

CGT 270 Data Visualization
Makeover Monday #2 (2020 Dataset)

Name: David Luo

Date: 3/27/2022

Max points: 25

Lab section: Wednesday

Show your work!!!

Acquire

Week: 2

Date: Jan 13

Year: **2020**

Data: The USA lags behind other

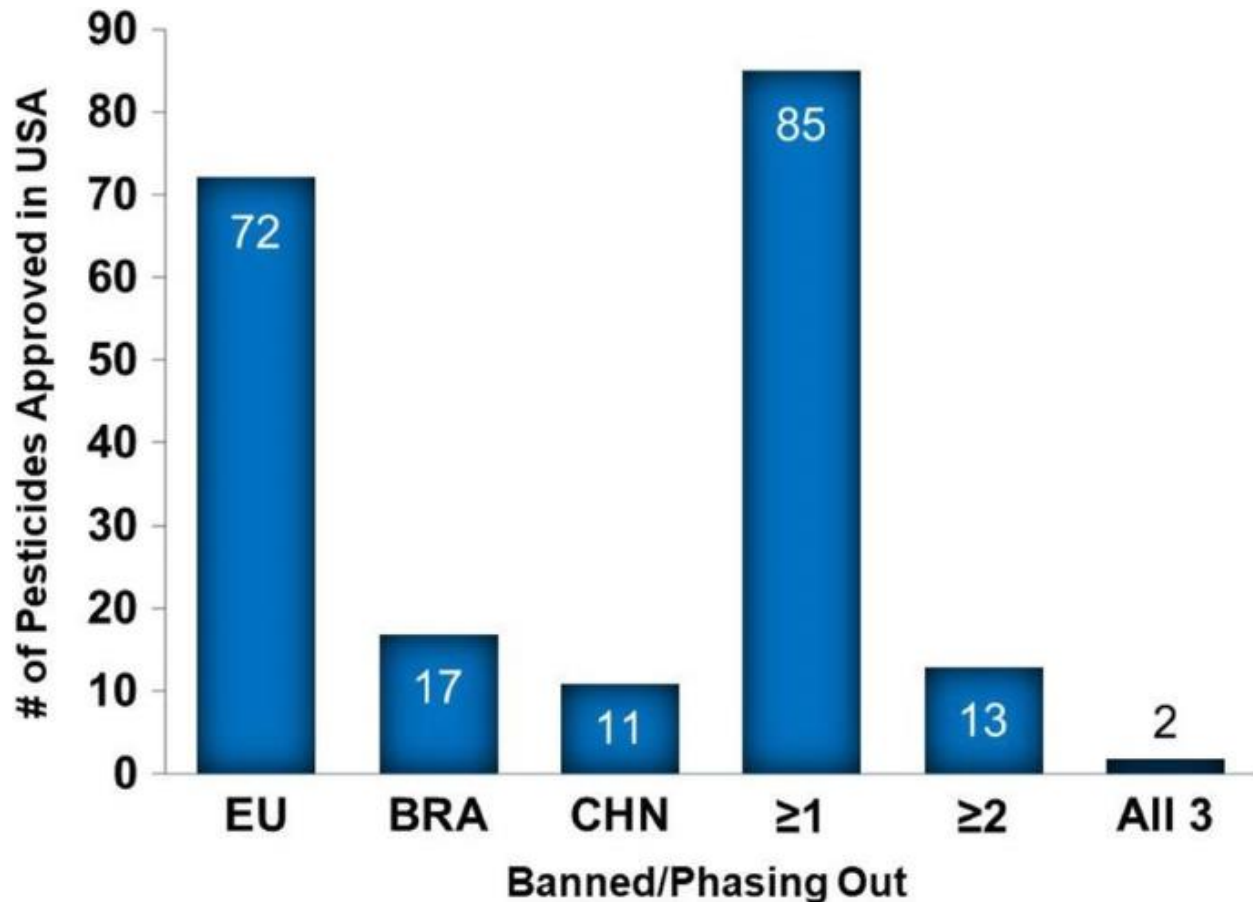
agricultural nations in banning harmful pesticides

Source Article/Visualization:

The USA lags behind other agricultural nations in banning harmful pesticides

<https://www.makeovermonday.co.uk/data/data-sets-2018/>

Represent



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Critique

Likes:

- The visualization is factual and correctly scaled

Dislikes:

- Lacks a title
- Axis titles are unclear
- Not visually interesting

This visualization is a bar chart. According to the periodic table of visualization, the bar chart is a data visualization that is an overview of the data and supports convergent thinking.

Mine

What percent of pesticides used in the US are banned or phased out in other nations?

