

Visualization of Education Budget

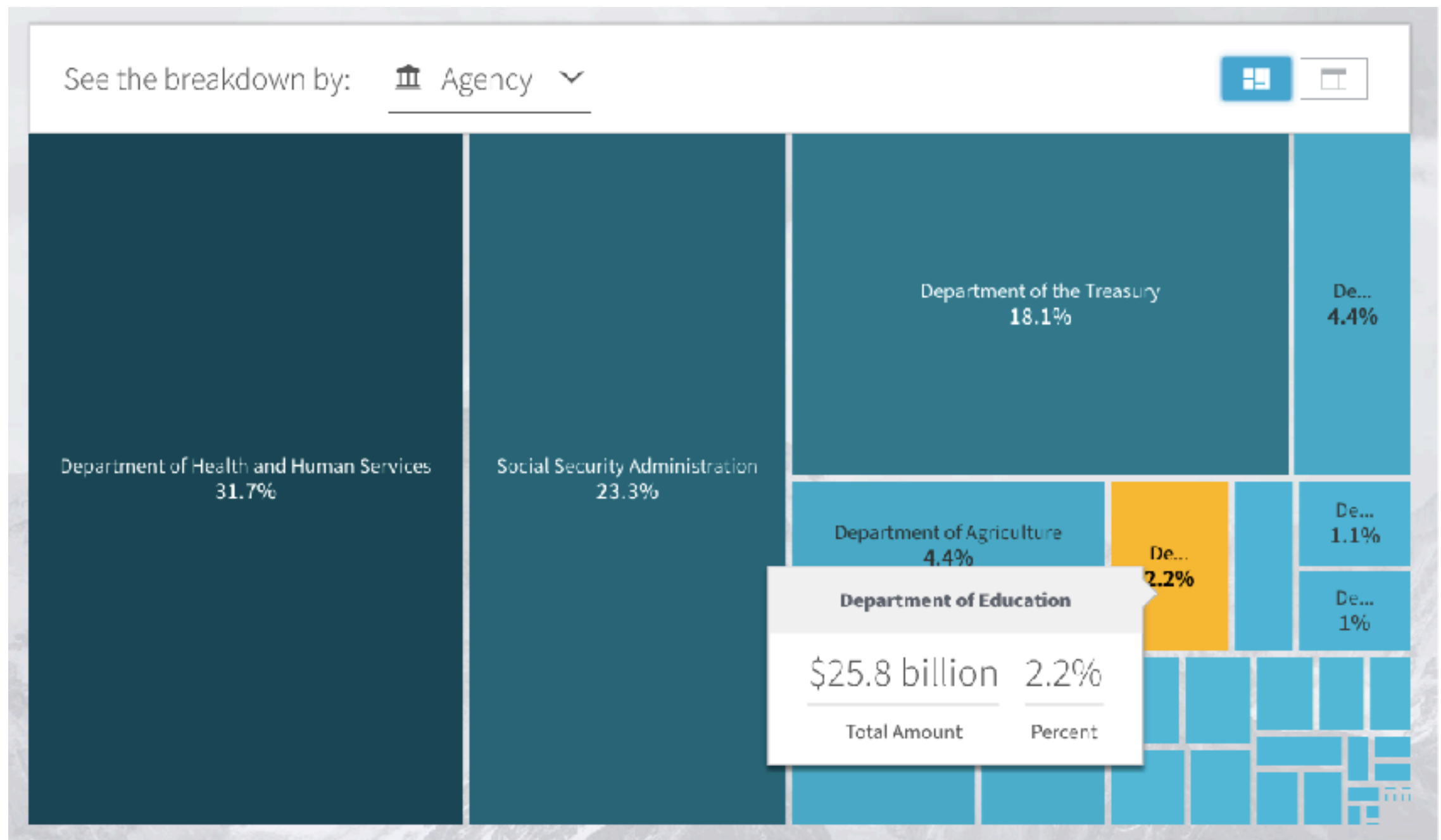
Group: Fanlin Wang; Frenci Rakipi

What?

