

The Octopodes

Our Team



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Purpose

- Understand what Data Visualizers in the field have gotten their education in, and whether Data Visualization was offered as a course.
- What role Data Visualizers play in their organization or as a freelancer, as well as who their data visualizations are for.
- How much time Data Visualization Hobbyists spend on Data Visualization, and what they spend their time on.

Data Visualization Process

Process:

- Filtered to include data on organization, freelance, hobbyist and education.
- Visualized information in different ways, critiqued and iterated to make visualization better.

Assumptions:

- Data is complete and correct
- Any field which was null was interpreted to mean no

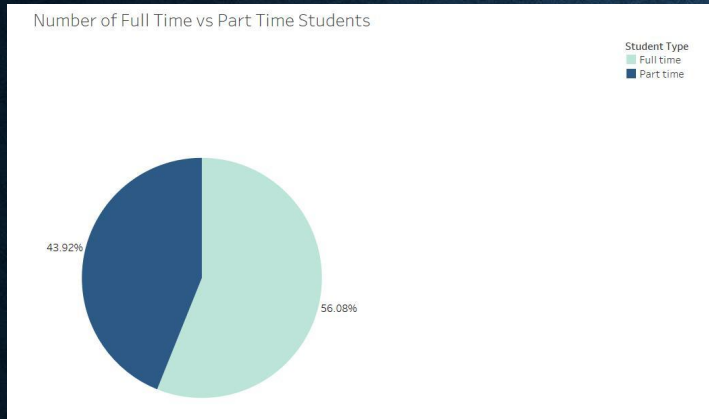


Fig. 1

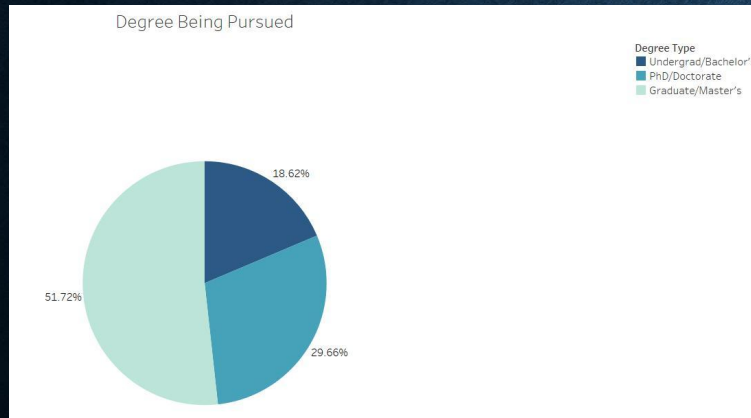
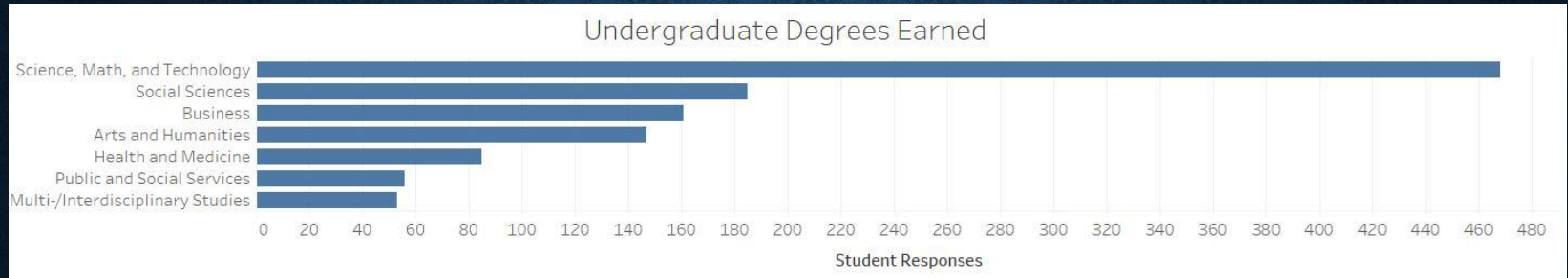


Fig. 2

- Of the students that took the survey, over half of them are full time students.
- Surprisingly, over half of the students are pursuing a Graduate or Master's in Data Visualization

Fig. 3



- Stem related degrees definitely have the majority compared to other degree types.
- As previously stated, the larger numbers are a result of simply how the survey was set up
- It is surprising to see how much of a contrast there is between STEM and Multi-Interdisciplinary Studies for example.

