

How to Change a City with Data

Ben Wellington

Two Sigma Investments, I Quant NY

iquant.nyc [@iquantny](https://twitter.com/iquantny)

Data Storyteller



Data
Science



Data
Science



Urban
Planning



“Across City government, agencies use data to develop policy, implement programs, and track performance — and each month, our Administration shares more and more of this data with the public at large, catalyzing the creativity, intellect, and enterprising spirit of computer programmers to build tools that help us all improve our lives.”

-Mayor Bloomberg, 2012

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“Across City government, agencies use data to develop policy, implement programs, and track performance — and each month, our Administration shares more and more of this data with the public at large, catalyzing the creativity, intellect, and enterprising spirit of computer programmers to build tools that help us all improve our lives.”

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Policy Makers, Non-profits,
Planners, News Agencies, Bloggers,
Citizens , Advocates, etc.



[Click here for the official list of NYC datasets](#)



Business



City Government



Education



Environment



Health



Housing & Development



Public Safety



Recreation



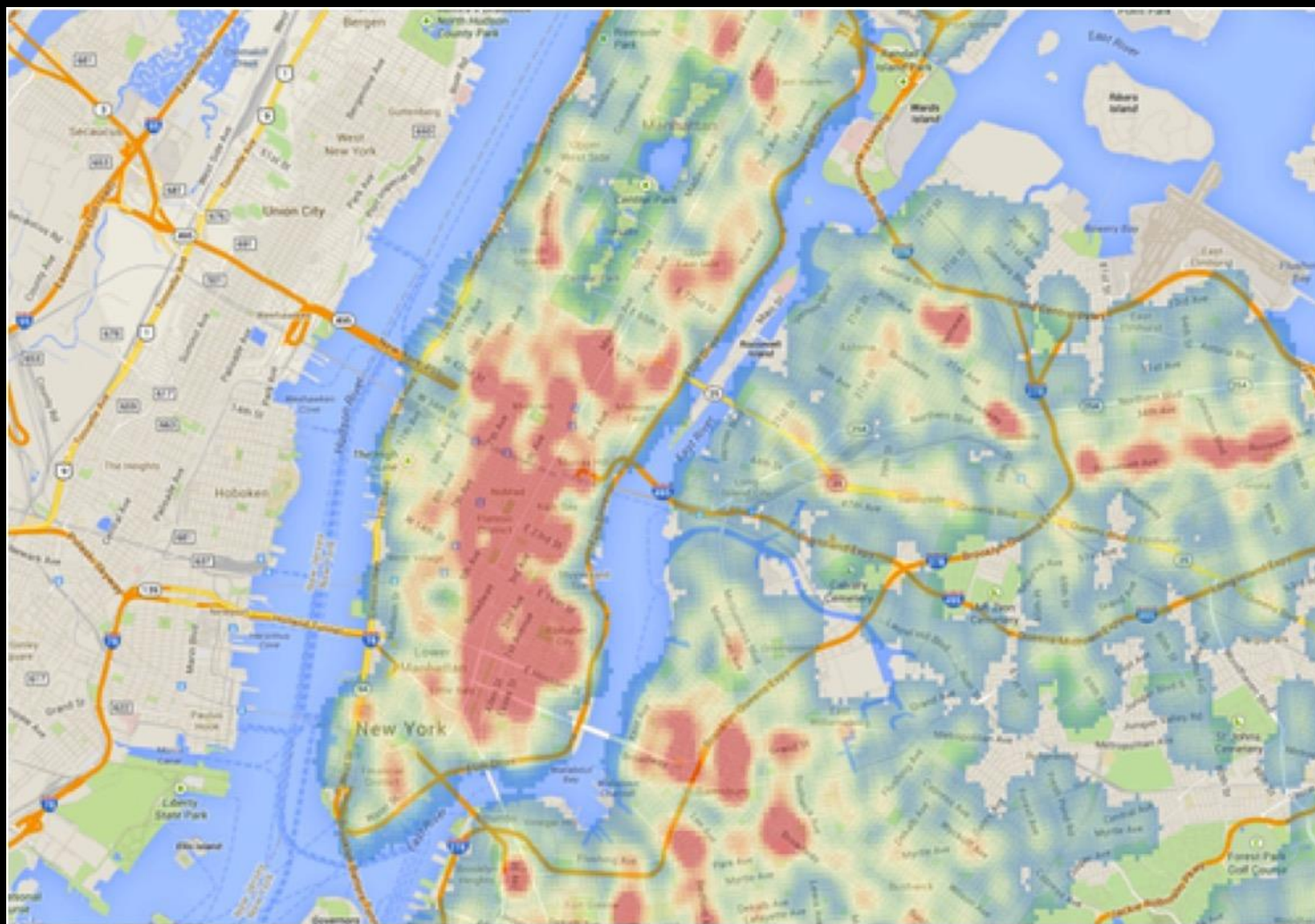
Social Services

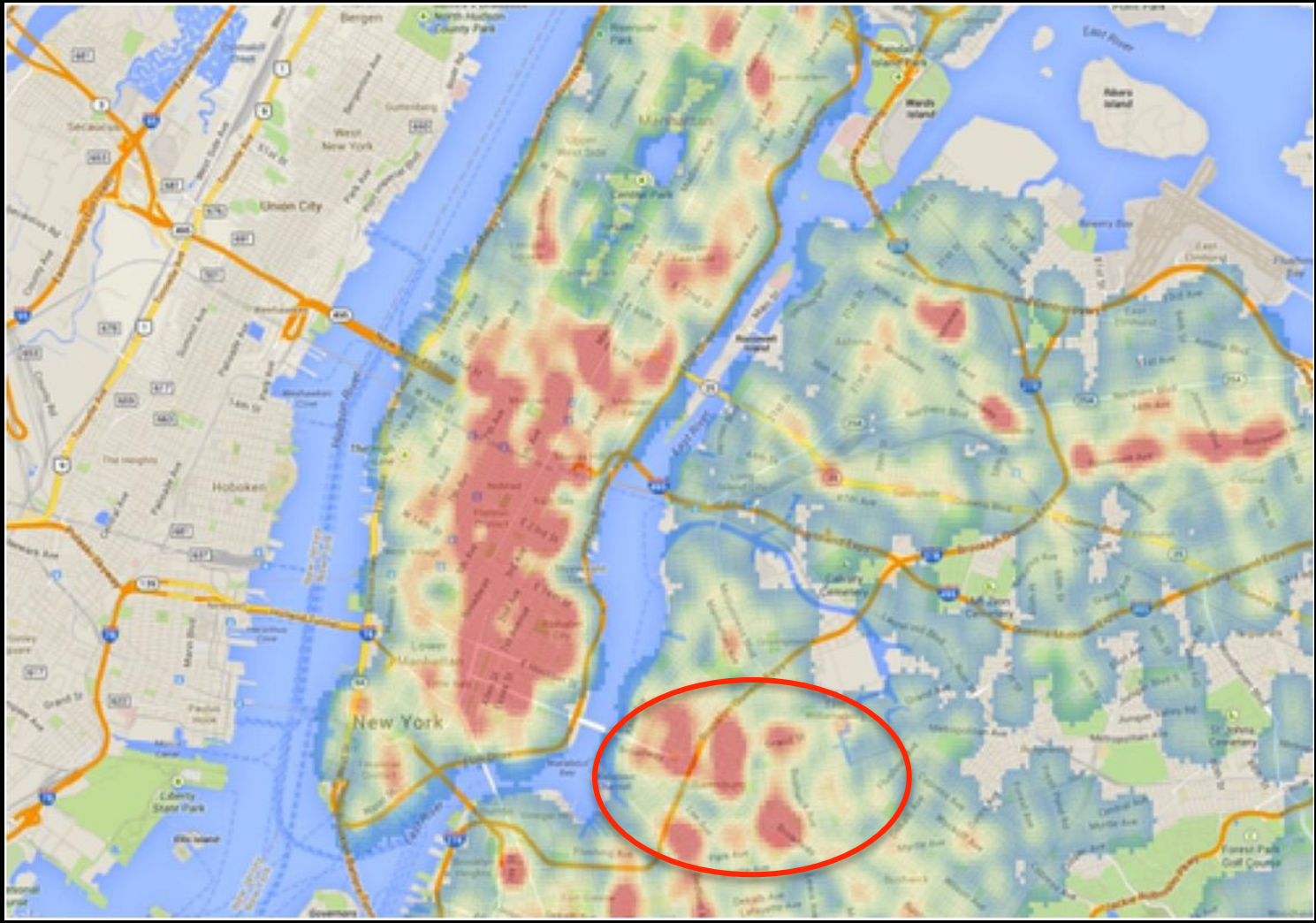


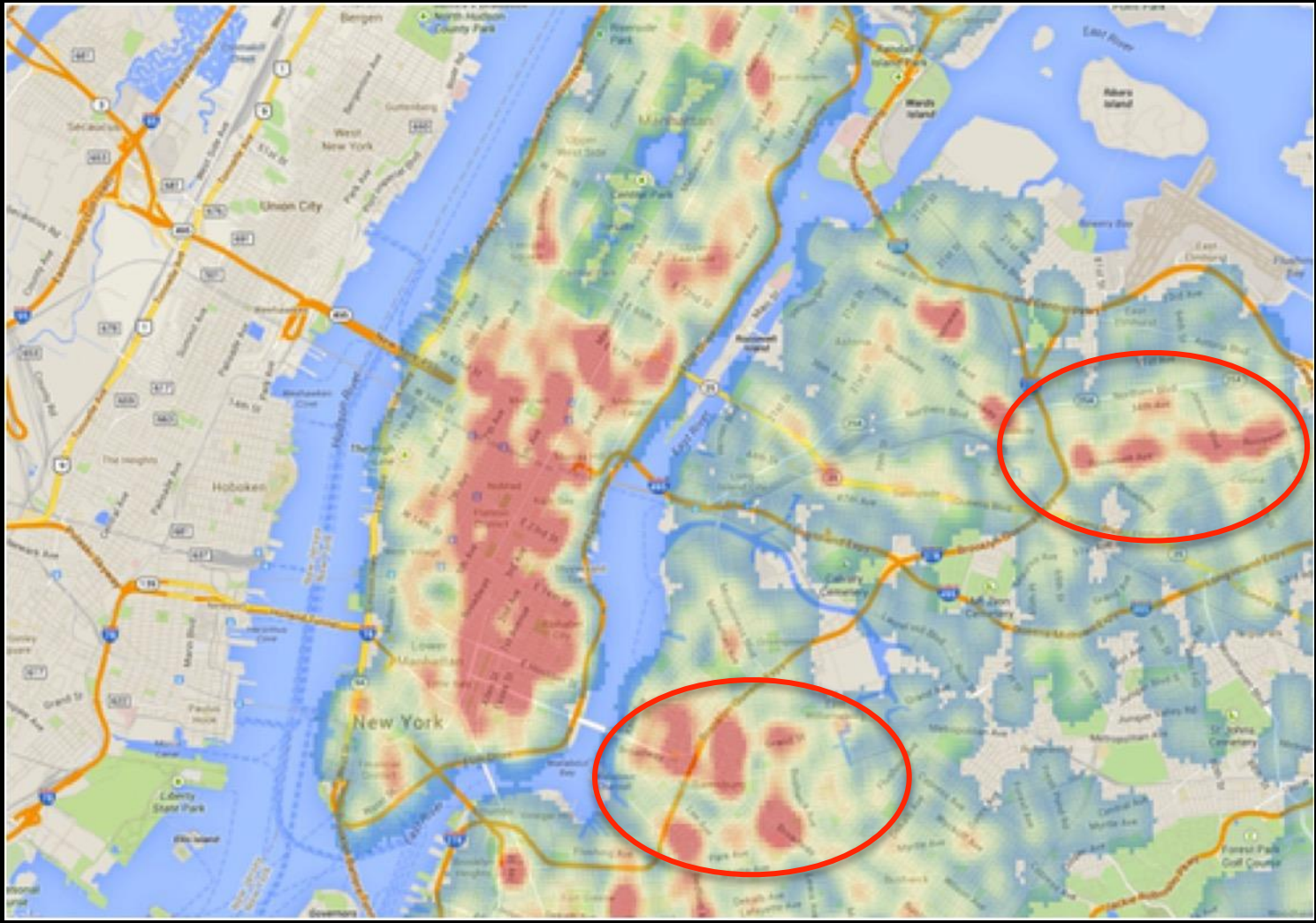
Transportation



NYC BigApps









Police Department City of New York

Motor Vehicle Collision Report Intersections

QUEENS

August 2014

[NYPD Precincts Map](#)