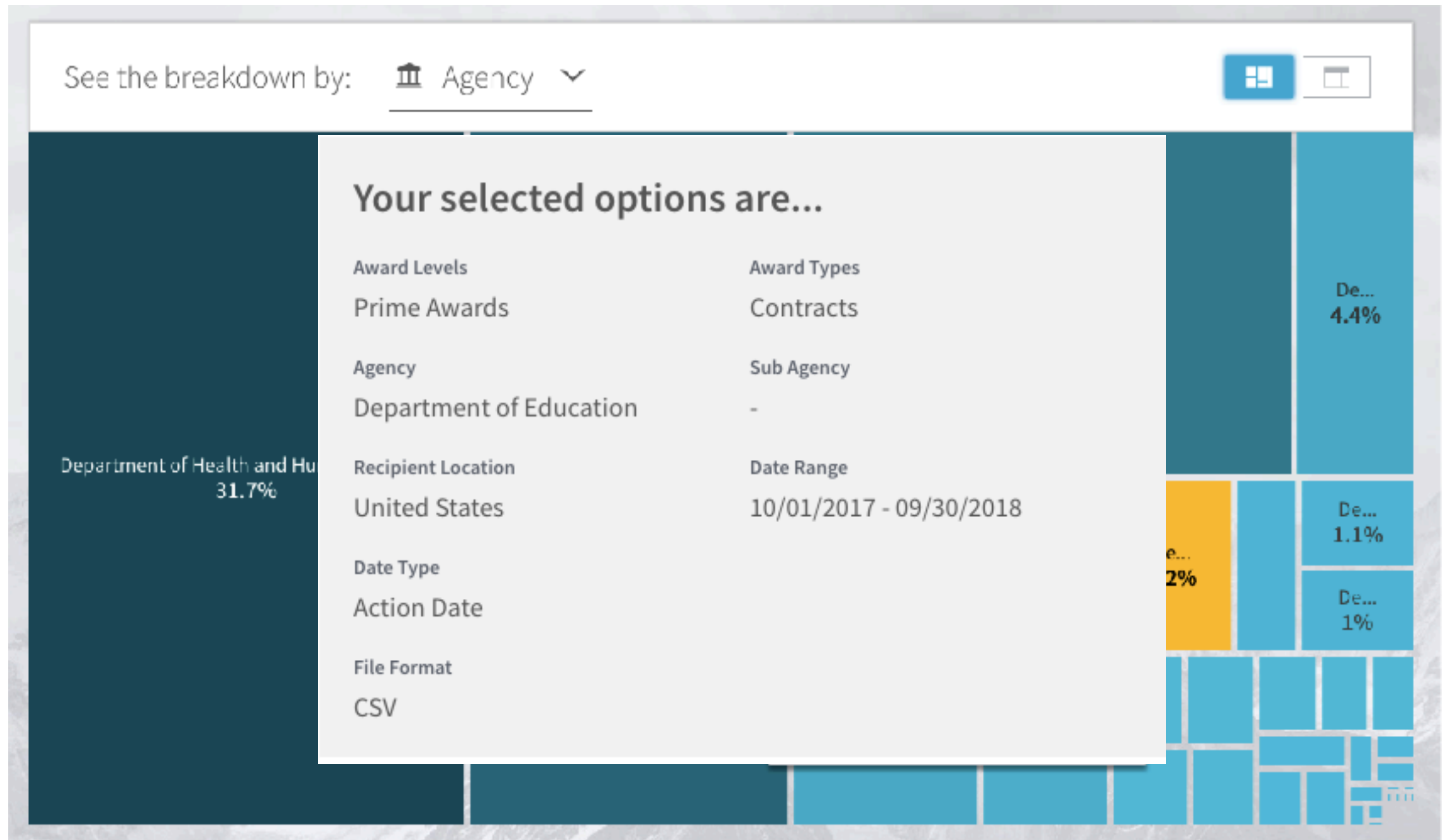
- Dataset: U.S. education budget



What?



What?



What?

- Aim:
 - to help people understand how the education budget is spent:
 - which region?
 - which discipline?

How?



How?

- First step:
 - select data from a huge dataset

9. contracts_prime_transactions_2018

Coauthors:

☐ Live
 ☒ Extract
 | Edit Refresh
 0 | Add

Extract includes all data. 5/13/2018 8:47:37 PM

Acid


contracts_and_sections_2018
Test File

67.

☐ Use Data Interpreter

Data Interpreter might be able to clean your Text File workbook.

- assistance_provisions_2014.csv
- assistance_provisions_2015.csv
- assistance_provisions_2016.csv
- assistance_provisions_2017.csv
- assistance_provisions_2018.csv
- contracts_provisions_2014.csv
- contracts_provisions_2015.csv
- contracts_provisions_2016.csv
- contracts_provisions_2017.csv
- contracts_provisions_2018.csv



```
contracts, prime_transactions, ...
```

Sort fields Data source order

Abr: contract_bu_pricing_instructions...	Abr: contract_bu_pricing...
Award Id Pild	Modification
EDOCR14P0041	0
EDESA09Q0063	21
EDESA13Q0013	6
04	SYS2
EDESA14Q0069	0
0013	3
0001	1
EDOCR14Q0018	0
EDESA10D00121000...	6
04	SYS1
0001	19
0002	3
EDESA14Q0057	1

contracts_prime_transactions_2018.csv+

Specific (manual)

Wildcard (automatic)

