

DATA VISUALIZATION ASSIGNMENT -1

Rohith Reddy Vangala - 016762109

Bad Visualization #1

The visualization on the right shows us the candidates' voting percentage in a country.

- The **percentage format** and also the **data labeling** are **not perfect**, as some are displayed inside the bar and some outside, and some are displayed with a comma when they should be displayed with a dot.
- They have used the **same color** for all three candidates.
- The **percentage**, when added, is **not equal to 100**; they have also missed others here.
- The **composition of proportions** has to be in a **pie chart**, but here they have used bar chart.
- Here, the bar chart is **not following an ascending or descending pattern**.

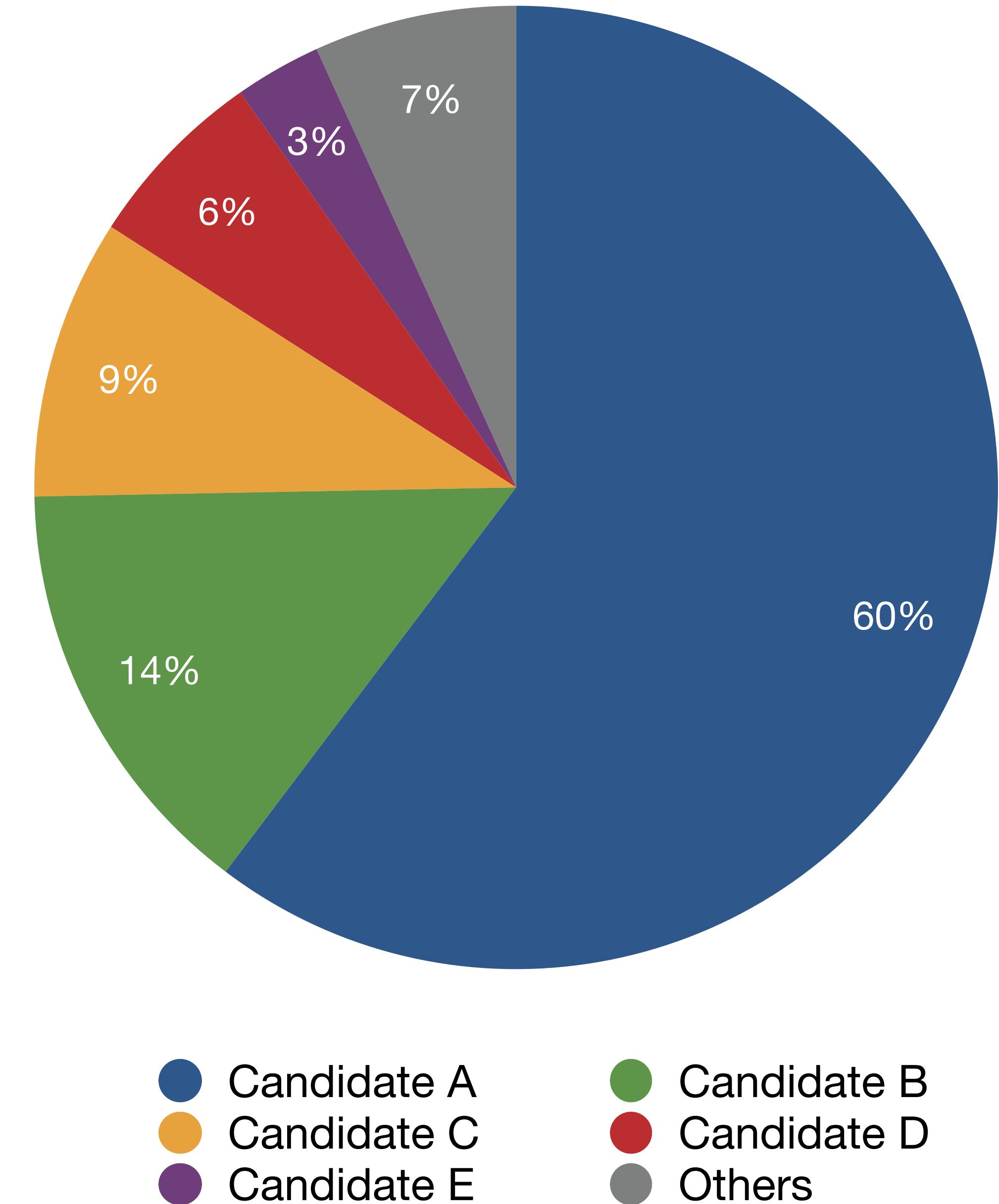


Source : <https://viz.wtf/>

Reformed Visualization #1

The visualization on the right shows us the candidates' voting percentage in a country.