Intersection Address (***)	Number of Collisions	Persons Involved(*)	Collisions with Injuries	Category	Injured	Killed	Vehicle Types	Contributing Factors (**)
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100th Precinct

ALMEDA AVENUE and BEACH 64 STREET	1	2	0	Motorists Passengers Cyclists Pedestr Total	0 0 0 0 0	0 0 0 0 0	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Passenger vehicle</td> <td style="width: 20%;">1</td> </tr> <tr> <td>Sport utility / station wagon</td> <td>1</td> </tr> </table>	Passenger vehicle	1	Sport utility / station wagon	1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Driver inattention/distraction</td> <td style="width: 20%;">2</td> </tr> </table>	Driver inattention/distraction	2						
Passenger vehicle	1																			
Sport utility / station wagon	1																			
Driver inattention/distraction	2																			
BEACH 104 STREET and BEACH CHANNEL DRIVE	1	2	0	Motorists Passengers Cyclists Pedestr Total	0 0 0 0 0	0 0 0 0 0	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Large com veh(6 or more tires)</td> <td style="width: 20%;">1</td> </tr> <tr> <td>Passenger vehicle</td> <td>1</td> </tr> </table>	Large com veh(6 or more tires)	1	Passenger vehicle	1									
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BEACH 108 STREET and BEACH CHANNEL DRIVE	3	5	2	Motorists Passengers Cyclists Pedestr Total	3 0 0 0 3	0 0 0 0 0	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Motorcycle</td> <td style="width: 20%;">1</td> </tr> <tr> <td>Passenger vehicle</td> <td>1</td> </tr> <tr> <td>Sport utility / station wagon</td> <td>2</td> </tr> <tr> <td>Unknown</td> <td>1</td> </tr> </table>	Motorcycle	1	Passenger vehicle	1	Sport utility / station wagon	2	Unknown	1	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Failure to yield right-of-way</td> <td style="width: 20%;">1</td> </tr> <tr> <td>Unsafe lane changing</td> <td>1</td> </tr> </table>	Failure to yield right-of-way	1	Unsafe lane changing	1
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100th Precinct

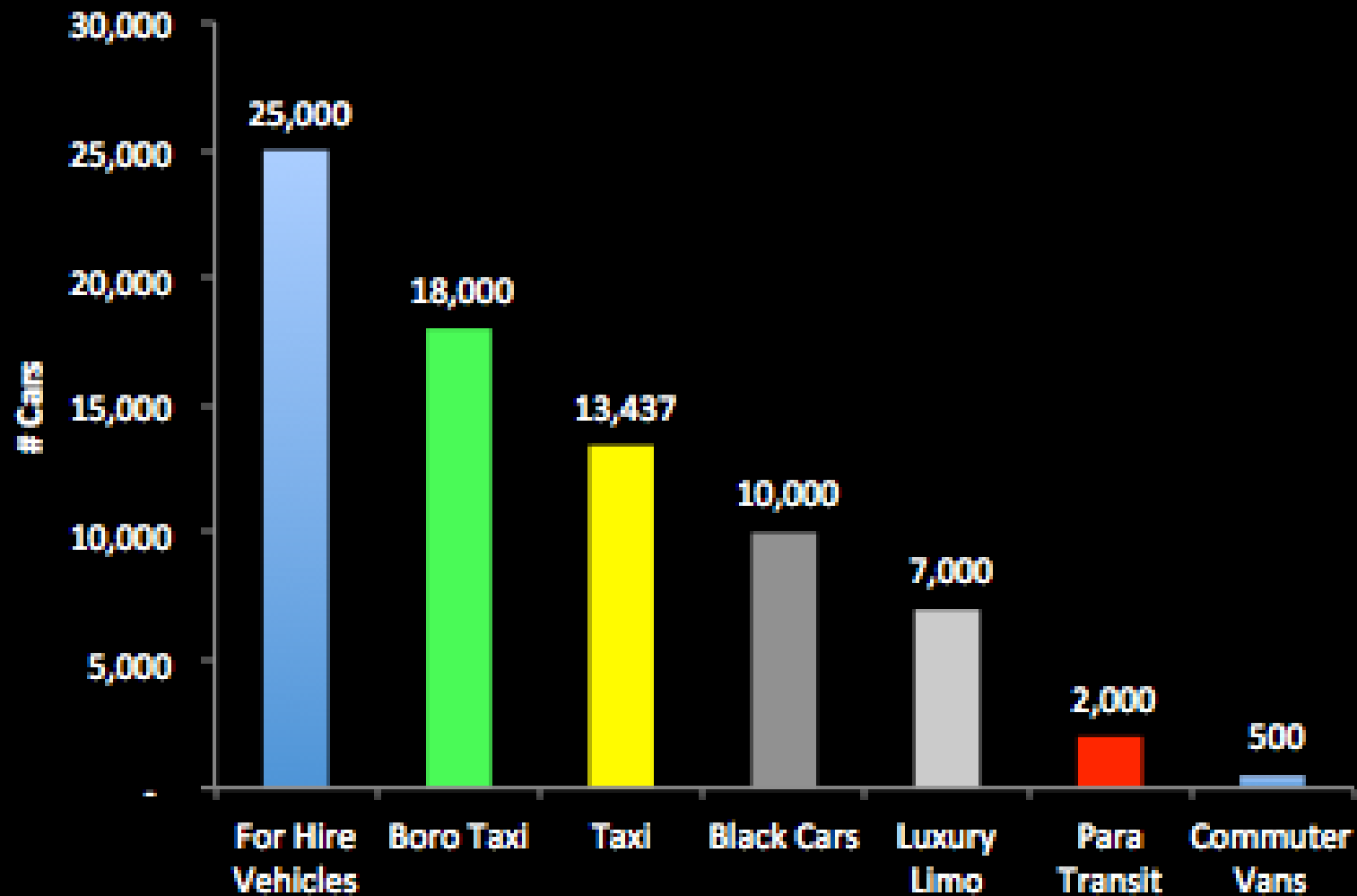
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Semi- Open Data