Is Data Visualization Taught Within Your Degree?

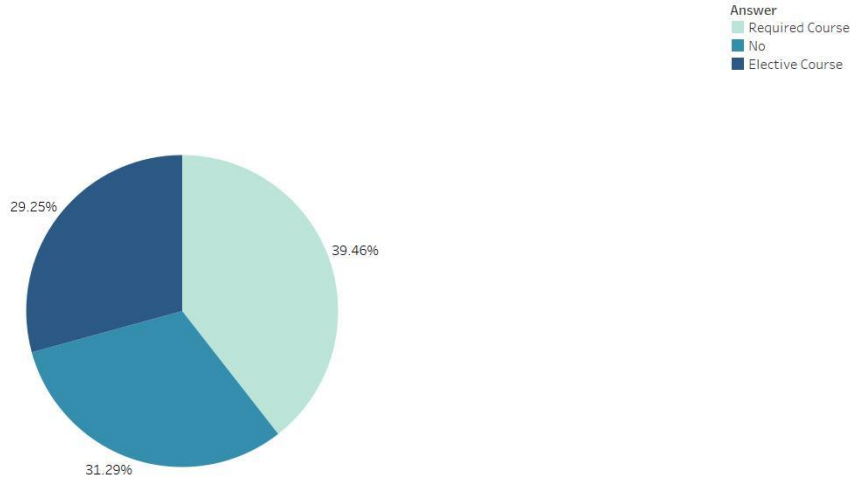


Fig. 4

- Surprising amount of “No” when compared to the academic areas of specialty
- The amount of STEM academic areas of specialty was surprising at first, but after though made sense

Academic Areas of Specialty

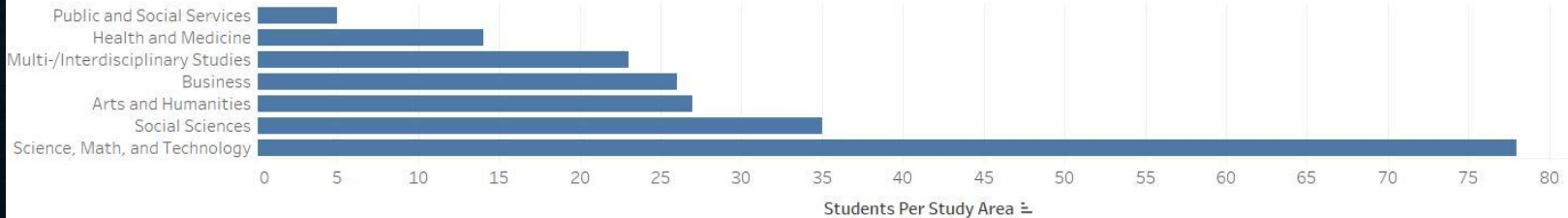


Fig. 5

Freelance

- Only a small percentage of Data Visualizers have worked as a freelancer in the last year.
- The majority of freelancers work as Designers.
- Significant portions of all job titles believe that Data Visualization is the primary focus of their work.

