Name: Chunduri Venkata Surendra   Reg.no: 20BEC0776

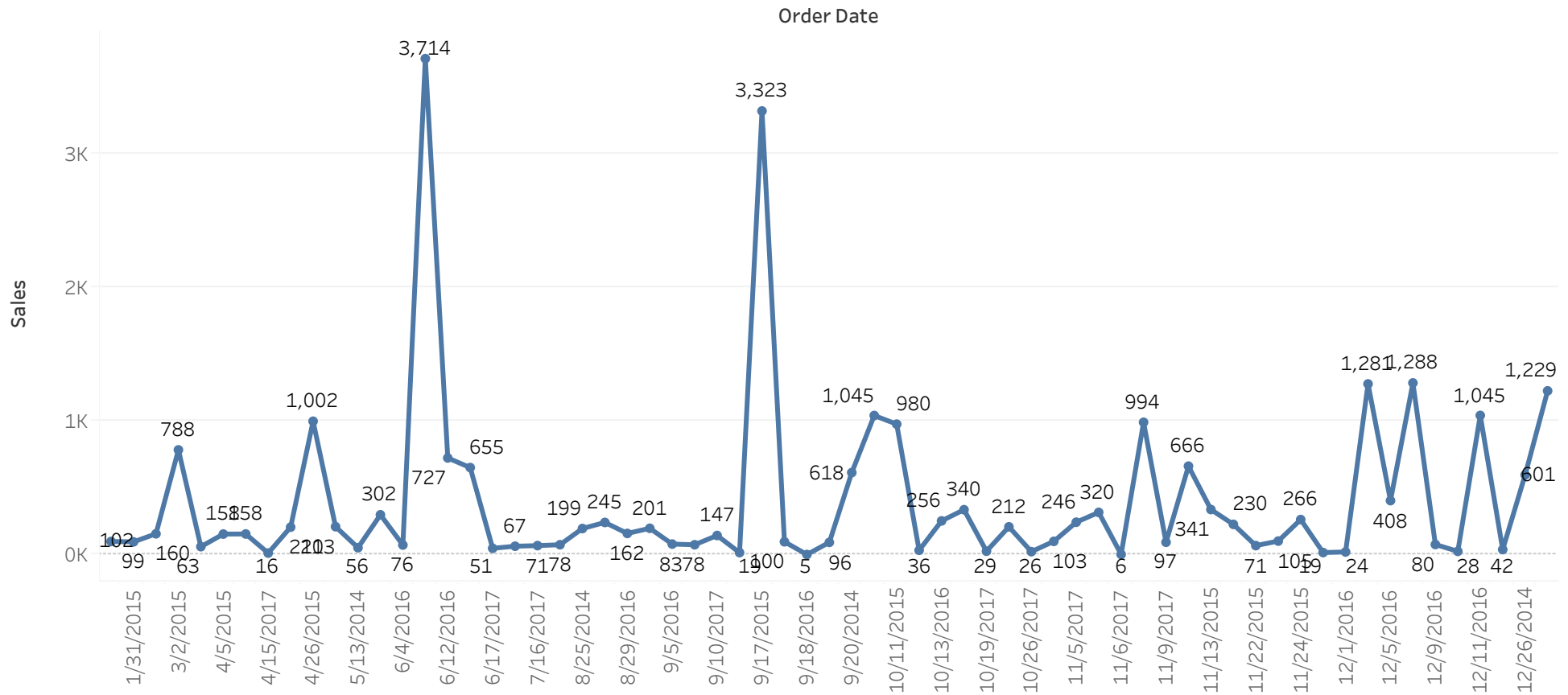# Assignment-2

1) Create any 7 data visualizations/charts and perform the following
2) Apply dimension filter, context and measure filter on any of the three visualizations
3) Perform the following data manipulations on your dataset
   - create a Hierarchy
   - create a set
   - create a group
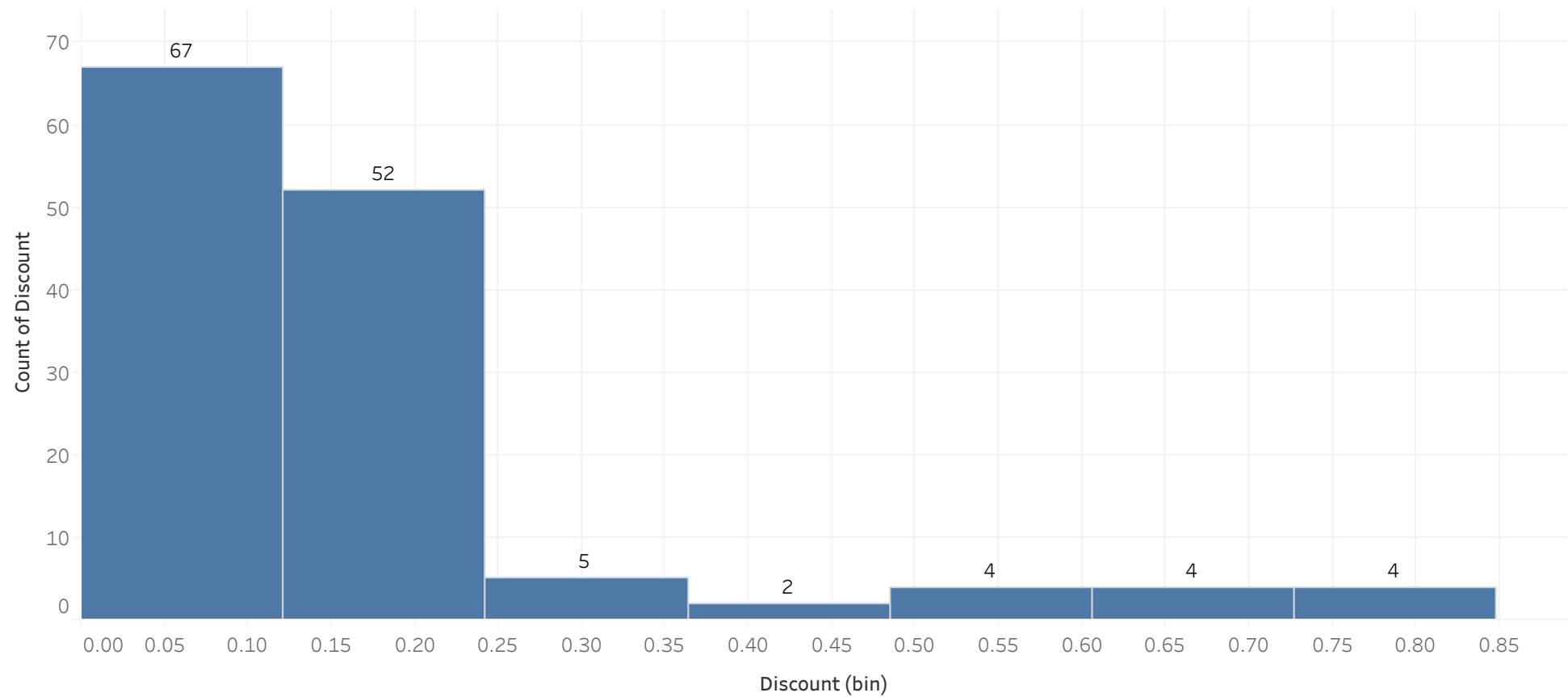
Note : Use 'superstore-sales' dataset

