

MEHRNAZ MOTAMED

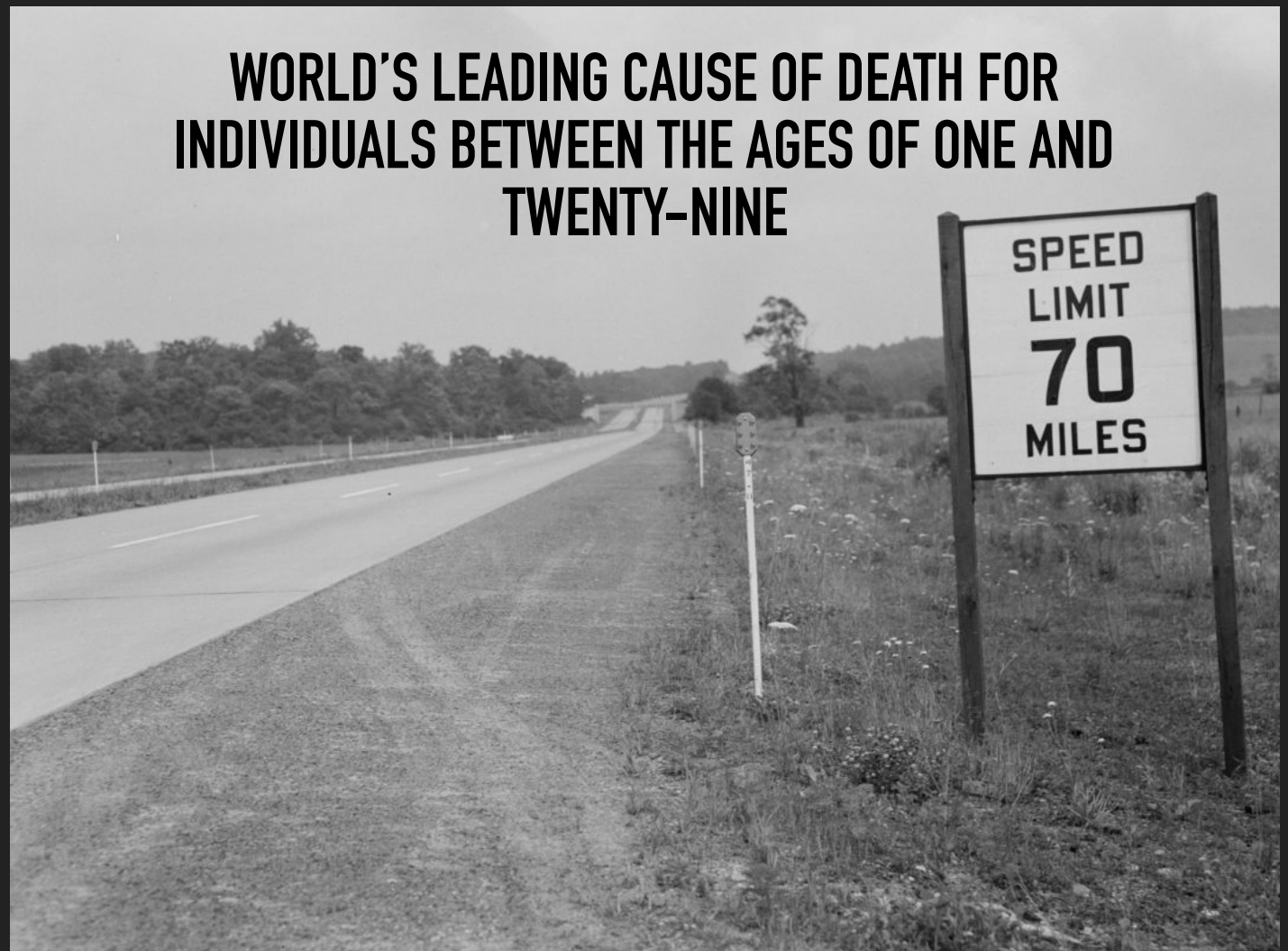
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# CRASH ANALYSIS

Globally, every year, about  
**1.25 million people**  
are killed in motor vehicle crashes

and approximately **50**  
**million** more are injured.