Fig. 6

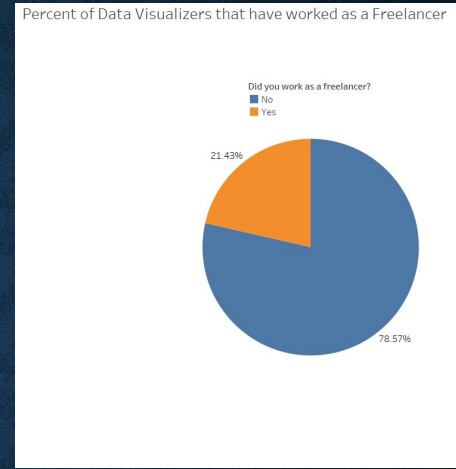
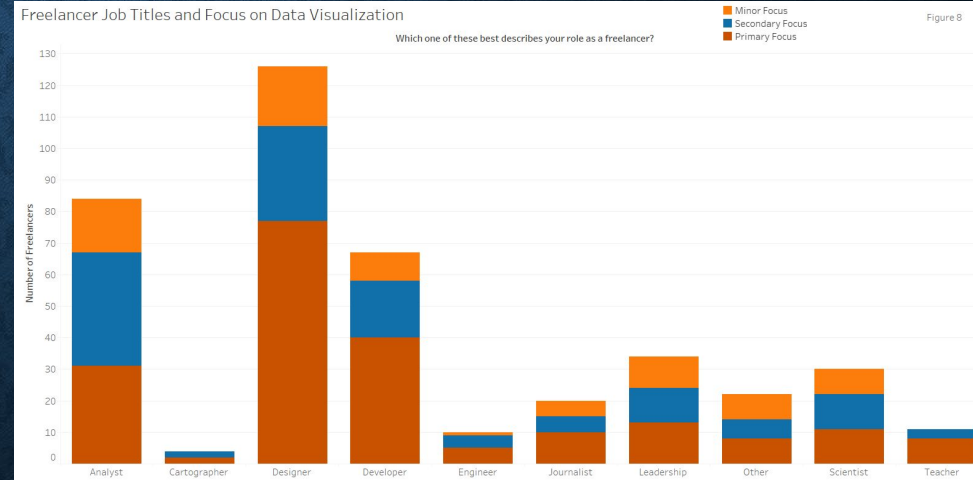