Sum of sales by Order Date
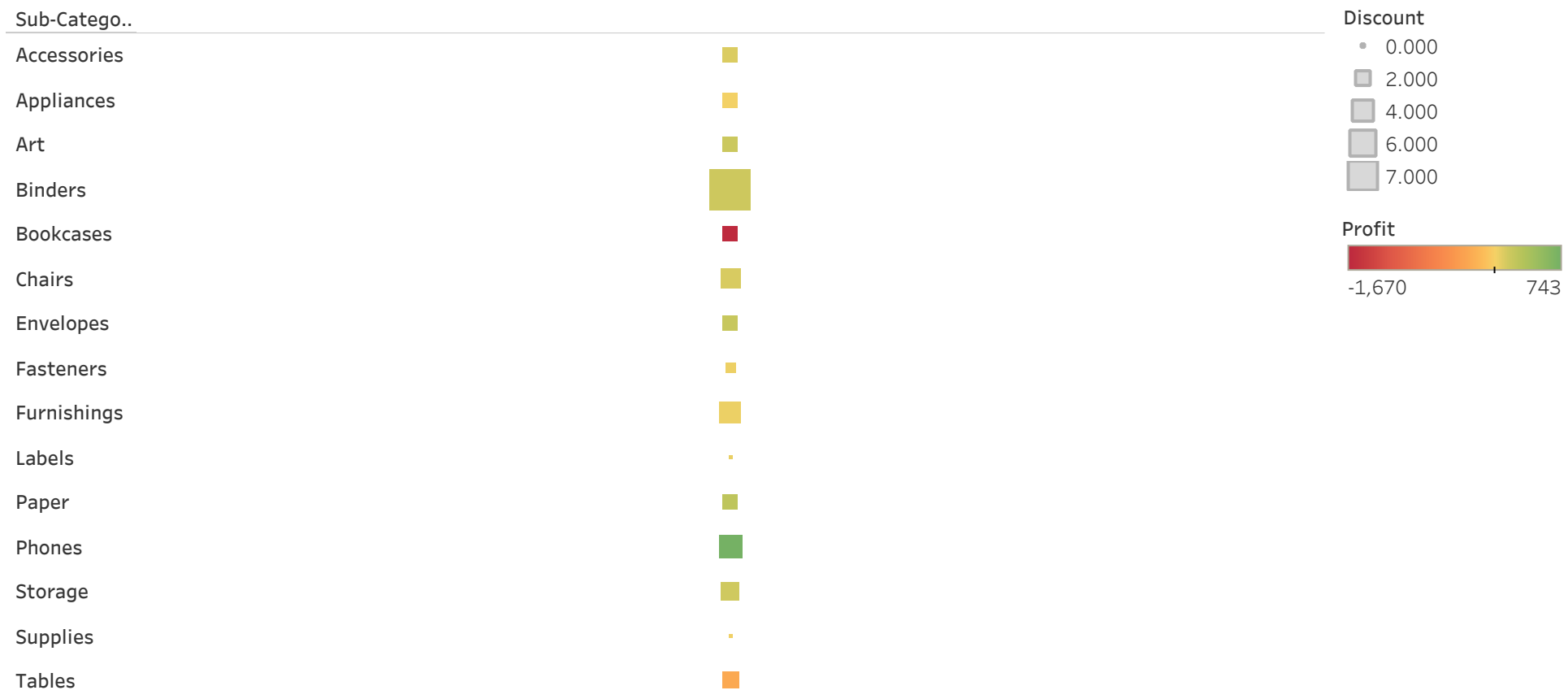## (Line Chart)

Order Date

The trend of sum of Sales for Order Date.

Discount
(Histogram)

The trend of count of Discount for Discount (bin).

Profit & Discount by Sub category
(Heat Map)

Sub-Catego..	
Accessories	
Appliances	
Art	
Binders	
Bookcases	
Chairs	
Envelopes	
Fasteners	
Furnishings	
Labels	
Paper	
Phones	
Storage	
Supplies	
Tables	

Discount

- 0.000
- 2.000
- 4.000
- 6.000
- 7.000

Profit

-1,670   743

Sum of Profit (color) and sum of Discount (size) broken down by Sub-Category.

