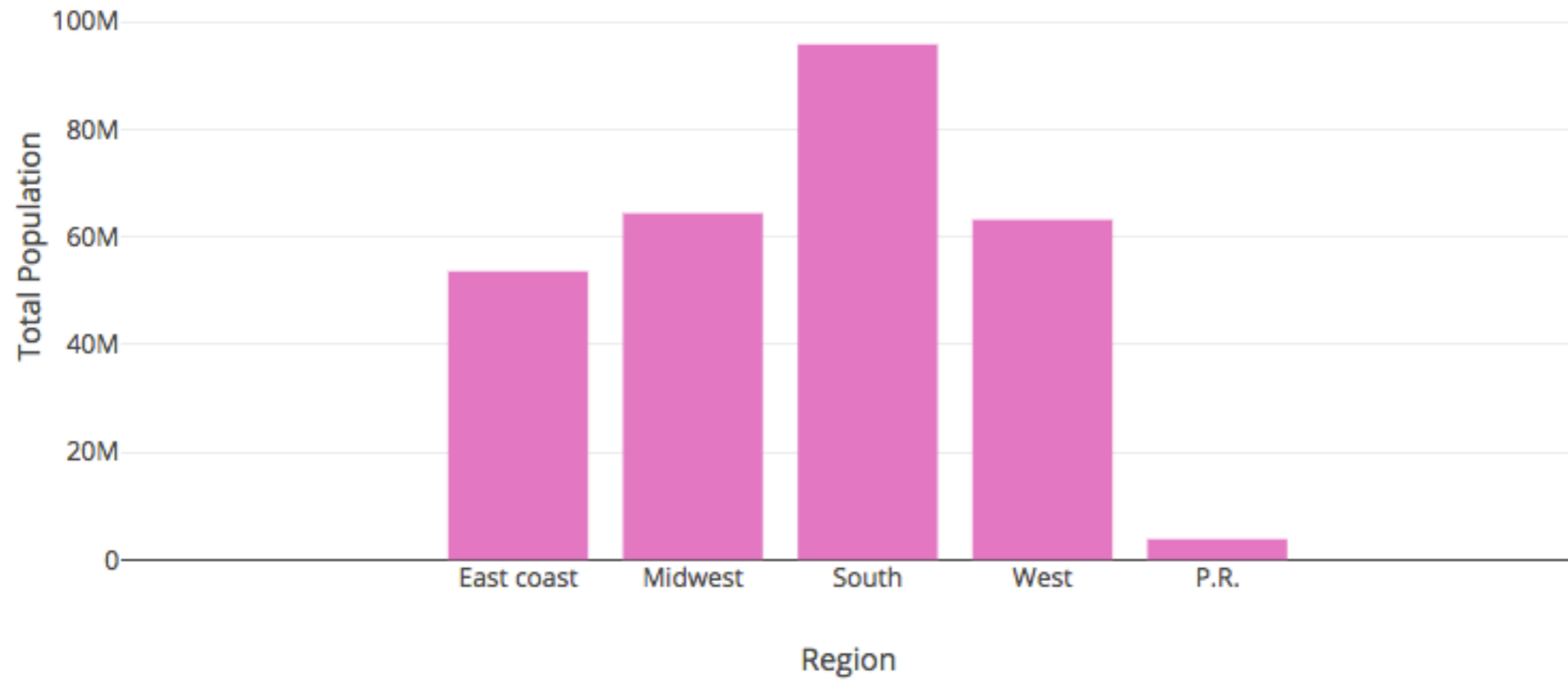


lecture 06: filtering data and 2-D charts

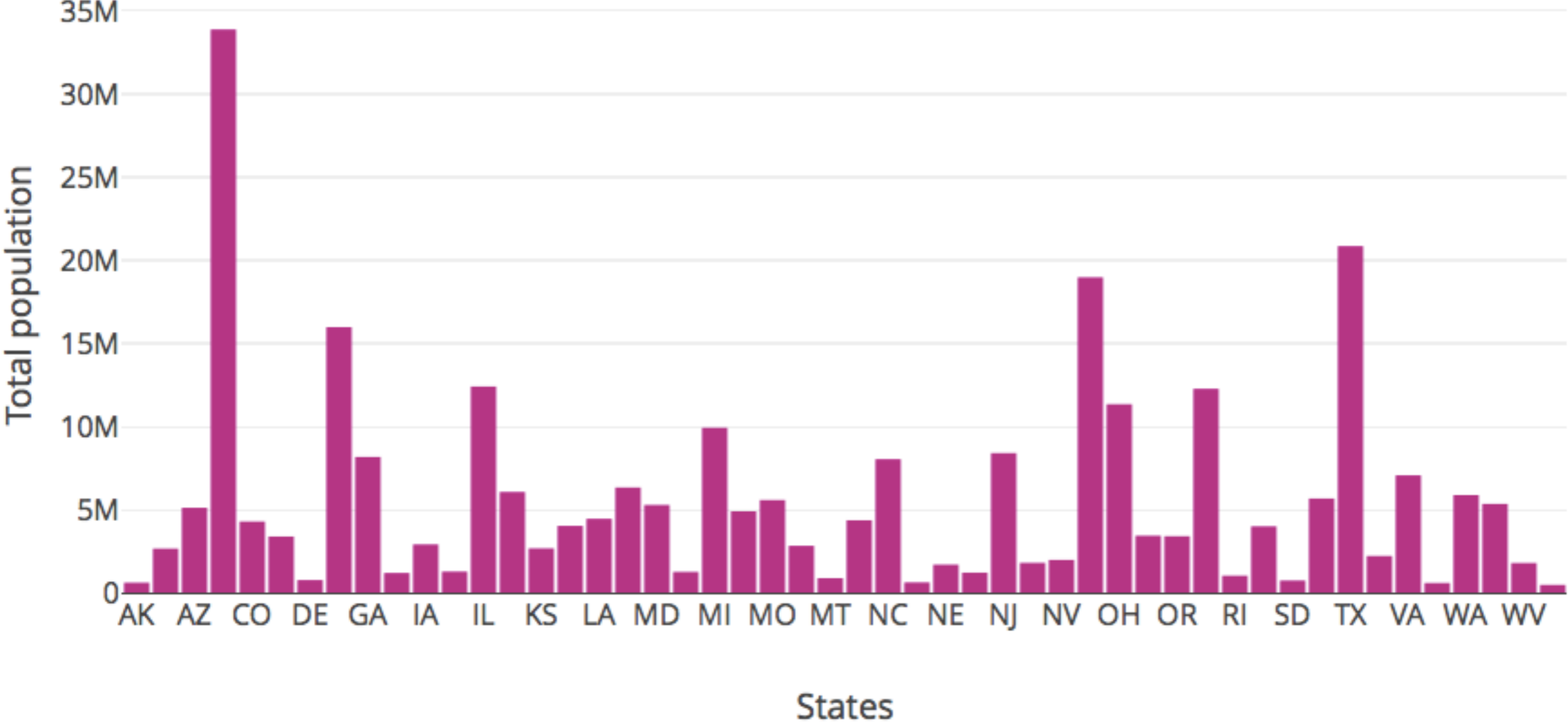
October 2, 2017

Let's start by looking at
some of your #lab2 work!