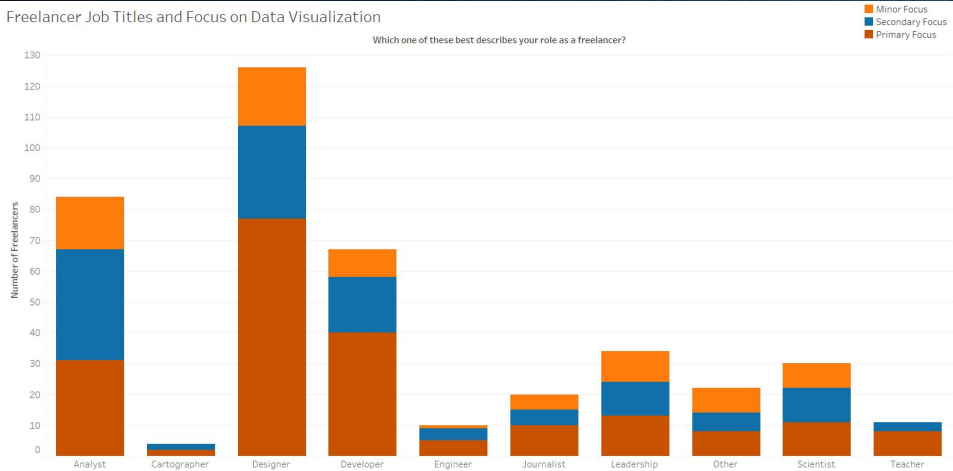
Fig. 7



Freelancer vs Organization

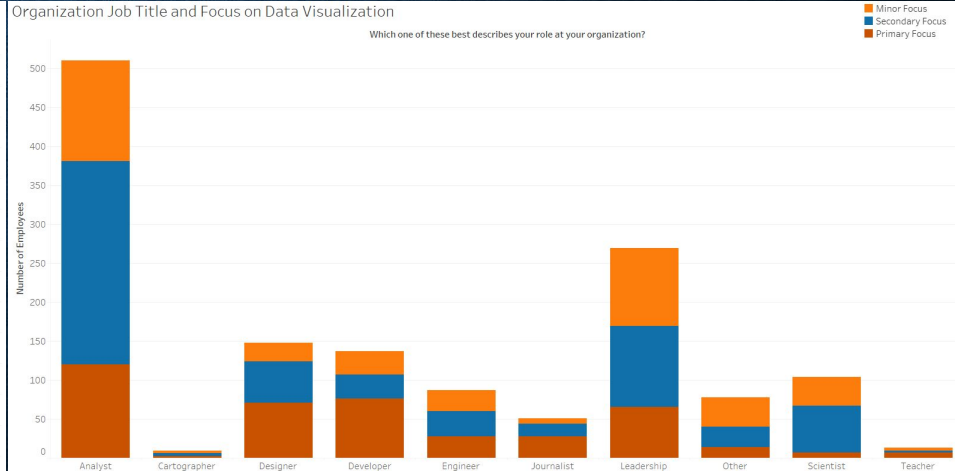
- Analysts are by far the most popular careers in an organization.

Fig. 8



- Lower percentages of Organization workers say that Data Visualization is their primary focus.

Fig. 9



Freelance Visualizations

- Most freelancers make visualizations for the General Public
- They make the least visualizations for designers

- Myself, Analysts, Project Managers, Policy Makers and Researchers all have very similar numbers for who freelancers make data visualizations