Sum of Sales by Subcategory
(Bubble Chart)

Sub-Category

- Accessories
- Appliances
- Art
- Binders
- Bookcases
- Chairs
- Envelopes
- Fasteners
- Furnishings
- Labels
- Paper
- Phones
- Storage
- Supplies
- Tables
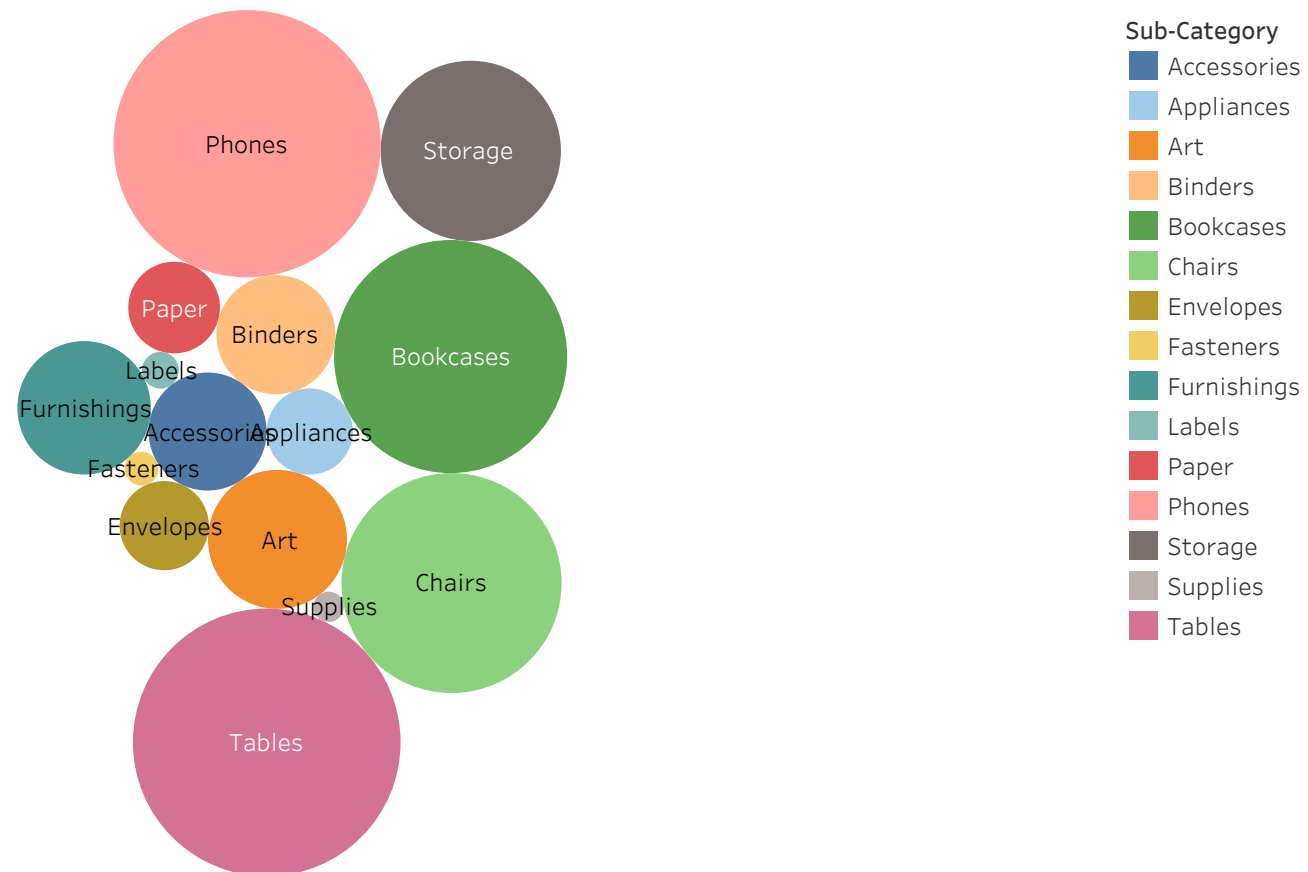
Sub-Category. Color shows details about Sub-Category. Size shows sum of Sales. The marks are labeled by Sub-Category.