Connection: contracts_prime_transactions_2018

- contracts_prime_transactions_2014.csv
- contracts_prime_transactions_2015.csv
- contracts_prime_transactions_2016.csv
- contracts_prime_transactions_2017.csv
- contracts_prime_transactions_2018.csv

Tables in union: 5

Apply

☐ Show aliases ☐ Show hidden fields 1,000 rows

Contract Name	Ah: contracts_prime_transactions... Parent Award Id	Ah: contracts_prime_transactions... Parent Award Mod...	# contracts_prime_transactions... Federal Action Obl...
ACQUISITION...	GS10F0040K	0	153,05
ACQUISITION...	GS35F0307M	P00020ADDRESSCHG	112,02
MENT OF ED...	EDIES13D0003	0	17,05
NAL INSTITUT...	HHSN316P01200120...	0	5,708,31
TRIMENT OF ED...	EDPSA09D0014	0	5,355,94
TRIMENT OF ED...	EDC1014A0005	0	
NAL ACQUISITION...	GS02F0141R	4	24,95
TRIMENT OF ED...	EDPSA10D0012	0	
TRIMENT OF ED...	EDIES13D0003	0	-17,05
ATION, DEPART...	EDPSA13D0003	0	
TRIMENT OF ED...	EDC1012A0007	2	
NAL ACQUISITION...	GS22F9614D	0	12,55

