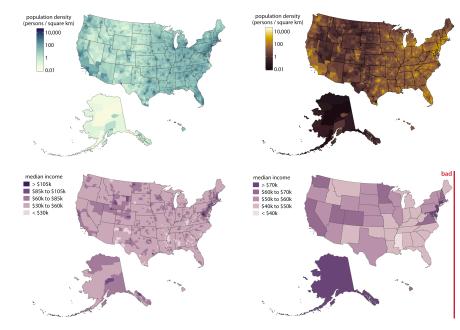




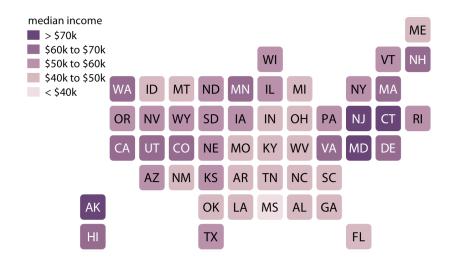




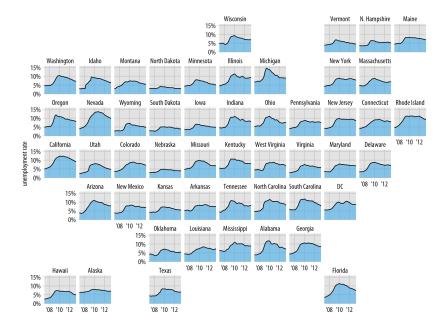




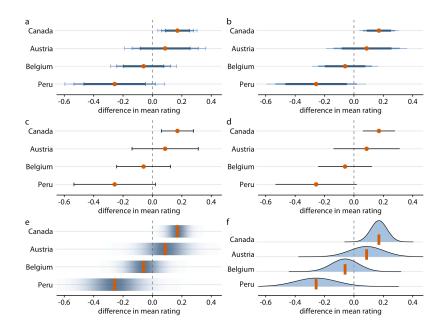
Visualizing geospatial data without maps



Visualizing geospatial data without maps

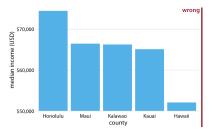


Visualizing the uncertainty of point estimates



The principle of proportional ink

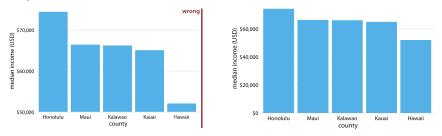
The principle of proportional ink: The sizes of shaded areas in a visualization need to be proportional to the data values they represent.



Bars on a linear scale must always start at 0.

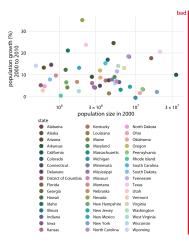
The principle of proportional ink

The principle of proportional ink: The sizes of shaded areas in a visualization need to be proportional to the data values they represent.

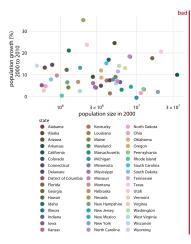


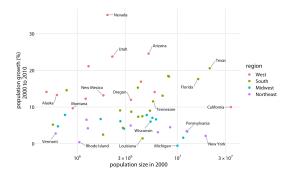
Bars on a linear scale must always start at 0.

Common pitfalls of color use



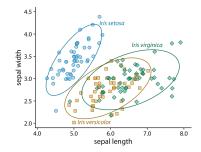
Common pitfalls of color use



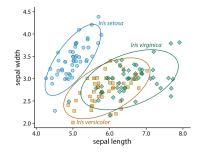










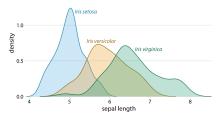


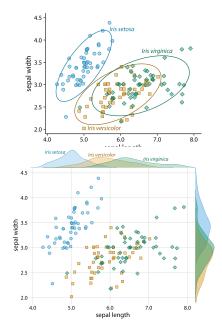




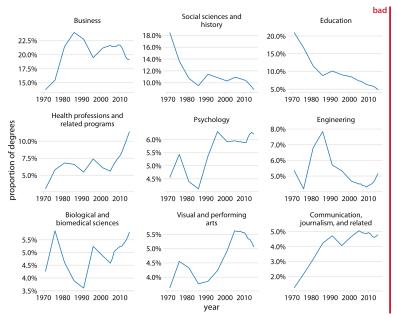




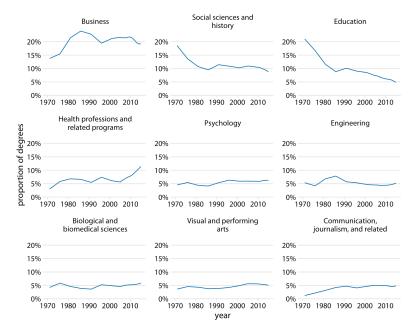




Multi-panel figures



Multi-panel figures

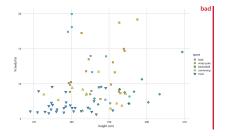


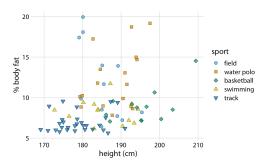
10

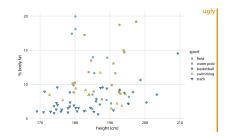
Titles and captions

- Always label your axes!
- Captions of figures and tables should be self-explanatory.

Your axis labels are too small







Don't go 3D