- Here I have **changed the representation format to piechart** because it correctly shows the required output.
- I have also **added another value called "others,"** which was missed in the representation, so that the overall percentage is equal to 100.
- **Data labelling** is done correctly.
- **Color coding** is perfectly done.

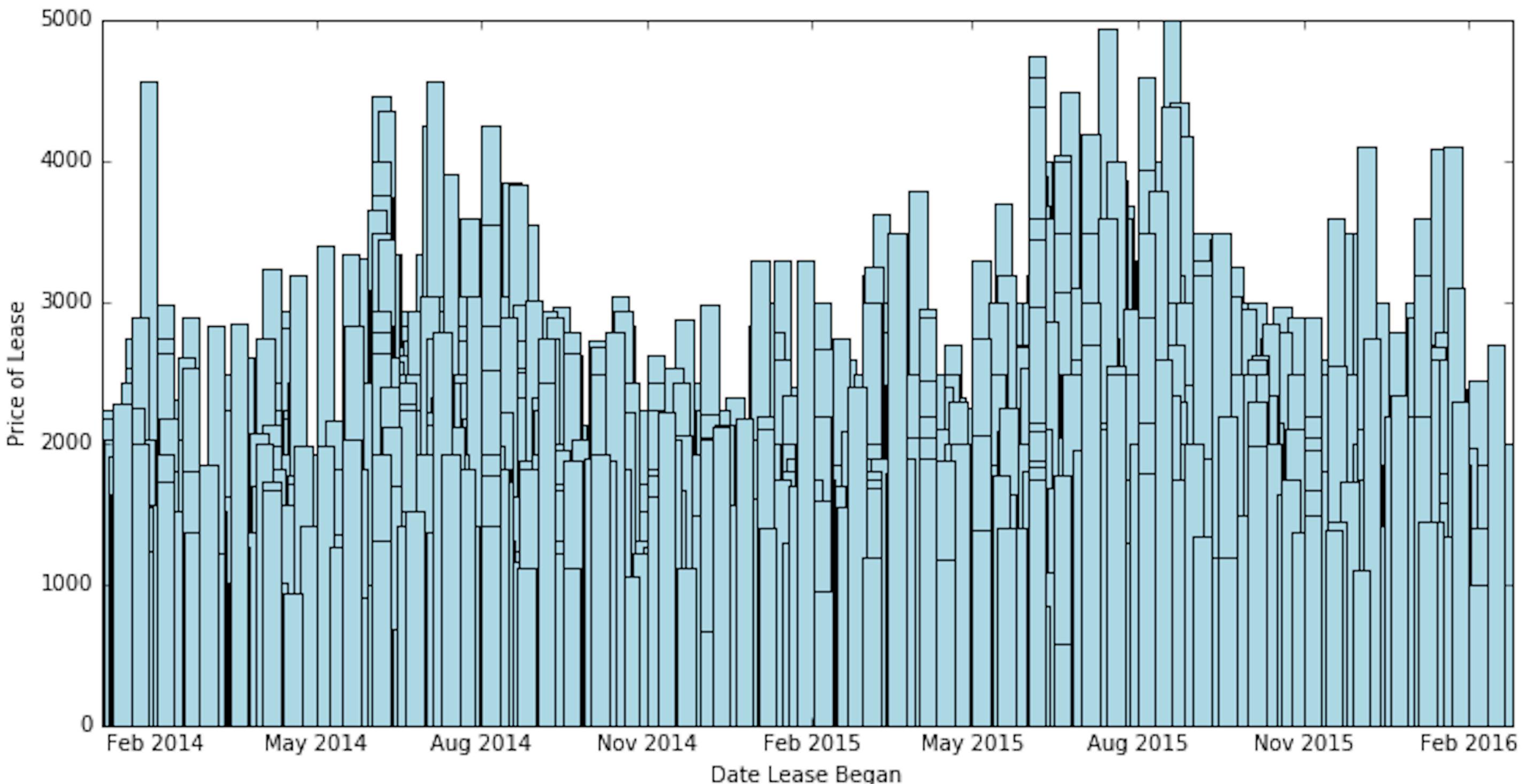


Created using keynote

Bad Visualization #2

The visualization on the right shows us the rents in city for certain months.