Data Source

Sheet 1

Street 2

Sheet 3

1.41

 Γ^+ Γ_+

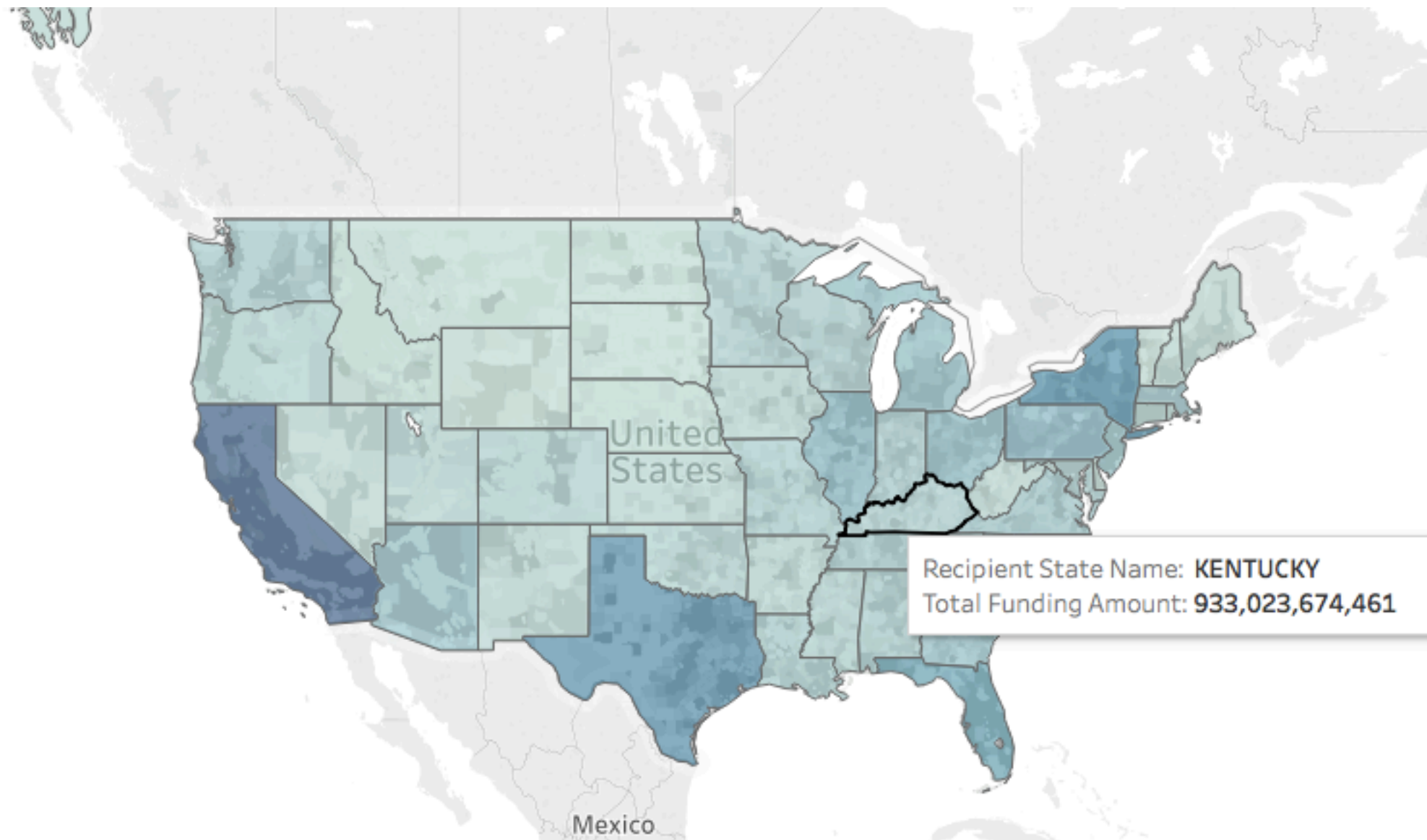
 Fanlin Wang

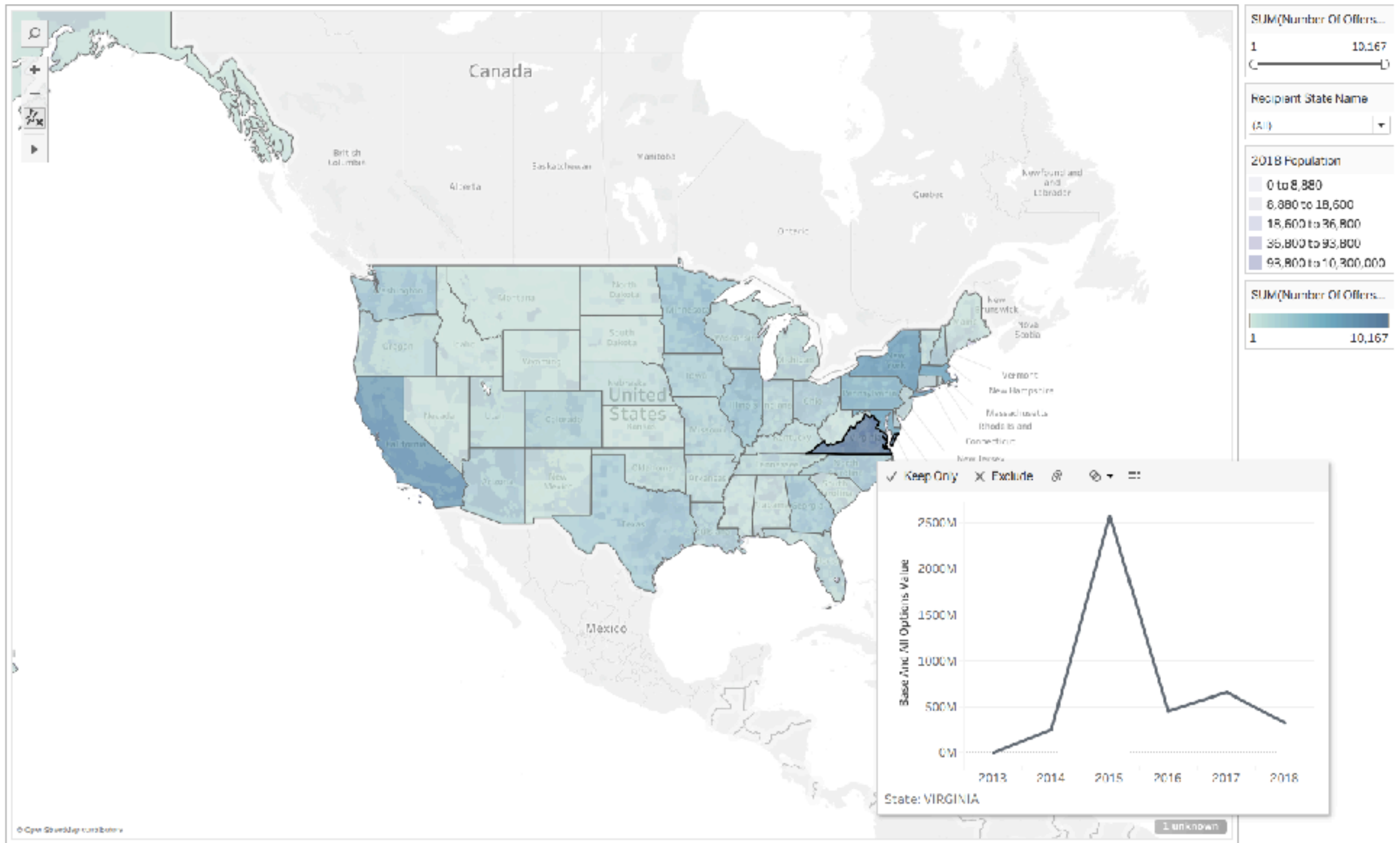
4433

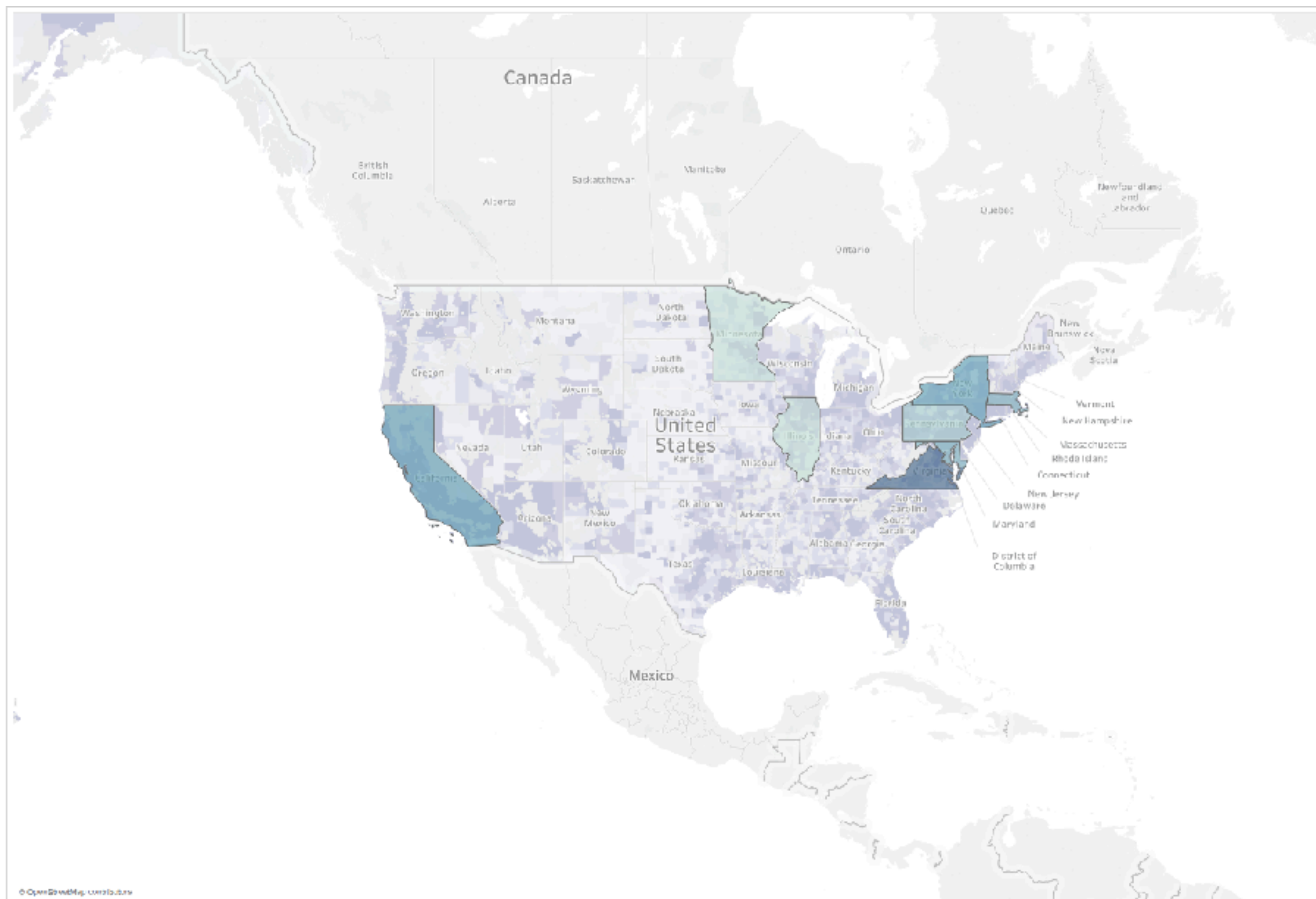
How?

- Visual encoding methods
 - Choropleth Map
 - Box-and-whisker plot
- Interaction techniques:
 - Filtering
 - Zoom

Choropleth Map







SUM(Number Of ... 78

2,874 10,157

Recipient State Name

(All)