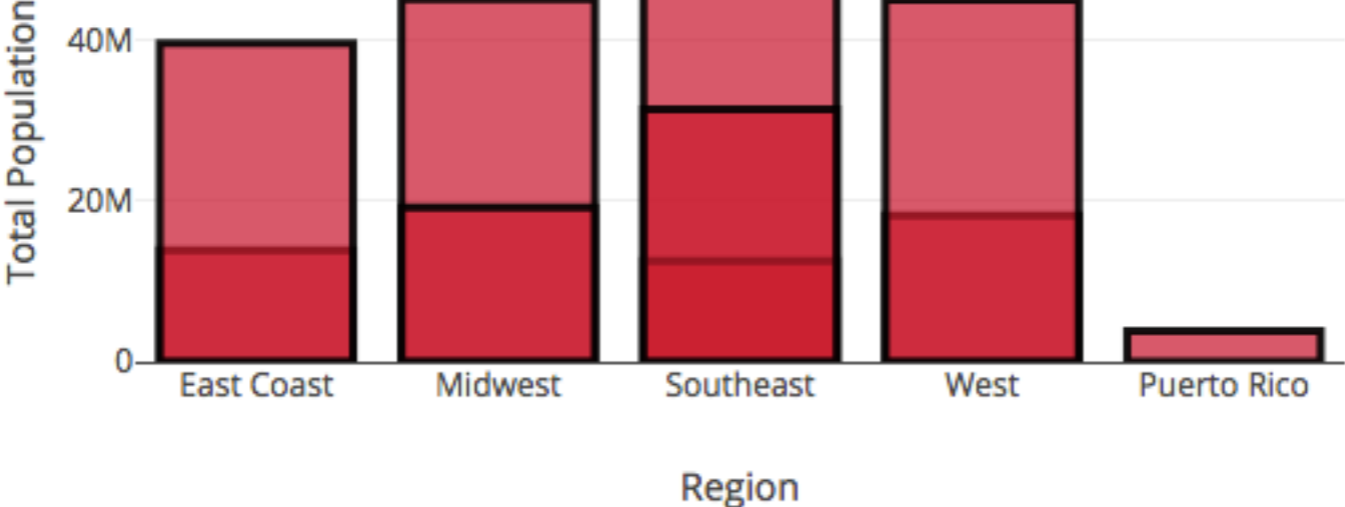
Total Population in Each Region



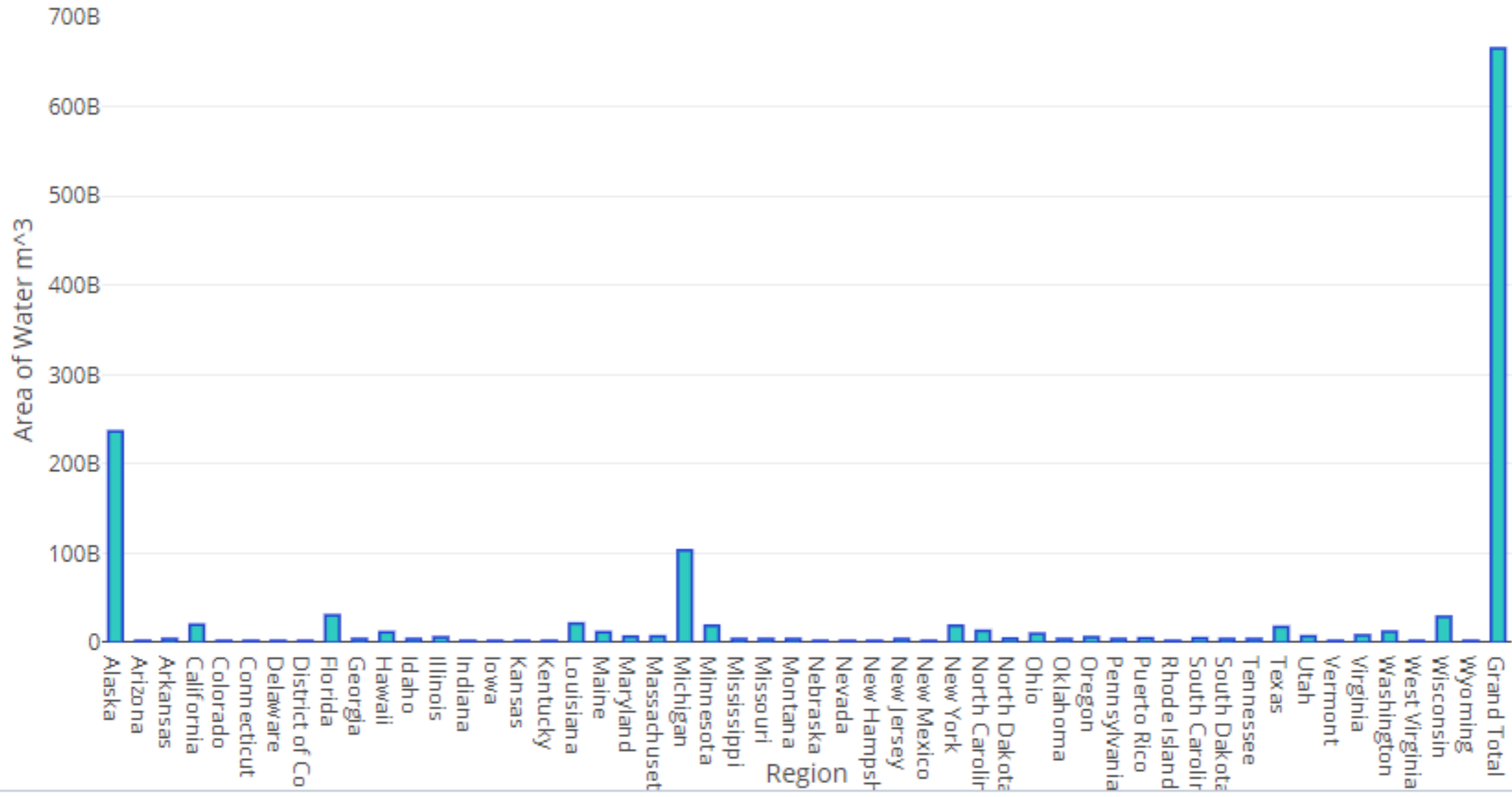
Click to enter Plot title



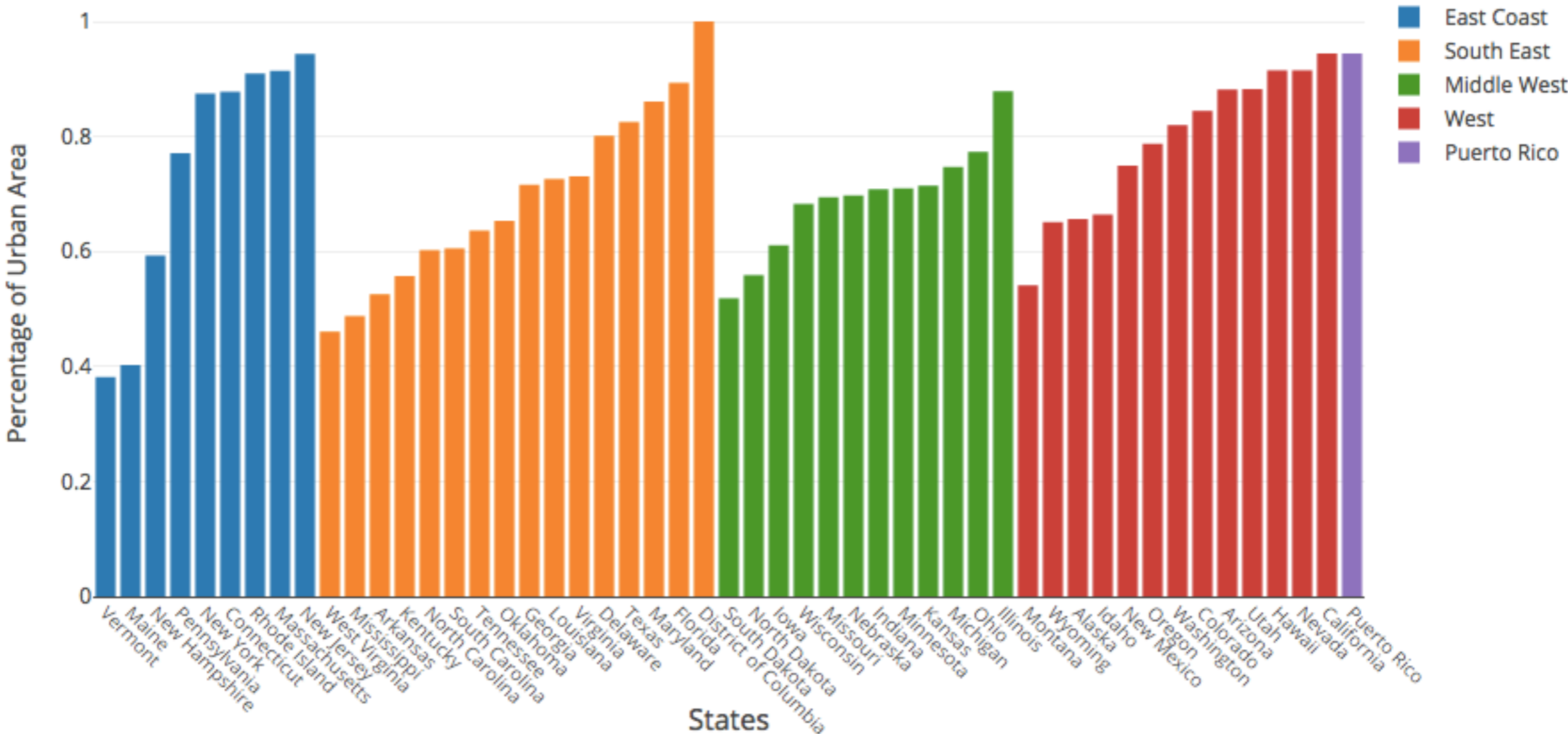
Population Dispersion