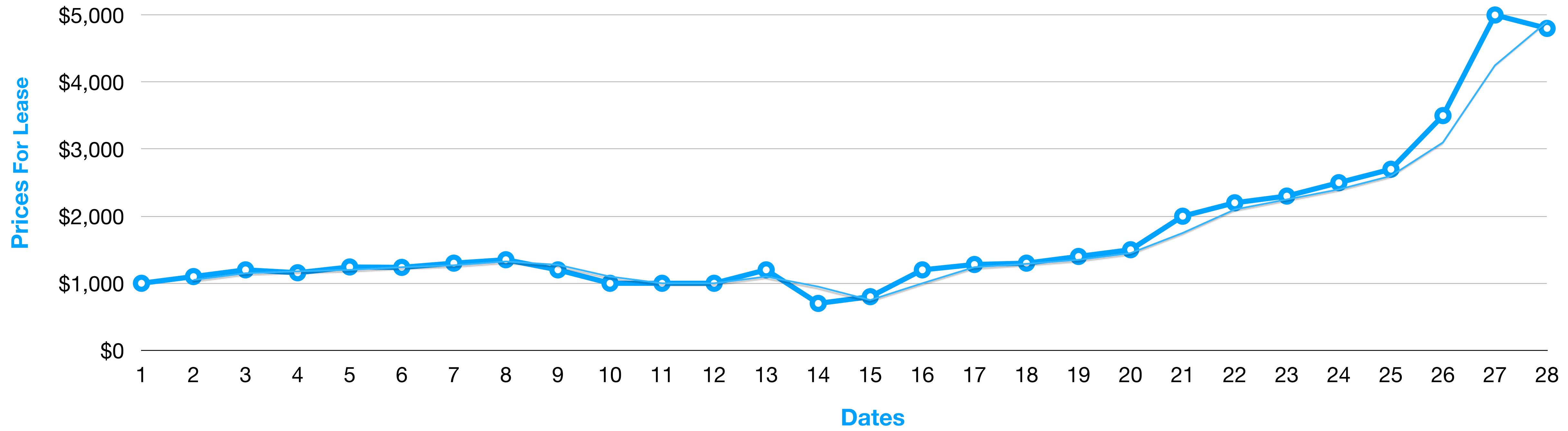
- The **visualization** in this case **is poor**.
- The creator here wants to show the price of a lease for every day in a month, but this is not achieved properly because he wants to fit everything in one chart.
- Not just that he **missed certain months in between**, but also the **colors chosen are not perfect**; it is completely monochrome, which doesn't suit this requirement.
- The graphs can be corrected by creating separate line charts for every month.



Source : <https://viz.wtf/>

Reformed Visualization #2

Feb Month



Created using keynote

- Here I took a **separate line chart** for each and every month thereby giving much **more clarity on the lease values**.
- By taking this there may be **more line charts required (one chart for one month)**. but its the **better way** to easily understand the goal of the chart
- By using this we can also **check the trend easily by using the moving average trend line**.

