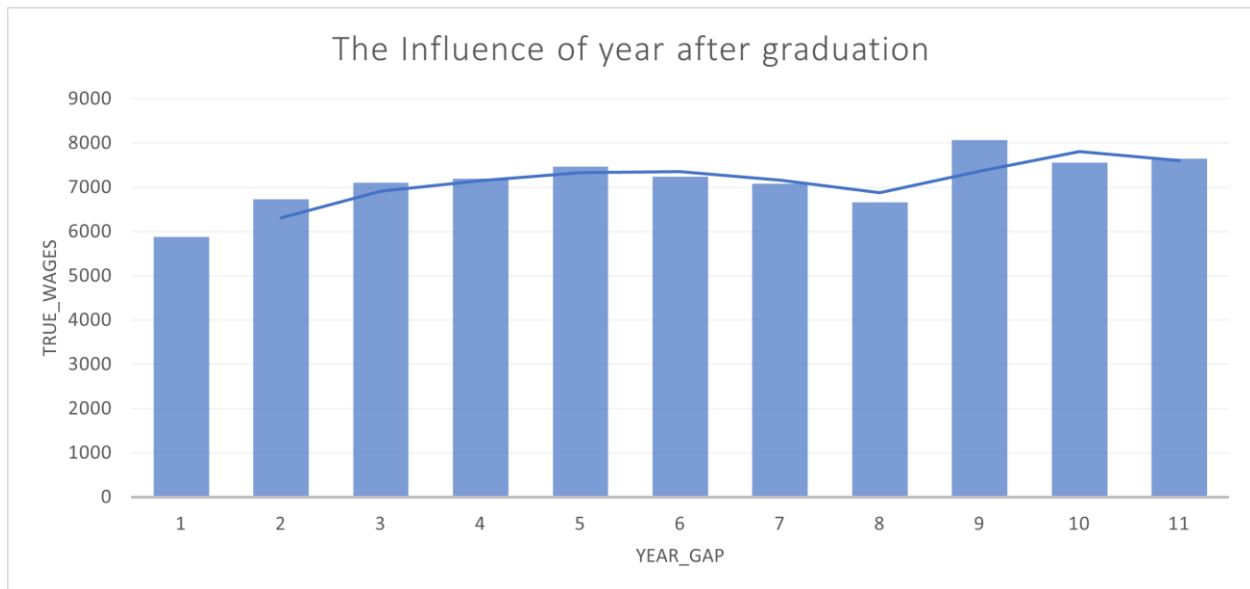
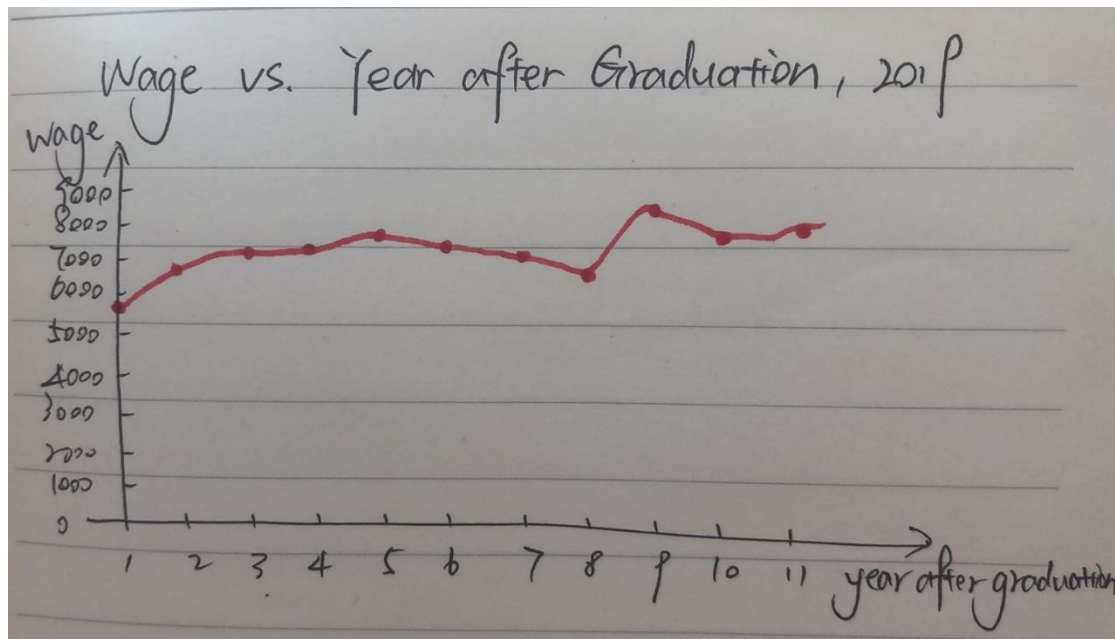


This dataset contains information regarding all graduates from a vocational training center who lived in Shadyside county in 2019. It interprets the relationship between their wages and the year after their graduation date.



