US Car Accidents

R Shiny App:
https://melanie-m-zheng.shinyapps.io/us_car_accidents/

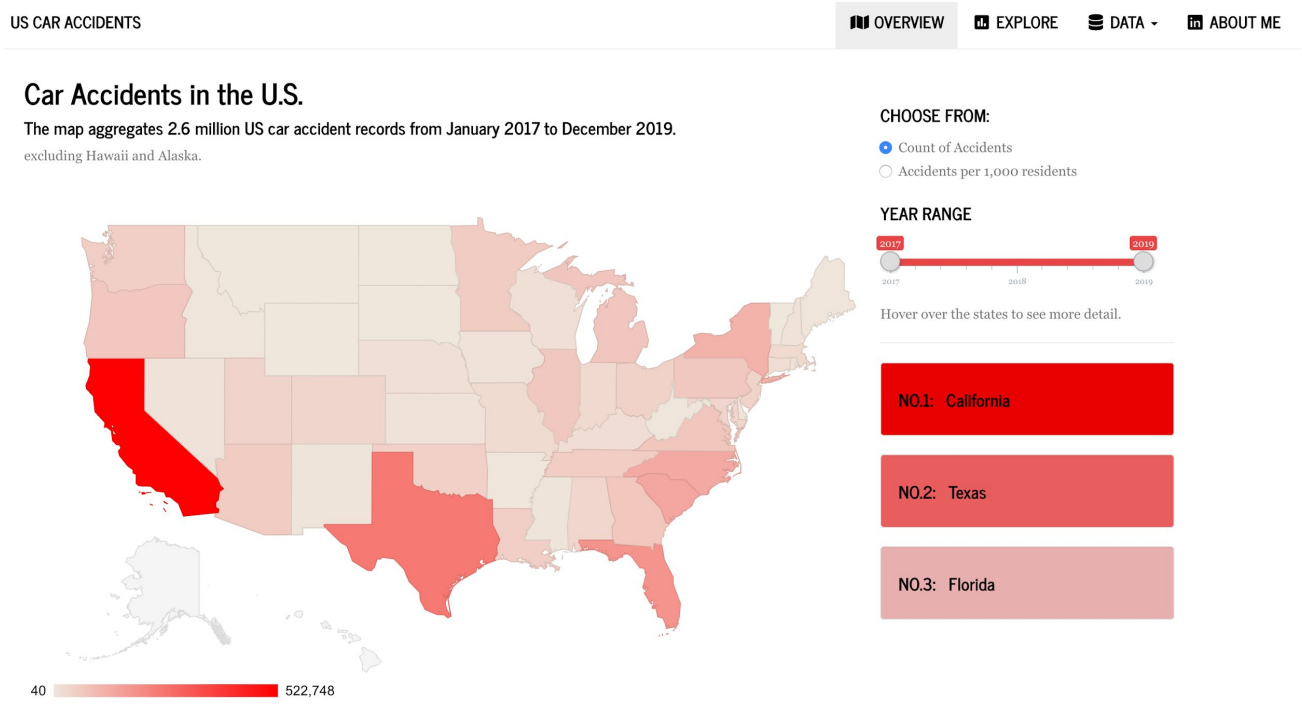
Overview

Which State has the most car accidents?

-Count

-Count per (1k) capita

-Trends?



