

Gun Permits in the US

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Do states with
more gun permits
have higher crime
rates?

The Experiment

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Data

- Number of permits data per state per month per year, from 1998 to 2018
 - Recorded gun crime incidents from 2013 to 2018, including date, place and number of casualties
 - Mass shooting data subset including casualties, date and location.
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Hypothesis

Hypothesis support

I think this is what's going to happen...

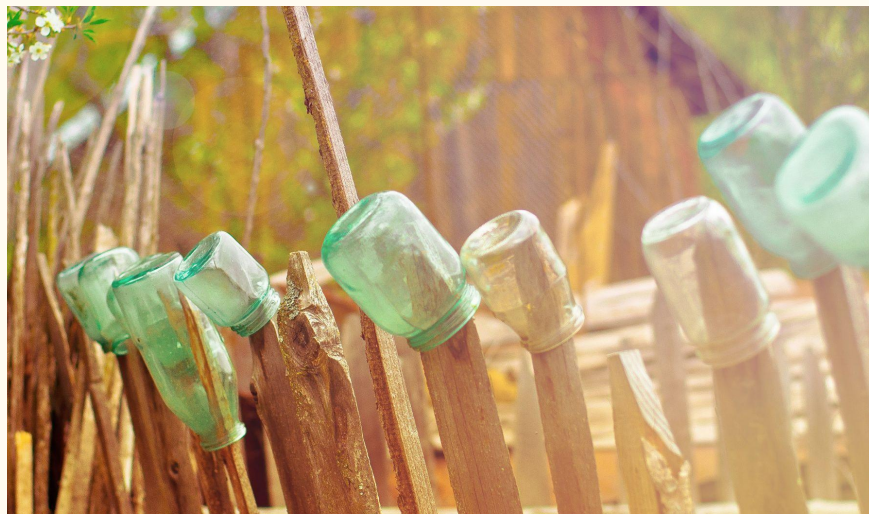
- We think number of permits per state does correlate to higher gun related crimes

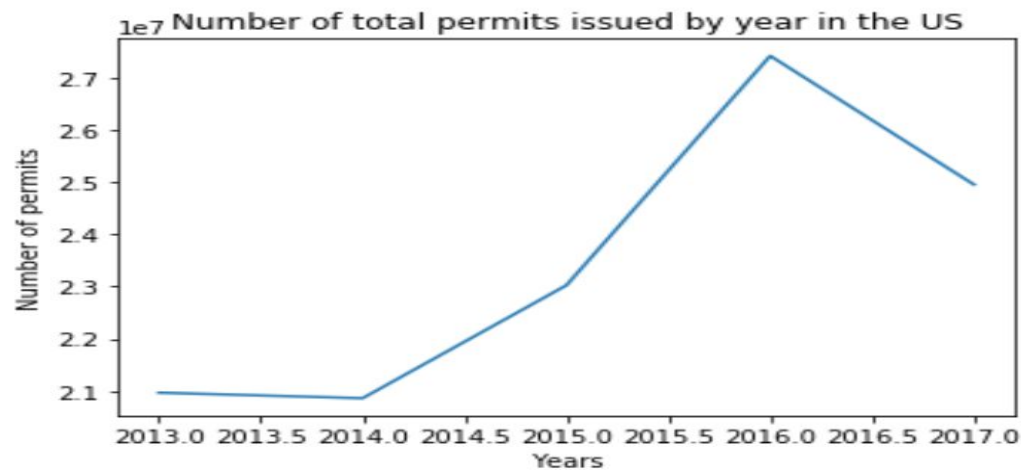
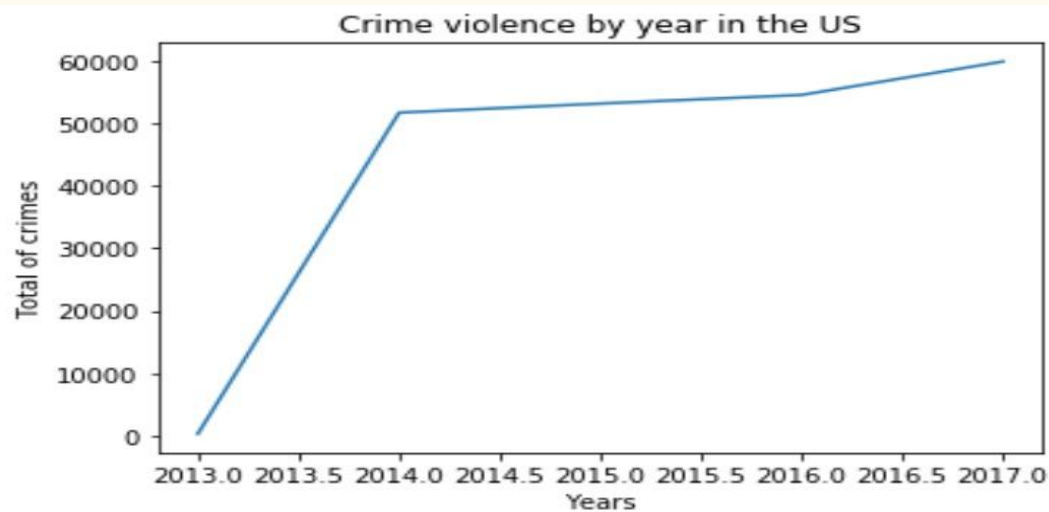
Variables that may affect the outcome...