Quantity & Sales by State
(Box & Whisker)
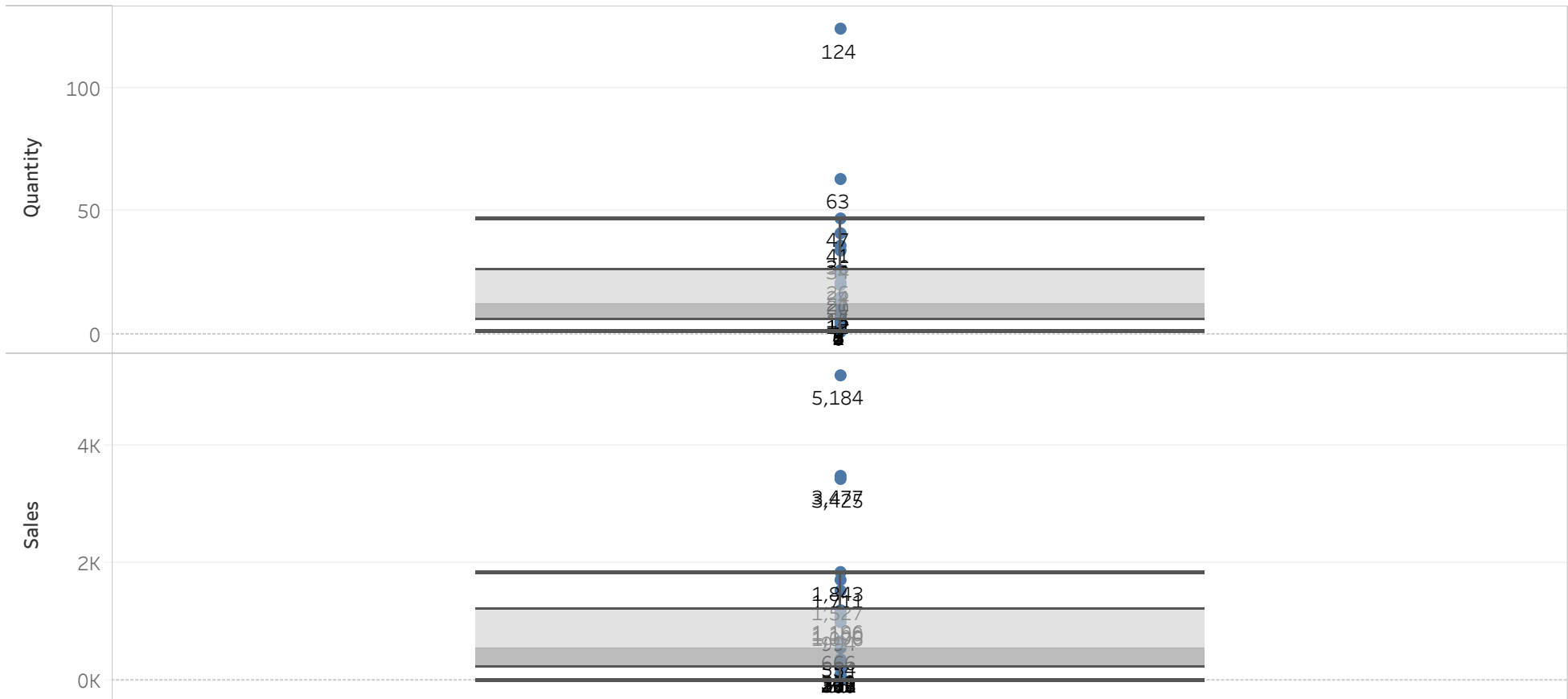
Sum of Quantity and sum of Sales. Details are shown for State.

Quantity by State
(Map)

Quantity
1 ▮▮▮▮▮▮▮▮ 124

Washington	6
Oregon	1
California	124
Utah	5
Arizona	21
Colorado	9
Texas	63
Minnesota	24
Wisconsin	6
Michigan	7
Nebraska	14
Iowa	8
Illinois	36
Indiana	15
Ohio	41
Pennsylvania	26
New York	47
MD	34
Virginia	2
Kentucky	5
Tennessee	12
North Carolina	20
South Carolina	2
Alabama	4
Florida	9

© 2023 Mapbox © OpenStreetMap
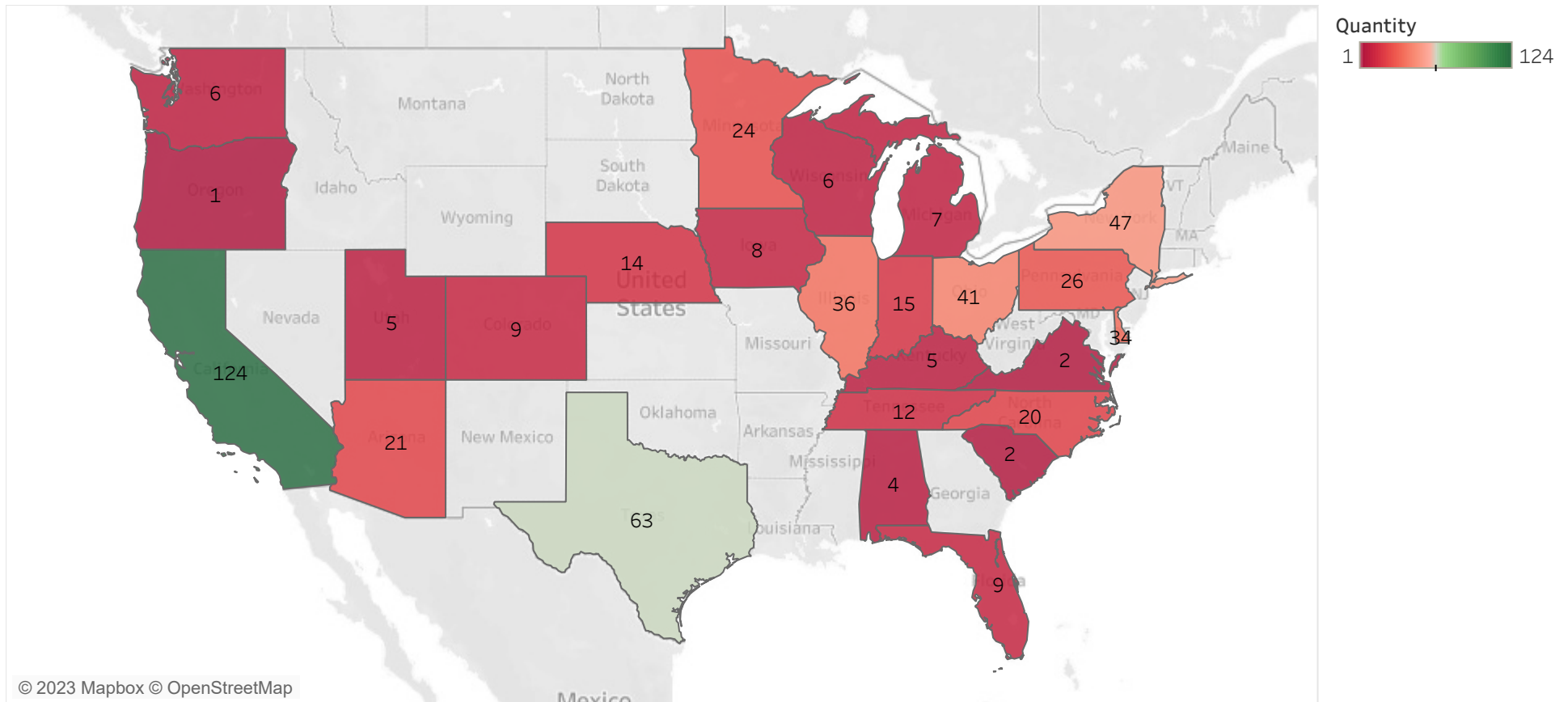
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Quantity. Details are shown for Country and State.