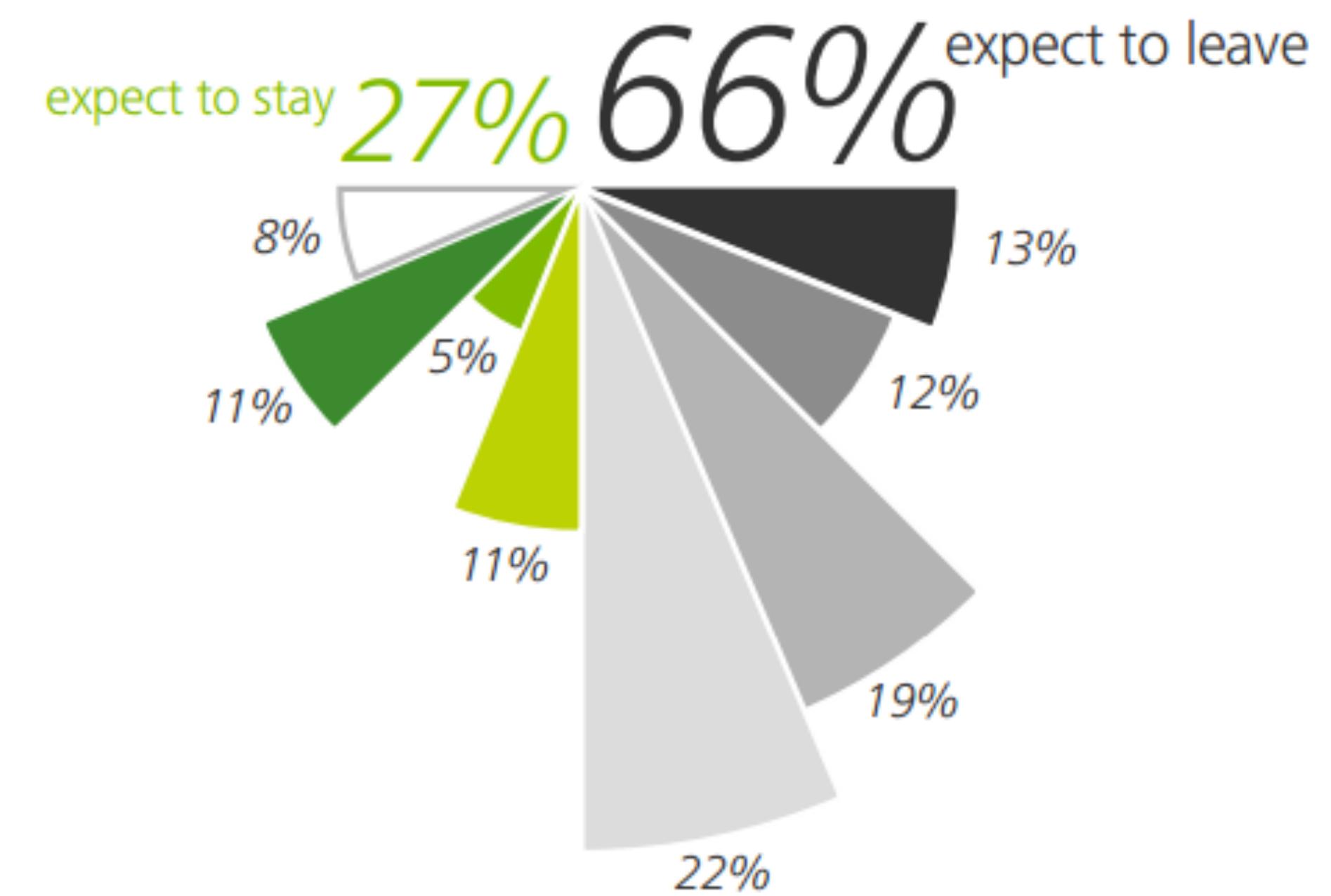
Bad Visualization #3

The visualization on the right shows us the employees percentage who are planning to leave the company.

- Here, the author tried to add too much inventiveness, but by making it difficult to understand, he missed the actual information.
- Also the overall percentage when added it is coming around 101% which is not correct.
- The color that the creator used are perfect, but the visualization could have been a bit simpler.

Figure 1: Two in three Millennials expect to leave by 2020
Percentage who expect to leave in the next...

- ≤ 6 months
- 6 months to 1 year
- > 1 to 2 years
- > 2 to 5 years
- > 5 to 10 years
- > 10 years
- Would never leave
- Don't know



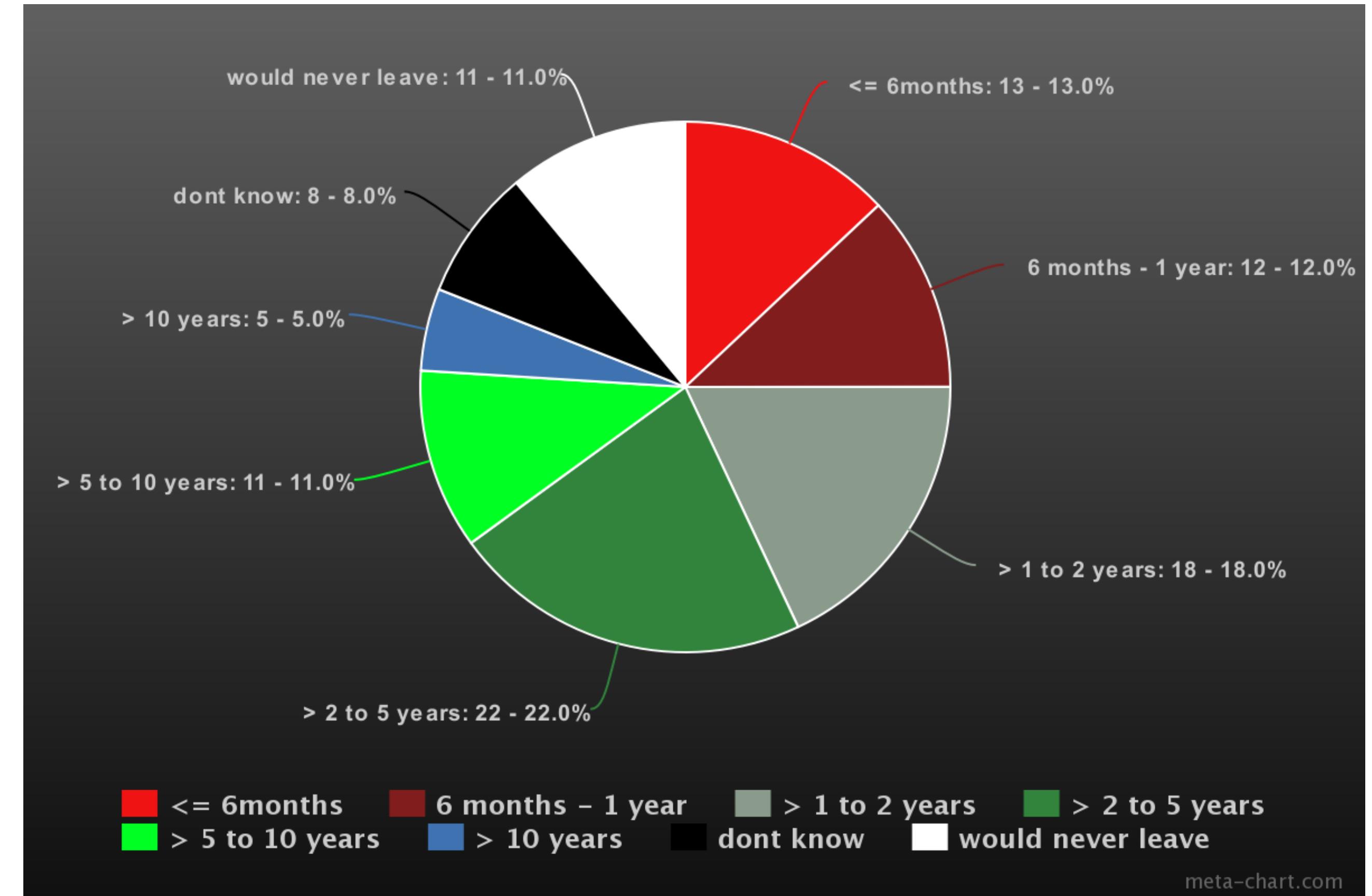
Q. If you had a choice, how long would you stay with your current employer before leaving to join a new organization or do something different?