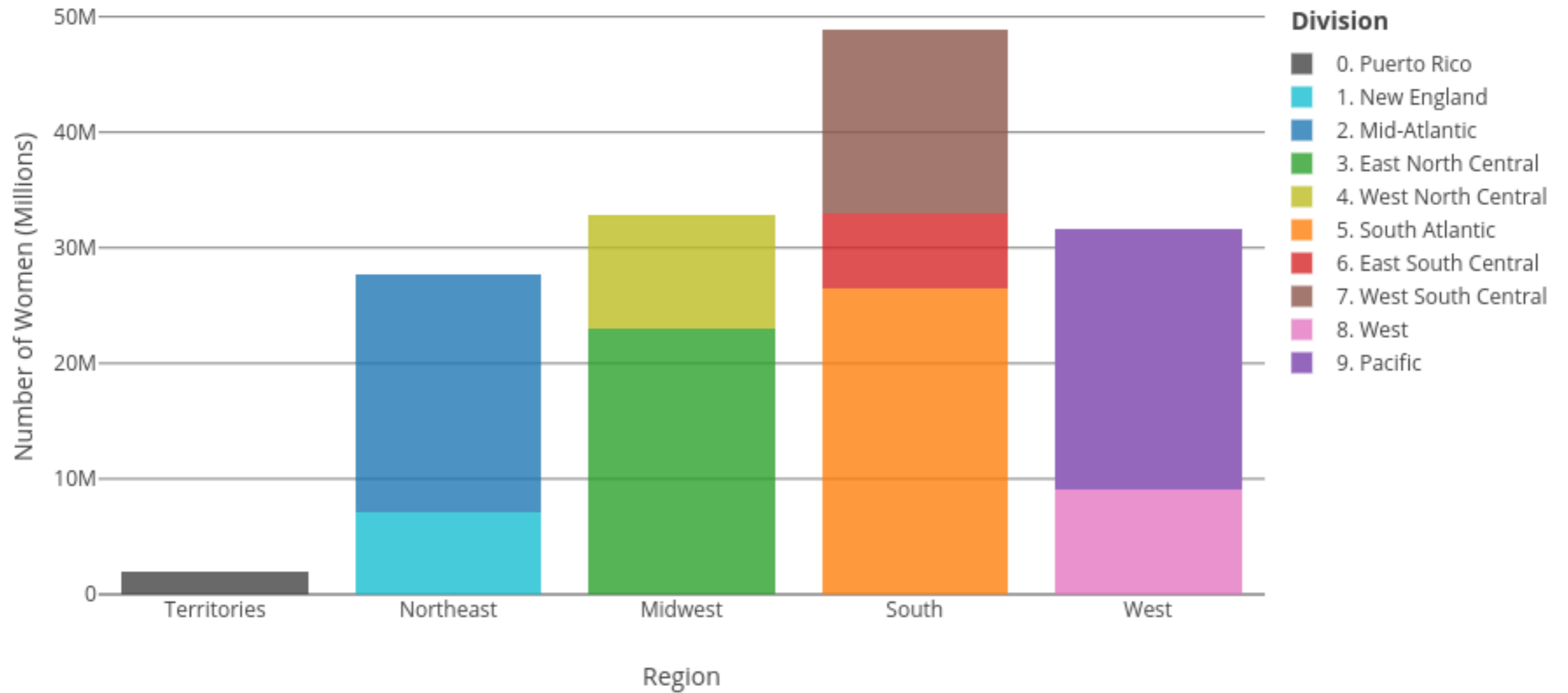
Area of water in each state



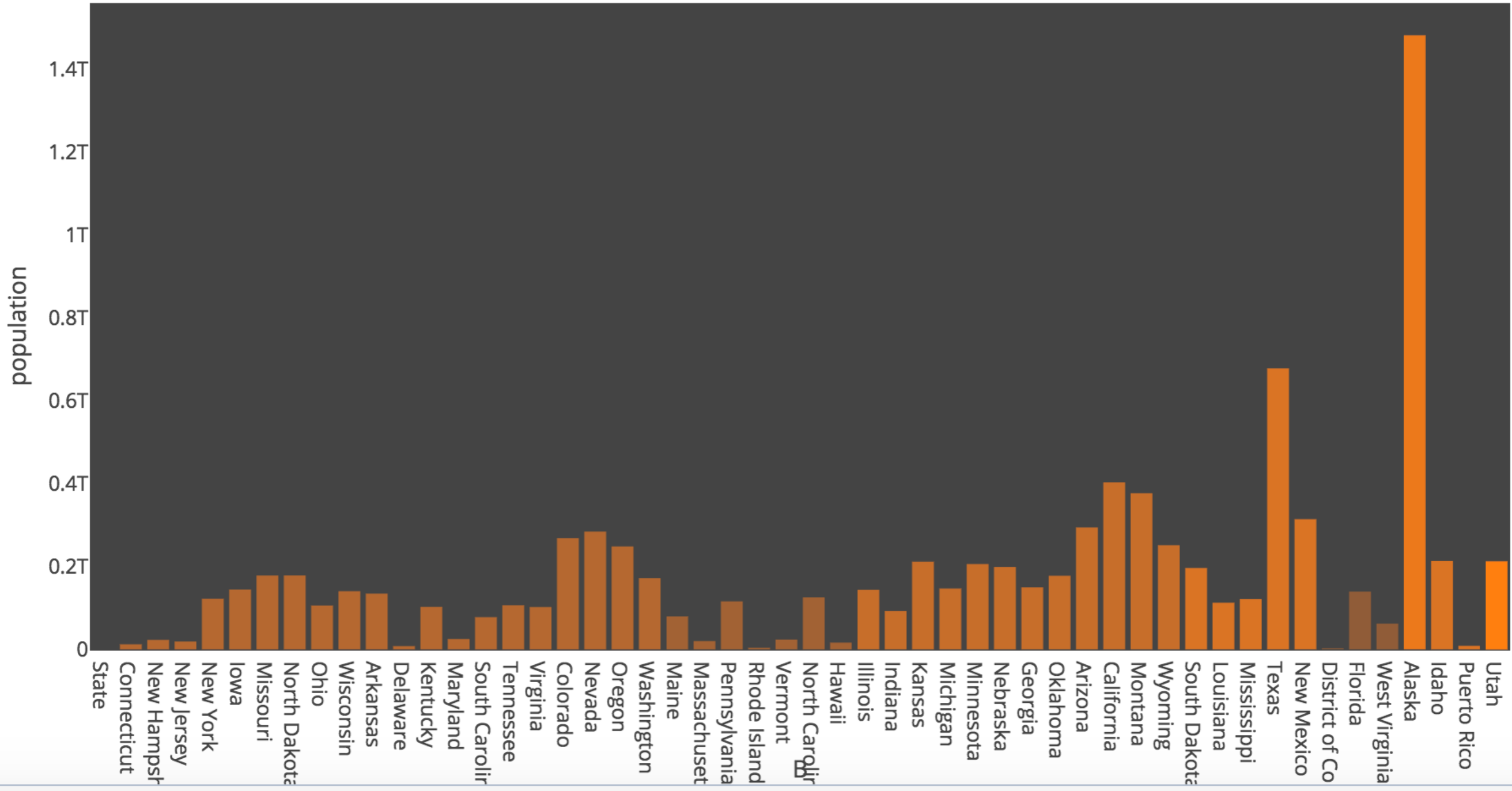
Average Percentage of Urban Area in Each State



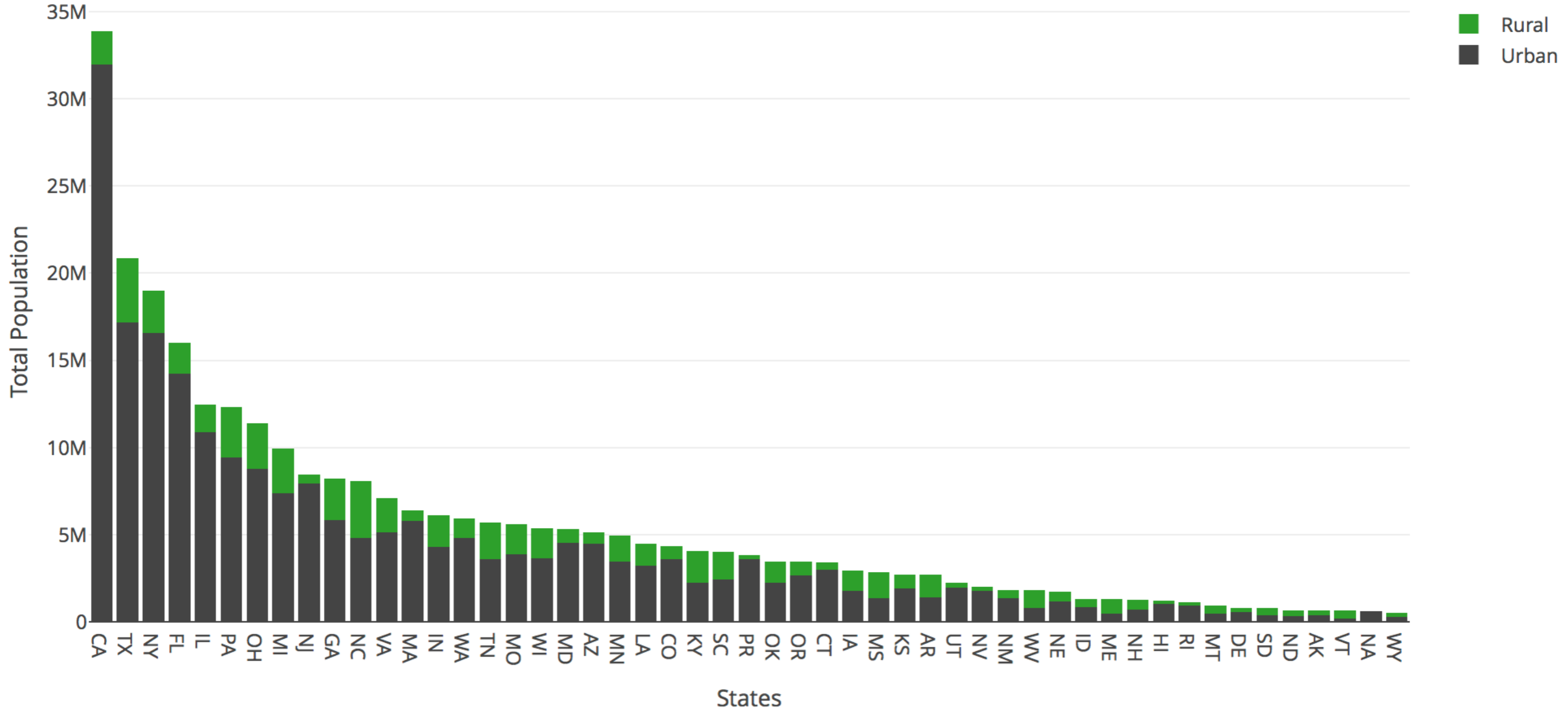
Women in the Regions of the United States



