

Data visualization

Goals of visualization

- ▶ As presentation of numerical information
- ▶ As eye-catching illustrations

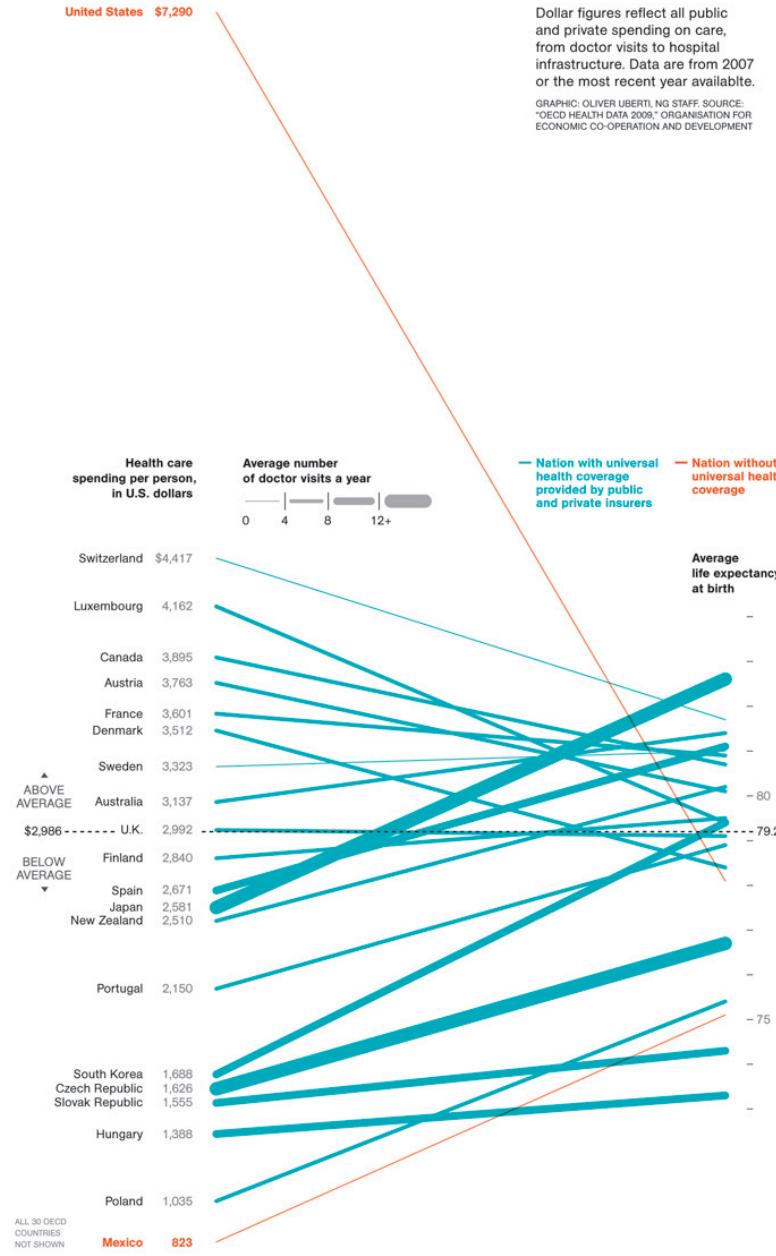


Figure 14. A dramatic display showing that the United States spends much more on health care per person than other developed countries but remains in the middle of the pack in life expectancy. From the standpoint of statistical data visualization, we would prefer a simple scatterplot such as shown in Figure 15, but Figure 14 does a great job of dramatizing to non-statisticians the outlier status of the U.S.

