

The Most Dangerous Intersections in NYC

NYPD Vehicle Collision Data Shiny App Manual
by Fangzhou Cheng

NYPD Vehicle Collisions Data

Data Source

Source: [NYPD Motor Vehicle Collisions | NYC Open Data](#).

Description: Data Details of Motor Vehicle Collisions in New York City provided by the Police Department (NYPD).

Usage: Original dataset was downloaded on 07/07/2015, containing 618,358 accident records from 07/01/2012 to 07/05/2015. Because of the loading speed concern, this app uses only 10,000 random records from the original dataset.

Data Visualization by Shiny in R: https://funjo.shinyapps.io/NYPD_accidents_shiny

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Interactive Map

* One circle is one accident

Check Injuries by Vehicle:

Collision Vehicle 1 + Injuries (default):
Different colors = different vehicles (1 means it's the first recorded one in the 2-vehicle collision);
Bigger spots have more injuries.

Check Overall Injuries/Deaths:

Color: Injuries + Size: Injuries
There can be 0 injury in an accident!

Get Detailed Info per Location:

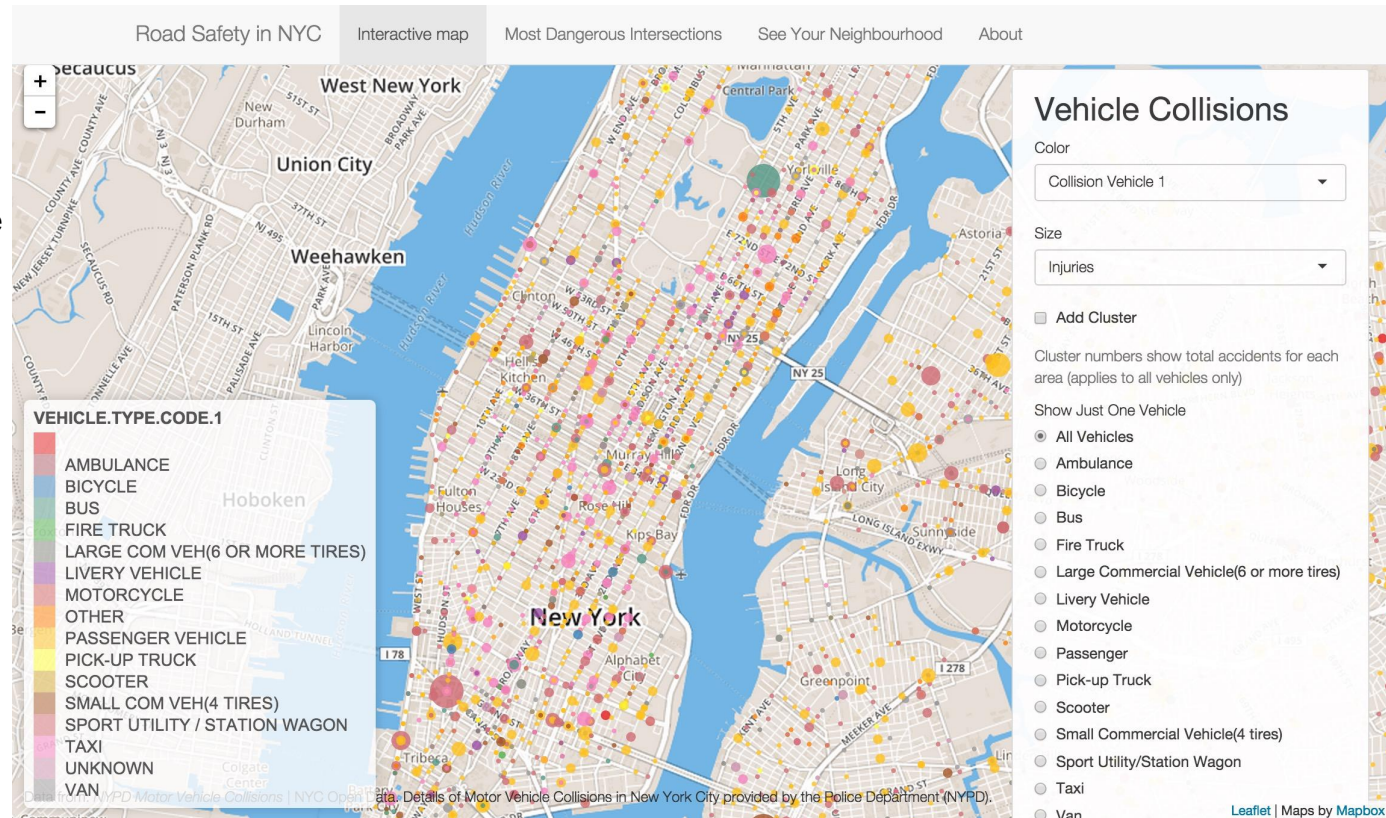
Click the circle

Explore Regional Total Accidents:

Check Add Cluster

Show Only One Type Vehicle:

Check Radio Button



Most Dangerous Intersections

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TOP 10 Intersections With The Most Accidents

Click ACTION BUTTON to view the intersection on the map

Choose ALL VEHICLES in interactive map to ensure the right popup info

Show 10 entries

Search:

	Borough	Zipcode	Street1	Street2	Accidents	Injuries	Deaths	Lat	Long	Action
1	BROOKLYN	11201	FLATBUSH AVENUE EXTENSION	TILLARY STREET	14	2	0	40.69603	-73.98453	
2	MANHATTAN	10036	WEST 42 STREET	8 AVENUE	11	0	0	40.75723	-73.98979	
3	MANHATTAN	10022	EAST 57 STREET	3 AVENUE	11	0	0	40.76022	-73.96746	
4	BROOKLYN	11207	LINDEN BOULEVARD	PENNSYLVANIA AVENUE	10	3	0	40.65858	-73.89063	
5	QUEENS	11354	NORTHERN BOULEVARD	PARSONS BOULEVARD	10	3	0	40.76465	-73.82348	
6	MANHATTAN	10001	WEST 31 STREET	8 AVENUE	10	0	0	40.75029	-73.99484	
7	QUEENS	11373	QUEENS BOULEVARD	WOODHAVEN BOULEVARD	9	2	0	40.73350	-73.87037	
8	MANHATTAN	10013	VARICK STREET	CANAL STREET	9	7	0	40.72255	-74.00630	
9	BRONX	10475	BARTOW AVENUE	BAYCHESTER AVENUE	9	5	0	40.86877	-73.83173	
10	QUEENS	11101	SKILLMAN AVENUE	THOMSON AVENUE	8	0	0	40.74524	-73.93770	

Showing 1 to 10 of 10 entries

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Calculation Rules:

* Ranked by the total number of accidents happened at the same latitude and longitude

* Among all boroughs in NYC

* Note the dataset is only 10,000 random records of 618,358 accidents from 07/01/2012 to 07/05/2015

View Location in the Map:

Click the Action icon in the table

See Your Neighbourhood!

YOUR TURN!

Find the most dangerous intersections in your neighbourhood!

Locate by Borough/Zip Code:

Use top input boxes

Locate by Street Name:

Use search box

Sort by Accidents/Injuries/Deaths:

Click column name in table header

View Location in the Map:

Click the Action icon in the table

Road Safety in NYC Interactive map Most Dangerous Intersections **See Your Neighbourhood** About

Boroughs Zipcodes

Click ACTION BUTTON to view the intersection on the map
Choose ALL VEHICLES in interactive map to ensure the right popup info

Show entries Search:

	Borough	Zipcode	Street1	Street2	Accidents	Injuries	Deaths	Lat	Long	Action
11	MANHATTAN	10017	EAST 42 STREET	2 AVENUE	8	1	0	40.74982	-73.97220	📍
13	MANHATTAN	10017	EAST 42 STREET	LEXINGTON AVENUE	8	3	0	40.75144	-73.97605	📍
8	MANHATTAN	10017	5 AVENUE	WEST 42 STREET	4	1	0	40.75348	-73.98089	📍
30	MANHATTAN	10017	EAST 42 STREET	ROOSEVELT DRIVE	4	0	0	40.74821	-73.96854	📍
29	MANHATTAN	10017	EAST 42 STREET	PARK AVENUE	3	2	0	40.75212	-73.97768	📍
16	MANHATTAN	10017	EAST 42 STREET	1 AVENUE	1	0	0	40.74880	-73.96985	📍
40	MANHATTAN	10017	EAST 42 STREET	3 AVENUE	1	0	0	40.75077	-73.97444	📍
43	MANHATTAN	10017	EAST 42 STREET	MADISON AVENUE	1	1	0	40.75280	-73.97929	📍

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