WORLD'S LEADING CAUSE OF DEATH FOR  
INDIVIDUALS BETWEEN THE AGES OF ONE AND  
TWENTY-NINE







# WHY?

CAUSE OF CRASH: WEATHER, SPEEDING, ALCOHOL CONSUMPTION,...

# WHO SHOULD BE INTERESTED?



INSURANCE COMPANIES



LAW MAKERS



TRANSPORTATION AGENCIES



HEALTH DEPARTMENTS



POLICE



EDUCATION INSTITUTION



# WHAT CAN WE INFER FROM THE CAR CRASH DATA?

**Time**

**Place**

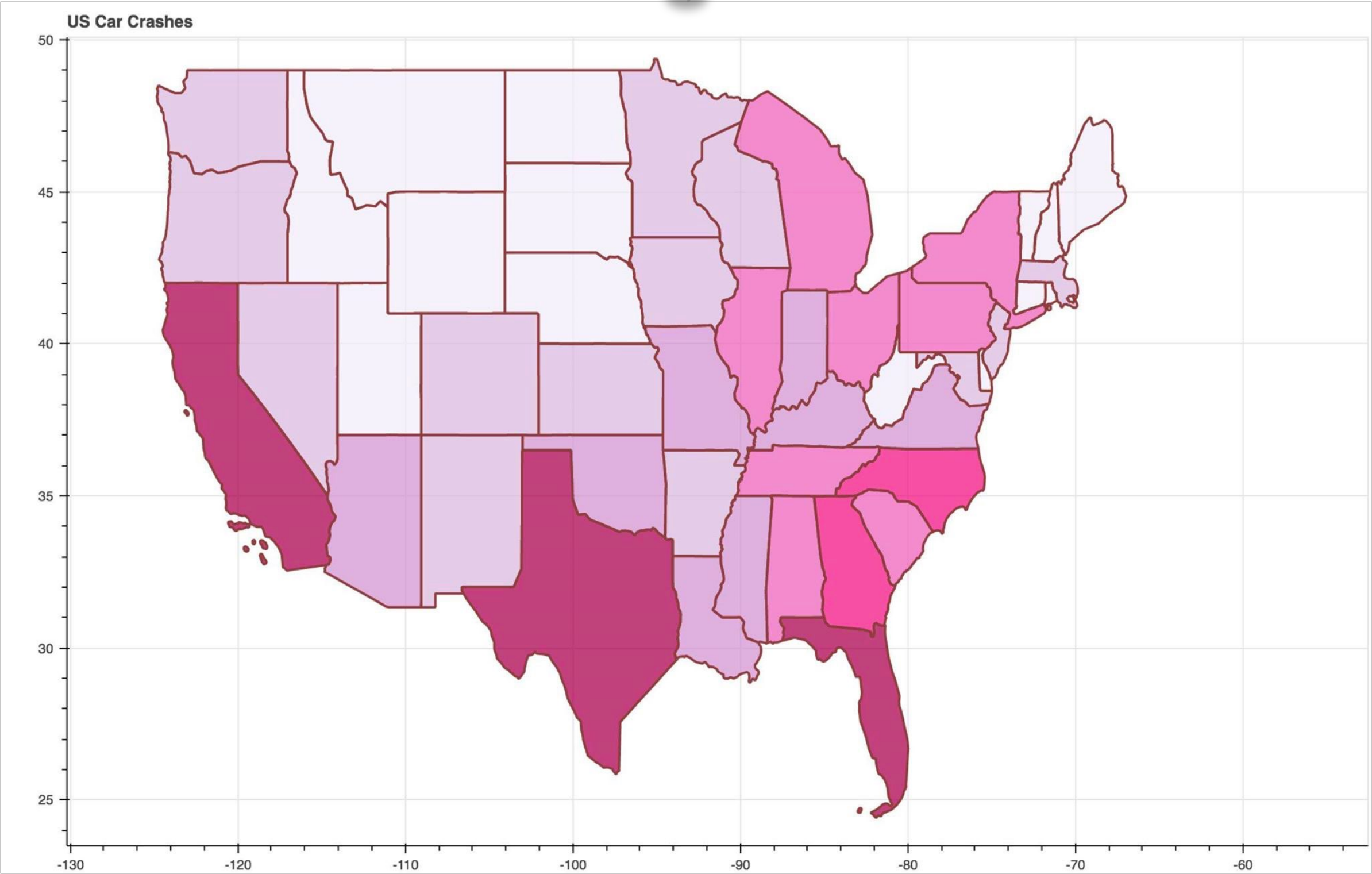
**Vehicle**

**# of Crashes**

1994-2016

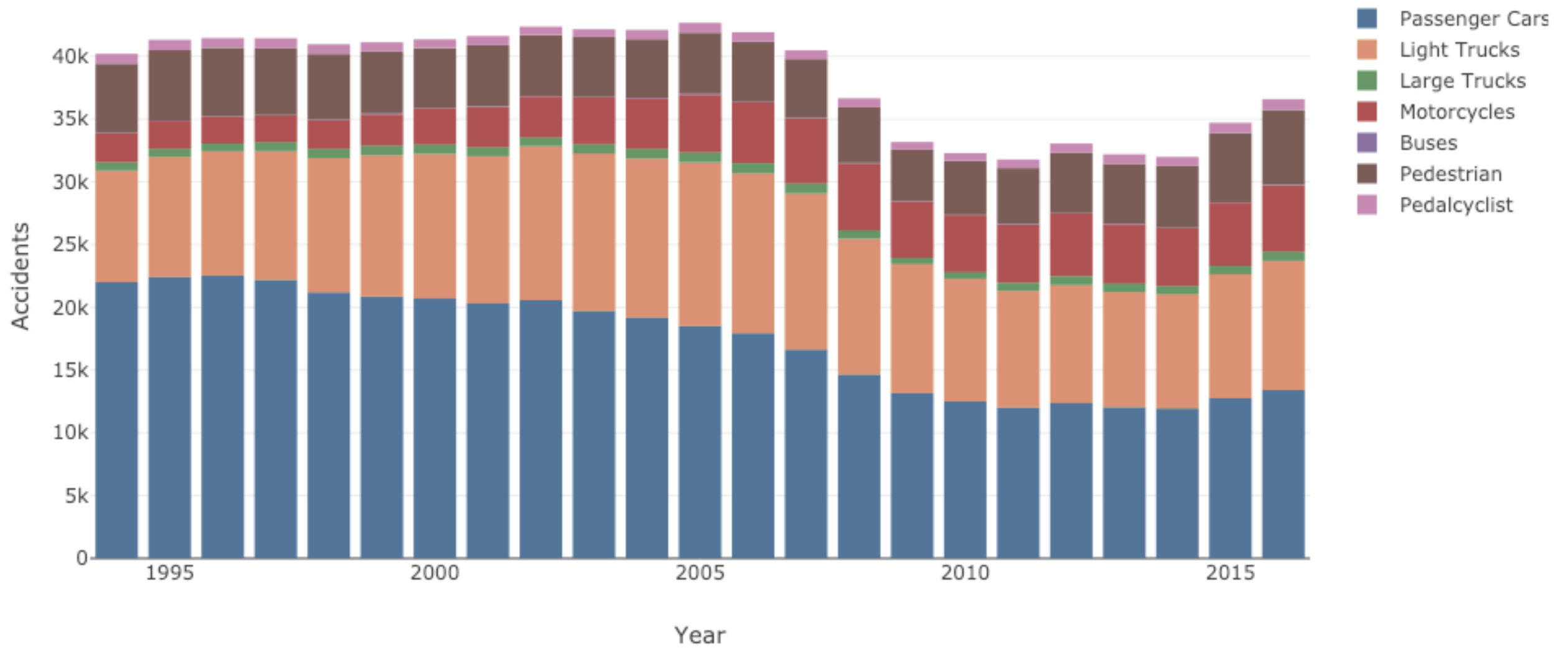