Population VS. State

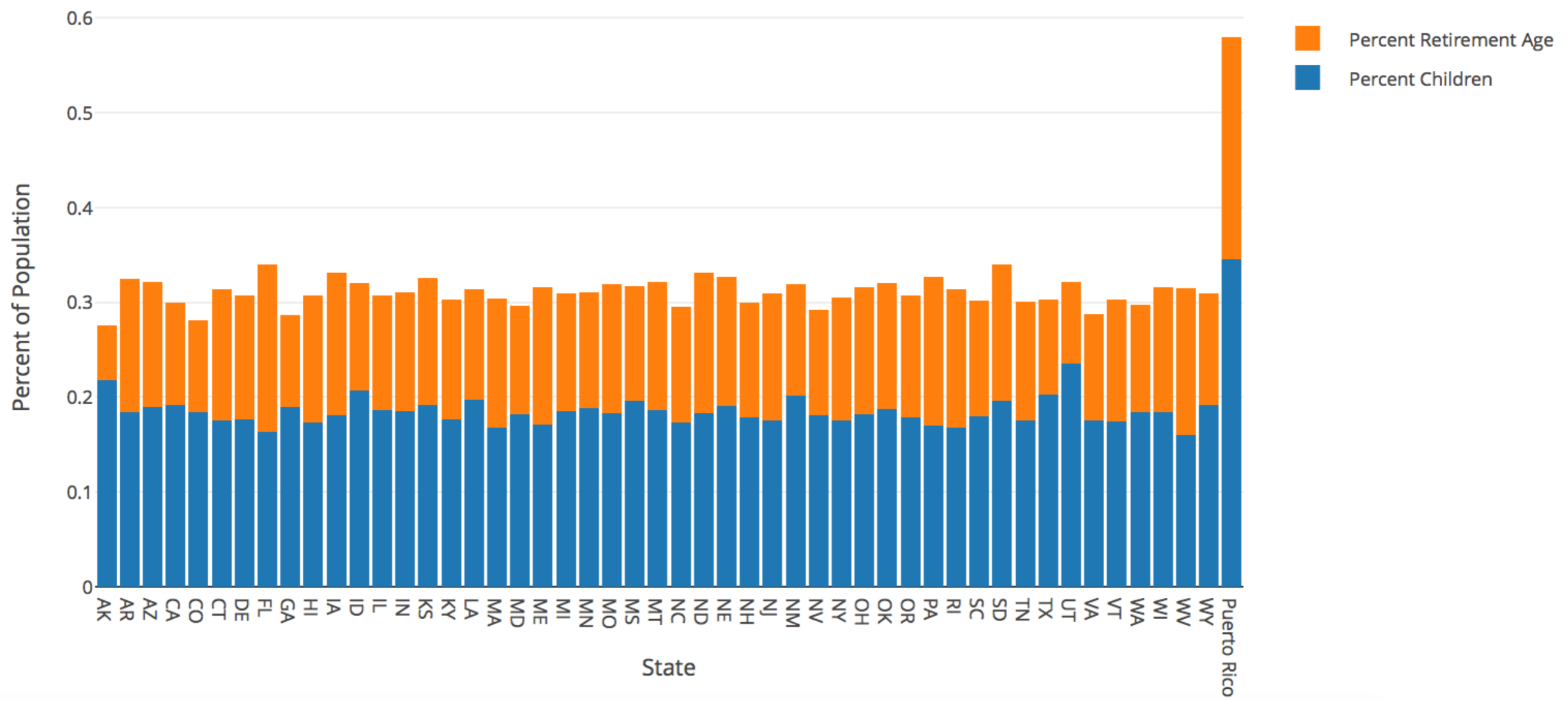


Urban and Rural Population by State





Comparison of Percent Children and Percent Retirement Age per State



Today's data is from Open Food Facts. The dataset is HUGE so I have already filtered it a little for you—I'm giving you data just for the US, with data from the USDA, carbohydrates per 100 grams less than 100, and energy per 100 grams less than 900.

Food data																		
File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive																		
100% \$ % .0 .00 123 Arial 10 B I S A																		
product_name																		
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	product_name	nutrition_grade_f	pnns_groups_1	energy_100g	fat_100g	saturated-fat_100g	monounsaturated-fat_100g	polyunsaturated-fat_100g	trans-fat_100g	carbohydrates_100g	sugars_100g	fiber_100g	proteins_100g	sodium_100g	vitamin-c_100g	calcium_100g	iron_100g	calories_100g
2	Organic Small Red Chili Beans	NA	NA	699	NA	NA	NA	NA	NA	63.89	2.78	44.4	22.22	0.069	0.01	NA	0.0075	NA
3	Organic Shoyu	NA	NA	234	NA	NA	NA	NA	NA	5.56	NA	NA	11.11	5.333	NA	NA	0.003	NA
4	Organic Wheat-Free Tamari	NA	NA	234	NA	NA	NA	NA	NA	5.56	NA	NA	11.11	5.222	NA	NA	0.004	NA
5	Organic Wheat Bran	NA	NA	837	3.33	NA	NA	NA	NA	66.67	NA	40	13.33	NA	NA	0.133	0.0096	NA
6	Fresh Organic Carrots	a	NA	159	0	0	NA	NA	0	8.97	6.41	2.6	1.28	0.077	0.0077	0.026	0.00046	NA
7	Naturally Flavored Beverage Enhancer With Ot	NA	NA	0	0	NA	NA	NA	NA	0	0	NA	0	0.938	NA	NA	NA	NA
8	Chamomile Herbal Tea	NA	NA	0	0	NA	NA	NA	NA	70	NA	NA	0	0.3	NA	NA	NA	NA
9	Herbal Tea, Peppermint	NA	NA	0	0	NA	NA	NA	NA	1.47	NA	NA	0	0.004	NA	NA	NA	NA
10	Linden Flowers Tea	NA	NA	0	0	NA	NA	NA	NA	53.33	NA	NA	0	0	NA	NA	NA	NA
11	Apple & Cinnamon Tea	NA	NA	0	0	NA	NA	NA	NA	60	NA	NA	66.67	0.133	NA	NA	NA	NA
12	Green Tea	NA	NA	0	0	NA	NA	NA	NA	2.67	NA	NA	0	0	NA	NA	NA	NA
13	Shave Grass Herbal Tea	NA	NA	0	0	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
14	Herbal Tea, Chamomile * Mint	NA	NA	0	0	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
15	Artichoke Herbal Tea	NA	NA	0	0	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
16	Dieter's Herbal Tea	NA	NA	0	0	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
17	Kidneytea, Herbal Tea	NA	NA	0	0	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
18	Black Tea	NA	NA	4	0	NA	NA	NA	NA	0.3	NA	NA	0	NA	NA	NA	NA	NA
19	Sweet 'N' Hot Salad Peppers	NA	NA	598	0	NA	NA	NA	NA	32.14	25	NA	0	0.643	0.0129	NA	NA	NA
20	Between!, Dental Gum, Natural Cool Mint	NA	NA	837	0	NA	NA	NA	NA	80	NA	NA	0	0.6	0.6	NA	NA	NA
21	Eco-Dent, Between!, Sugar Free Dental Gum, (	NA	NA	837	0	NA	NA	NA	NA	80	NA	NA	0	0.6	0.6	NA	NA	NA
22	Ice Cream, Vanilla	d	NA	883	11.27	7.04	NA	NA	0	22.54	16.9	0	2.82	0.056	0	0.113	0	NA
23	Cornichons	NA	NA	75	0	NA	NA	NA	NA	3.57	NA	NA	0	1.214	NA	NA	NA	NA
24	Too Tarts, Smartchoice, Sugar Free Spray Can	NA	NA	205	0	NA	NA	NA	NA	22.22	0	NA	0	0	1.3333	0	0	NA
25	Sour & Fruity Candy	NA	NA	745	0	NA	NA	NA	NA	44.44	0	NA	0	0	0.6667	0	0	NA
26	Romaine Hearts	a	NA	75	0	0	NA	NA	0	3.53	1.18	2.4	1.18	0.006	0.0247	0.024	0.00085	NA
27	Romaine	a	NA	75	0	0	NA	NA	0	3.53	1.18	2.4	1.18	0.006	0.0247	0.024	0.00085	NA
28	Green Leaf Lettuce	a	NA	75	0	0	NA	NA	0	2.35	1.18	1.2	1.18	0.041	0.0042	0.024	0.00085	NA
29	Fresh Spinach	a	NA	100	0	0	NA	NA	NA	3.53	0	2.4	2.35	0.076	0.0282	0.094	0.00318	NA
30	Cooking Spinach	a	NA	100	0	0	NA	NA	0	3.53	0	2.4	2.35	0.076	0.0056	0.471	0.00318	NA

I'd like you to explore this data using scatterplots and heat maps in Plotly

Scatterplots



Graph

Create

Filter

Group

Style

Analysis

JSON

Export

Save

Share

UPGRADE

[Collapse All](#) [+ Trace](#)

Chart Type

Scatter plot

X: energy_100g

Y: fat_100g

Hover Text: product_name

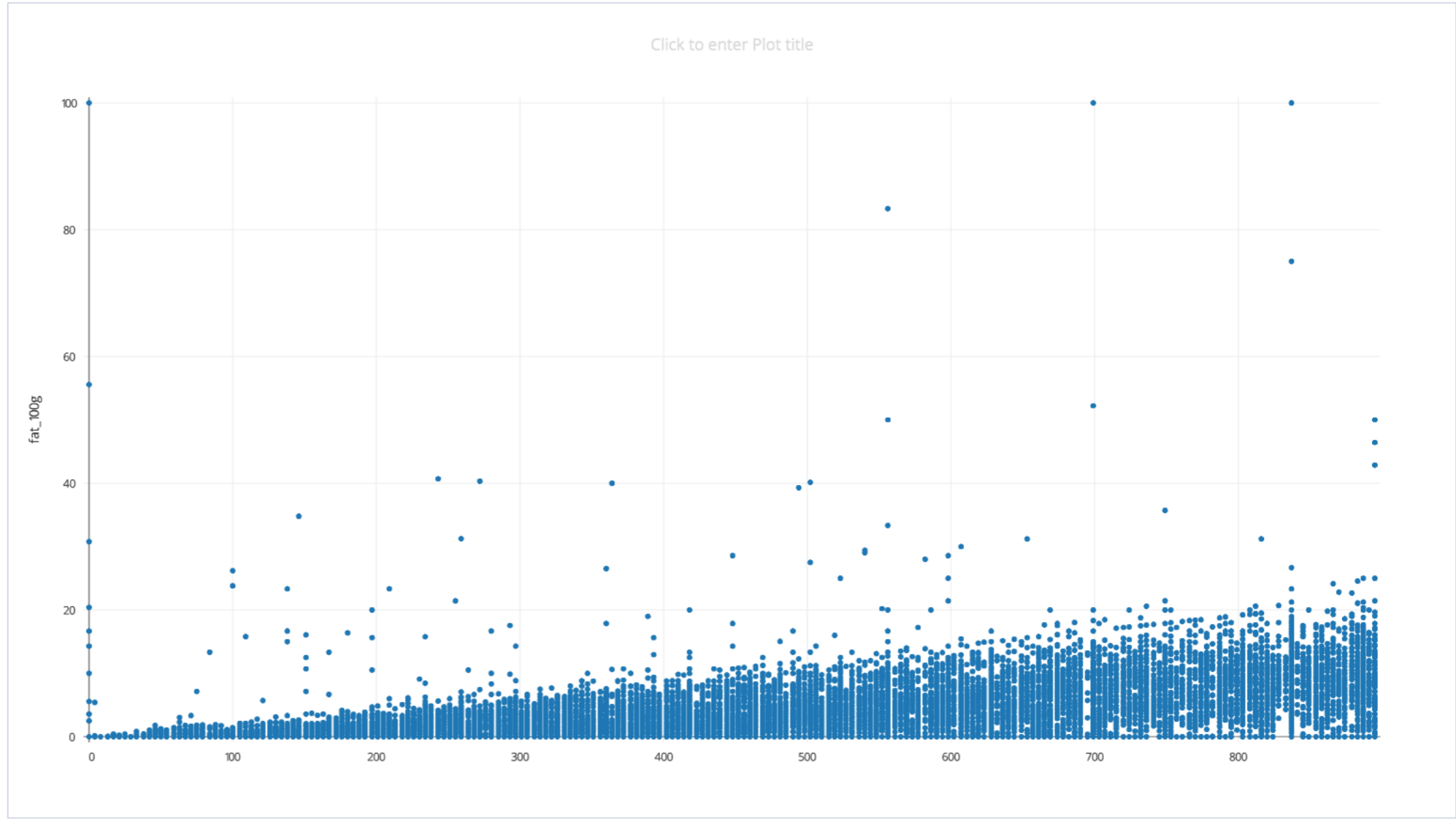
Size: [dropdown]

Color: [dropdown]


Grid 1 Grid 2

Displaying rows 1 - 5,000 (71,007 total)

	product_name	nutrition_grade_fr	pnns_groups_1	energy_100g	fat_100g	saturated-fat_100g	monounsaturated-
1	Organic Small Red Chili Beans	NA	NA	699	NA	NA	NA
2	Organic Shoyu	NA	NA	234	NA	NA	NA
3	Organic Wheat-Free Tamari	NA	NA	234	NA	NA	NA
4	Organic Wheat Bran	NA	NA	837	3.33	NA	NA



One way to filter

 Collapse All [+ Filter](#)

Filtering on energy_...