- Number of rechecked permits
- Definition of crime
- The dates when states approved the right-to-carry law

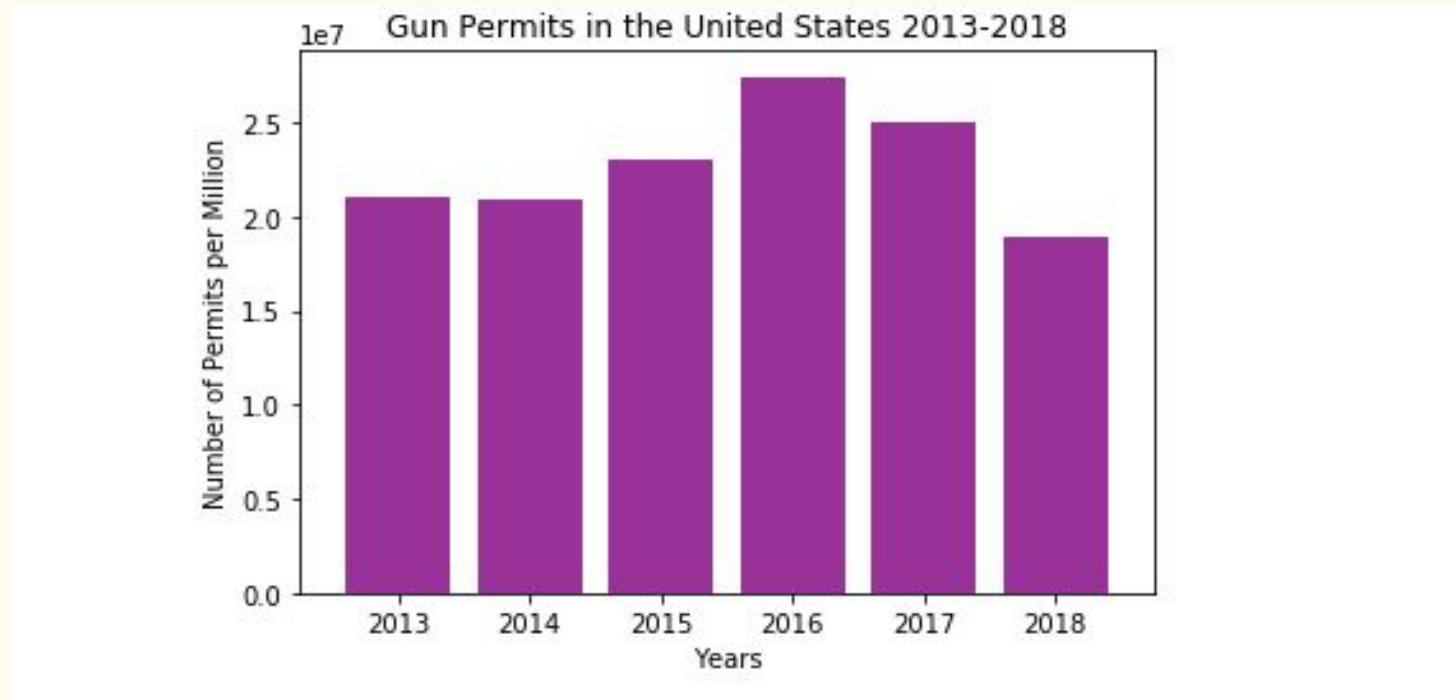
Data cleaning

1. From our incidents file, we extracted some useful information such as date, lat and long.
2. On our permits file, we have to modify and filter the date column in order to match the previous file's dates
3. Sum up the number of permits of different types of guns to get the totals by state