2018 Population

0 to 8,880

8,880 to 18,600

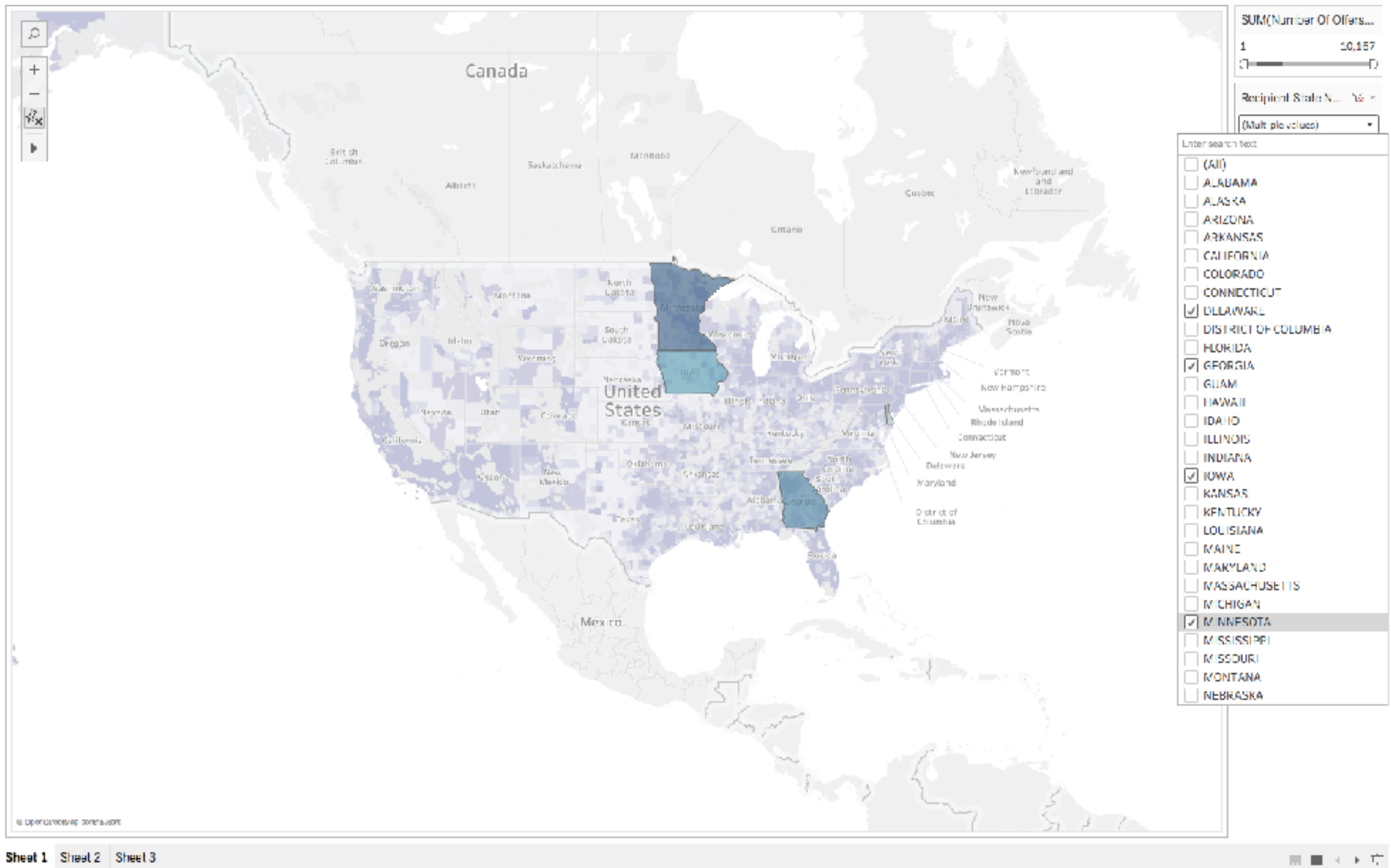
18,600 to 36,800

36,800 to 93,800