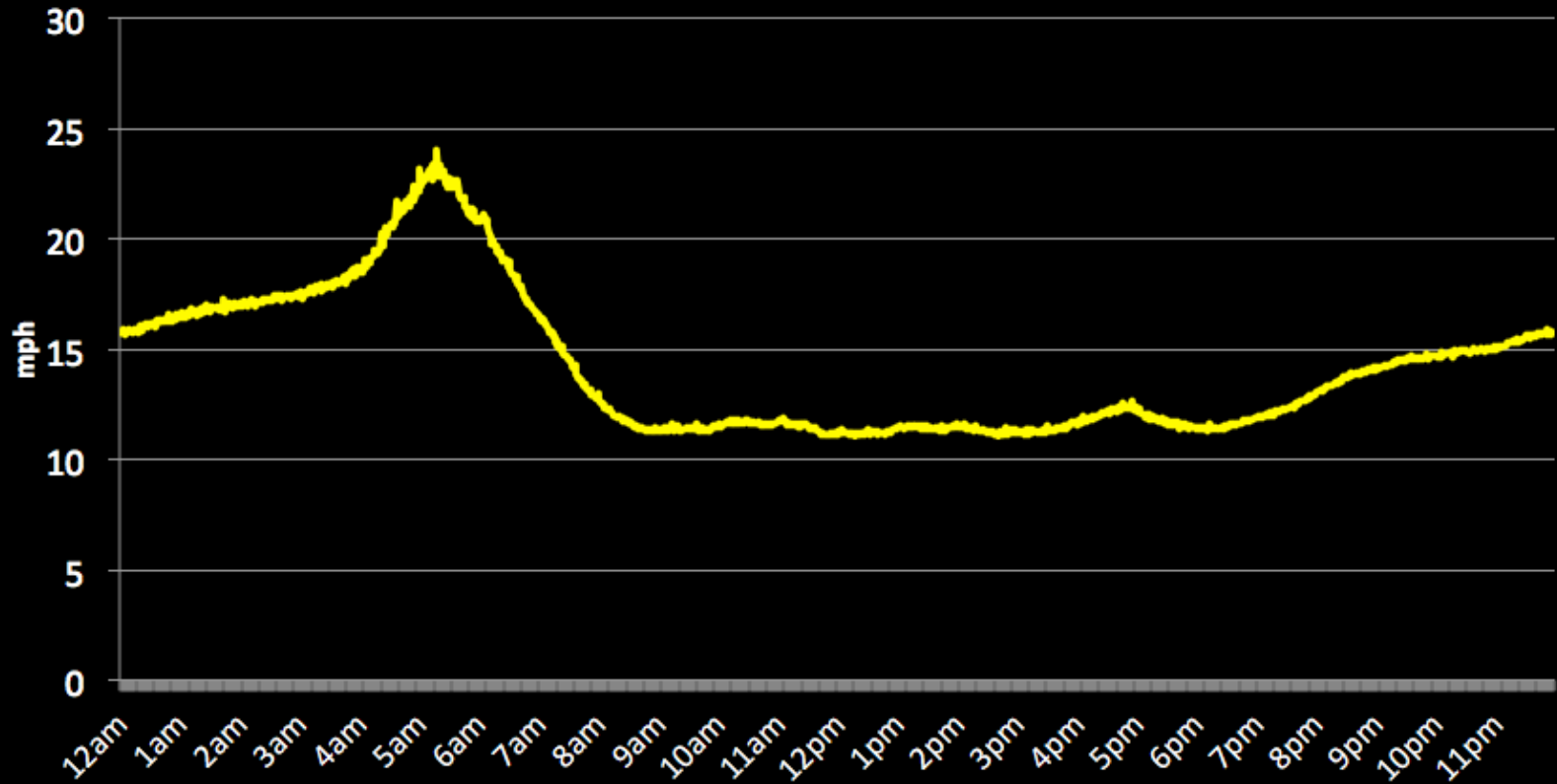
Uses Valuable Talent to Make
“Public” Data Public

“Because the files were in PDF format we couldn’t sort or analyze the data”

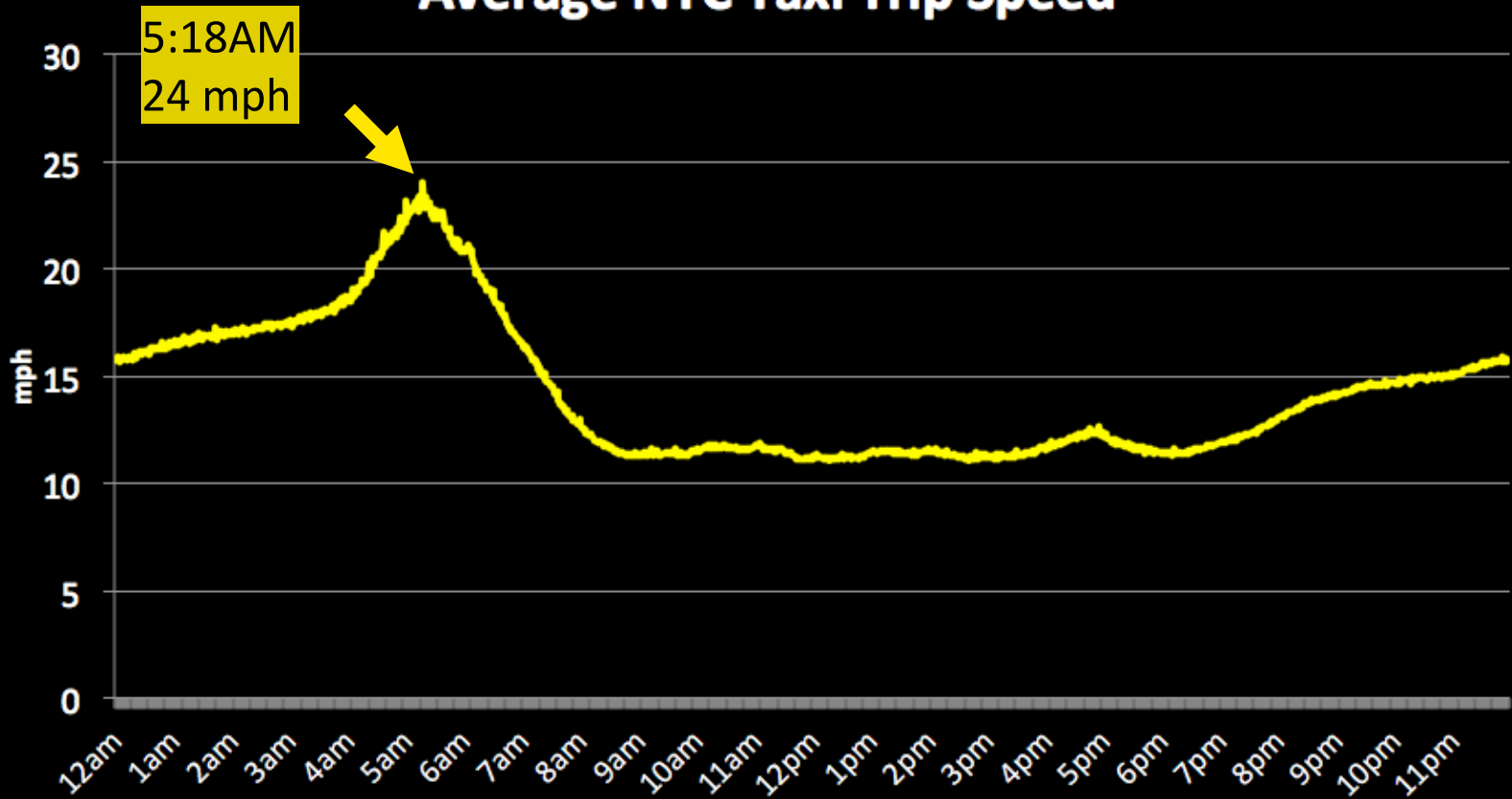
Verizon FIOS Implementation
Final Audit Report
NYC to Verizon, Jun 18, 2015



