CGT 270 Data Visualization
Makeover Monday #2 (2019 Dataset)

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Lab section: Thursday

Show your work!!!

Acquire

Week: 3

Date: Jan 14th Year: **2019** Data: Bureau of Labor statistics.

Source Article/Visualization:

How many people earned the Federal minimum wage or less in each State?

https://www.makeovermonday.co.uk/data/data-sets-2019/

Represent

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Critique

This visualization is a data map of the United States. This means that it is an information visualization that shows a convergent overview of the data being presented. It provides a glance comparison between states on minimum wage statistics. I think that this provides a good overview and the ability to analyze a state's geographical location relative to minimum wage workers. However, the color scheme and map do not allow for a deeper analysis of the distribution on minimum wage workers. I think that a more standard 2d chart would be better for comparing this minimum wage percentage against two things: other state's minimum wage percentage over the years, and how does this percentage relate to population density or GDP

Mine

How have the percentage of under minimum wage workers changed through out the years? Which states have improved the most; which the least?

Filter

Year	State	Total	At Minimum Wage	Below Minimum Wage
2002	Alabama	0.034	0.01	0.024
2002	Alaska	0.011	0.005	0.005
2002	Arizona	0.04	0.015	0.025
2002	Arkansas	0.052	0.023	0.029
2002	California	0.01	0.002	0.009
2002	Colorado	0.03	0.004	0.025
2002	Connecticut	0.017	0.003	0.014
2002	Delaware	0.025	0.005	0.02
2002	District of Columbia	0.034	0.009	0.026
2002	Florida	0.038	0.005	0.032
2002	Georgia	0.028	0.002	0.026
2002	Hawaii	0.02	0	0.02
2002	Idaho	0.04	0.011	0.029
2002	Illinois	0.031	0.01	0.021
2002	Indiana	0.03	0.003	0.027
2002	Iowa	0.032	0.006	0.027
2002	Kansas	0.031	0.011	0.019
2002	Kentucky	0.046	0.016	0.03
2002	Louisiana	0.052	0.022	0.03
2002	Maine	0.028	0.005	0.023
2002	Maryland	0.026	0.002	0.024
2002	Massachusetts	0.023	0.002	0.021
2002	Michigan	0.031	0.006	0.025
2002	Minnesota	0.02	0.007	0.013
2002	Mississippi	0.053	0.027	0.027
2002	Missouri	0.03	0.006	0.024
2002	Montana	0.029	0.021	0.008
2002	Nebraska	0.035	0.012	0.023
2002	Nevada	0.025	0.015	0.01
2002	New Hampshire	0.026	0.003	0.023
2002	New Jersey	0.038	0.006	0.032
2002	New Mexico	0.047	0.029	0.018
2002	New York	0.034	0.009	0.025
2002	North Carolina	0.031	0.005	0.026
2002	North Dakota	0.042	0.021	0.021
2002	Ohio	0.038	0.01	0.028
2002	Oklahoma	0.04	0.017	0.023
2002	Oregon	0.012	0.002	0.01
2002	Pennsylvania	0.034	0.008	0.026
2002	Rhode Island	0.027	0.003	0.024
2002	South Carolina	0.033	0.009	0.025
2002	South Dakota	0.03	0.009	0.021
2002	Tennessee	0.029	0.014	0.015
2002	Texas	0.041	0.016	0.026
2002	Total, 16 years and over	0.03	0.008	0.022
2002	Utah	0.026	0.012	0.014
2002	Vermont	0.021	0.005	0.016
2002	Virginia	0.03	0.005	0.025
2002	Washington	0.007	0.001	0.007
2002	West Virginia	0.056	0.029	0.027
2002	Wisconsin	0.022	0.003	0.019
2002	Wyoming	0.035	0.014	0.021
2003	Alabama	0.027	0.01	0.017

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Stakeholders

- My audience for this visualization is for people who wonder how many people work below minimum wage in the united states.
- I am assuming that this data accounts for 100% of the legal workers in the united states. There will be people working below minimum wage in the states that are not reported because either they are not legally in the united states, their job is illegal, or a myriad of other reasons.
- I used Tableau to create this visualization.

What to submit: This document in PDF format only (if you do not know how to do this, ask).

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!

