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Critiquing Data Visualization
CS - 150 Mike Ryu
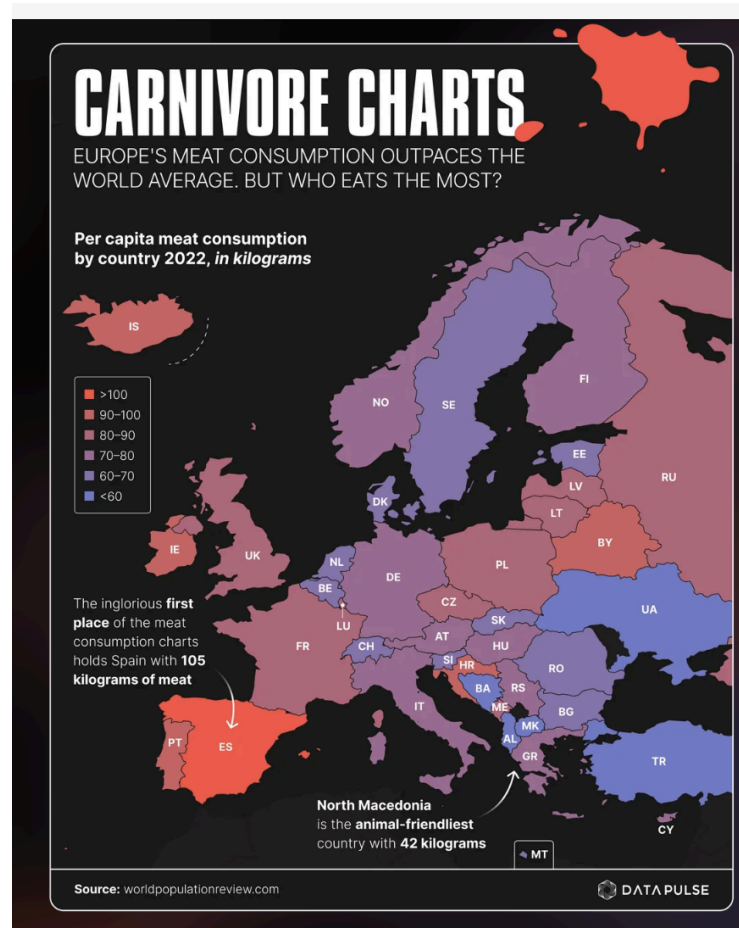
Critiquing Data Visualization in-Class Assignment

1. **Websites used:**
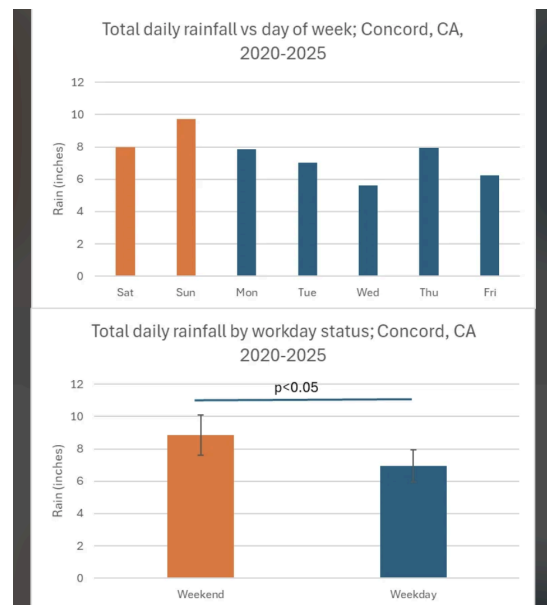   - https://www.reddit.com/r/dataisbeautiful/