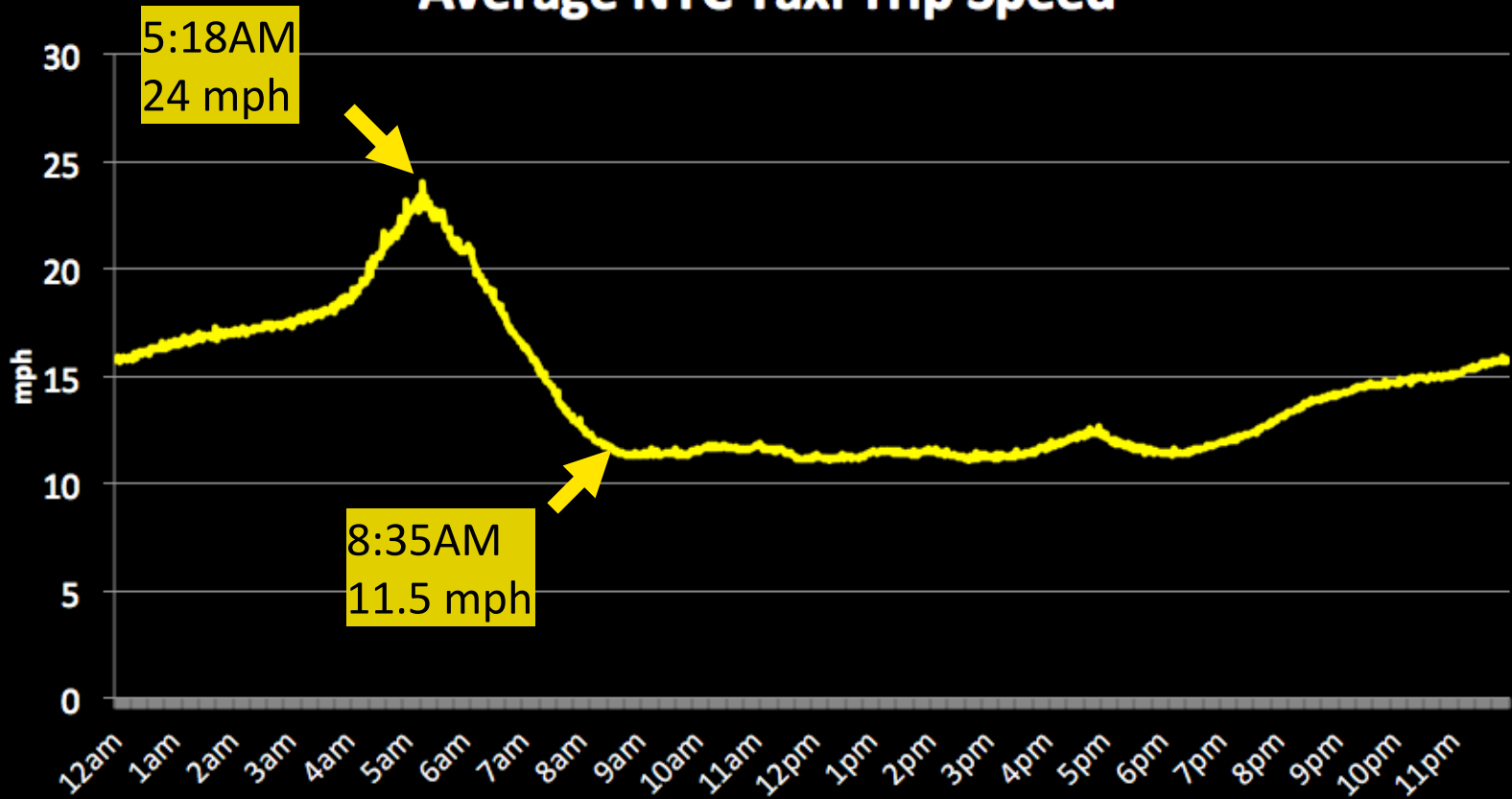
Average NYC Taxi Trip Speed



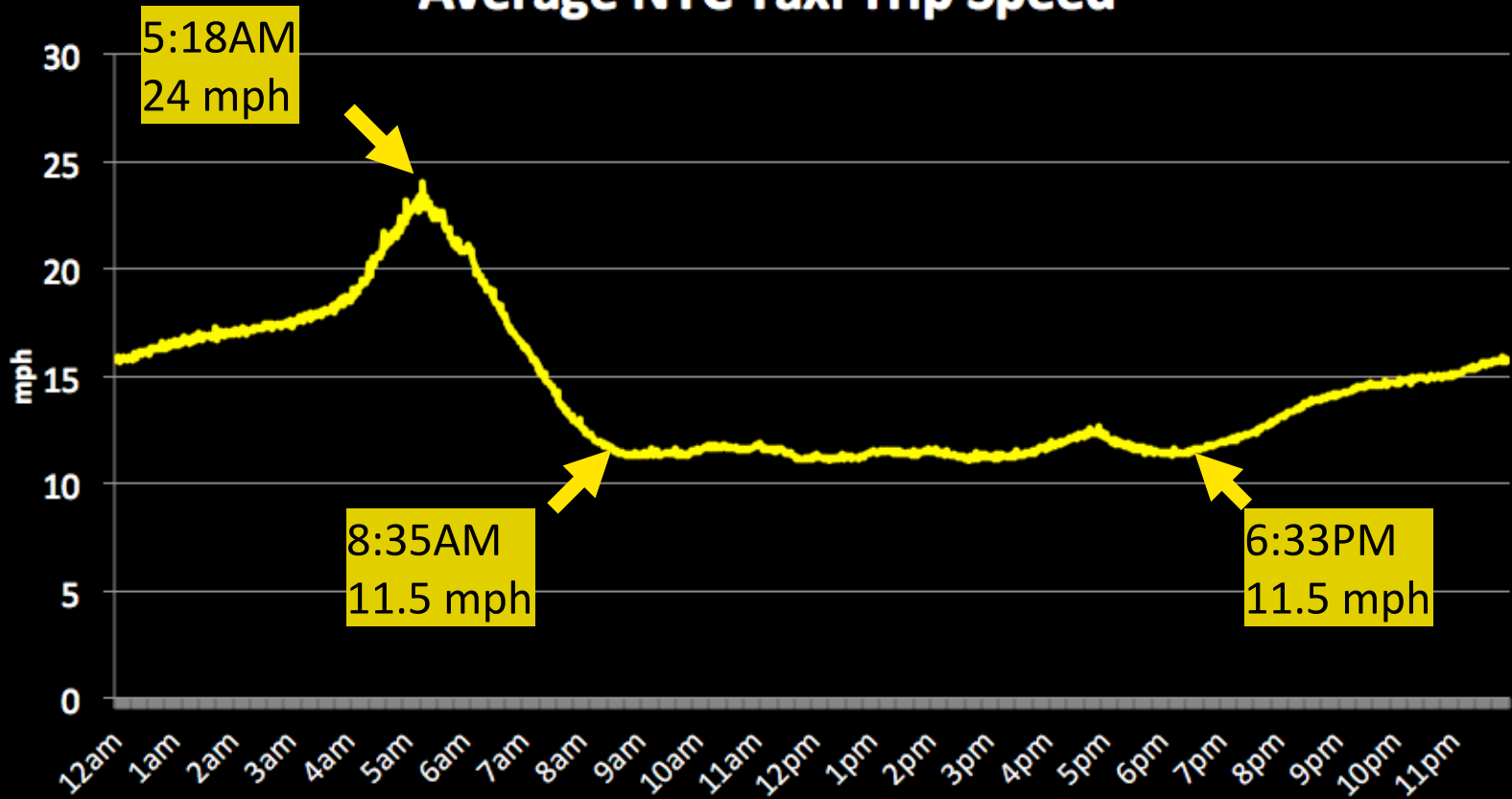
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Average NYC Taxi Trip Speed



Average NYC Taxi Trip Speed





**Taxi & Limousine
Commission**

Meera Joshi
Commissioner

Christopher Wilson
Deputy Commissioner/General Counsel
Office of Legal Affairs
33 Beaver Street, 22nd Floor
New York, NY 10004

+1 212 676 1102 fax

FOIL REQUEST FORM

Taxi and Limousine Commission
Office of Legal Affairs
33 Beaver Street, 22nd Floor
New York, New York 10004
Attn: Records Access Officer

FROM: *(Please print your name, address, telephone # and email address)*

Our email address: FOIL@tlc.nyc.gov

Your email address: _____

I request the following record(s) under the Freedom of Information Law:

Please reasonably describe the record(s) you are requesting to allow us to identify any responsive document(s).



**Taxi & Limousine
Commission**

Meera Joshi
Commissioner

Christopher Wilson
Deputy Commissioner/General Counsel
Office of Legal Affairs
33 Beaver Street, 22nd Floor
New York, NY 10004

+1 212 676 1102 fax



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Semi- Open Data

Uses Valuable Agency Time
to Reply to FOIL Requests



A Venn diagram consisting of two overlapping circles. The left circle is labeled 'Data Science' and the right circle is labeled 'Urban Planning'. The overlapping area in the center is shaded a darker blue than the individual circles. The background is black.

Data
Science

Urban
Planning

Quantitative Analysis of NYC Open Data: Every data set that the city releases tells a story. This blog is all about telling those stories, one data set at a time.