Refine (Makeover – Landscape view)

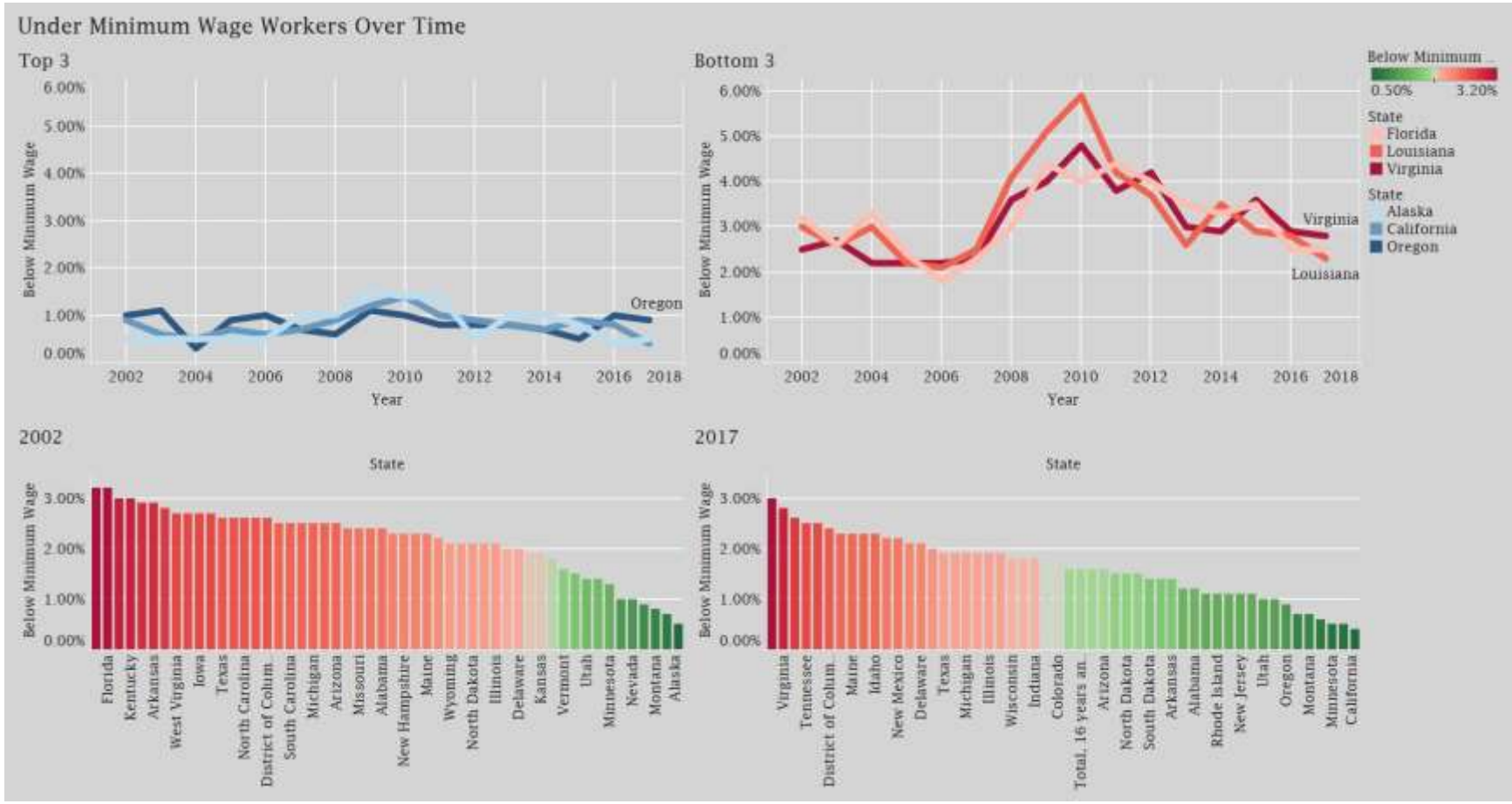

Figure Caption. This visualization shows four different graphs. From top-left to bottom-right: Best three states (lowest percent of below min. wage workers) from 2002-2017, worst three states (highest percent of below min. wage workers) from 2002-2017, distribution of below min. wage workers in 2002, and distribution of below min. wage workers in 2017. These four charts show two things: how between 2002-2017 the worst states saw a large jump after the great recession, and how since 2002 the percentage of below min. wage workers is declining.

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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 (21-25 pts)	**Good (10-20 pts)**	**Fair (5 – 9 pts)**	**Needs Improvement (0 – 4 pts)**
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.	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.	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.	Little to no evidence of the understanding of the data visualization process. Lackluster makeover or no makeover. Little effort.