Source : <https://viz.wtf/>

Reformed Visualization #3

The visualization on the right shows us the employees percentage who are planning to leave the company.

- Here I have **made the pie chart a little simpler**, thereby increasing the readability.
- Also I have **fixed the overall percentage issue**.
- In order to make the pie chart easier to recognize, I **also modified the color coding and made it slightly more colorful**.

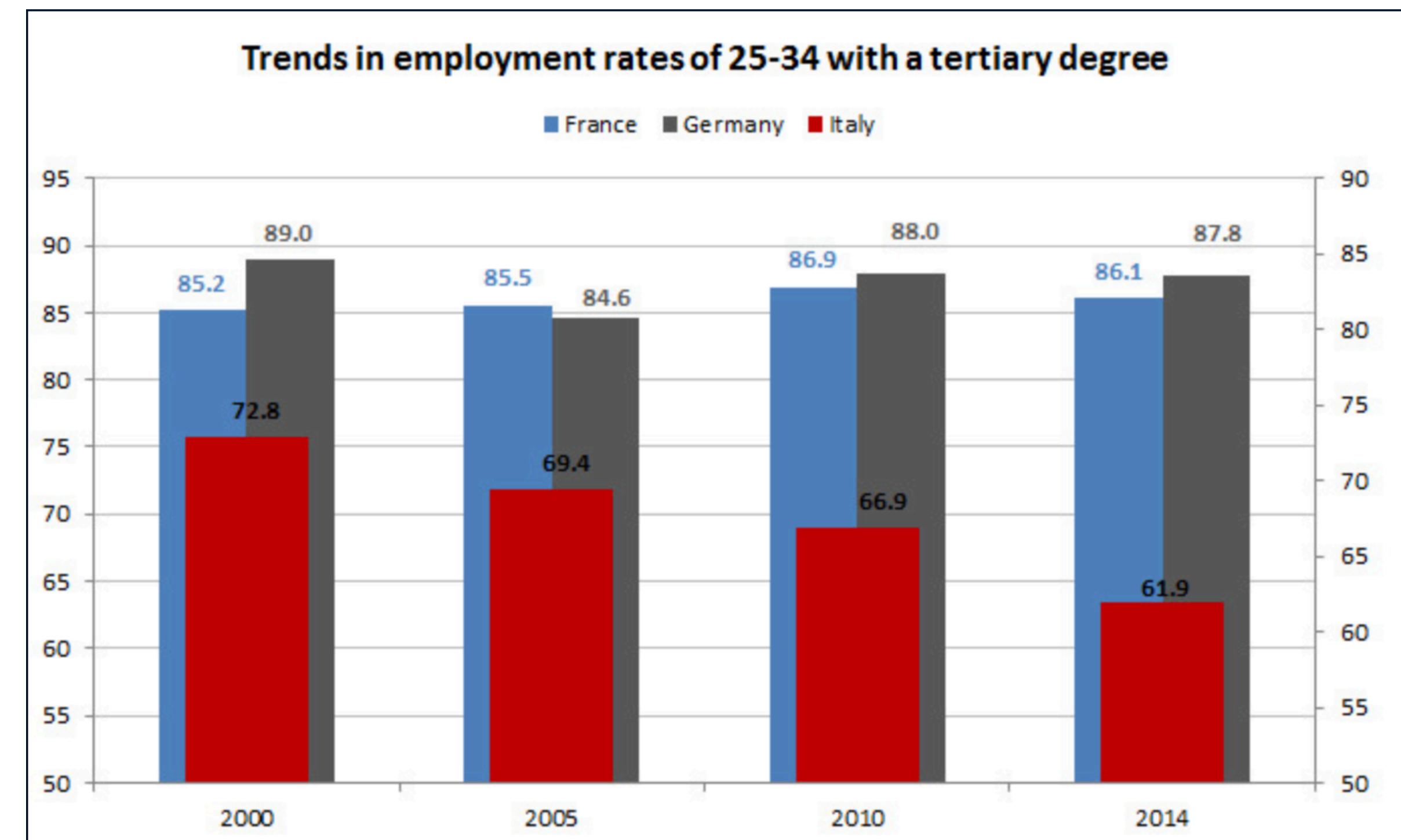


Created using [meta-chart.com](#)

Bad Visualization #4