Filter

Category	Lbs. Pesticides Used in USA Agriculture	% of Total
Total	1200587514	100
Banned in 1	281856569	23.47655341
Banned in 2	31283417	2.605675691
Banned in 3	14677188	1.22250047
Banned in none	872770340	72.69527043

Stakeholders

- Target Audience: US Agriculture regulators
- Assumptions:
 - Pesticides get double counted in the banned in at least n categories

What to submit: This document in PDF format only (if you do not know how to do this, see Lab 0 Exercise 1). Save this document as: **LastnameFirstInitial_CGT270S22_MakeoverMonday#2.pdf**

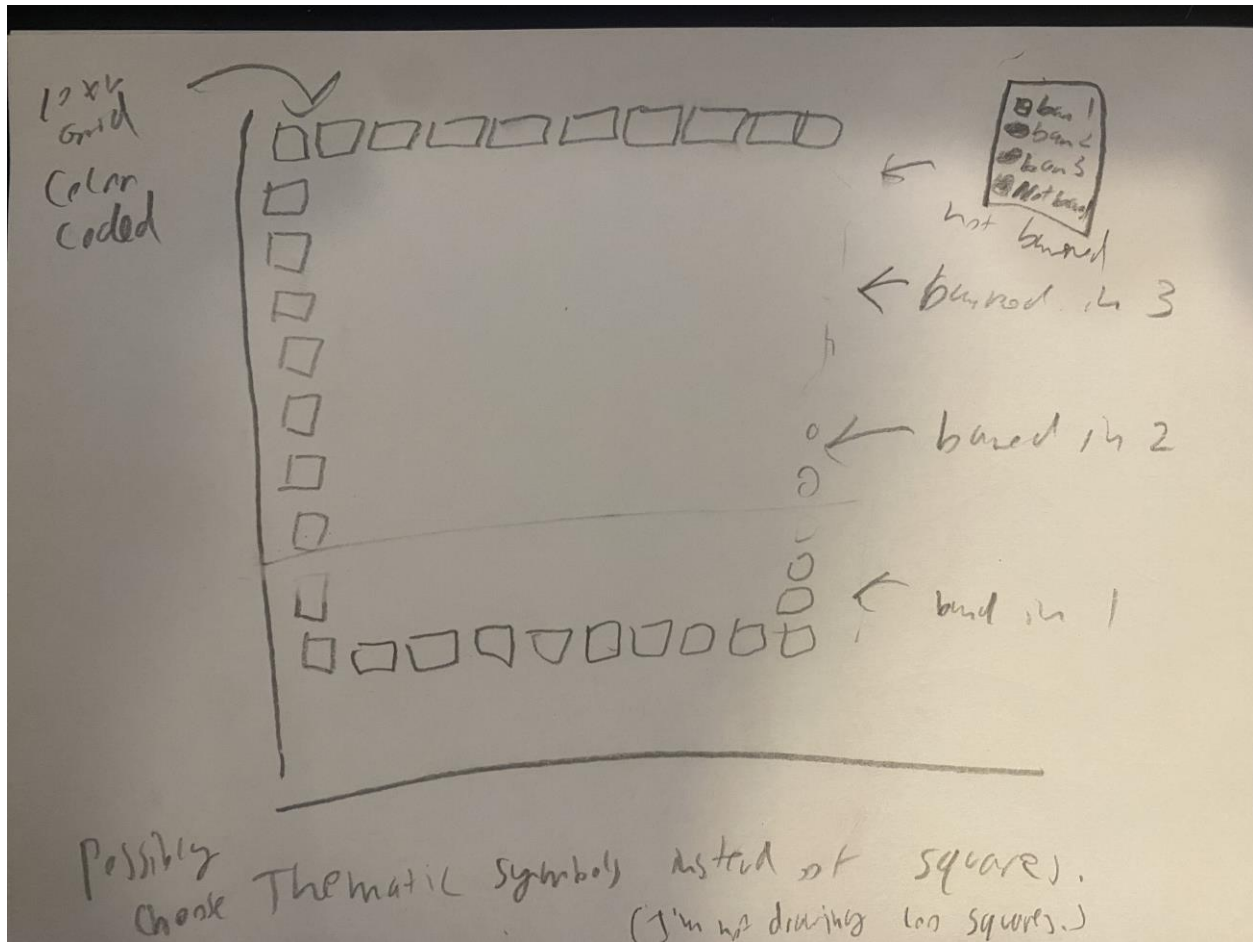
Choose the best layout for your makeover visualization: Portrait or Landscape, Remove the page of the layout that you DO NOT choose. No blank pages!

NEW Sketch your Makeover

In the space below, sketch out your ideas for refined visualization. You must use pen/pencil and paper to sketch out your idea, then take a photo of your sketch and include it in the space below.

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While using images of countries to show the data would be visually interesting, it would violate the area principle and possibly cause confusion. A basic pie chart would be considered best practice but would not be visually interesting. A waffle chart will be considered as a compromise.