Ship Mode by Category
(Highlight Table)

| Category	Ship Mode	Sales
Furniture	First Class	557
	Second Class	2,540
	Standard Class	10,620
Office Supplies	First Class	1,406
	Second Class	801
	Standard Class	4,441
Technology	First Class	1,302
	Second Class	304
	Standard Class	4,486

Sales

304   10,620

Sum of Sales broken down by Category and Ship Mode. Color shows sum of Sales. The marks are labeled by sum of Sales.

Sum of sales by Selected subcategory
(Dimension Filter)

Sub-Category
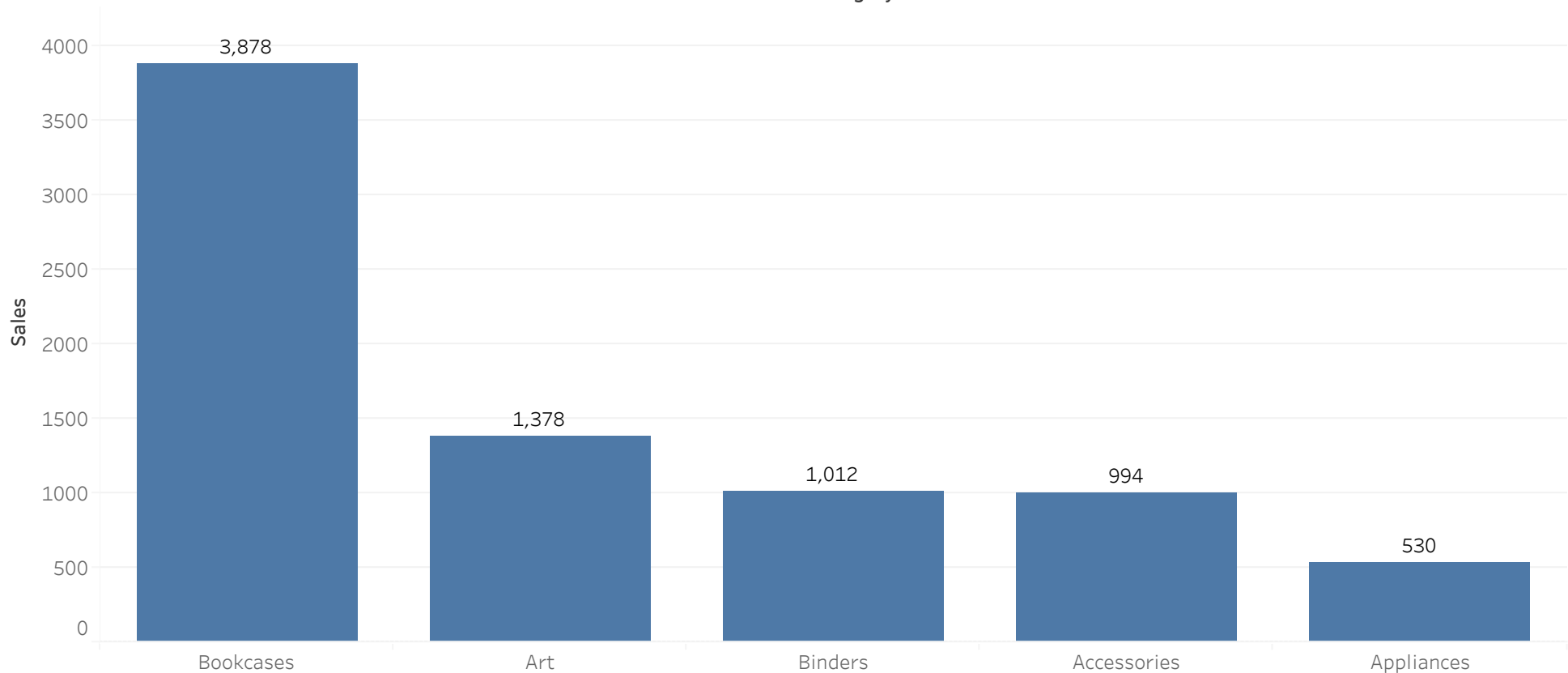
Sum of Sales for each Sub-Category. The view is filtered on Sub-Category, which keeps Accessories, Appliances, Art, Binders and Bookcases.

Context Filtering of Furniture and Technology from Category

Sub-Catego..