Traces To Filter:

Operator: Inequality

X: > 0

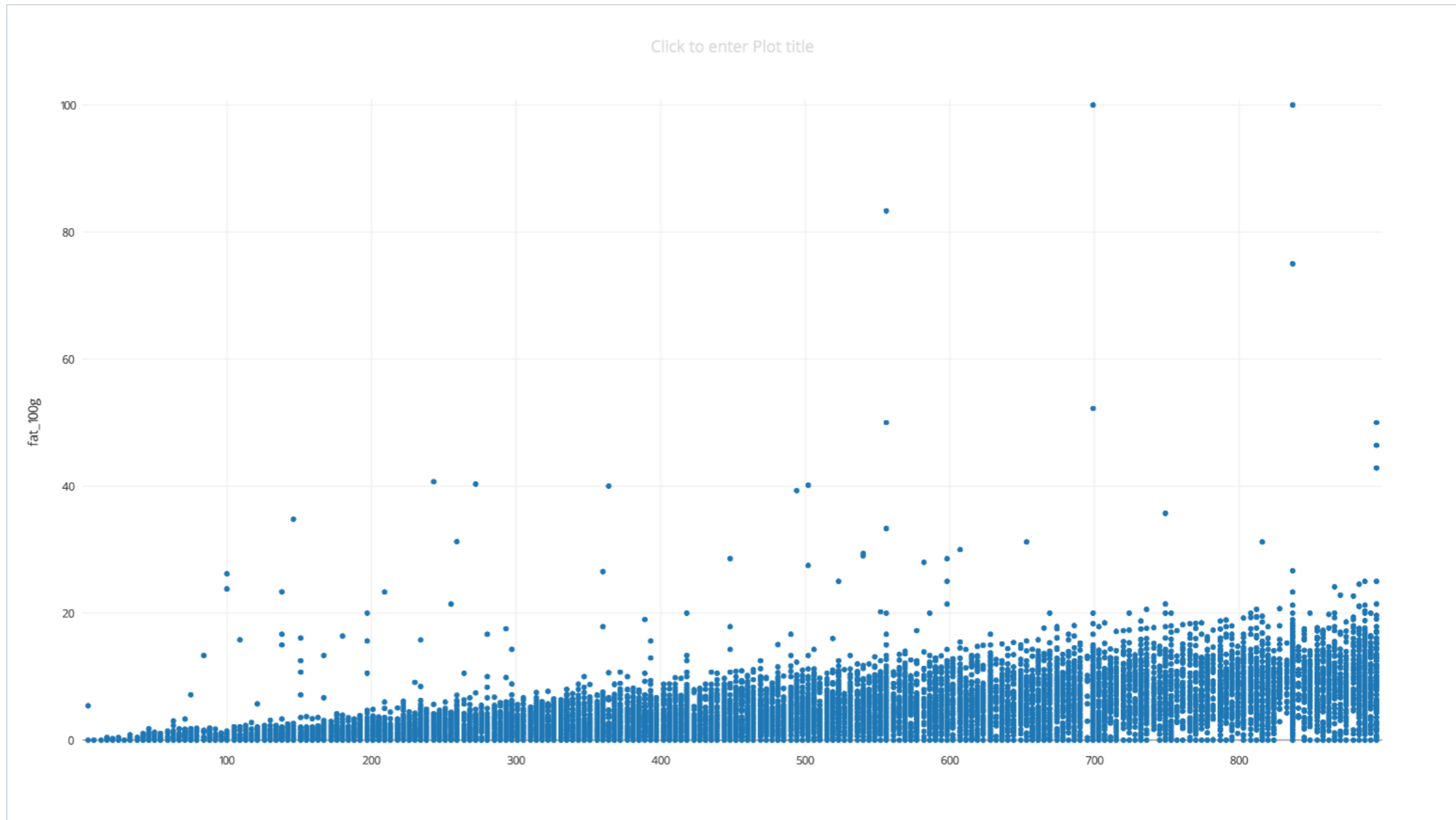
[Save](#) [Share](#) [UPGRADE](#)

- Graph
- Create
- Filter
- Group
- Style
- Analysis
- JSON
- Export

Grid 1 Grid 2

Displaying rows 1 - 5,000 (71,007 total)

	product_name	nutrition_grade_fr	pnnns_groups_1	energy_100g	fat_100g	saturated-fat_100g	monounsaturated-fat_100g
1	Organic Small Red Chili Beans	NA	NA	699	NA	NA	NA
2	Organic Shoyu	NA	NA	234	NA	NA	NA
3	Organic Wheat-Free Tamari	NA	NA	234	NA	NA	NA
4	Organic Wheat Bran	NA	NA	837	3.33	NA	NA



Another way

Food data

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

Sort sheet by column D, A → Z
Sort sheet by column D, Z → A

Sort range...
Randomize range
Named ranges...
Protected sheets and ranges...
Split text to columns...
Filter
Filter views...
Pivot table...
Data validation...