The visualization on the right shows us the trends in employment rates of 25-34 for certain months.

- Here the **y axis scaling is given two sides and is also not correct**, because the range is starting from 50
- The **bars are clubbed**, thereby causing a **clumsy view**.
- There is **no labeling of the x and y axes**, which can cause confusion.
- The **years took should have correct difference** between them.

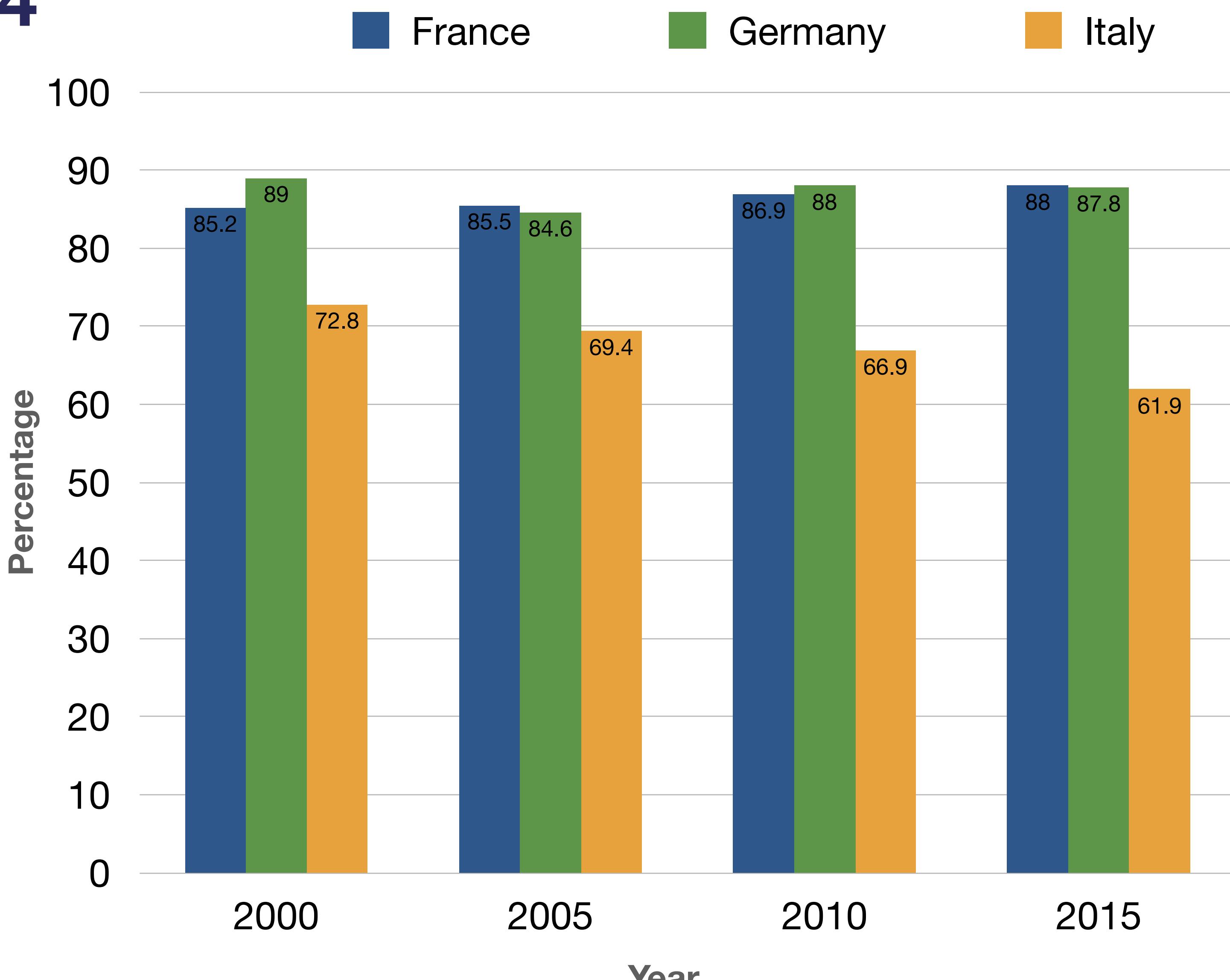


Source : <https://viz.wtf/>

Reformed Visualization #4

The visualization in the right shows us the rents in city for certain months.