Tables	5,114
Phones	5,097
Furnishings	1,272
Chairs	3,454
Bookcases	3,878
Accessories	994
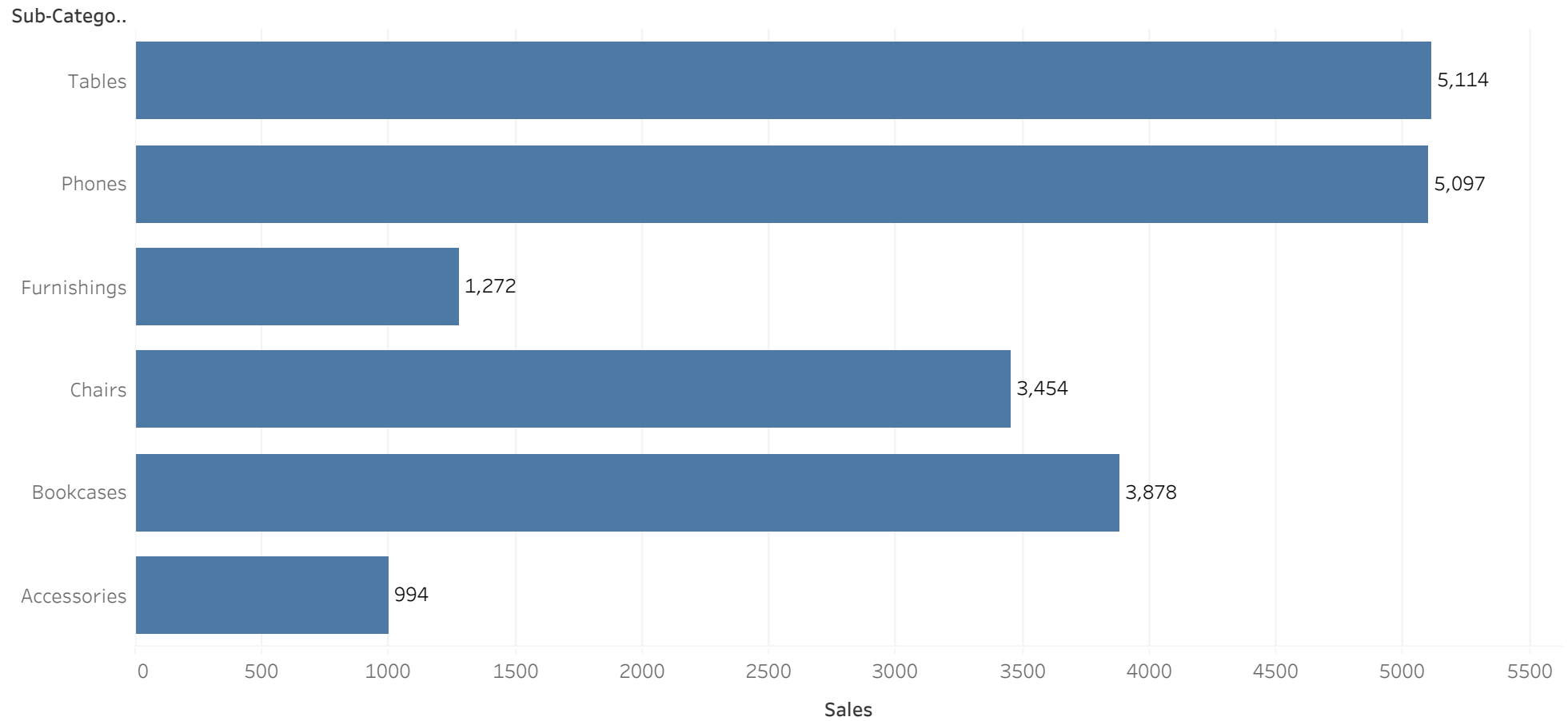
Sales

Sum of Sales for each Sub-Category. The context is filtered on Category, which keeps Furniture and Technology. The view is filtered on Sub-Category, which keeps 6 of 15 members.

Filtering Customers With Sales in b/w 1000 & 2000 using Measure Filter

Customer Name

Customer	Sales
Gene Hale	1,288.5
Brendan Sweed	1,281.0
Steve Nguyen	1,229.0
Janet Molinari	1,045.2
Emily Burns	1,044.6
Joel Eaton	1,021.1

Sales axis: 0, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400
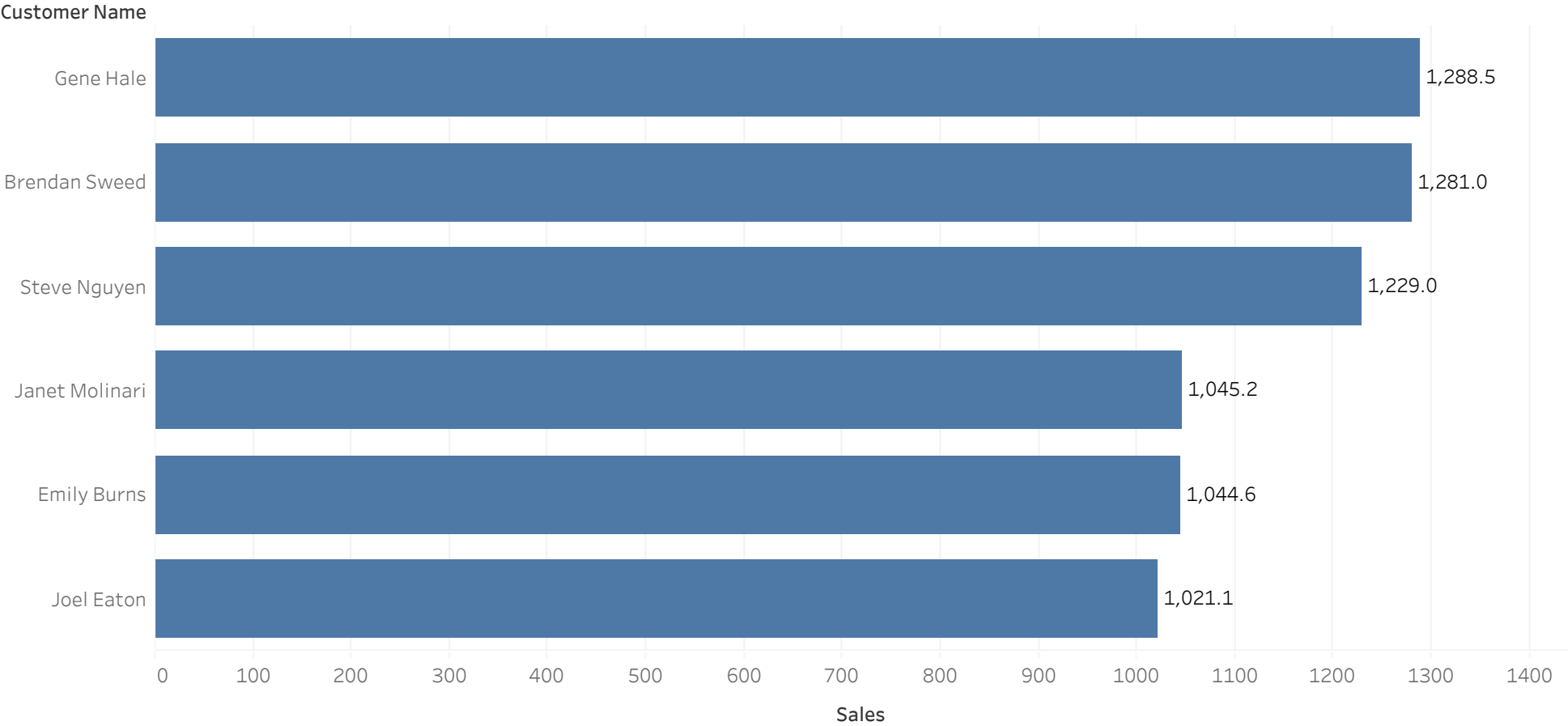
Sales