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Refine (Makeover – Landscape view)

Use an additional page if necessary. Remember, the purpose of visualization is “insight.” Take and include a screenshot of your visualization and include it below. Use Data Visualization Best Practices (see data visualization checklist). **You MUST use more advanced chart types for your makeover. Chart types that are not allowed: bar (single or stacked), pie, line charts, scatter plots, no tables.**

Proportion of US Pesticides Banned in Other Countries

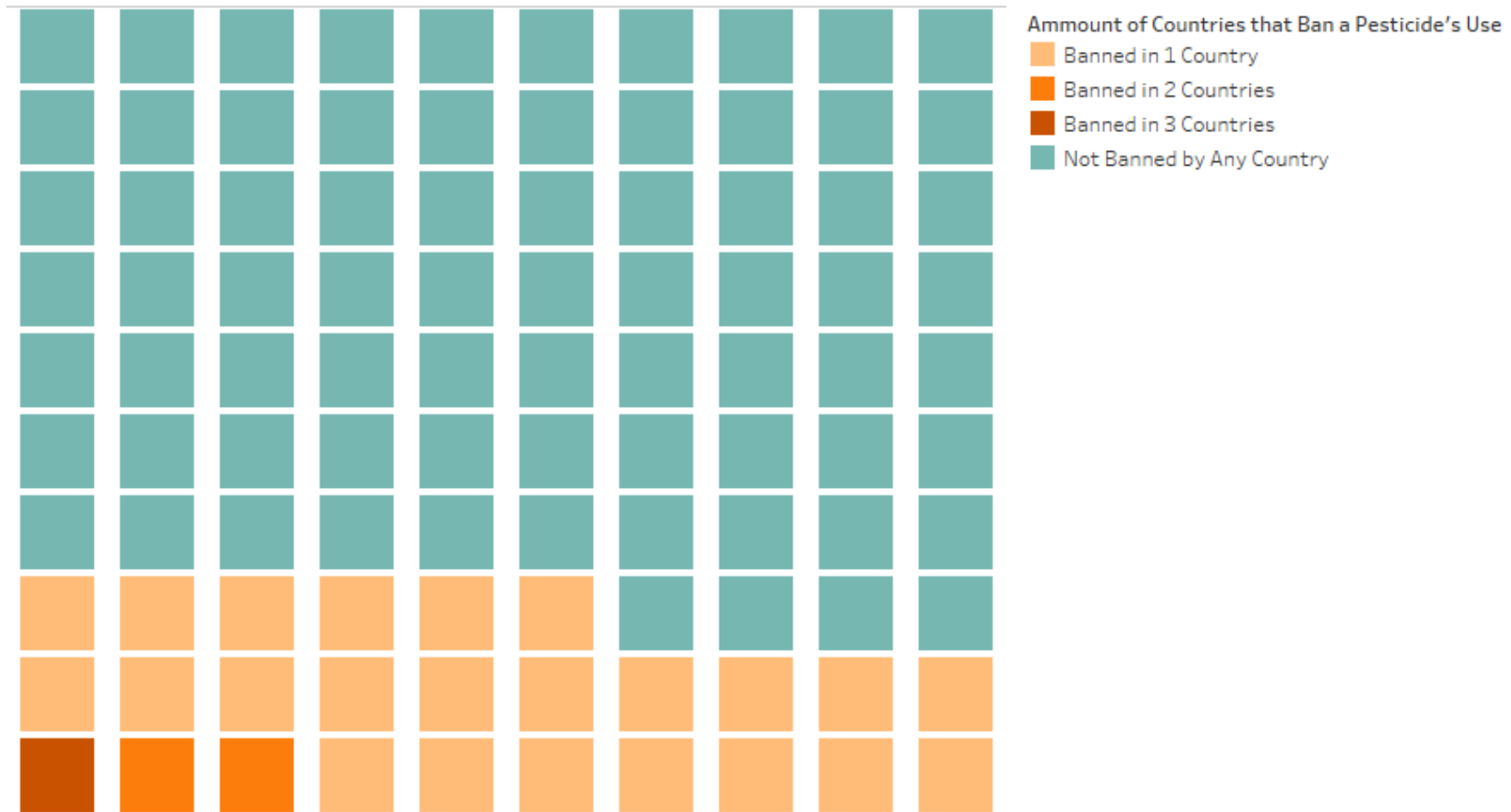


Figure Caption. A visualization of pesticide use in the US and their legal status in other countries.

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Resources

Data Visualization Checklist:

http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist_May2016.pdf

How to give constructive criticism:

<https://personalexcellence.co/blog/constructive-criticism/>

Sample Makeovers

<https://www.makeovermonday.co.uk/gallery/>

Grading Rubric

Excellent	Good	Fair	Needs Improvement
Meets ALL or most of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed. [15 pts]	Meets MOST of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed. [10 – 14 pts]	Consistently meets SOME of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed. [5 – 9 pts]	Little to no evidence of the understanding of the data visualization process. Lackluster makeover or no makeover. Little effort. [0 – 4 pts]
Sketch included: hand drawn, data vis best practices evident. [5 pts]	Sketch included: hand drawn, lacking data vis best practices. [3 pts]	Sketch included, but was generated by computer [2 pts]	No sketch included. [0 pts]
More advanced chart types used [5 pts]	More advanced chart types used, followed most best practices [3 pts]	Basic chart types used in the makeover [2 pts]	Little to no improvement in visual representation of the data [0 pts]