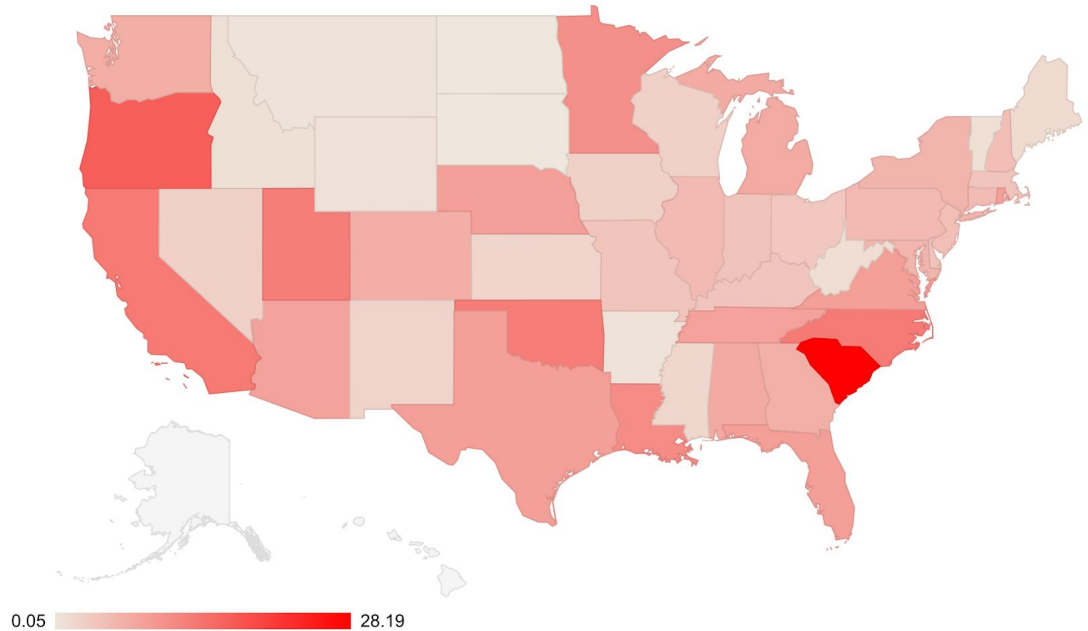
US CAR ACCIDENTS

OVERVIEW | EXPLORE | DATA | ABOUT ME

Car Accidents in the U.S.

The map aggregates 2.6 million US car accident records from January 2017 to December 2019.

excluding Hawaii and Alaska.



CHOOSE FROM:

- ○ Count of Accidents
- ◉ Accidents per 1,000 residents

YEAR RANGE

2017 — 2019

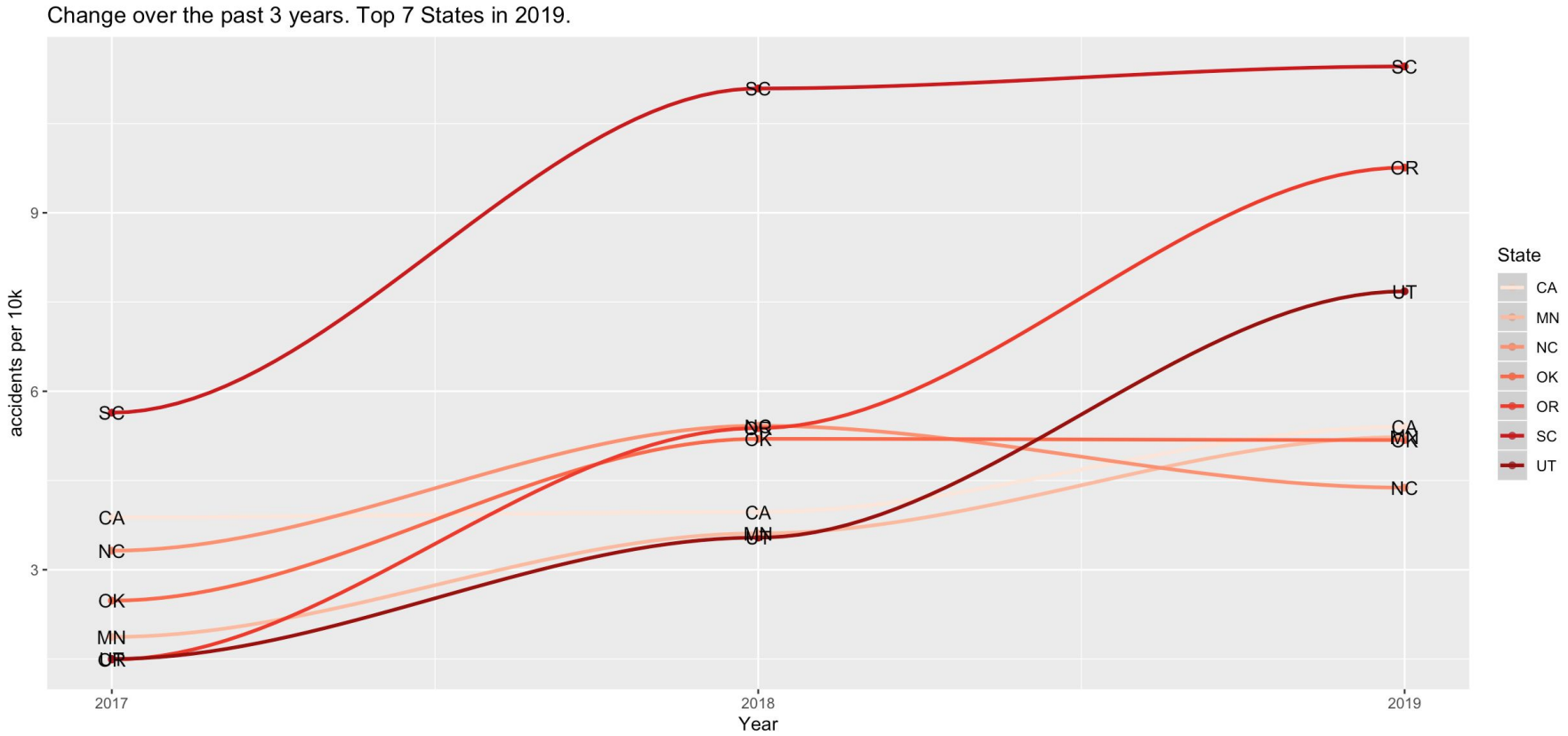
2017 2018 2019

Hover over the states to see more detail.

NO.1: South Carolina

NO.2: Oregon

NO.3: California


Change over the past 3 years. Top 7 States in 2019.
accidents per 10k
9
6
3
2017
2018
2019
Year
SC
OR
UT
CA
NC
OK
MN
State
CA
MN
NC
OK
OR
SC
UT

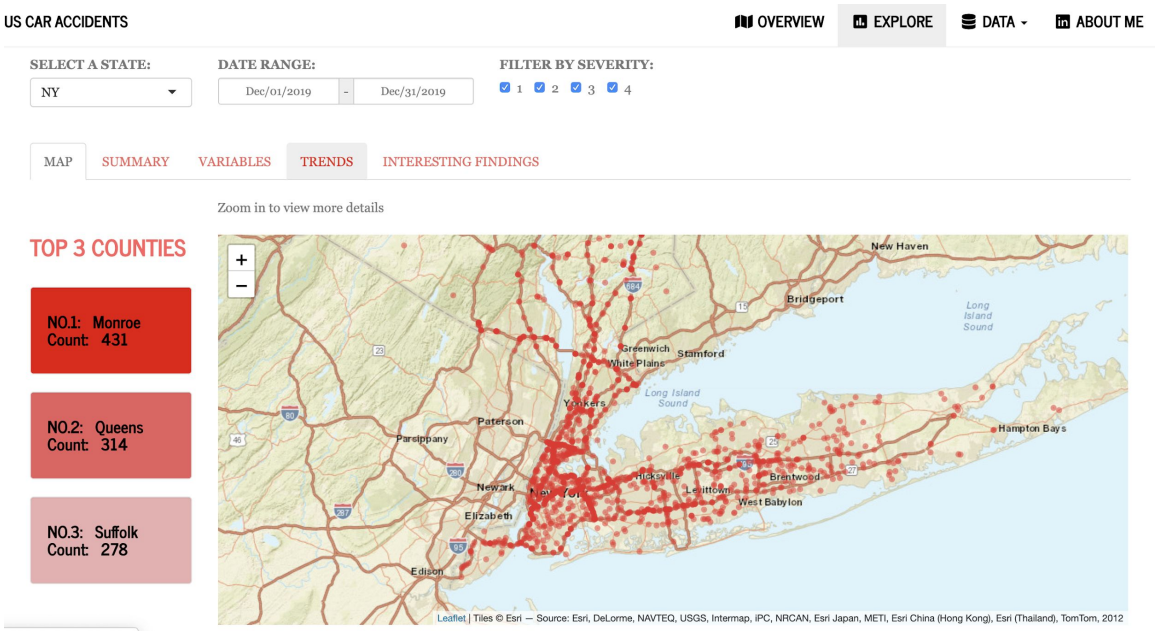
Explore

- Selection Panel

- Top 3 counties

- Any findings from the map?