	D	E	F	G	H	I	J	K	L	M	N	O	P	Q				
energy_100g	fat_100g	saturated-fat_100g	monounsaturated-fat_100g	polyunsaturated-fat_100g	trans-fat_100g	carbohydrates_100g	sugars_100g	fiber_100g	proteins_100g	sodium_100g	vitamin-c_100g	calcium_100g	iron_100g	caffeine_100g				
1	product_name																	
2	Organic Small Red Chili Beans	699	NA	NA	NA	NA	63.89	2.78	44.4	22.22	0.069	0.01	NA	0.0075	NA			
3	Organic Shoyu	234	NA	NA	NA	NA	5.56	NA	NA	11.11	5.333	NA	NA	0.003	NA			
4	Organic Wheat-Free Tamarind	234	NA	NA	NA	NA	5.56	NA	NA	11.11	5.222	NA	NA	0.004	NA			
5	Organic Wheat Bran	837	3.33	NA	NA	NA	66.67	NA	40	13.33	NA	NA	0.133	0.0096	NA			
6	Fresh Organic Carrots	159	0	0	NA	NA	8.97	6.41	2.6	1.28	0.077	0.0077	0.026	0.00046	NA			
7	Naturally Flavored Beverage Enhancer	0	0	NA	NA	NA	0	0	NA	0	0.938	NA	NA	NA	NA			
8	Chamomile Herbal Tea	0	0	NA	NA	NA	70	NA	NA	0	0.3	NA	NA	NA	NA			
9	Herbal Tea, Peppermint	0	0	NA	NA	NA	1.47	NA	NA	0	0.004	NA	NA	NA	NA			
10	Linden Flowers Tea	0	0	NA	NA	NA	53.33	NA	NA	0	0	NA	NA	NA	NA			
11	Apple & Cinnamon Tea	0	0	NA	NA	NA	60	NA	NA	66.67	0.133	NA	NA	NA	NA			
12	Green Tea	0	0	NA	NA	NA	2.67	NA	NA	0	0	NA	NA	NA	NA			
13	Shave Grass Herbal Tea	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA			
14	Herbal Tea, Chamomile * Mint	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA			
15	Artichoke Herbal Tea	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA			
16	Dieter's Herbal Tea	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA			
17	Kidneytea, Herbal Tea	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA			
18	Black Tea	NA	NA	NA	NA	NA	0.3	NA	NA	0	NA	NA	NA	NA	NA			
19	Sweet 'N' Hot Salad Peppers	NA	NA	598	0	NA	NA	NA	NA	0	0.643	0.0129	NA	NA	NA			
20	Between!, Dental Gum, Natural Cool Mint	NA	NA	837	0	NA	NA	NA	NA	0	0.6	0.6	NA	NA	NA			
21	Eco-Dent, Between!, Sugar Free Dental Gum, (	NA	NA	837	0	NA	NA	NA	NA	0	0.6	0.6	NA	NA	NA			
22	Ice Cream, Vanilla	d	NA	883	11.27	7.04	NA	NA	0	22.54	16.9	0	2.82	0.056	0	0.113	0	NA
23	Cornichons	NA	NA	75	0	NA	NA	NA	NA	3.57	NA	NA	0	1.214	NA	NA	NA	NA
24	Too Tarts, Smartchoice, Sugar Free Spray Can	NA	NA	205	0	NA	NA	NA	NA	22.22	0	NA	0	0	1.3333	0	0	NA
25	Sour & Fruity Candy	NA	NA	745	0	NA	NA	NA	NA	44.44	0	NA	0	0	0.6667	0	0	NA
26	Romaine Hearts	a	NA	75	0	0	NA	NA	0	3.53	1.18	2.4	1.18	0.006	0.0247	0.024	0.00085	NA
27	Romaine	a	NA	75	0	0	NA	NA	0	3.53	1.18	2.4	1.18	0.006	0.0247	0.024	0.00085	NA
28	Green Leaf Lettuce	a	NA	75	0	0	NA	NA	0	2.35	1.18	1.2	1.18	0.041	0.0042	0.024	0.00085	NA
29	Fresh Spinach	a	NA	100	0	0	NA	NA	NA	3.53	0	2.4	2.35	0.076	0.0282	0.094	0.00318	NA
30	Cooking Spinach	a	NA	100	0	0	NA	NA	0	3.53	0	2.4	2.35	0.076	0.0056	0.471	0.00318	NA
31	Quick Cook Sprout Halves	a	NA	176	0	0	NA	NA	NA	9.52	2.38	3.6	3.57	0.024	0.0857	0.048	0.00129	NA
32	Celery	a	NA	59	0	0	NA	NA	0	3.64	1.82	1.8	0	0.105	0.0082	0.036	0.00033	NA
33	Season & Steam Kalettes (Kale Sprouts)	a	NA	222	0	0	NA	NA	NA	7.06	1.18	2.4	4.71	0.082	0.0247	0.094	0.00127	NA
34	Ryan's, Juice Melange, Fuji Pom Blend	b	NA	192	0	0	NA	NA	0	11.67	10.42	0	0	0.015	0	0	0.00015	NA
35	Ryan's, Lemonade	b	NA	226	0	0	NA	NA	0	13.33	13.33	0	0	0.004	5.00E-04	0	0	NA
36	Ryan's, Spiced Apple Cider	b	NA	192	0	0	NA	NA	0	11.25	10	0.4	0	0.01	0	0.008	0.00015	NA
37	Ryan's, Pink Lady, Apple Cider	b	NA	192	0	0	NA	NA	0	11.67	8.33	0	0.42	0.006	0.001	0	0	NA
38	Ryan's, Organic Juice, Apple	b	NA	192	0	0	NA	NA	0	11.67	10.42	0	0	0.017	0.0038	0	0	NA
39	Ryan's, Opal Blend Melange, Apple Cider	b	NA	192	0	0	NA	NA	0	11.67	8.33	0	0.42	0.006	0.001	0	0	NA
40	Raw Shrimp	b	NA	247	0	0	NA	NA	0	0	0	0	14.12	0.553	0.0014	0	0	NA
41	Guiltless Gourmet, Organic Unsweetened Cocc	a	NA	71	0	0	NA	NA	0	4	3	1	0.4	0.011	0.001	0.008	0.00014	NA
42	Caperberries In Vinegar	NA	NA	75	0	NA	NA	NA	0	3.57	NA	NA	0	1.464	NA	NA	NA	NA
43	Diced In Tomato Juice	b	NA	79	0	0	NA	NA	0	4.62	3.08	0.8	0.77	0.223	0.0162	0.015	0.00055	NA
44	Vindaloo Sauce	c	NA	427	6.78	0.42	NA	NA	0	9.32	4.24	1.7	1.69	0.593	0.0051	0.017	0.00092	NA
45	Tofu Firm	a	NA	372	3.8	0	1.27	2.53	0	2.53	0	1.3	8.86	0	0	0.127	0.00137	NA
46	Traders Joe's, Baking Powder	NA	NA	0	0	NA	NA	NA	NA	0	NA	NA	0	9.167	NA	6.667	NA	NA
47	Salsa Autentica	NA	NA	138	0	NA	NA	NA	NA	6.67	3.33	NA	0	0.867	NA	NA	NA	NA
48	First Crush, Unsweetened Gravenstein Apple S	a	NA	172	0	0	NA	NA	0	10.66	8.2	1.6	0	0.004	0.001	0	3.00E-04	NA
49	Whole Kernel Corn	b	NA	201	1.2	0	NA	NA	0	7.2	5.6	1.6	1.6	0.16	0.0029	0	0.00029	NA

food_data

Explore

Another way

Food data ☆

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

100% \$ % .0 .00 123 Arial 10 B I U A


energy_100g

1	product_name	nutrition_gr	pnns_group	energy_100g	fat_100g	saturated-fat	monounsatu	polyunsatur	trans-fat_10	carbohydrat	sugars_100g	fiber_100g	proteins_10	sodium_100	vitamin-c_10	calcium_100	iron_100g	caffe
2	Organic Small Red Chili Beans	NA	Sort A → Z	NA	NA	NA	NA	NA	NA	63.89	2.78	44.4	22.22	0.069	0.01	NA	0.0075	NA
3	Organic Shoyu	NA	Sort Z → A	NA	NA	NA	NA	NA	NA	5.56	NA	NA	11.11	5.333	NA	NA	0.003	NA
4	Organic Wheat-Free Tamari	NA	Filter by condition...	NA	NA	NA	NA	NA	NA	5.56	NA	NA	11.11	5.222	NA	NA	0.004	NA
5	Organic Wheat Bran	NA	None	3.33	NA	NA	NA	NA	NA	66.67	NA	40	13.33	NA	NA	0.133	0.0096	NA
6	Fresh Organic Carrots	a	Cell is empty	0	0	0	NA	NA	0	8.97	6.41	2.6	1.28	0.077	0.0077	0.026	0.00046	NA
7	Naturally Flavored Beverage Enhancer With Ot	NA	Cell is not empty	0	NA	NA	NA	NA	NA	0	0	NA	0	0.938	NA	NA	NA	NA
8	Chamomile Herbal Tea	NA	Text contains	0	NA	NA	NA	NA	NA	70	NA	NA	0	0.3	NA	NA	NA	NA
9	Herbal Tea, Peppermint	NA	Text does not contain	0	NA	NA	NA	NA	NA	1.47	NA	NA	0	0.004	NA	NA	NA	NA
10	Linden Flowers Tea	NA	Text starts with	0	NA	NA	NA	NA	NA	53.33	NA	NA	0	0	NA	NA	NA	NA
11	Apple & Cinnamon Tea	NA	Text ends with	0	NA	NA	NA	NA	NA	60	NA	NA	66.67	0.133	NA	NA	NA	NA
12	Green Tea	NA	Text is exactly	0	NA	NA	NA	NA	NA	2.67	NA	NA	0	0	NA	NA	NA	NA
13	Shave Grass Herbal Tea	NA	Date is	0	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
14	Herbal Tea, Chamomile * Mint	NA	Date is before	0	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
15	Artichoke Herbal Tea	NA	Date is after	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
16	Dieter's Herbal Tea	NA	Greater than	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
17	Kidneytea, Herbal Tea	NA	Greater than or equal to	0	NA	NA	NA	NA	NA	3.33	NA	NA	0	0	NA	NA	NA	NA
18	Black Tea	NA	Less than	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
19	Sweet 'N' Hot Salad Peppers	NA	Less than or equal to	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
20	Between!, Dental Gum, Natural Cool Mint	NA	Is equal to	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
21	Eco-Dent, Between!, Sugar Free Dental Gum, (	NA	Is not equal to	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
22	Ice Cream, Vanilla	d	Is between	11.27	7.04	NA	NA	NA	0	22.54	16.9	0	2.82	0.056	0	0.113	0	NA
23	Cornichons	NA	Is not between	0	NA	NA	NA	NA	NA	0	NA	NA	0	0	NA	NA	NA	NA
24	Too Tarts, Smartchoice, Sugar Free Spray Can	NA	Custom formula is	0	NA	NA	NA	NA	NA	22.22	0	NA	0	0	1.3333	0	0	NA
25	Sour & Fruity Candy	NA		0	NA	NA	NA	NA	NA	44.44	0	NA	0	0	0.6667	0	0	NA
26	Romaine Hearts	a		0	0	NA	NA	NA	0	3.53	1.18	2.4	1.18	0.006	0.0247	0.024	0.00085	NA
27	Romaine	a		0	0	NA	NA	NA	0	3.53	1.18	2.4	1.18	0.006	0.0247	0.024	0.00085	NA
28	Green Leaf Lettuce	a		0	0	NA	NA	NA	0	2.35	1.18	1.2	1.18	0.041	0.0042	0.024	0.00085	NA
29	Fresh Spinach	a		0	0	NA	NA	NA	NA	3.53	0	2.4	2.35	0.076	0.0282	0.094	0.00318	NA
30	Cooking Spinach	a		0	0	NA	NA	NA	0	3.53	0	2.4	2.35	0.076	0.0056	0.471	0.00318	NA
31	Quick Cook Sprout Halves	a		0	0	NA	NA	NA	NA	9.52	2.38	3.6	3.57	0.024	0.0857	0.048	0.00129	NA
32	Celery	a		0	0	NA	NA	NA	0	3.64	1.82	1.8	0	0.105	0.0082	0.036	0.00033	NA
33	Season & Steam Kalettes (Kale Sprouts)	a		0	0	NA	NA	NA	NA	7.06	1.18	2.4	4.71	0.082	0.0247	0.094	0.00127	NA
34	Ryan's, Juice Melange, Fuji Pom Blend	b		0	0	NA	NA	NA	0	11.67	10.42	0	0	0.015	0	0	0.00015	NA
35	Ryan's, Lemonade	b		0	0	NA	NA	NA	0	13.33	13.33	0	0	0.004	5.00E-04	0	0	NA
36	Ryan's, Spiced Apple Cider	b		192	0	0	NA	NA	0	11.25	10	0.4	0	0.01	0	0.008	0.00015	NA
37	Ryan's, Pink Lady, Apple Cider	b		192	0	0	NA	NA	0	11.67	8.33	0	0.42	0.006	0.001	0	0	NA
38	Ryan's, Organic Juice, Apple	b		192	0	0	NA	NA	0	11.67	10.42	0	0	0.017	0.0038	0	0	NA
39	Ryan's, Opal Blend Melange, Apple Cider	b		192	0	0	NA	NA	0	11.67	8.33	0	0.42	0.006	0.001	0	0	NA
40	Raw Shrimp	b		247	0	0	NA	NA	0	0	0	0	14.12	0.553	0.0014	0	0	NA
41	Guiltless Gourmet, Organic Unsweetened Cocc	a		71	0	0	NA	NA	0	4	3	1	0.4	0.011	0.001	0.008	0.00014	NA
42	Caperberries In Vinegar	NA		75	0	NA	NA	NA	0	3.57	NA	NA	0	1.464	NA	NA	NA	NA
43	Diced In Tomato Juice	b		79	0	0	NA	NA	0	4.62	3.08	0.8	0.77	0.223	0.0162	0.015	0.00055	NA
44	Vindaloo Sauce	c		427	6.78	0.42	NA	NA	0	9.32	4.24	1.7	1.69	0.593	0.0051	0.017	0.00092	NA
45	Tofu Firm	a		372	3.8	0	1.27	2.53	0	2.53	0	1.3	8.86	0	0	0.127	0.00137	NA
46	Traders Joe's, Baking Powder	NA		0	0	NA	NA	NA	NA	0	NA	NA	0	9.167	NA	6.667	NA	NA
47	Salsa Autentica	NA		138	0	NA	NA	NA	NA	6.67	3.33	NA	0	0.867	NA	NA	NA	NA
48	First Crush, Unsweetened Gravenstein Apple S	a		172	0	0	NA	NA	0	10.66	8.2	1.6	0	0.004	0.001	0	3.00E-04	NA
49	Whole Kernel Corn	b		201	1.2	0	NA	NA	0	7.2	5.6	1.6	1.6	0.16	0.0029	0	0.00029	NA