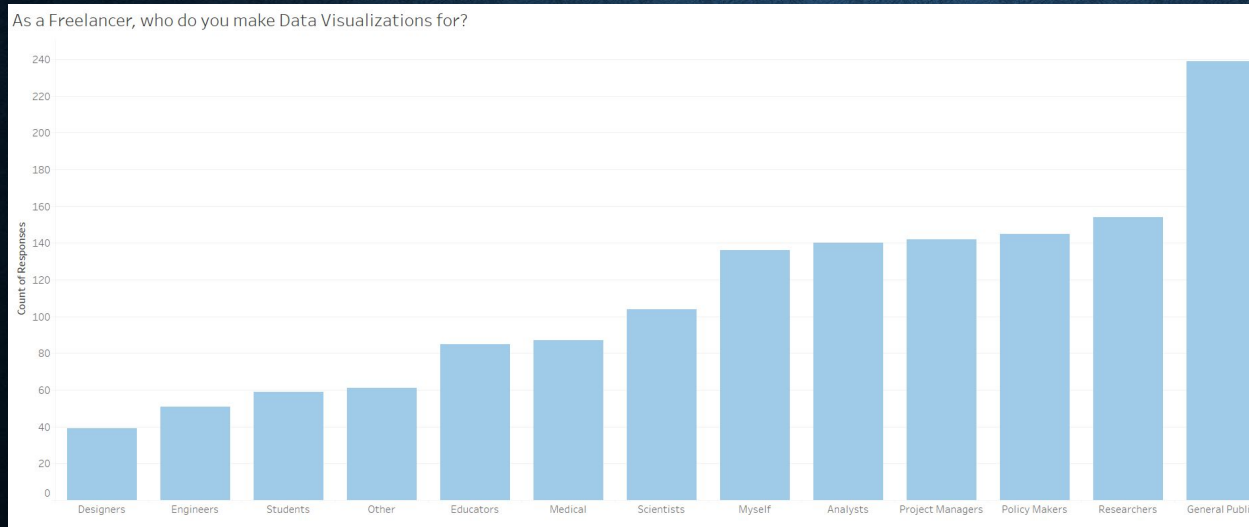


Fig. 10

Organization Visualizations

An Expected majority
makes for analysts and
project managers

An unexpectedly high
amount made for
themselves

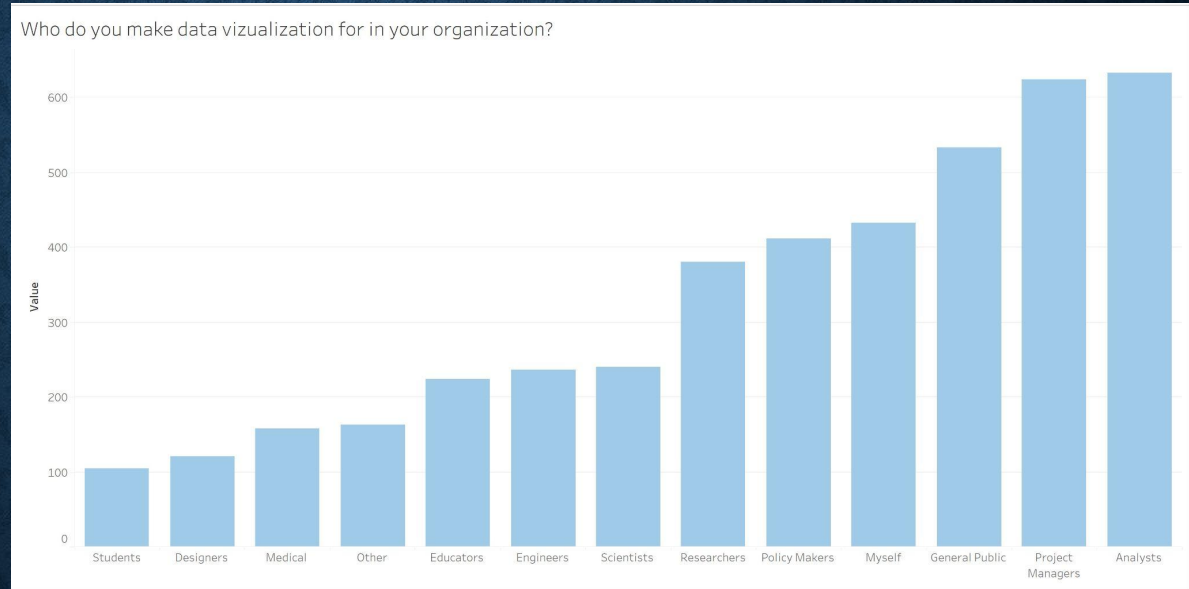


Fig. 11

Freelancer vs Organization Visualizations

- General Public is a popular field in both Freelancer and Organization visualizations
- Both groups share the top 7 visualization audiences in a different order