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SEPTEMBER 5, 2014

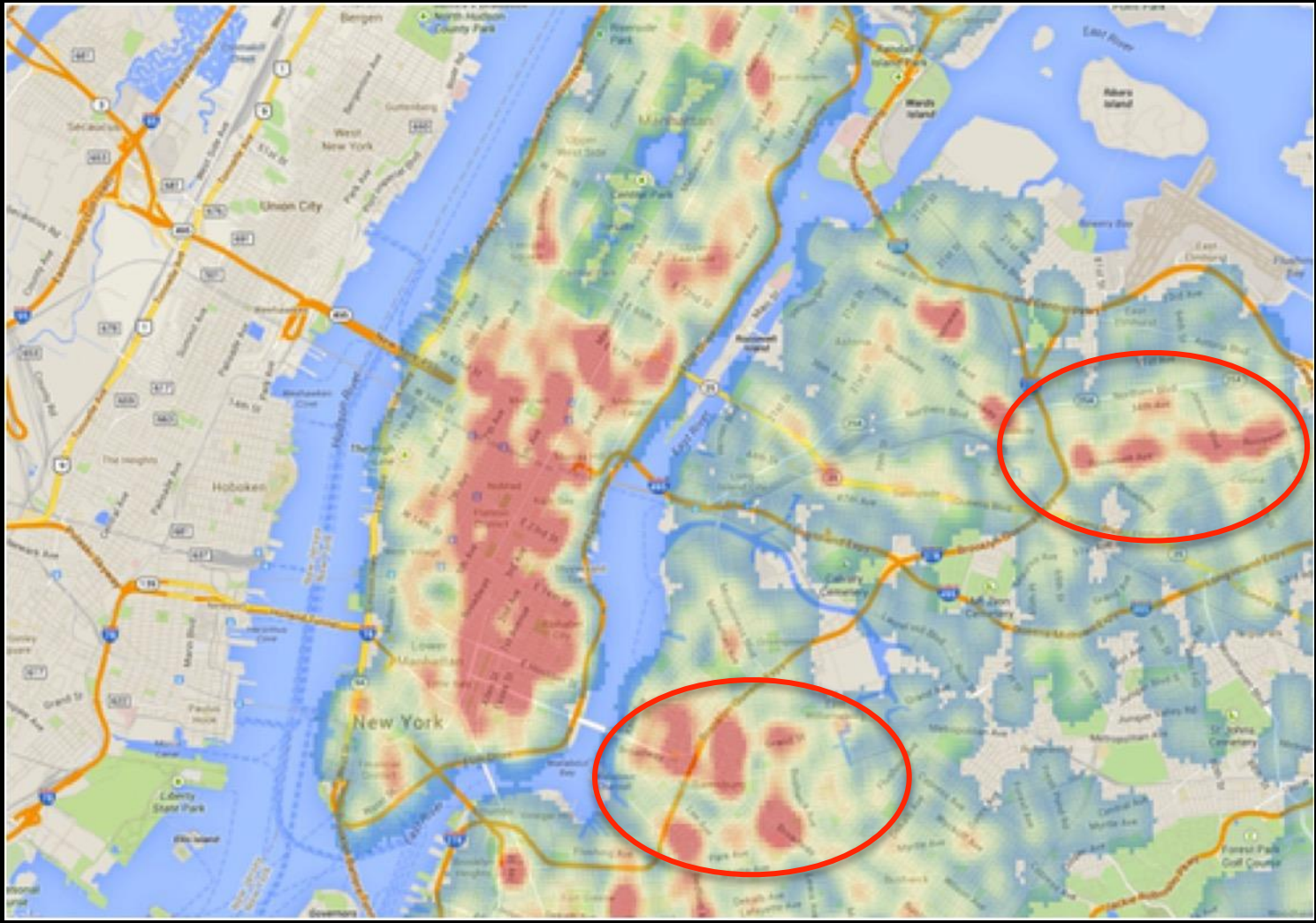
How Memorizing “\$19.05” Can Help You Outsmart the MTA

We’ve all been there. The train is coming into the station, and you grab your MetroCard and quickly try and swipe it at a turnstile.

“Please Swipe Again”. “Please Swipe Again”. “Insufficient Fare”.

The last two words are killer. You think to yourself “I swear I had a balance on this card”. You go and check the card out and you see you have “\$2.45”. Yes, you need \$2.50 to ride the subway, and you have \$2.45 on your MetroCard. Sure enough you miss that train all because of that nickel.

How did you end up in that situation any way? It turns out the MTA has designed it that way. Imagine how many tourists come to NYC and leave with balances that never get used. Imagine how many people lose metro cards with those balances that never get used. And even if it gets used on a later refill, the MTA gets to collect the cash earlier this way! Win win for them, right?



2013's Cycling Injuries In NYC, Mapped



gothamist

OUR CITIES: ▼ POPULAR AD

TRENDING: CAMERAS INCOME INEQUALITY NIGH

2013's Cycling Injuries In NYC, Mapped

A map of New York City showing the locations of cycling injuries in 2013. The map is overlaid with numerous green circular markers, each representing an injury. The markers are most densely clustered in the southern part of the city, particularly in the Williamsburg neighborhood, which is highlighted in the adjacent image. Other areas with markers include the East Village, Midtown, and the Upper East Side.

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NEWS

[Williamsburg](#)
02/24/14 2:15pm

Traffic fatality map pegs Broadway stretch of Williamsburg as a death trap

by [David Colon](#) 2 Comments


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AD

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CAMERAS
INCOME INEQUALITY
NIGH

2013's Cycling Injuries In NYC, Mapped





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STREETSBLOG NYC

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Thursday, February 27, 2014

1 Comment

Heat Maps Show Where Traffic Takes the Most Lives in NYC

by Stephen Miller



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TRENDING: CAMERAS INCOME INEQUALITY NIGH

2013's Cycling Injuries In NYC, Mapped

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BROWSE BY TOPIC NEIGHBORHOOD