2. **Visuals**:
   - **Great Graph:**

- **Bad Graph:**

Total daily rainfall vs day of week; Concord, CA, 2020-2025

Total daily rainfall by workday status; Concord, CA 2020-2025
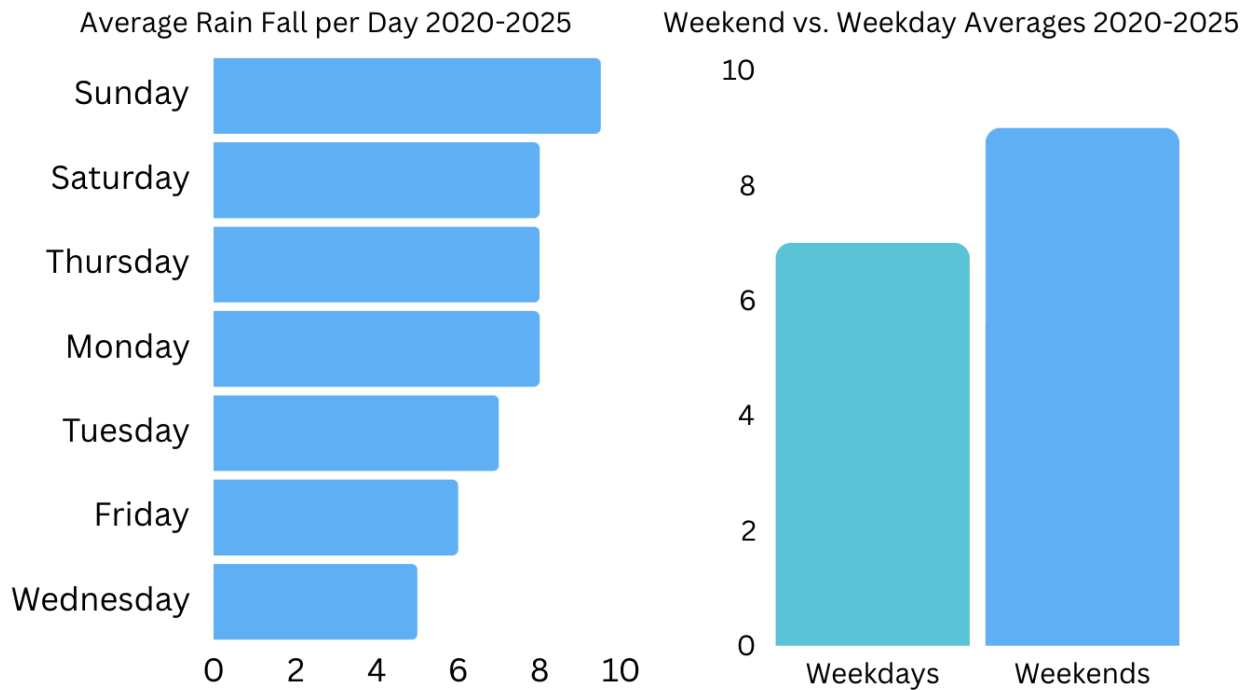
2. Analysis

- **What makes our great graph great?**
    - Use of preattentive attributes: bolded words. (pg. 107)
    - Leverages colored cells that convey the relative magnitude of the numbers. (pg.42)
    - Uses color saturation to provide visual cues, helping our eyes and brains more quickly target the potential points of interest; the higher saturation of red, the higher the meat consumption. (pg.42)
- **What makes our terrible graph terrible?**
    - What is p? What is it here? Clutter. (pg. 71)
    - What's the blue line under p? (pg. 71)
    - Vertical grey lines create unnecessary distraction. (pg. 71)
    - "By workday status" is unclear. What is the workday status? (pg. 30)
    - Use of color is distracting. (pg. 118)
    - Order of the bars is confusing. (pg. 54)

3. **Bad Graph Revisions:**

Does it rain more on the weekends?

Average Rain Fall per Day 2020-2025

Weekend vs. Weekday Averages 2020-2025

Day	
Sunday	
Saturday	
Thursday	
Monday	
Tuesday	
Friday	
Wednesday	

1. **EXTRA CREDIT OPPORTUNITY (optional)**: Recreate your "fix" in *Plotly Dash*, adding interactivity *if* needed. Show the result of your recreation to your instructor to receive extra credit, and **attach the screenshot of your Dash visualization to your Google Doc**.

Link to repo - https://github.com/benyeom/rainfall-analysis

Weekend vs. Weekday Averages 2020-2025

Average Rain Fall per Day 2020-2025