Fig. 12

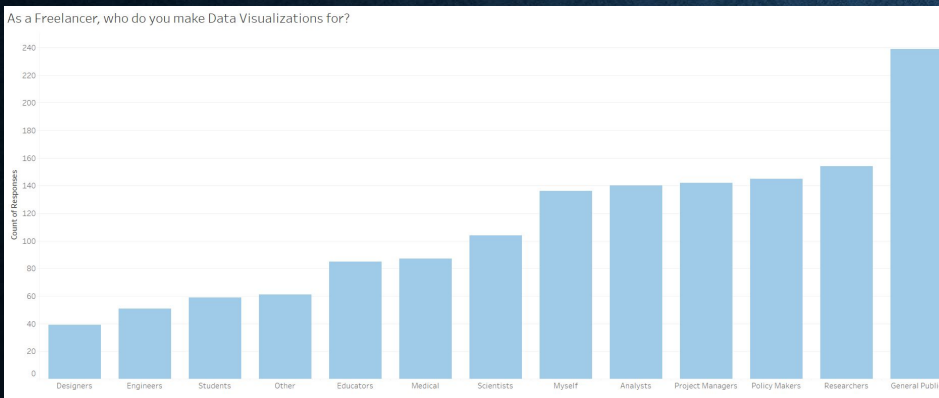
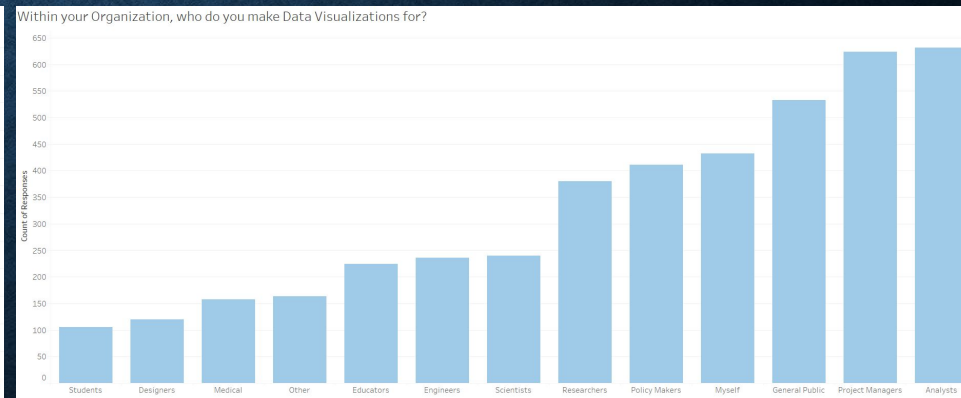
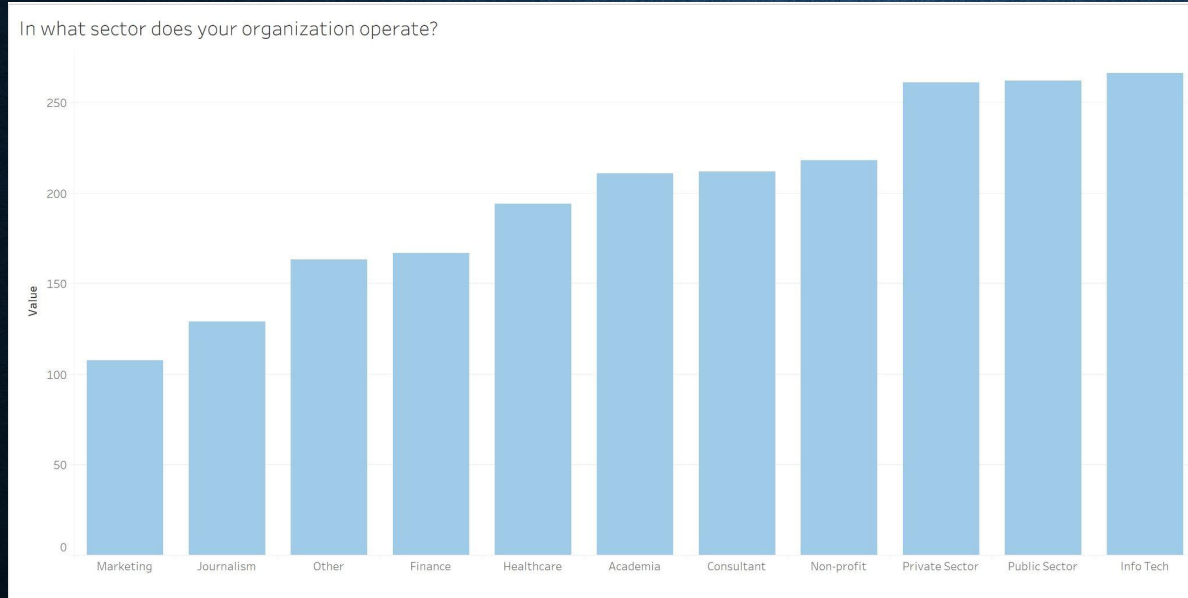


