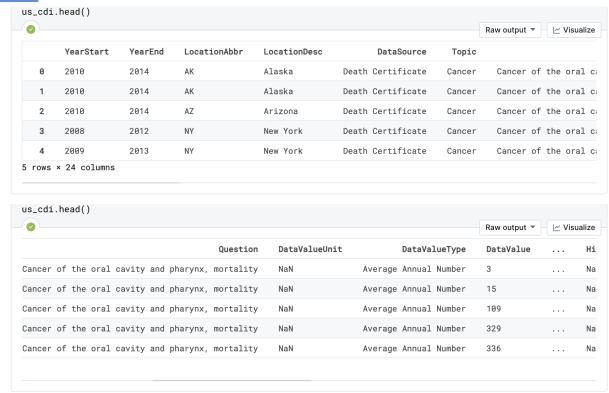
#### Dataset Info:

#### CDC U.S. Chronic Disease Indicators dataset focusing on mortality rate:

 $\underline{https://chronicdata.cdc.gov/Chronic-Disease-Indicators/U-S-Chronic-Disease-Indicators-CDI-/g4} \\ ie-h725$ 



EPA daily summary data on the daily particulate data on PM2.5 mass from 2010 to 2018: <a href="https://aqs.epa.gov/aqsweb/airdata/download">https://aqs.epa.gov/aqsweb/airdata/download</a> files.html#Annual

	State Code int	County Code in	Site Num int64	Parameter Code i	POC int64	Latitude float	Longi
0	1	3	10	88101	1	30.497478	
1	1	3	10	88101	1	30.497478	
2	1	3	10	88101	1	30.497478	
3	1	3	10	88101	1	30.497478	
4	1	3	10	88101	1	30.497478	
5	1	3	10	88101	1	30.497478	
6	1	3	10	88101	1	30.497478	
7	1	3	10	88101	1	30.497478	
8	1	3	10	88101	1	30.497478	
9	1	3	10	88101	1	30.497478	
502578 r	rows, showing 10	✓ per page	« < Page 1	of 50258 > >>			

pop\_sex.head()
daily18

<b>O</b>					Preview 🔻	Visualize
Units of Meas	Event Type obj	Observation C	Observation P	Arithmetic Mean flo	1st Max Value f.	1st Max Ho
Micrograms/cubi c meter (LC)	None	1	100	7.6	7.6	
Micrograms/cubi c meter (LC)	None	1	100	8.1	8.1	
Micrograms/cubi c meter (LC)	None	1	100	3.6	3.6	
Micrograms/cubi c meter (LC)	None	1	100	4.5	4.5	
Micrograms/cubi c meter (LC)	None	1	100	6	6	
Micrograms/cubi c meter (LC)	None	1	100	5.5	5.5	
Micrograms/cubi c meter (LC)	None	1	100	11.1	11.1	
Micrograms/cubi c meter (LC)	None	1	100	3.3	3.3	
Micrograms/cubi c meter (LC)	None	1	100	10.1	10.1	
Micrograms/cubi	None	1	100	3.6	3.6	

						Preview ▼	Visualize
	Latitude float	Longitude floa	Datum object	Parameter Name (	Sample Durati…	Pollutant Sta	Date L
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-6
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
1	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
I	30.497478	-87.880258	NAD83	PM2.5 - Local Conditions	24 HOUR	PM25 24-hour 2012	2018-0
1	30.497478	-87.880258	NAD83	PM2.5 - Local	24 HOUR	PM25 24-hour	2018-0

EPA daily summary data on the daily particulate data on NO2 levels from 2010 to 2018: <a href="https://aqs.epa.gov/aqsweb/airdata/download\_files.html#Annual">https://aqs.epa.gov/aqsweb/airdata/download\_files.html#Annual</a>

/shared-libs/python3.7/py-core/lib/python3.7/site-packages/IPython/core/interactiveshell.py:3186: DtypeWarning: Colum interactivity=interactivity, compiler=compiler, result=result)

		Preview ▼					
	State Code int	County Code in	Site Num int64	Parameter Code i	POC int64	Latitude float	Long
0	1	73	23	42602	1	33.553056	
1	1	73	23	42602	1	33.553056	
2	1	73	23	42602	1	33.553056	
3	1	73	23	42602	1	33.553056	
4	1	73	23	42602	1	33.553056	

no18.head()

/shared-libs/python3.7/py-core/lib/python3.7/site-packages/IPython/core/interactiveshell.py:3186: DtypeWarning: Colum interactivity=interactivity, compiler=compiler, result=result)