food_data

Explore

Heat maps

 Collapse All + Trace

▼ Graph

Create

Filter

Group

► Style

Analysis

JSON

Export

Save

Share

UPGRADE

Chart Type

2D Histogram Hea...

X Values energy_100g

Y Values fat_100g

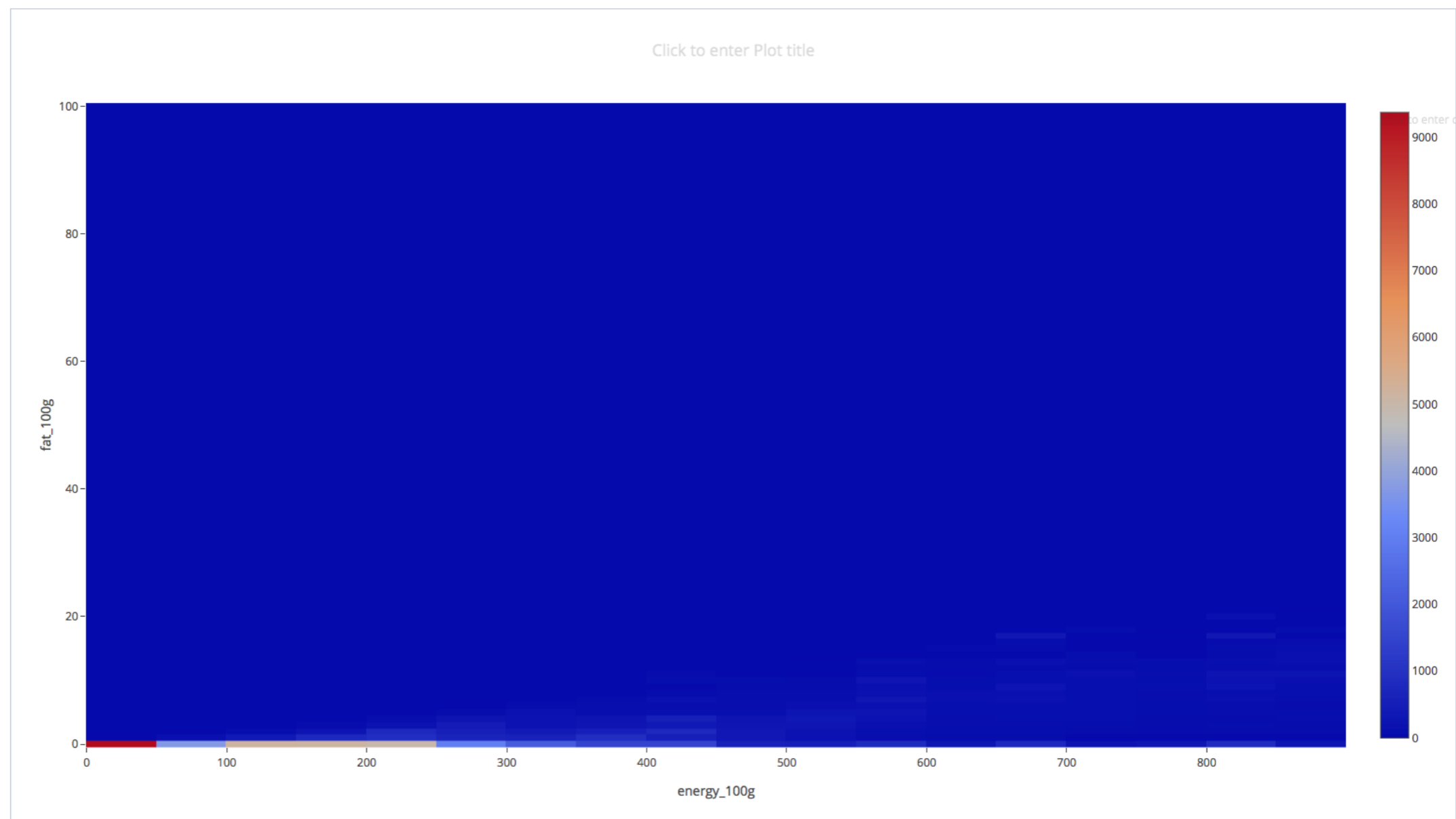
<<<

UPGRADE Import AmeliaMN

Grid 1 Grid 2 +

Displaying rows 1 - 5,000 (71,007 total)

	product_name	nutrition_grade_fr	pnns_groups_1	energy_100g	fat_100g	saturated-fat_100g	monounsaturated-f...
1	Organic Small Red Chili Beans	NA	NA	699	NA	NA	NA
2	Organic Shoyu	NA	NA	234	NA	NA	NA
3	Organic Wheat-Free Tamari	NA	NA	234	NA	NA	NA
4	Organic Wheat Bran	NA	NA	837	3.33	NA	NA
5	Fresh Organic Grapes	NA	NA	150	0	0	NA



Heat maps

UPGRADE [Import](#) AmeliaMN

Graph

Create

Filter

Group

Style

Analysis

JSON

Export

Save

Share

UPGRADE

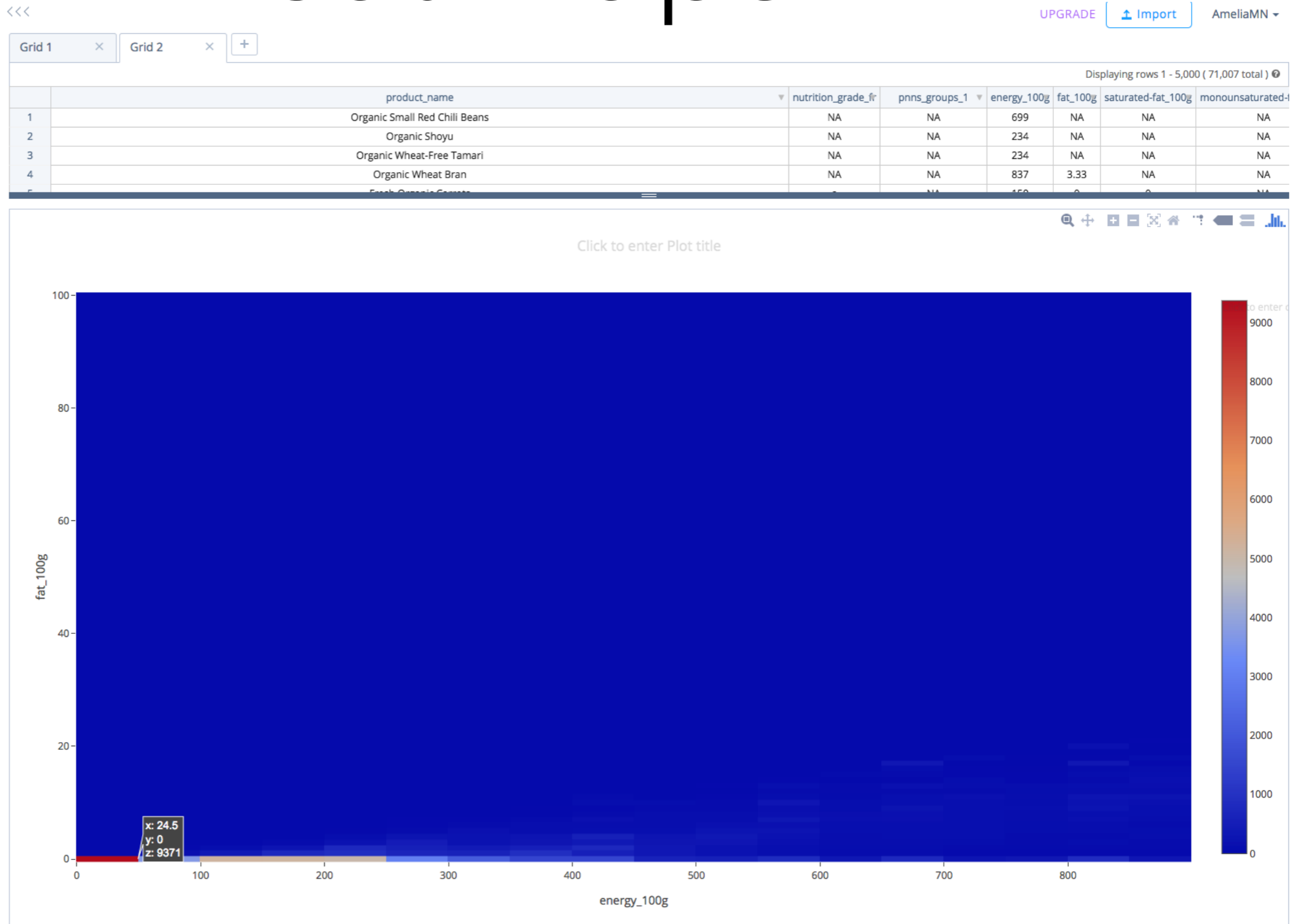
Collapse All **+ Trace**

Chart Type

2D Histogram Hea...

