

#### What are the main data in the dashboard?

Link: dashboard

 Summary: This dashboard illustrates some metrics of the US census data mainly:

I. Population

II. Income, Poverty and Income correlation

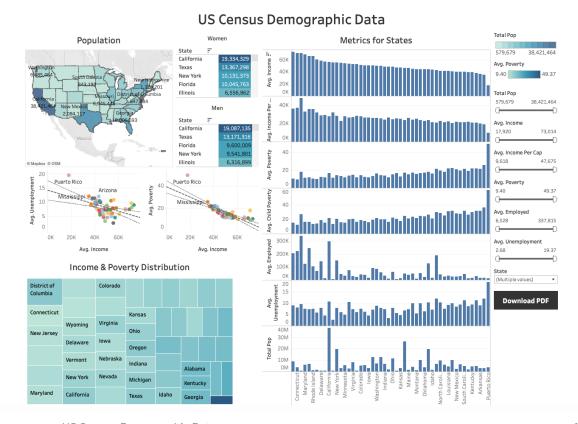
III. Employment and unemployment distributions

IV. Income and poverty distribution

V. ..

 Design: The tool includes several filters for categorizing the data if needed/desired.

Resources: N/A

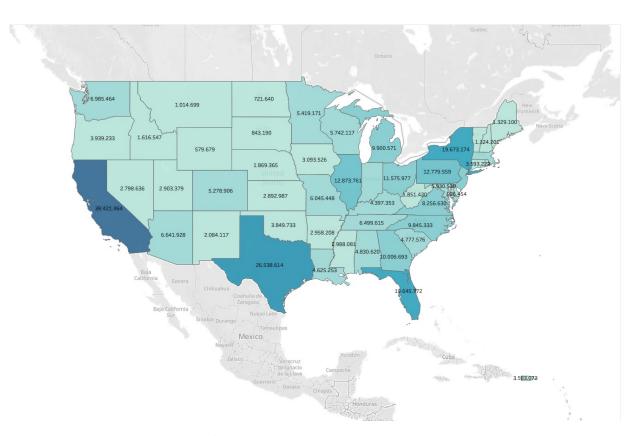


# What is the population distribution across USA?

· Link: population

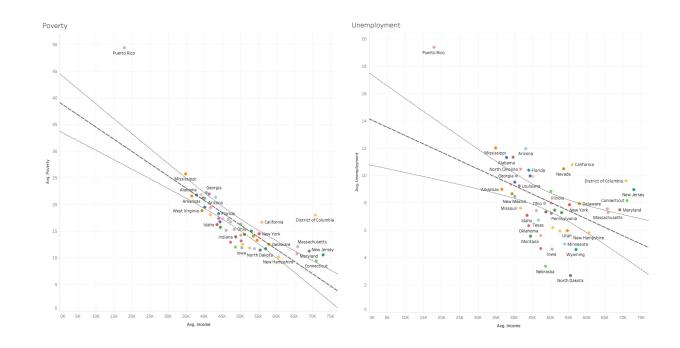
- Summary: This map gives the information on how is the population across USA. The population of each state is given as well. California has the highest population, following by Texas and New York.
- Design: The sum(total pop) is used for preparation of this visualization. This gives the best understanding. A filter is added to highlight the states with filtered

Resources: N/A



# What is the relation between poverty, unemployment and income?

- Link: poverty-income, unemployment-income
- Summary: This plot gives the information on how the poverty and unemployment are related to average income. It can be seen that poverty and unemployment increases with lower average income.
- Design: The scatter plot can show the results very well and the regression with confident bands can help of understanding the data.
- Resources: N/A



### What is the relation between poverty and income?

Link: poverty-income

- Summary: This map gives the information on how which state has the highest income (size of the boxes) and its poverty level (colour of boxes). It can be seen that the New Jersey has the highest average income and Puerto Rico the list! On the other side, Puerto Rico hast the highest average poverty among other states.
- Design: The treemap is a useful tool for showing the size of a value in comparison to others. The colour provides an additional metric on the data.