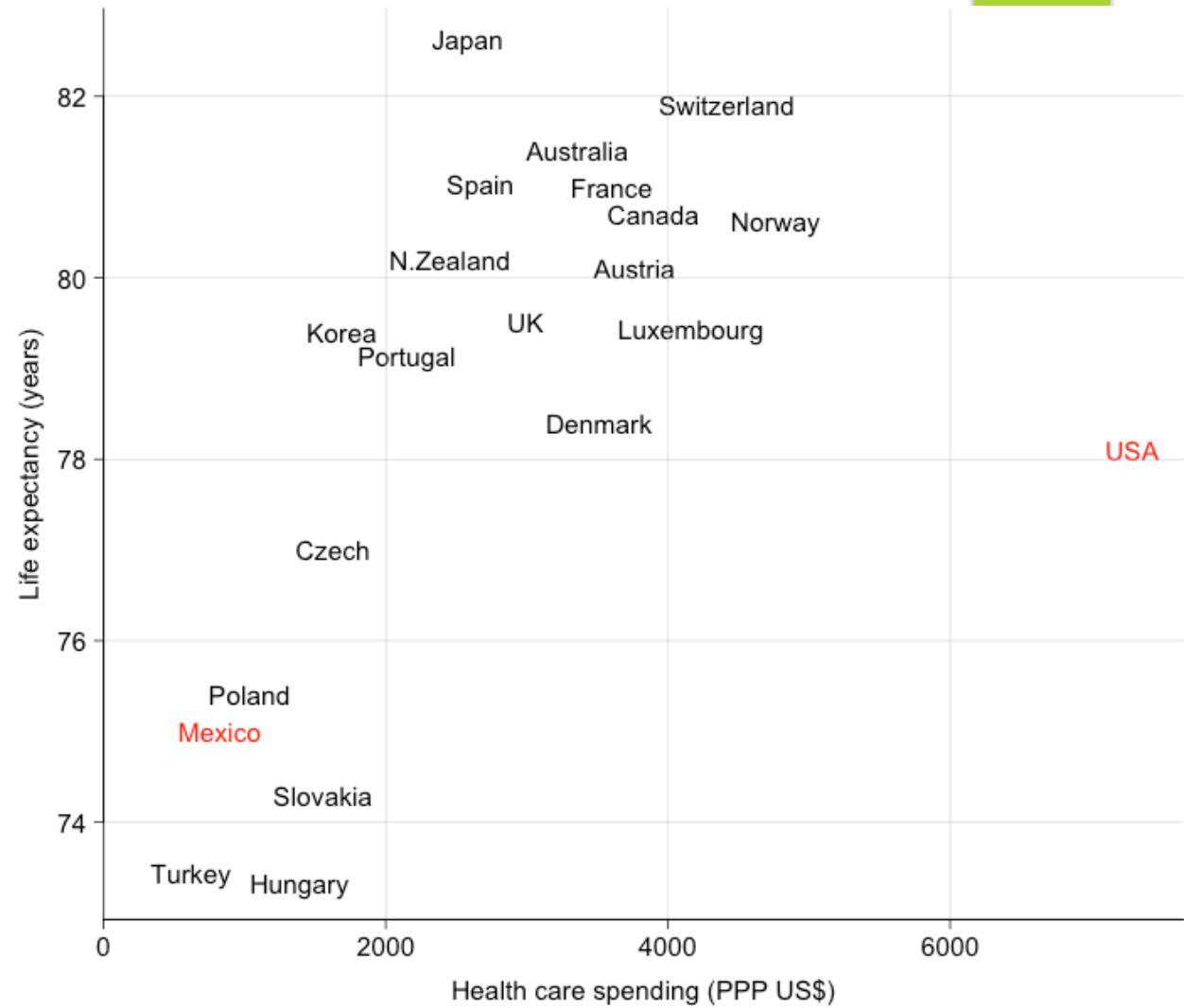


Figure 15. A scatterplot that displays the health-spending/life-expectancy data in Figure 14, but more transparently, more informatively, and in less space. Figure 14 is a dramatic display, while Figure 15 shows the pattern of the two variables more clearly. The two displays serve different goals, and an online display might start with Figure 14 and then reveal Figure 15 with a click.



Watch the Growth of Walmart and Sam's Club

Walmart (blue) started slow in 1962 and then spread like wildfire in the southeast, starting in 1970, and then made its way towards the west coast. Sam's Club starts to sprout up in the 1980s with bursts up to present.

<http://projects.flowingdata.com/walmart/>

Hans Rosling's famous lectures combine enormous quantities of public data with a sport's commentator's style to reveal the story of the world's past, present and future development.

In this spectacular section of 'The Joy of Stats' he tells the story of the world in 200 countries over 200 years using 120,000 numbers - in just four minutes.

Plotting life expectancy against income for every country since 1810, Hans shows how the world we live in is radically different from the world most of us imagine.

<https://www.youtube.com/watch?v=jbkSRLYSojQ>



Hans Rosling
@HansRosling

Follow

Hans' son [@OlaRosling](#) writing: Hans sadly died today! But his dream of a fact-based worldview, we will never let die! Follow [@Gapminder](#)