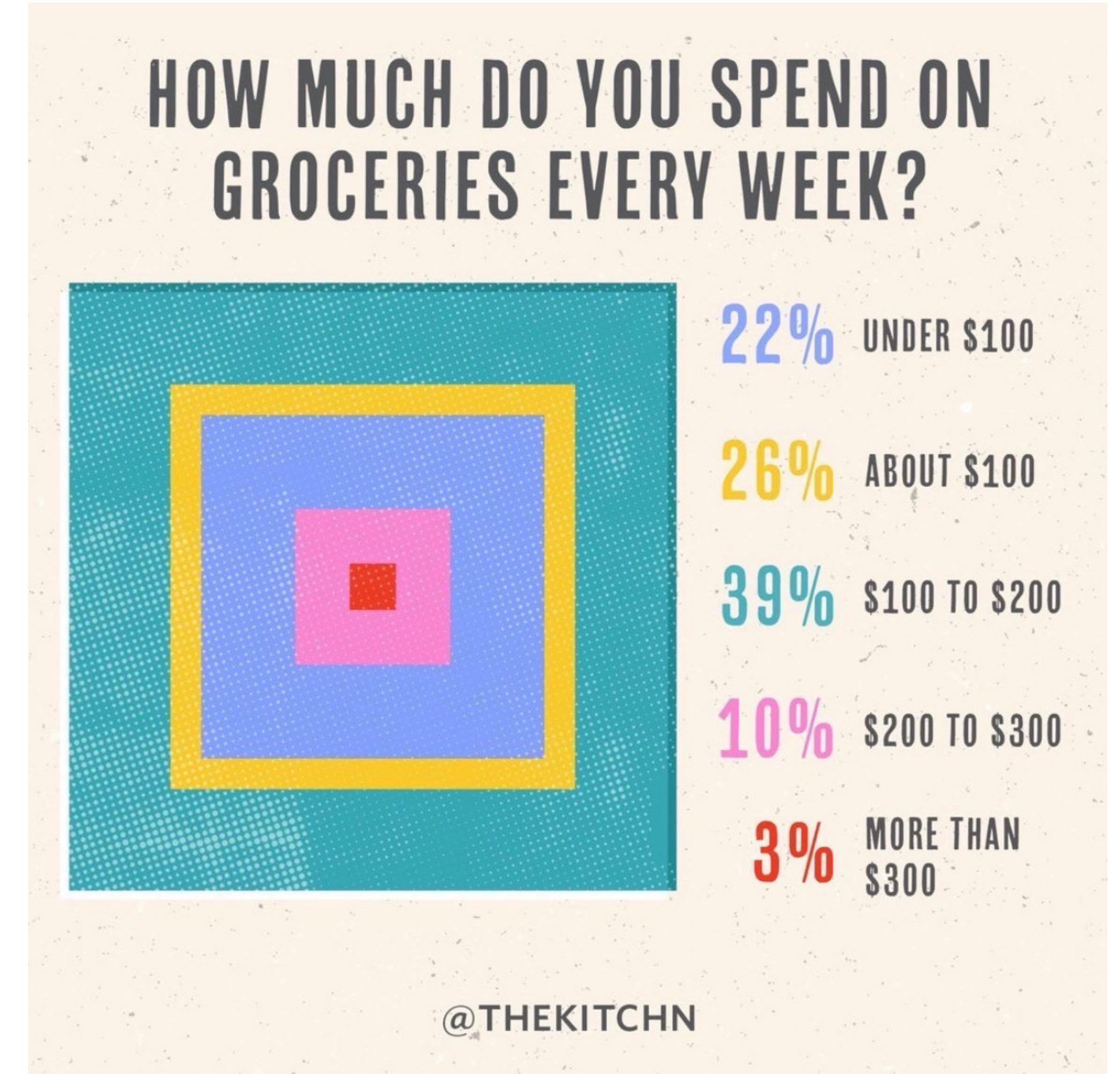
- First I have **removed the clutter** and I took **three different bars** for the **three cities**.
- I have **labelled the x axis and y axis** and have also **took the correct range of percentage**.
- **Instead of 2014, I took 2015** to understand the correct trend.
- Here I took **different colors** which helps to the eyes **to easily catch the information**.