Sum of Sales for each Customer Name. The view is filtered on sum of Sales, which ranges from 1,000.0 to 2,000.0.

Sales By Country Hierarchy With State,City & Postal Code

Country	State	City	Postal Code	

United States

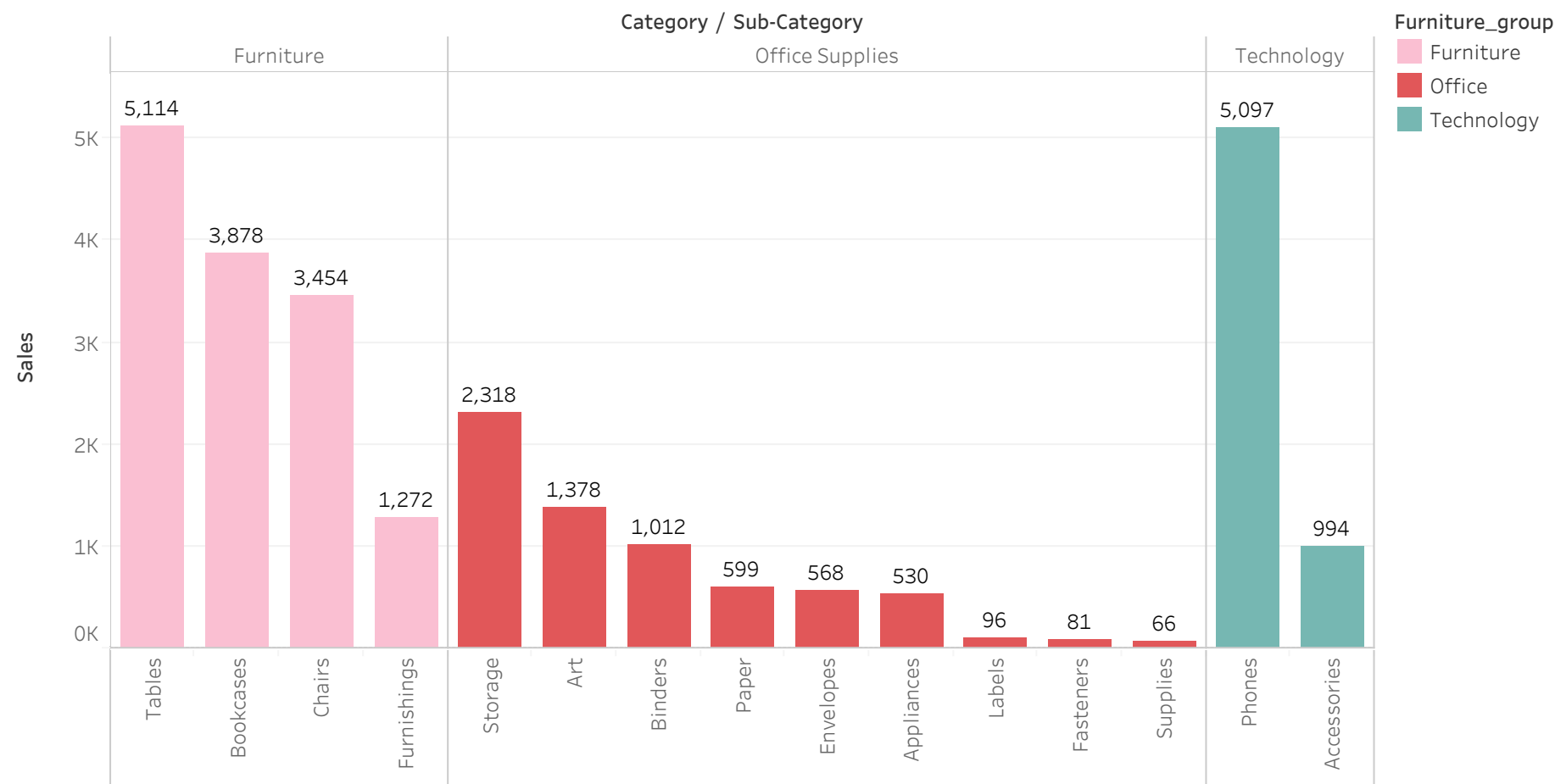| | Alabama | Decatur | 35601 | 220 |
	Arizona	Gilbert	85234	1,281
		Phoenix	85023	
	California	Los Angeles	90004	586
			90032	3,714
			90036	118 130
			90049	
		Roseville	95661	
		San Francisco	94122	88 245
	Colorado	Aurora	80013	
	Delaware	Dover	19901	
		Wilmington	19805	
	Florida	Fort Lauderdale	33311	
		Melbourne	32935	
	Illinois	Bloomington	61701	
			60610	230 376
		Chicago	60623	
		Naperville	60540	
		Orland Park	60462	
	Indiana	New Albany	47150	
	Iowa	Urbandale	50322	
	Kentucky	Henderson	42420	
	Michigan	Jackson	49201	
		Westland	48185	
	Minnesota	Eagan	55122	
		Minneapolis	55407	
		Rochester	55901	
		Saint Paul	55106	
	Nebraska	Fremont	68025	
	New York	New York City	10009	41 101
			10024	1,045
			10035	
		Troy	12180	
	North Carolina	Charlotte	28205	
		Concord	28027	
		Durham	27707	
	Ohio	Columbus	43229	
	Oregon	Portland	97206	
	Pennsylvania	Philadelphia	19140	
	South Carolina	Columbia	29203	
		Bristol	37620	
	Tennessee	Memphis	38109	
	Texas	Fort Worth	76106	
		Houston	77041	19 188
			77070	
		Richardson	75080	
	Utah	Orem	84057	
		West Jordan	84084	
	Virginia	Springfield	22153	
	Washington	Seattle	98103	
	Wisconsin	Madison	53711	