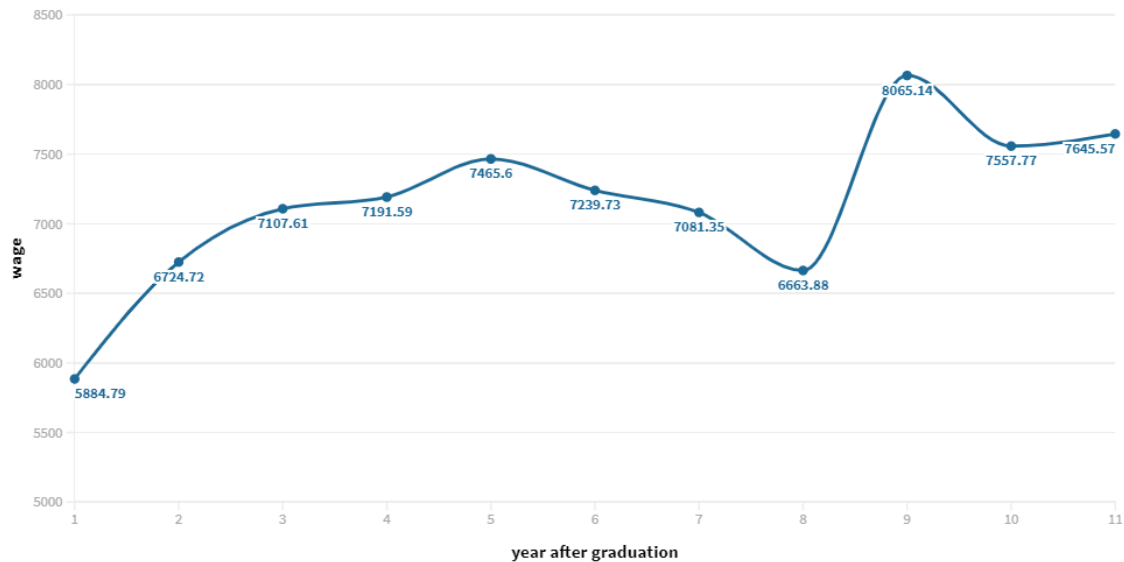
In this graph, the purpose is to present the trend of workers' wages fluctuate with different years after graduation. In the original graphic, I discovered several issues as an audience: 1. The title is not as descriptive 2. The x axis and y axis variable names do not make sense to the audience. 3. The range of y axis is too wide with some useless space for bars. 4. It's better for visualization if the numbers can be located at each year. 5. There is no source displayed. Based on the analyzes in the report, I feel like the most important insight for this graph is the changing trend of wages. Because the authors also analyzed the influence of other factors to wage, the value of wage has been mentioned clearly for multiple times in the essay. That means we may not need to emphasis on the 'bars'. Their trendline is the key for this graph. According to Stephen Few's Data Visualization Effectiveness Profile, I will critique this visulization from five perspectives: 1. Useless VS Useful: This graphic is very useful as it presents the historical trend of year after graduation on wage for center graduates lived in Shadyside. 2. Completeness: I think this graphic needs more clarification in explaining the message that it wants to express. 3. Perceptibility: I can not understand this graph with minimal efforts because there isn't a "highlighted" object to catch my attention at the first place, and I have to look for the message 4. Truthfulness: This graphic presents truthful data as it is. 5. Intuitiveness: I can get the point after checking the details. But this graph is not intuitive enough because the names of x and y axis is unclear.



Test Case 1: Q: What message do you think this graph is trying to deliver? A: I think this graphic is trying to show me the trend of wage change with different years of graduation. Q: Who do you think might find this graphic useful? A: I think maybe school district officials or people who are designing the training classes would find it useful as it will give them an idea of what to expect and also how they performed. Q: What do you think is unclear or confusing in this graphic? A: There are too much empty space at the bottom which make the trend a little bit hard to see.

Test Case 2: Q: What message do you think this graph is trying to deliver? A: The relationship between wage and year after graduation for somebody. Q: Who do you think might find this graphic useful? A: I think the numbers give me a better sense of the data and the slope of the segment lines indicates their growth rate as well. Q: What do you think is unclear or confusing in this graphic? A: I think maybe providing more information of graph will be helpful, because now I don't know who's wage is analyzed.

Wage vs. Year after Graduation, 2019



Source: DHS Shadyside County's Department of Human Services & Job Training Center

A common message that I am getting is that the information that this graphic is trying to convey is not as clear. I think I will need to add a separate paragraph to better explain this graph. Additionally, I will keep the simple schemas to only show the trend, which appear to be more important for the graph.

1. Do not include variable names that audience do not know as axis name. 2. Add numbers to appropriate positions rather than ambiguous positions. 3. Show clear sources can help audience to better and quickly understand the analysis.

In my final solution, I fixed all the issues I mentioned: axis names, title, values for each year. Besides, I changed the color into dark blue which is more suitable for single color choice. I chose to delete the bars and narrow the y axis, allowing the minimum to be 5000 and the maximum to be 9000, so that the audience can see clear trend. What I wish to do more: I wish to highlight the segment of surging periods if possible, because I would like my audience to focus on these periods as they reflect the most efficient and greatest possibility to earn more during these years.