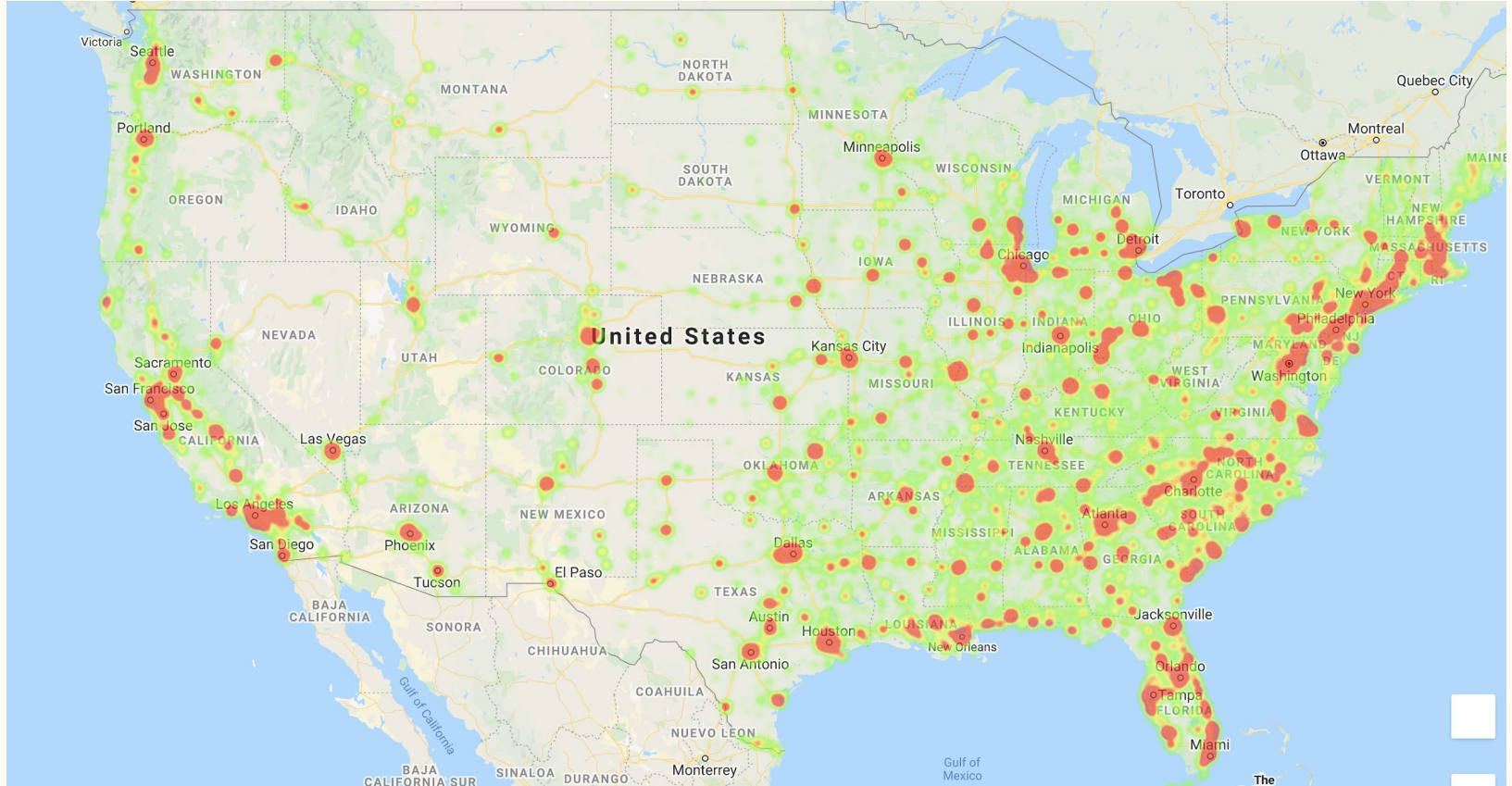




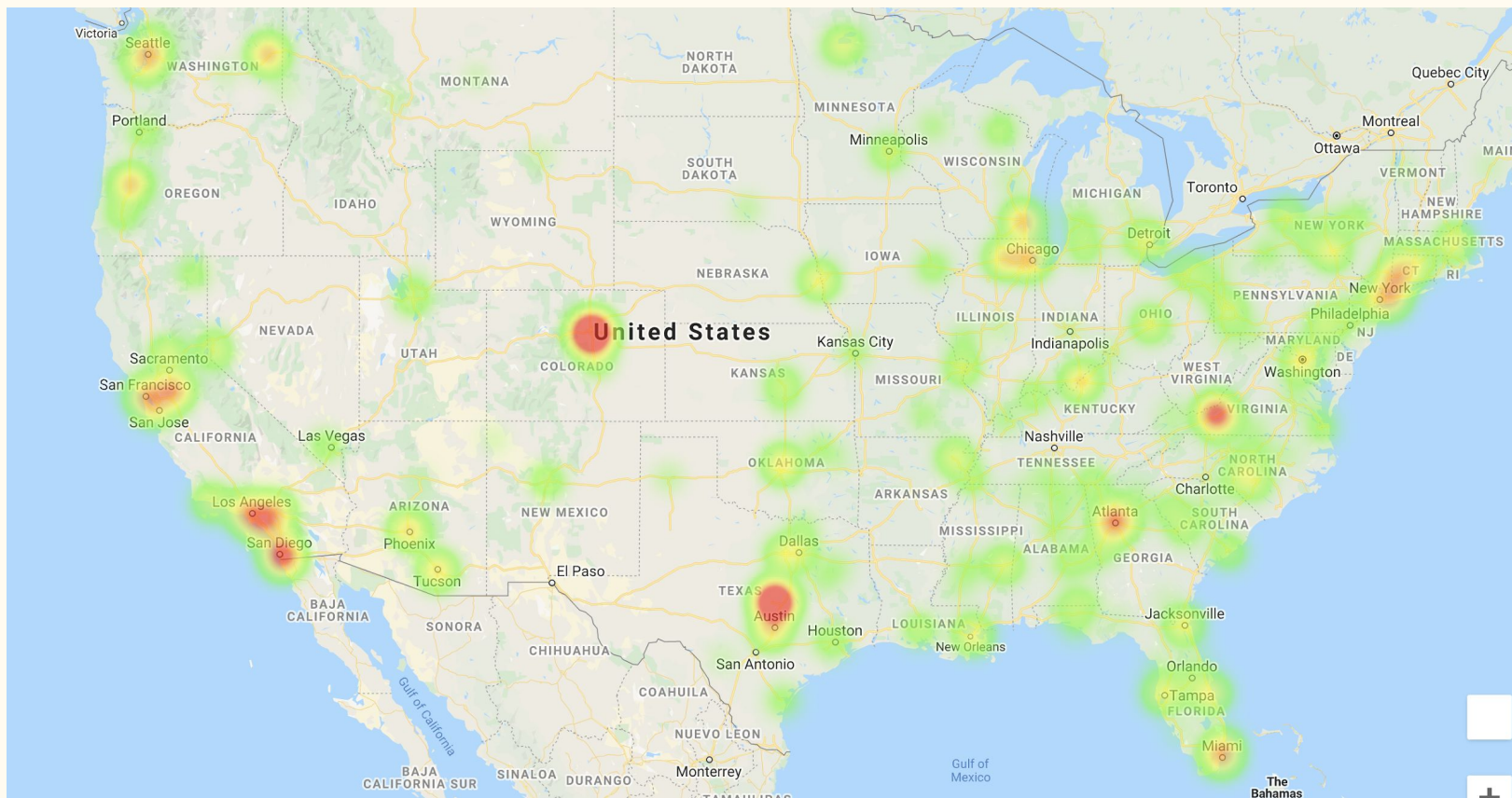
Gun Permits Per Year



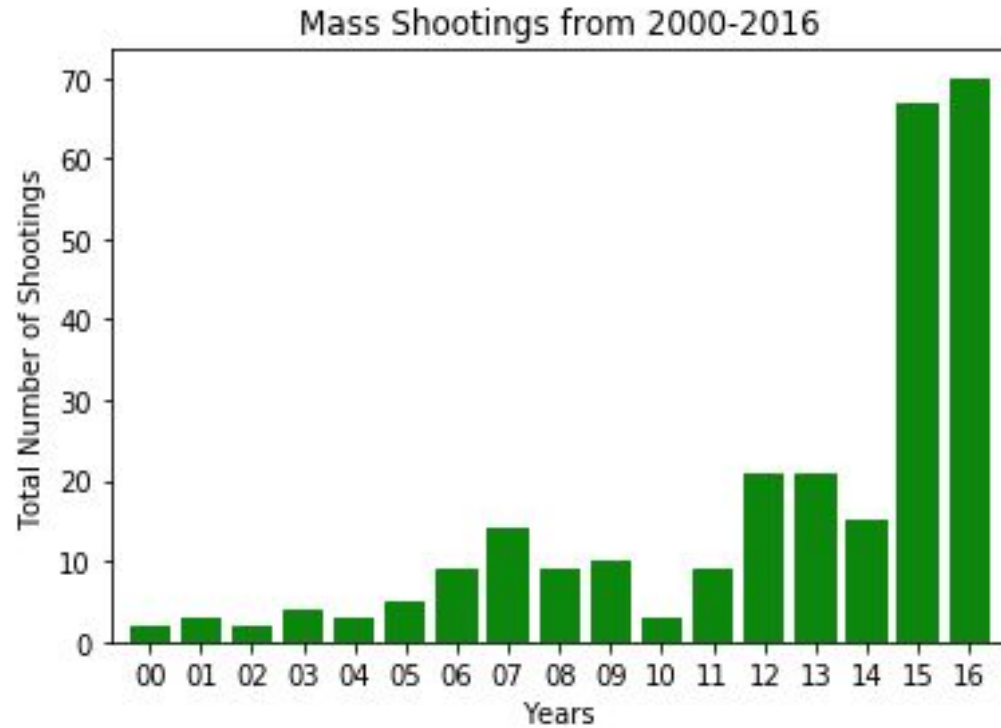
Crime data in the US



Mass shooting in the US



Mass Shootings in the United States



Conclusion

- No visible correlation between permits and gun crime
- Permits more correlated to mass shootings, but other factors could contribute
- Potential relation between location and number of incidents

Lessons learned

- Asking the right questions/
finding right data
- Planning
- Not enough data

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