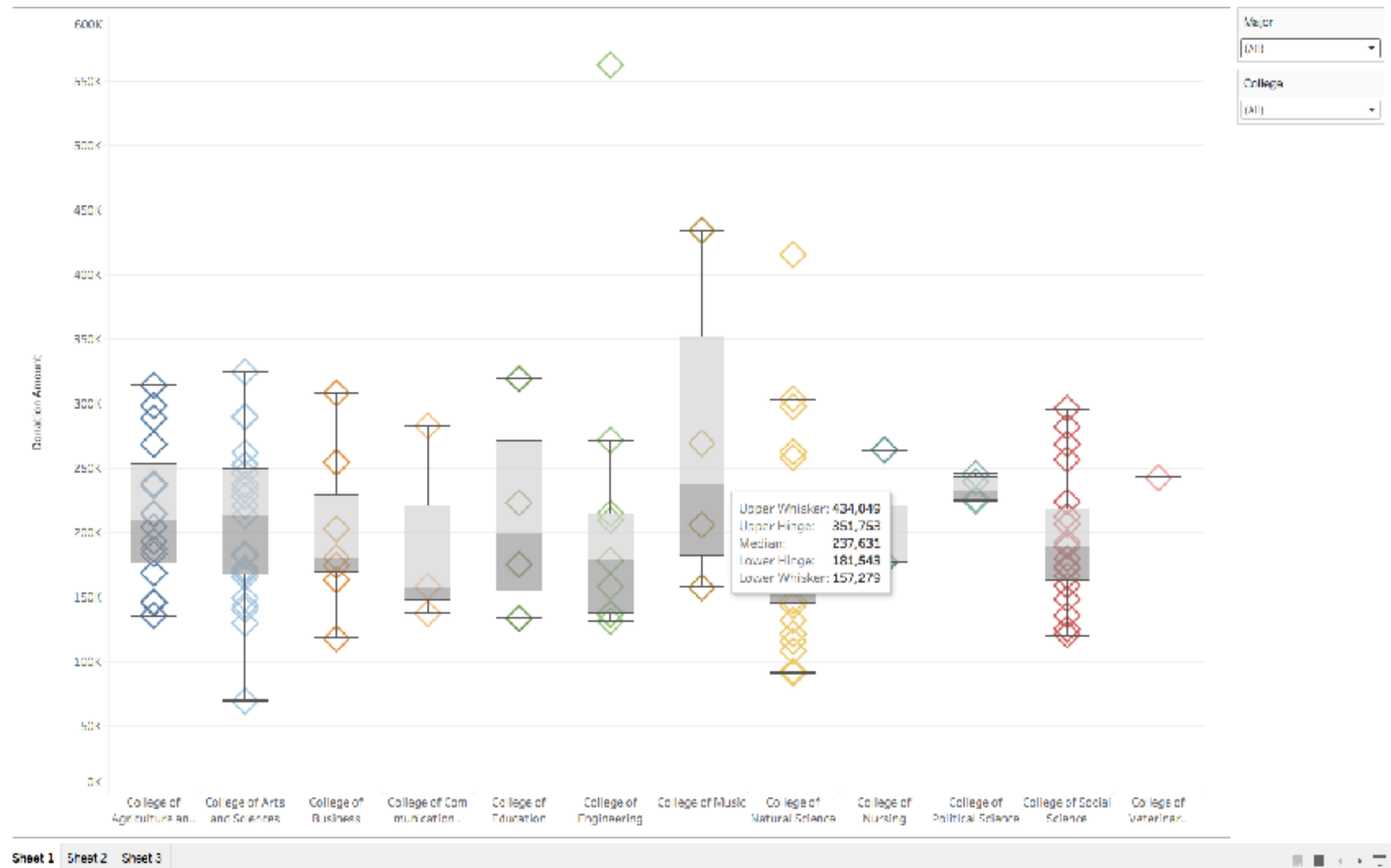
93,800 to 10,300,000

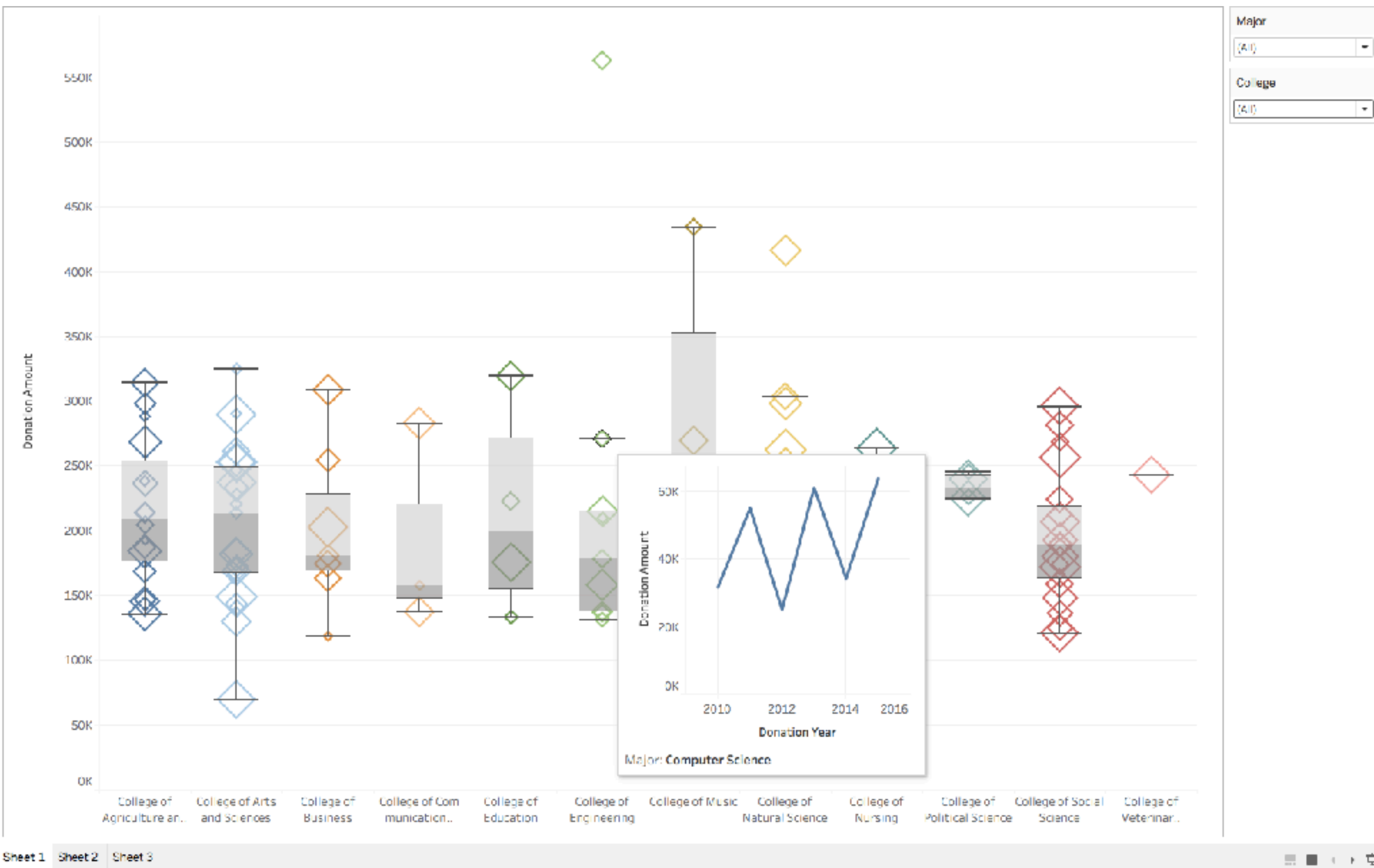
SUM(Number Of Offers...