X Values: energy_100g

Y Values: fat_100g



Heat maps

UPGRADE [Import](#) AmeliaMN



- Graph
- Create
- Filter
- Group
- Style
- Analysis
- JSON
- Export
- Save
- Share
- UPGRADE

Collapse All + Filter

Filtering on energy_100g

Traces To Filter: fat_100g

Operator: Inequality

X: > 0

Filtering on fat_100g

Traces To Filter: fat_100g

Operator: Inequality

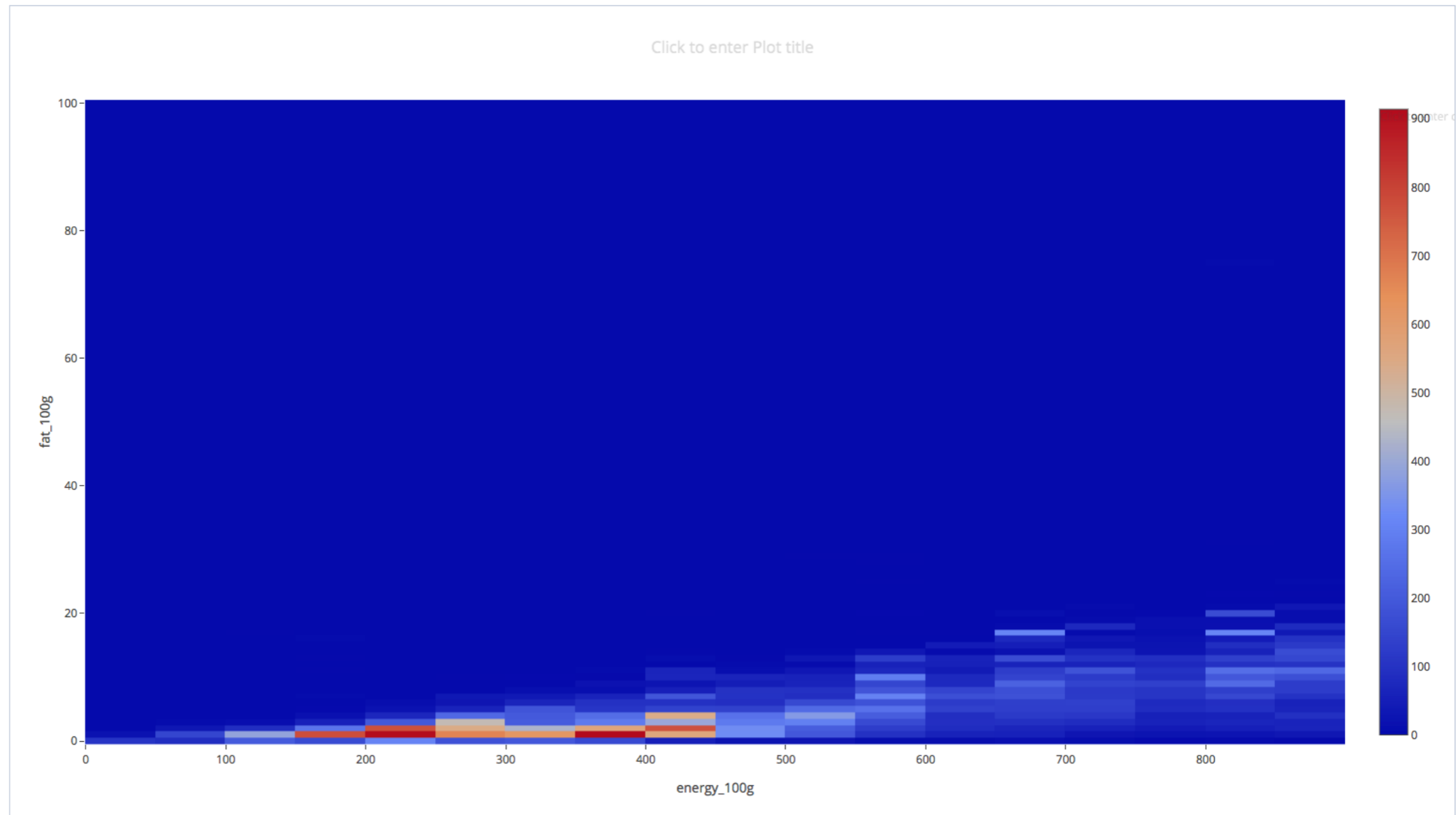
X: > 0

<<<

Grid 1 Grid 2 +

Displaying rows 1 - 5,000 (71,007 total)

	product_name	nutrition_grade_fr	pnnis_groups_1	energy_100g	fat_100g	saturated-fat_100g	monounsaturated-fat_100g
1	Organic Small Red Chili Beans	NA	NA	699	NA	NA	NA
2	Organic Shoyu	NA	NA	234	NA	NA	NA
3	Organic Wheat-Free Tamari	NA	NA	234	NA	NA	NA
4	Organic Wheat Bran	NA	NA	837	3.33	NA	NA
5	Fresh Organic Cornmeal	NA	NA	150	0	0	NA



Comparisons

UPGRADE

Import

AmeliaMN



Graph

Create

Filter

Group

Style

Analysis

JSON

Export

Save

Share

UPGRADE

Collapse All + Filter

Filtering on nutrition...

Traces To Filter: sugars_100g

Operator: Matching values

Include Exclude

a

Filtering on nutrition...

Traces To Filter: sugars_100g

Operator: Matching values

Include Exclude

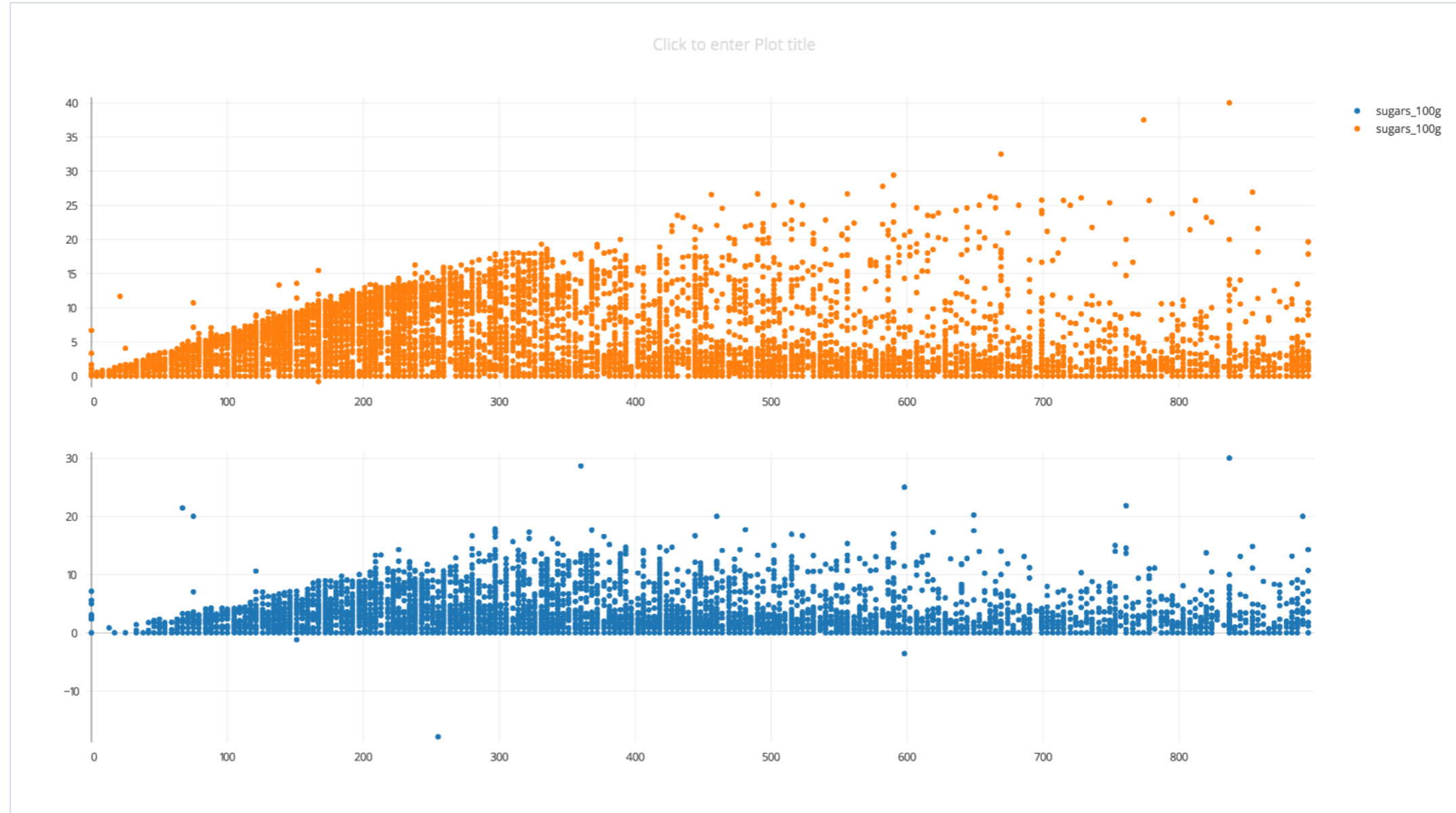
b

<<<

Grid 1 Grid 2 +

Displaying rows 1 - 5,000 (71,007 total)

	product_name	nutrition_grade_fr	pnns_groups_1	energy_100g	fat_100g	saturated-fat_100g	monounsaturated-
1	Organic Small Red Chili Beans	NA	NA	699	NA	NA	NA
2	Organic Shoyu	NA	NA	234	NA	NA	NA
3	Organic Wheat-Free Tamari	NA	NA	234	NA	NA	NA
4	Organic Wheat Bran	NA	NA	837	3.33	NA	NA



Lab assignment

- Create a scatterplot or a heatmap displaying some relationship in the nutrition data
- Post a screenshot in #lab3
- Comment on what your plot shows and your design decisions