	Longitude floa	Datum object	Parameter Name (	Sample Durati…	Pollutant Sta	Preview ▼ Date Local obj	∠ Visualize Units of Mea
56	-86.815	WGS84	Nitrogen dioxide (NO2)	1 HOUR	NO2 1-hour 2010	2018-01-01	Parts per billion
56	-86.815	WGS84	Nitrogen dioxide (NO2)	1 HOUR	NO2 1-hour 2010	2018-01-02	Parts per billion
56	-86.815	WGS84	Nitrogen dioxide (NO2)	1 HOUR	NO2 1-hour 2010	2018-01-03	Parts per billion
56	-86.815	WGS84	Nitrogen dioxide (NO2)	1 HOUR	NO2 1-hour 2010	2018-01-04	Parts per billion
56	-86.815	WGS84	Nitrogen dioxide (NO2)	1 HOUR	NO2 1-hour 2010	2018-01-05	Parts per billion

no18.head()

/shared-libs/python3.7/py-core/lib/python3.7/site-packages/IPython/core/interactiveshell.py:3186: DtypeWarning: Colum interactivity=interactivity, compiler=compiler, result=result)

					Preview ▼	∠ Visualize
Units of Meas	Event Type obj	Observation C	Observation P	Arithmetic Mean fl	1st Max Value f.	1st Max Hou
Parts per billion	None	24	100	2.325	3.5	
Parts per billion	None	21	88	7.447619	19.5	
Parts per billion	None	21	88	9.319048	15.2	
Parts per billion	None	20	83	7.54	16.7	
Parts per billion	None	24	100	16.570833	36	

## Medicare Expenditure from the Centers for Medicare (CMS):

https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Medicare-Geographic-Variation/GV\_PUF

<b>3</b>			Preview ▼			
	State object	2010 object	2011 object	2012 object	2013 object	2014 object
1	United States	\$10,487	\$10,756	\$10,771	\$10,827	\$10,986
2	New England	10,568	10,836	10,851	10,931	11,187
3	Connecticut	11,083	11,390	11,302	11,633	11,964
4	Maine	8,628	8,997	8,913	9,047	9,325
5	Massachusetts	11,396	11,631	11,744	11,656	11,899

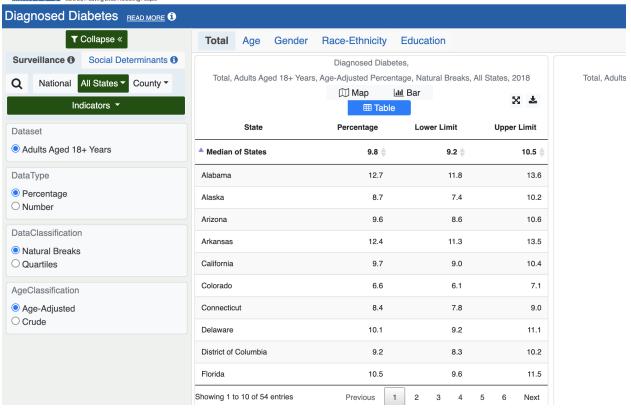
## Population Sex Proportions from the Kaiser Family Foundation (KFF):

 $\frac{https://www.kff.org/other/state-indicator/distribution-by-sex/?activeTab=graph\&currentTimeframe=0\&startTimeframe=11\&sortModel=\%7B\%22colId\%22:\%22Location\%22,\%22sort\%22:\%22asc\%22\%7D$ 

		2008			2009	
Location <b>\$</b>	Male 💠	Female 💠	Total 💠	Male 💠	Female 💠	Total 💠
United States <sup>1</sup>	48.9%	51.1%	100.0%	49.0%	51.0%	100.0%
Alabama	48.1%	51.9%	100.0%	48.1%	51.9%	100.0%
Alaska	50.7%	49.3%	100.0%	50.9%	49.1%	100.0%
Arizona	49.6%	50.4%	100.0%	49.7%	50.3%	100.0%
Arkansas	48.8%	51.2%	100.0%	48.5%	51.5%	100.0%
California	49.6%	50.4%	100.0%	49.7%	50.3%	100.0%
Colorado	49.9%	50.1%	100.0%	49.8%	50.2%	100.0%
Connecticut	48.6%	51.4%	100.0%	48.7%	51.3%	100.0%
Delaware	48.1%	51.9%	100.0%	48.2%	51.8%	100.0%
District of Columbia	46.9%	53.1%	100.0%	47.0%	53.0%	100.0%
Florida	48.7%	51.3%	100.0%	48.7%	51.3%	100.0%
Georgia	48.6%	51.4%	100.0%	48.5%	51.5%	100.0%
Hawaii	49.2%	50.8%	100.0%	49.5%	50.5%	100.0%
Idaho	50.1%	49.9%	100.0%	49.9%	50.1%	100.0%
Illinois	49.1%	50.9%	100.0%	49.1%	50.9%	100.0%
Indiana	49.1%	50.9%	100.0%	49.1%	50.9%	100.0%
lowa	49.4%	50.6%	100.0%	49.4%	50.6%	100.0%
Kansas	49.2%	50.8%	100.0%	49.2%	50.8%	100.0%