Fig. 13



Data Visualization Employer Sectors



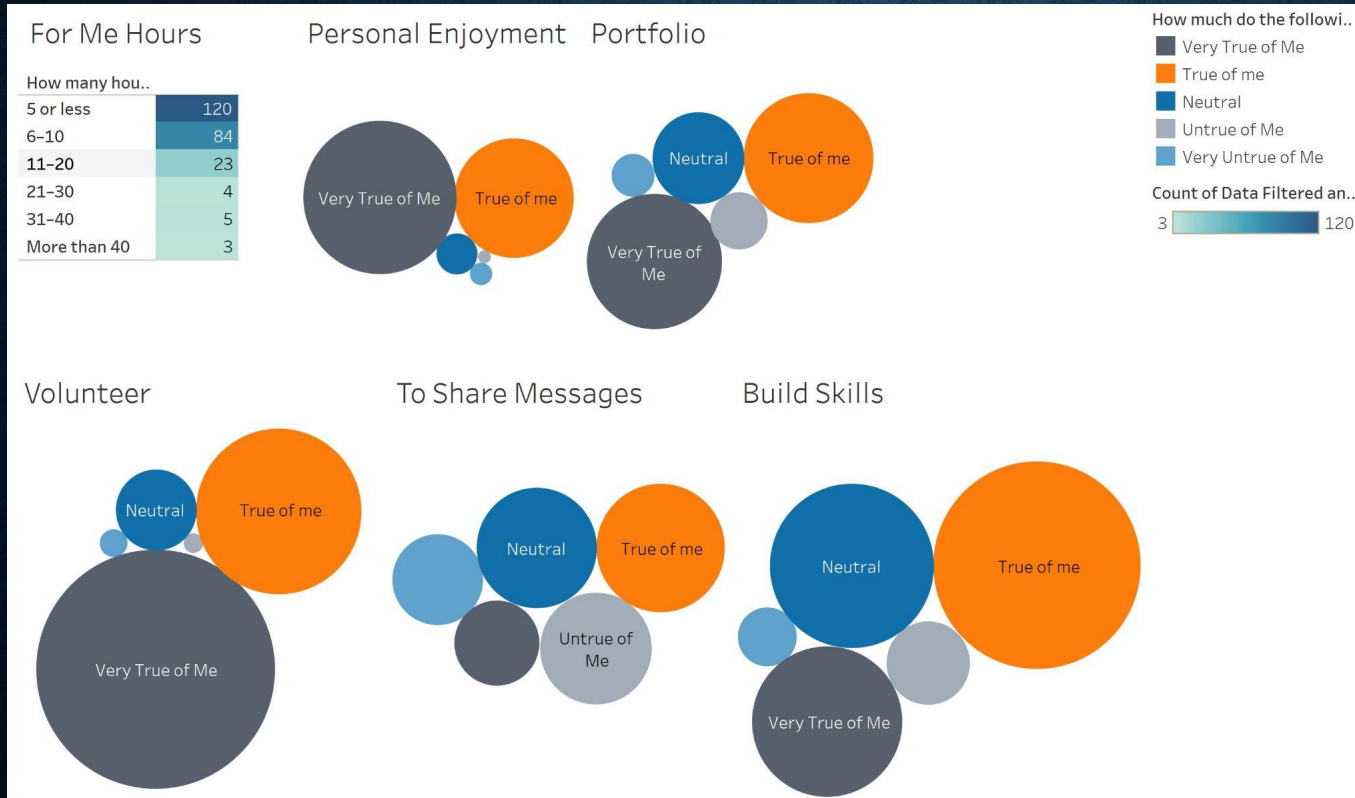
Most Popular: Info Tech,
Public, & Private Sectors

- Closely followed by
Non-Profits

Marketing was the least
popular of the sectors.

Fig. 14

Data Visualization Hobbyist



- **50% Spend \leq 5 Hours**
 - ~35% Spend 6-10 Hours
- **Most Popular Reasons:**
 - Volunteer Work
 - Building Skills
 - Building a Portfolio

Fig. 15

Conclusion

- The majority of Data Visualizers have gotten their degree in STEM
- The majority of freelancers are designers, and a large portion of them consider data visualization their primary focus, while in an organization, the majority of data visualizers are analysts, and a smaller portion consider data visualization their primary focus.
- Data visualization hobbyists mostly spend between 0-10 hours per week on data visualization, and primarily because of volunteer work, to build skills, and to build a portfolio

Thank You!