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692

6.4K

10K

Project 2 apps from the past

Noises around you

<https://github.com/TZstatsADS/Fall2016-proj2-grp8>

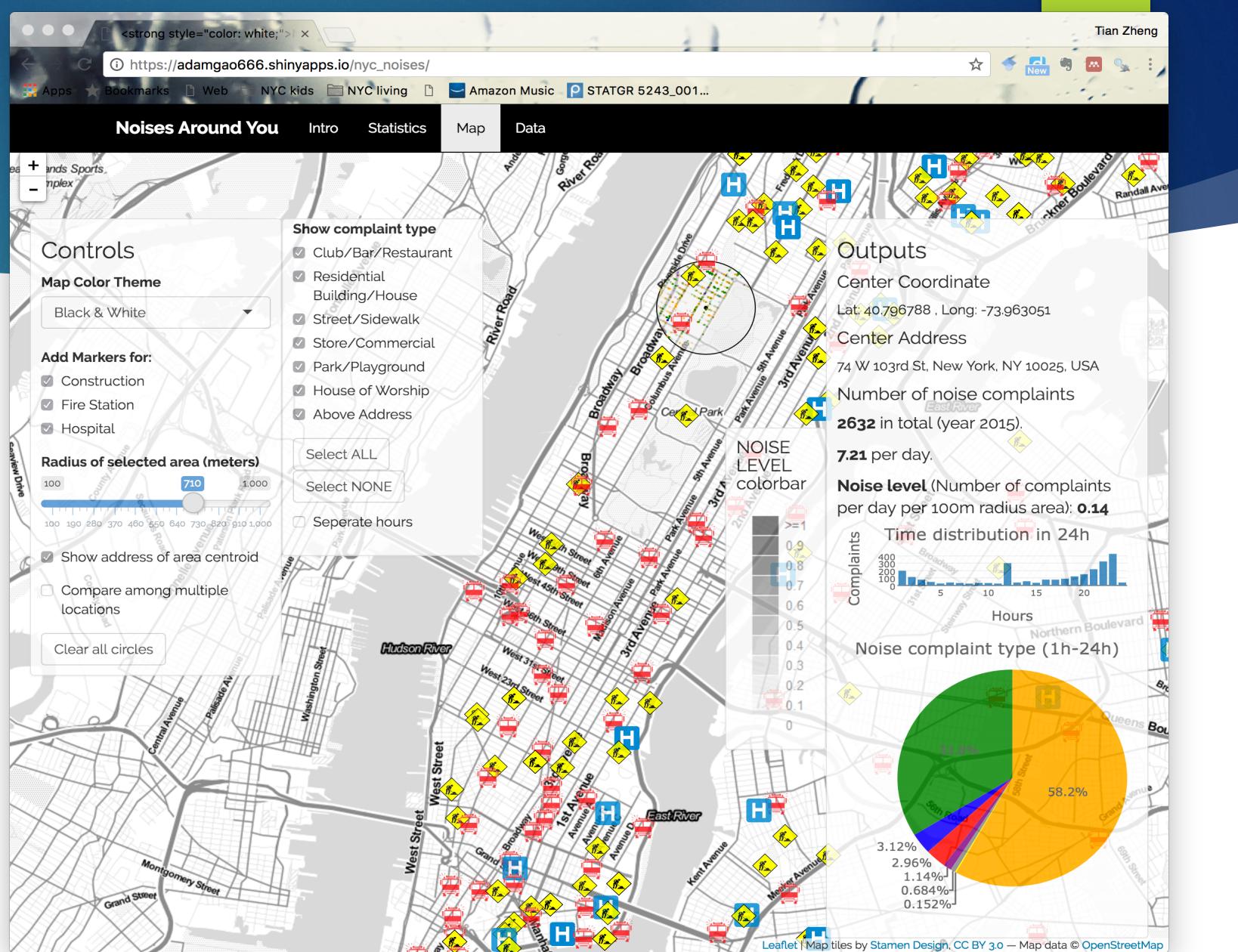
Traffic Care

<https://github.com/TZstatsADS/Fall2016-Proj2-grp14>

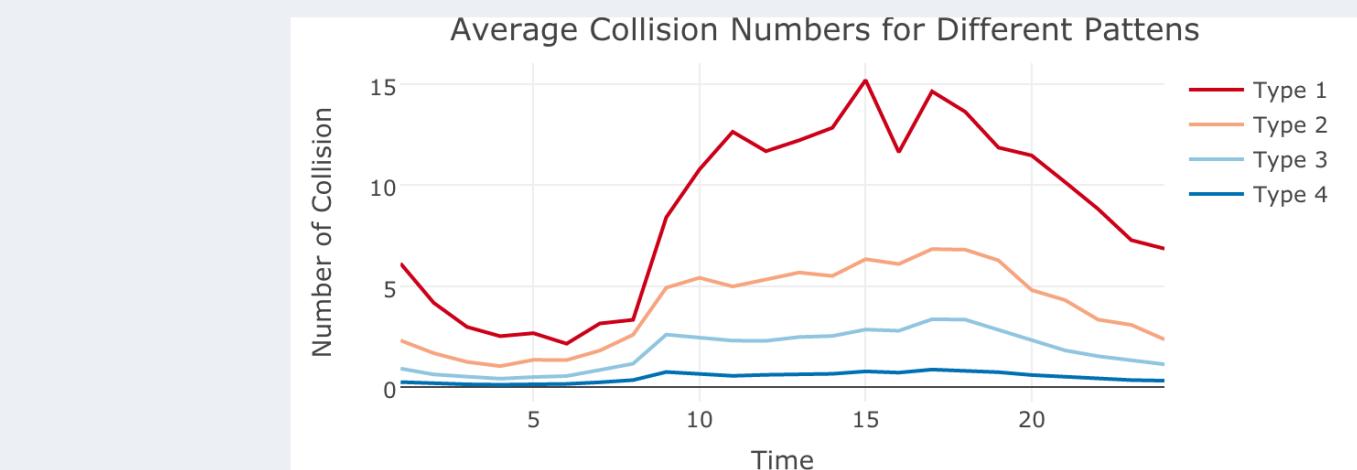
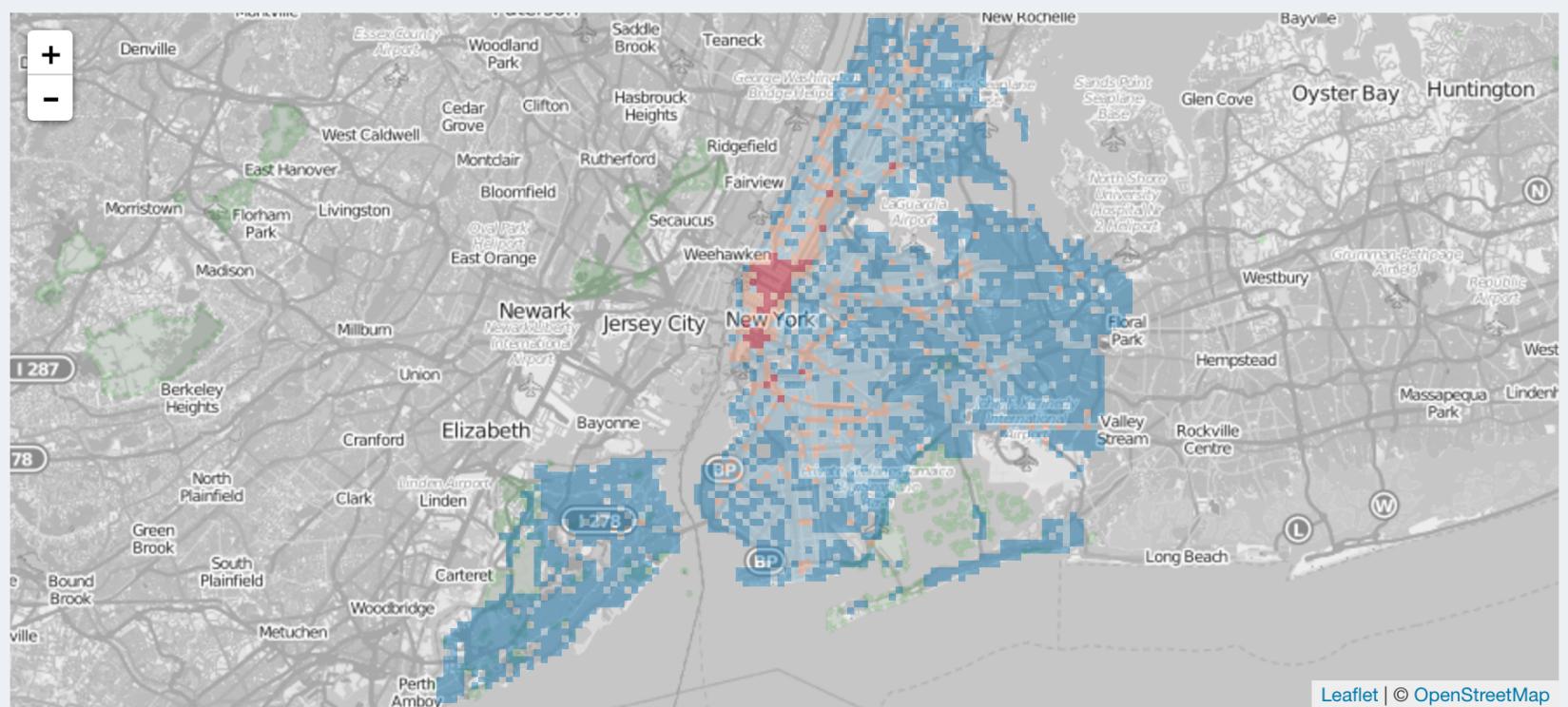
Parkman Go