# Location

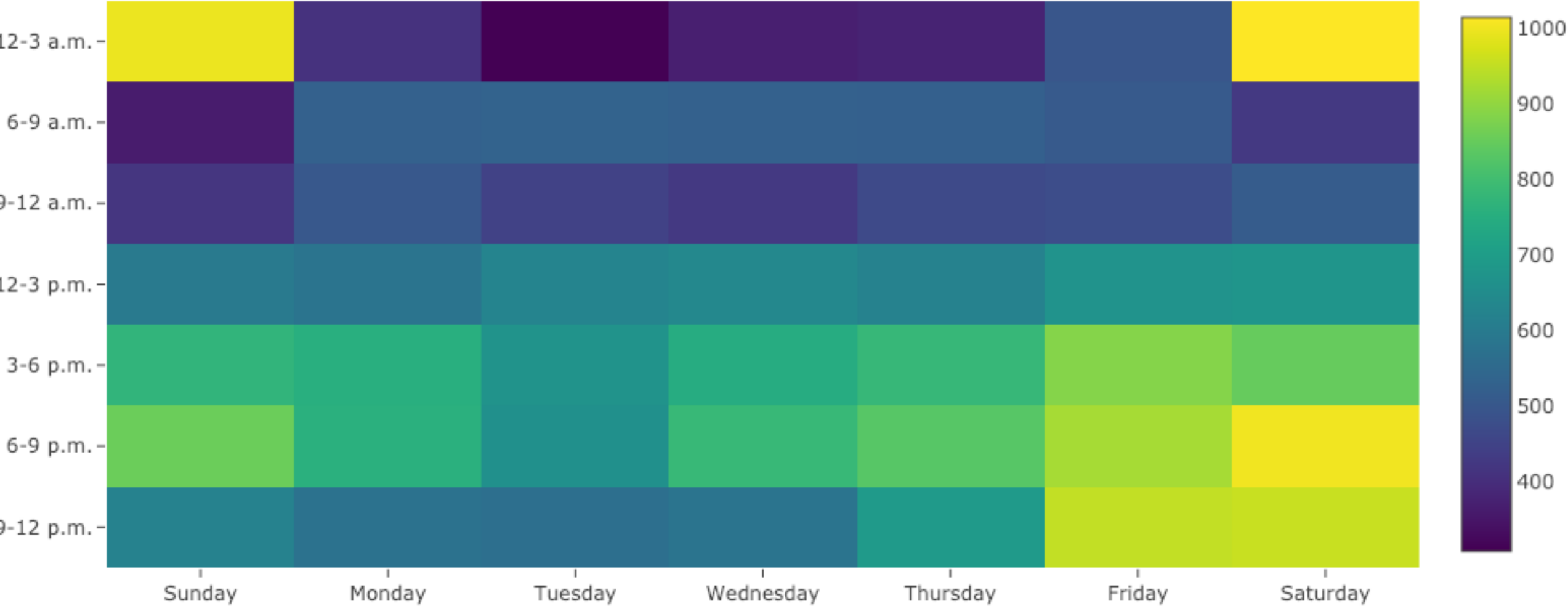


# Vehicle

Relative Barmode



# TIME





- **60%** OF CAR CRASHES INVOLVED ONLY ONE VEHICLE (2014,2015)
- FATAL CRASHES DECREASED BY **0.7%** FROM 2014 TO 2015.
- **MOTORCYCLES** IN FATAL CRASHES IN 2015 HAD THE **HIGHEST** PROPORTION OF COLLISIONS WITH **FIXED OBJECTS** (25.3%), AND **BUSES** IN FATAL CRASHES HAD THE **LOWEST**(2.6%).

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## ALCOHOL

- ▶ The percent of alcohol-impaired driving fatalities has **declined** from 48 percent in 1982 to 31 percent in 2015.
- ▶ **30%** of all fatal crashes in 2014 involved alcohol.
- ▶ For fatal crashes occurring from **midnight to 3 a.m.**, **61%** involved alcohol.

## GENDER

- ▶ For every age group in 2015, the fatality rate per 100,000 population was **lower for females** than for males.

AGE, SEX, ALCOHOL RESULTS, WHETHER, HOLIDAYS, FATALITY RATES,...

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# WHAT IS THE NEXT STEP?

LET'S FIND OUT TOGETHER!

THE DATA INCUBATOR CHALLENGE