2.904 10.157

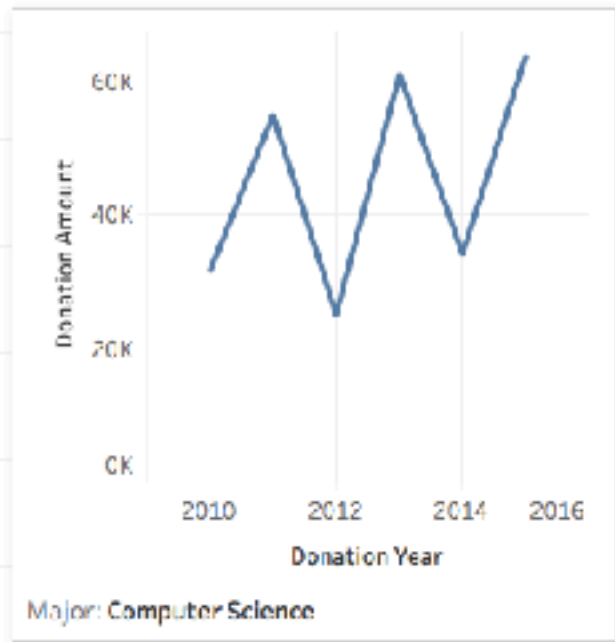
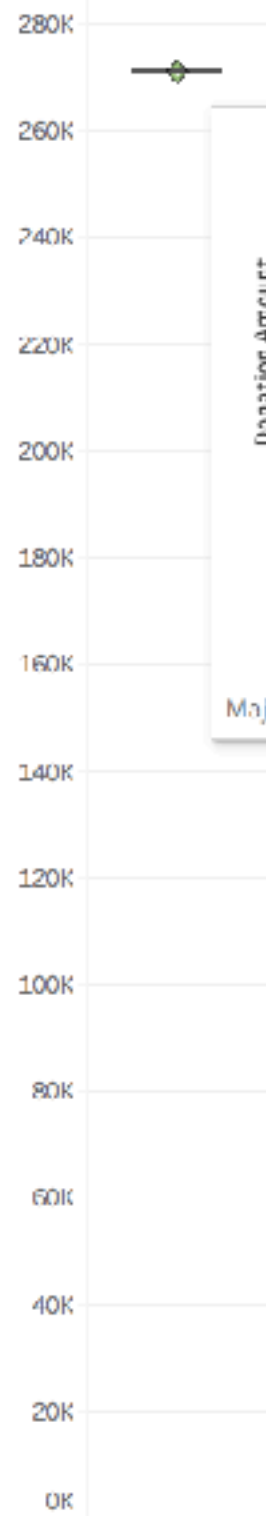


Box-and-whisker plot





Donation Amount



Major

Computer Science

College

(All)

Some results...

**Thank you
for
your attention.**

Reference

- <http://www.storytellingwithdata.com/blog/2018/2/9/education-visualized>
- <https://www.statcan.gc.ca/edu/power-pouvoir/ch12/5214889-eng.htm>
- <https://www.usaspending.gov/#/>
- [https://www.tableau.com/about/blog/2014/12/5-chart-types-youve-never-tried-tableau-35281?
src=liftigniter& widget=blog-
widget&li li medium=blog-widget](https://www.tableau.com/about/blog/2014/12/5-chart-types-youve-never-tried-tableau-35281?src=liftigniter& widget=blog-widget&li li medium=blog-widget)