<https://github.com/TZstatsADS/Fall2016-Proj2-grp4>

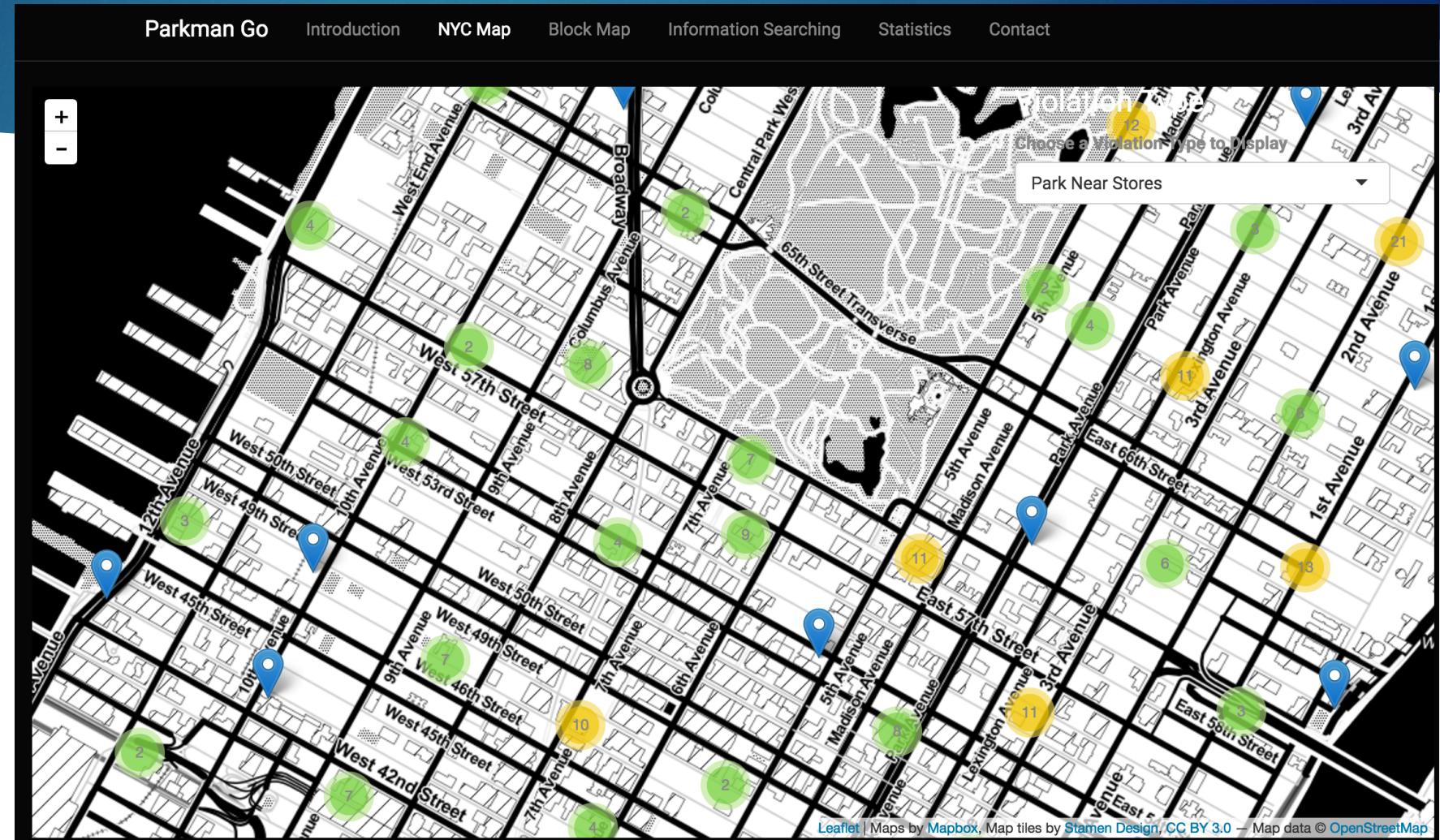
Noises around you



Traffic care



Parkman Go



Parkman Go

Parking Area Analysis

Enter the New York Address

2205 3rd AVE

Enter the Date (YYYY/MM/DD)

2016/09/13

Enter the Start Time (HH:MM)

20:00

Enter the Date (YYYY/MM/DD)

2016/09/15

Enter the End Time (HH:MM)

07:00

Select What to Show on Map

- Government Office
- Business Parking Lot

map

street view