Sales

Sum of Sales for each Postal Code broken down by Country, State and City. The marks are labeled by sum of Sales.

Top 5 states by sum of sales(by creating a Top5 set)

State

In / Out of top_5_State Set
In
Out
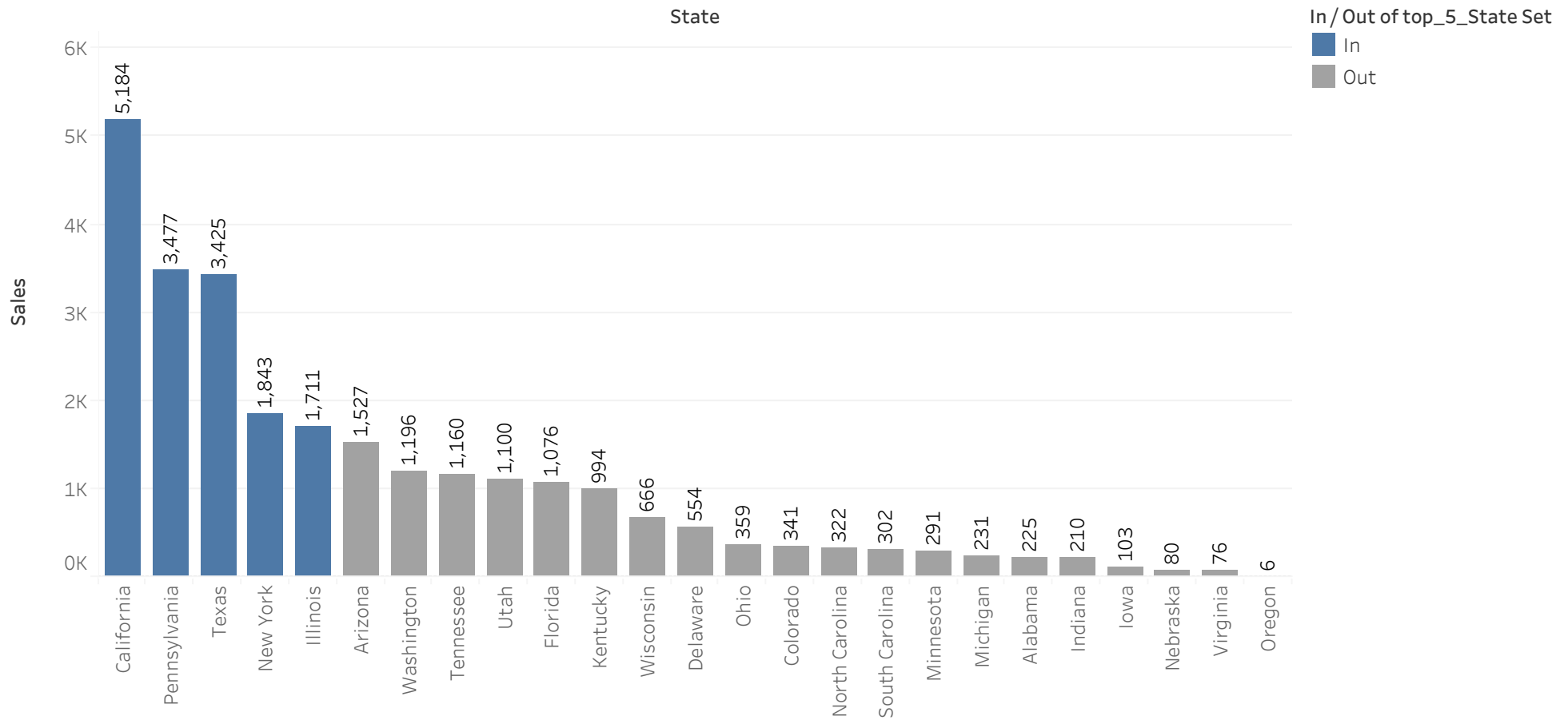
Sum of Sales for each State. Color shows details about In / Out of top_5_State Set.

Grouping Sub categories of a category by Sum of Sales

Category / Sub-Category

| Furniture | Office Supplies | Technology |

Furniture_group
- Furniture
- Office
- Technology

Sum of Sales for each Sub-Category broken down by Category. Color shows details about Furniture_group.