Diabetes prevalence from the CDC's surveillance systems: <a href="https://gis.cdc.gov/grasp/diabetes/diabetesatlas.html#">https://gis.cdc.gov/grasp/diabetes/diabetesatlas.html#</a>





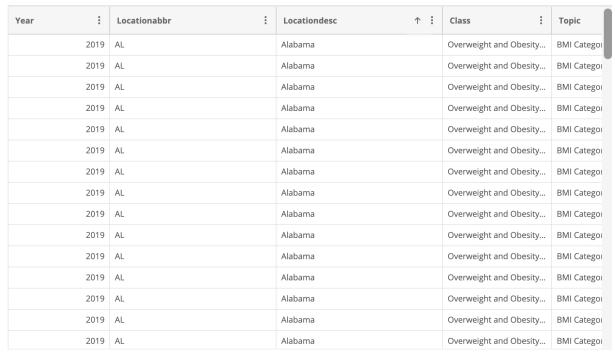
Obesity prevalence from the CDC's surveillance systems:

 $\frac{https://chronicdata.cdc.gov/Behavioral-Risk-Factors/BRFSS-Table-of-Overweight-and-Obesity-BMI-/fqb7-mgjf/data}{}$ 

#### BRFSS: Table of Overweight and Obesity (BMI)

Based on BRFSS: Table of Overweight and Obesity (BMI)

2011 to present. BRFSS combined land line and cell phone prevalence data. BRFSS is a



# Tobacco consumption rates from the CDC's surveillance systems: <a href="https://chronicdata.cdc.gov/Policy/Adult-Tobacco-Consumption-In-The-U-S-2000-Present/rnvb-cpxx">https://chronicdata.cdc.gov/Policy/Adult-Tobacco-Consumption-In-The-U-S-2000-Present/rnvb-cpxx</a>

ear ↑ :	Loca	Loca	Popu	Topic :	Meas:	Sub	Data	Dom	Impo	Total :	Dom	In
2000	US	National	209,786,7	Noncomb	Smokeles	Chewing	Pounds	45,502,156	91,965	45,594,121	0.217	
2000	US	National	209,786,7	Combusti	Cigarettes	Cigarette	Cigarettes	423,250,3	12,319,66	435,570,0	2,018	
2000	US	National	209,786,7	Combusti	Cigars	Total Ciga	Cigars	5,612,867	548,243,0	6,161,110	27	
2000	US	National	209,786,7	Combusti	Loose To	Total Loo	Cigarette	8,291,276	702,741,6	8,994,018	40	
2000	US	National	209,786,7	Combusti	Loose To	Total Loo	Pounds	16,841,656	1,427,444	18,269,100	0	
2000	US	National	209,786,7	Combusti	Cigars	Small Cig	Cigars	2,243,135	36,049,000	2,279,184	11	
2000	US	National	209,786,7	Combusti	Loose To	Pipe Toba	Pounds	5,352,683	739,887	6,092,570	0	
2000	US	National	209,786,7	Combusti	Loose To	Roll-Your	Cigarette	5,656,109	338,489,6	5,994,599	27	
2000	US	National	209,786,7	Combusti	Loose To	Roll-Your	Pounds	11,488,973	687,557	12,176,530	0	
2000	US	National	209,786,7	Combusti	Cigars	Large Cig	Cigars	3,369,732	512,194,0	3,881,926	16	
2000	US	National	209,786,7	Combusti	Loose To	Pipe Toba	Cigarette	2,635,167	364,252,0	2,999,419	13	
2000	US	National	209,786,7	Noncomb	Smokeles	Snuff	Pounds	66,134,630	17,729	66,152,359	0.315	
2000	US	National	209,786,7	Combusti	All Comb	Total Co	Cigarette	437,154,4	13,570,64	450,725,1	2,084	