Bad Visualization #4

The visualization on the right shows us the percentage of employees who are planning to leave the company.

- Here, instead of a square plot, a pie chart would have actually done the job.
- Even the color coding appears unappealing and dreary.
- Without the text and numbers, we can't even understand what the plot is telling.

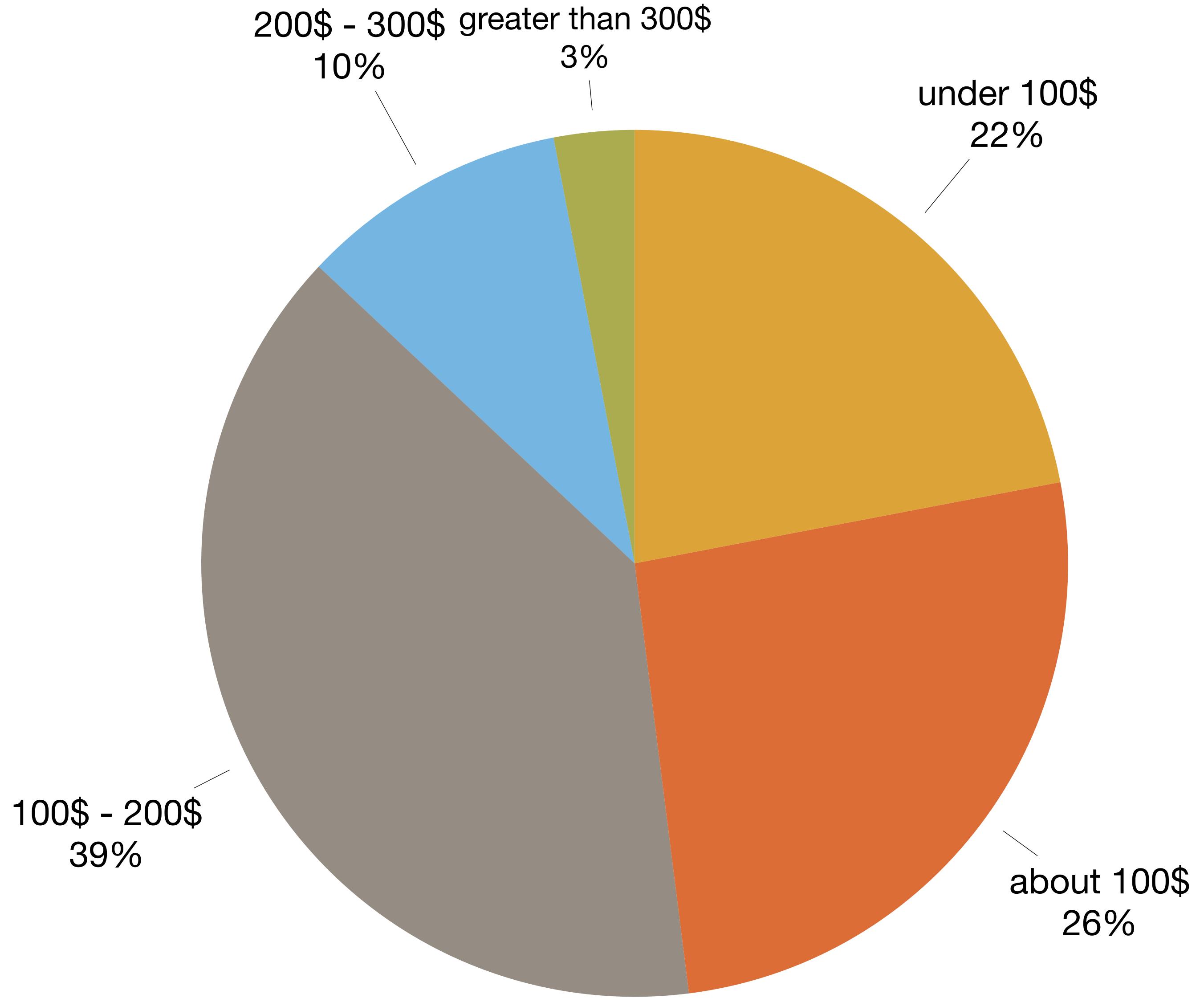


Source : <https://viz.wtf/>

Reformed Visualization #5

The visualization in the right shows us how much do someone spend on groceries every week.

- Here, **instead of a square plot**, I have **used a pie chart** to make the visualization clear.
- Even the **color coding is changed by using bright colors**, to increase the visual experience.
- Using this piechart one can easily understand what it wants to tell.



Created using keynotes