Resources: N/A

Income & Poverty Distribution

		income & F	overty Distric	Jucion									
<b>New Jersey</b> Avg. Income: 73,014 Avg. Poverty: 10.53	New Hampshire Avg. Income: 60,649 Avg. Poverty: 10.17	Minnesota Avg. Income: 53,927 Avg. Poverty: 11.67	Pennsylvania Avg. Income: 50,316 Avg. Poverty: 13.14	Avg. Income: 50,217		Illinois Avg. Income: 50,163 Avg. Poverty: 14.21		Indiana Avg. Income: 48,745 Avg. Poverty: 13.89		Nebraska Avg. Income: 48,646 Avg. Poverty: 11.98		48,446	. Income: 146 . Poverty:
Connecticut Avg. Income: 71,184 Avg. Poverty: 9.40	Delaware Avg. Income: 58,068 Avg. Poverty: 12.50	Nevada Avg. Income: 53,690 Avg. Poverty: 14.03	South Dakota		Michi			ma Florida		Idaho		Arizo	na
	Wyoming Avg. Income: 57,042 Avg. Poverty: 11.69	Virginia Avg. Income: 53,084	Avg. Income: 47,357 Avg. Poverty: 16.74		44,46	overty:	Avg. Income: 44,097 Avg. Poverty: 17.34		Avg. Income 44,046 Avg. Povert 18.25	43,60	ncome: B overty:	43,25	Poverty:
District of Columbia Avg. Income: 70,848 Avg. Poverty: 18.00		Avg. Poverty: 14.97	Kansas Avg. Income: 47,32 Avg. Poverty: 12.88										
	California Avg. Income: 56,013 Avg. Poverty: 16.67	Vermont Avg. Income: 52,654 Avg. Poverty: 11.79  Colorado Avg. Income: 51,263 Avg. Poverty: 14.39	Texas Avg. Income: 46,746 Avg. Poverty: 17.16		North Carolina Avg. Income: 41,784 Avg. Poverty: 19.37  Missouri Avg. Income: 41,755 Avg. Poverty: 18.06		84 Avg.		v Mexico . Income:	Tennesse Avg. Incon 40.168		South C Avg. Inc 39.757	Carolina come:
Maryland Avg. Income: 69,200 Avg. Poverty: 11.24	North Dakota						37	40,184 Avg. Poverty 21.12		Avg. Povei 19.45	rty:	Avg. Por 21.21	verty:
	Avg. Income: 55,575 Avg. Poverty: 11.42		Maine Avg. Income: 46,142									rkansas	
Massachusetts Avg. Income: 65,974 Avg. Poverty: 12.04	New York	Wisconsin	Avg. Poverty: 15.10		Louisiana Avg. Income: 41,412 Avg. Poverty: 21.96			West Virginia Avg. Income: 39,412 Avg. Poverty: 18.79  Kentucky Avg. Income: 39,137 Avg. Poverty: 21.83			Avg. Incor 36,6	ne: 26	
	Avg. Income: 55,276 Avg. Poverty: 14.48	Avg. Income: 50,649 Avg. Poverty: 12.52	Oregon Avg. Income: 45,171 Avg. Poverty: 17.36							Pove	Avg. Poverty: 21.55		
Rhode Island Avg. Income: 65,783 Avg. Poverty: 10.70	Utah Avg. Income: 54,687 Avg. Poverty: 13.27	Iowa Avg. Income: 50,483 Avg. Poverty: 11.85	Montana Avg. Income: 44,497 Avg. Poverty: 15.72		Avg. I	Georgia Avg. Income: 40,705 Avg. Poverty: 22.20			Alabama Avg. Income: 37,973				
								Avg. Poverty: 21.76			Puerto Rico Avg. Income: 17,920		

# What is the relation between poverty and income?

- Link: metrics
- Summary: the bar plot are used to demonstrate some other metrics from the data like average income of each state, average income per cap, average poverty, average child poverty, average (un)employment and total population of states.
- Design: The bar plots are using the same data source, so as soon as one is sorted the other plot are adapted based on that one.
- Resources: N/A