(highways)

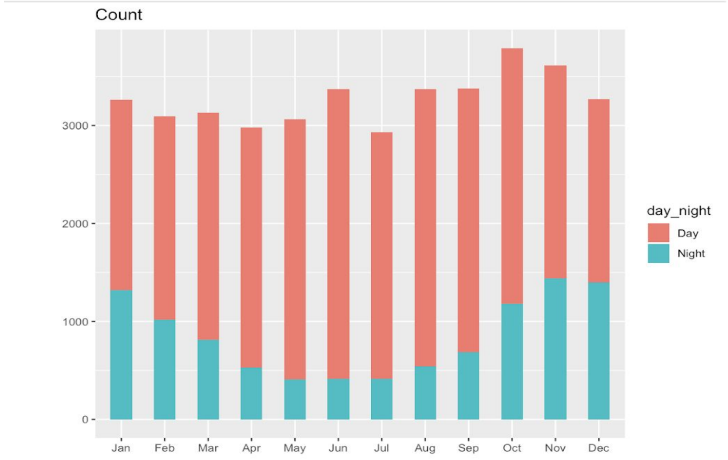


Severity vs Day_Night

SELECT A STATE: NY

DATE RANGE: Dec/01/2019 - Dec/31/2019

FILTER BY SEVERITY: 1 2 3 4

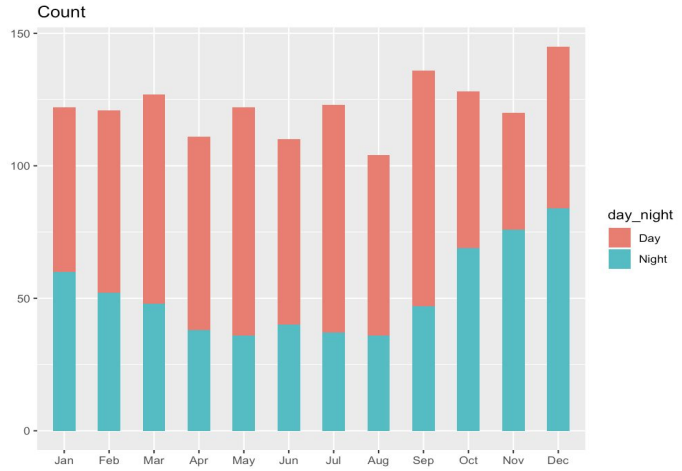


VS

SELECT A STATE: NY

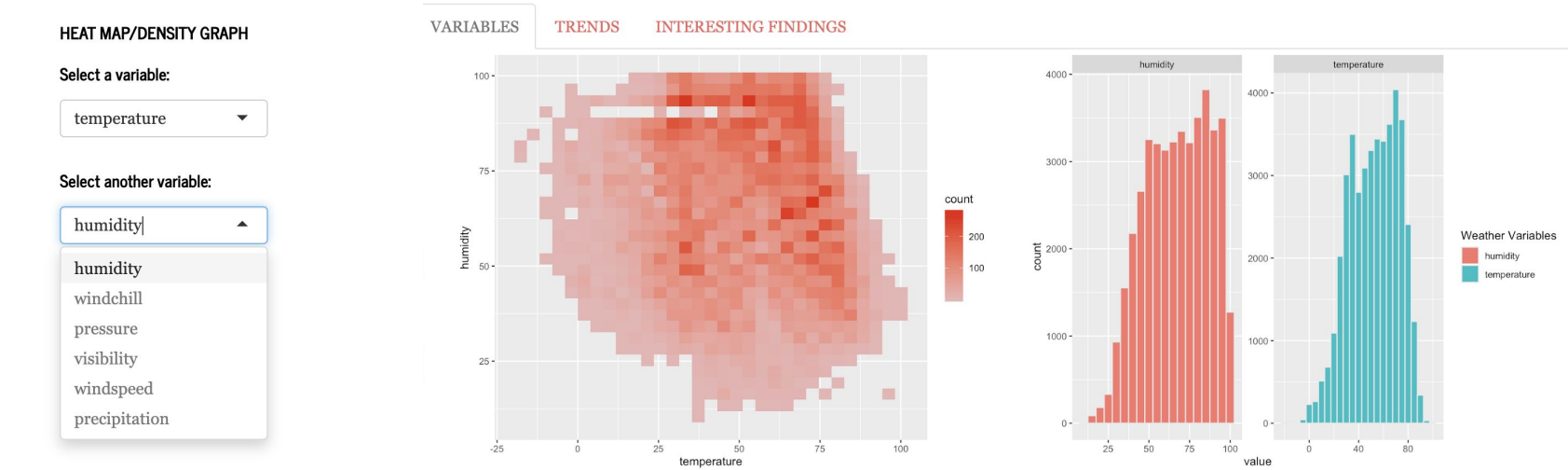
DATE RANGE: Dec/01/2019 - Dec/31/2019

FILTER BY SEVERITY: 1 2 3 4



Weather Variables

- Interactive dropdown



Time Series Chart

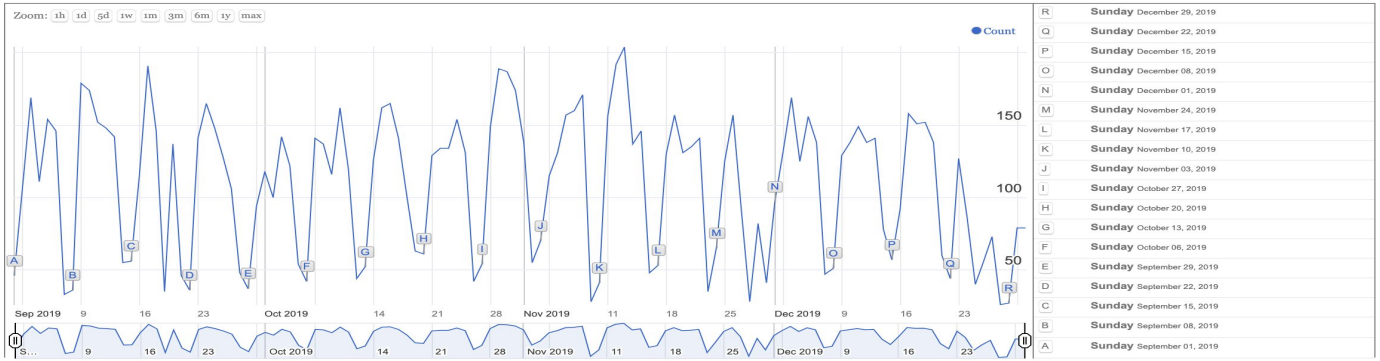
SELECT A STATE: NY

DATE RANGE: Sep/01/2019 – Dec/31/2019

FILTER BY SEVERITY: 1 2 3 4

MAP | SUMMARY | VARIABLES | TRENDS | INTERESTING FINDINGS

Number of Car Accidents Over Time



Data Tables

US CAR ACCIDENTS

OVERVIEW EXPLORE DATA ABOUT ME

- ACCIDENTS DATA
- POPULATION DATA
- INSURANCE DATA

Dataset is very large with 3 million records.

Choose a state:

AL

Source: Kaggle

Show 10 entries

Search:

Severity	Start_Lat	Start_Lng	City	County	State	temperature	windchill	humidity	pressure	visibility	windspeed	pre
2	31.987831	-85.114471	Eufaula	Barbour	AL	82.9		49	29.96	10		
2	32.765179	-85.263687	Valley	Chambers	AL	85.6		50	30.1	10	3.5	
2	32.487099	-84.99881	Phenix City	Russell	AL	73		93	30.06	10	3.5	
2	32.080082	-85.149788	Pittsview	Russell	AL	82.4		79	30	10	3.5	
2	31.54051	-87.908562	Jackson	Clarke	AL	59	59	83	29.77	10	0	
2	33.174229	-87.475052	Tuscaloosa	Tuscaloosa	AL	49	49	83	29.85	10	3	
2	33.165249	-87.547287	Tuscaloosa	Tuscaloosa	AL	84	84	34	29.95	10	6	