NEWS Williamsburg 02/24/14 2:15pm

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STREETSBLOG NYC

Transit | Bicycling | Walking | Public Space | Vision Zero | DMV Reform

Thursday, February 27, 2014 1 Comment

Heat Maps Show Where Traffic Takes the Most Lives in NYC

by Stephen Miller

From The Atlantic

CITYLAB NAVIGATOR CITYFIXER MAPS PHOTOS

COMMUTE WORK HOUSING WEATHER

MAPS

Mapping New York's Traffic Crashes

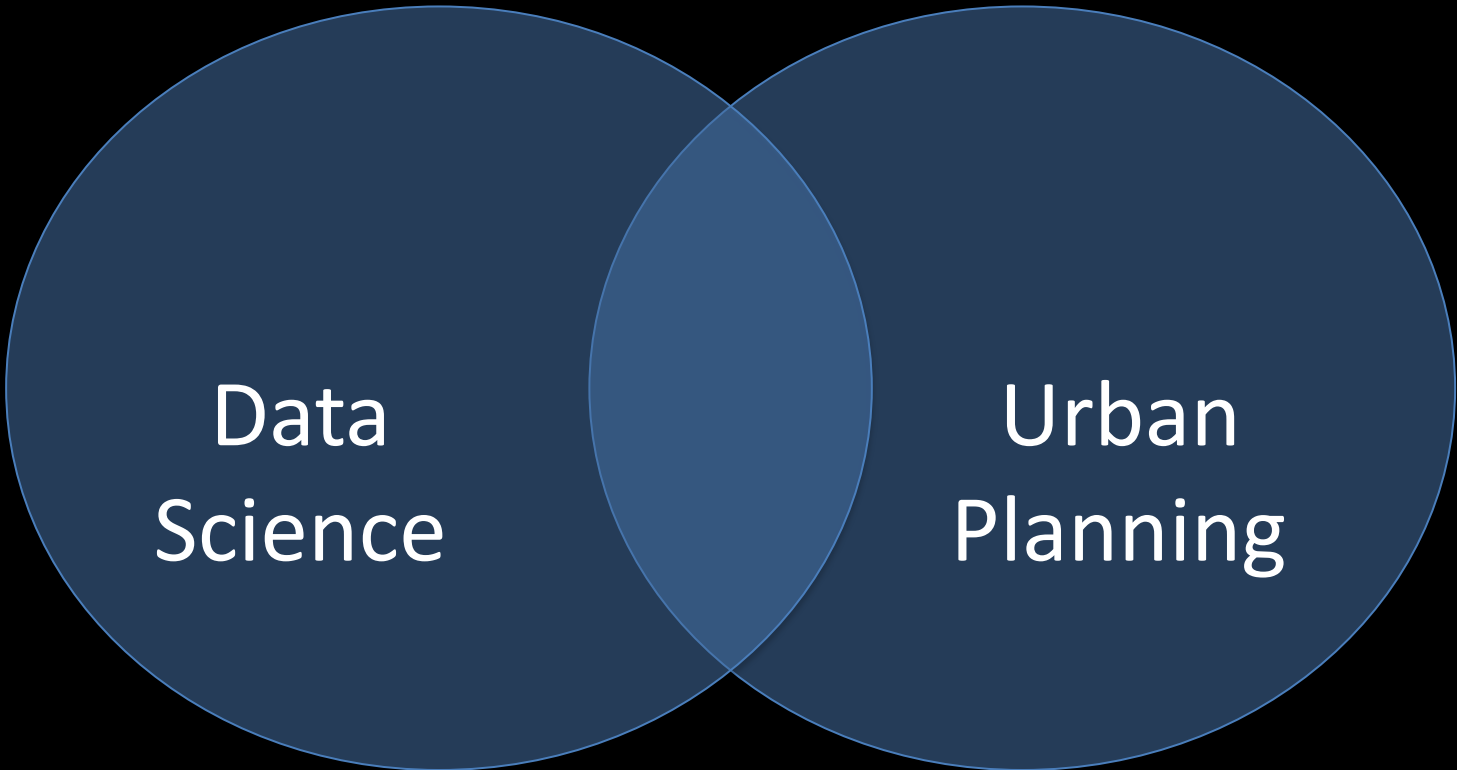
Twenty-three percent of the city's 2013 car-related fatalities occurred in just 5 percent of its neighborhoods.

SARAH GOODYEAR | @buttermilk1 | Feb 27, 2014 | 4 Comments

244 Shares

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The New York Police Department doesn't make it easy to crunch the city's traffic fatality and injury numbers, releasing the data in a PDF format that's



Data
Science

Urban
Planning

A Venn diagram consisting of three overlapping circles of a medium blue color on a black background. The top circle is labeled 'Improv Comedy', the bottom-left circle is labeled 'Data Science', and the bottom-right circle is labeled 'Urban Planning'. The circles overlap in the center and at the intersections between pairs of circles.

Improv
Comedy

Data
Science

Urban
Planning



Connect With
People's Experiences

Starbucks Distance

Distance in Miles

0.00 - 0.10

0.10 - 0.16

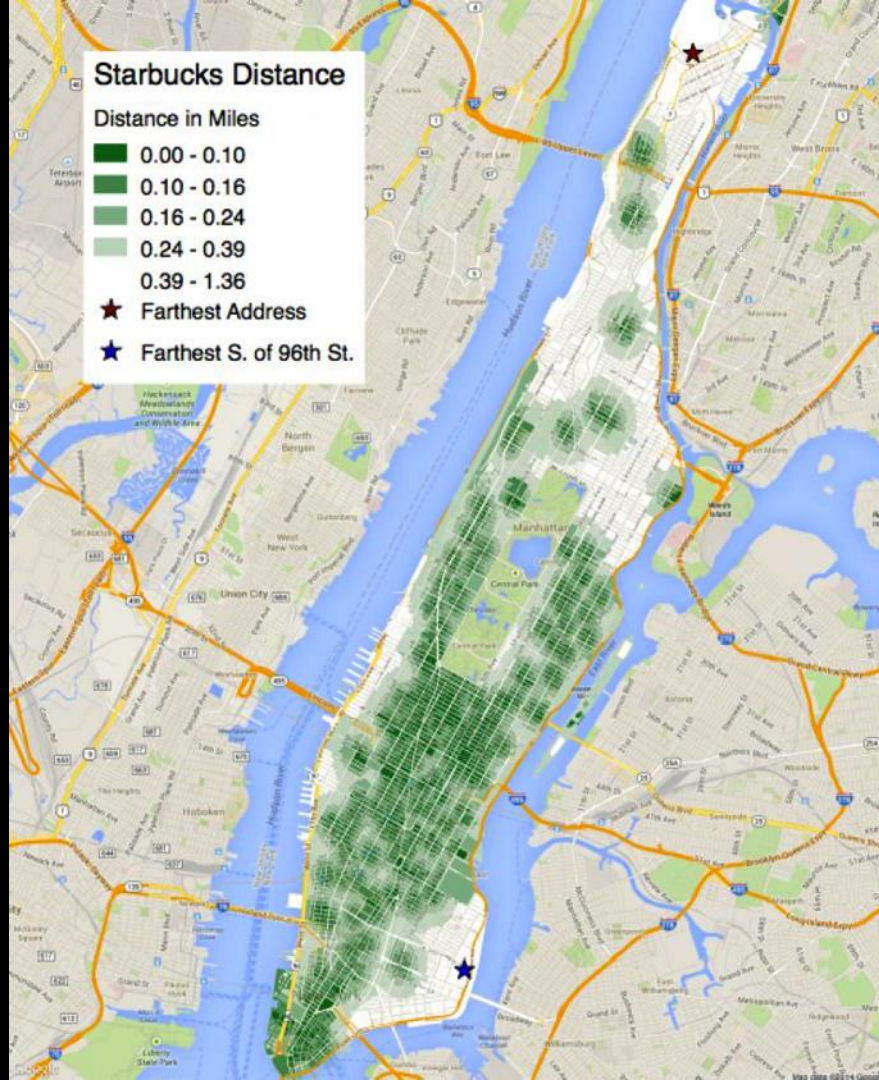
0.16 - 0.24

0.24 - 0.39

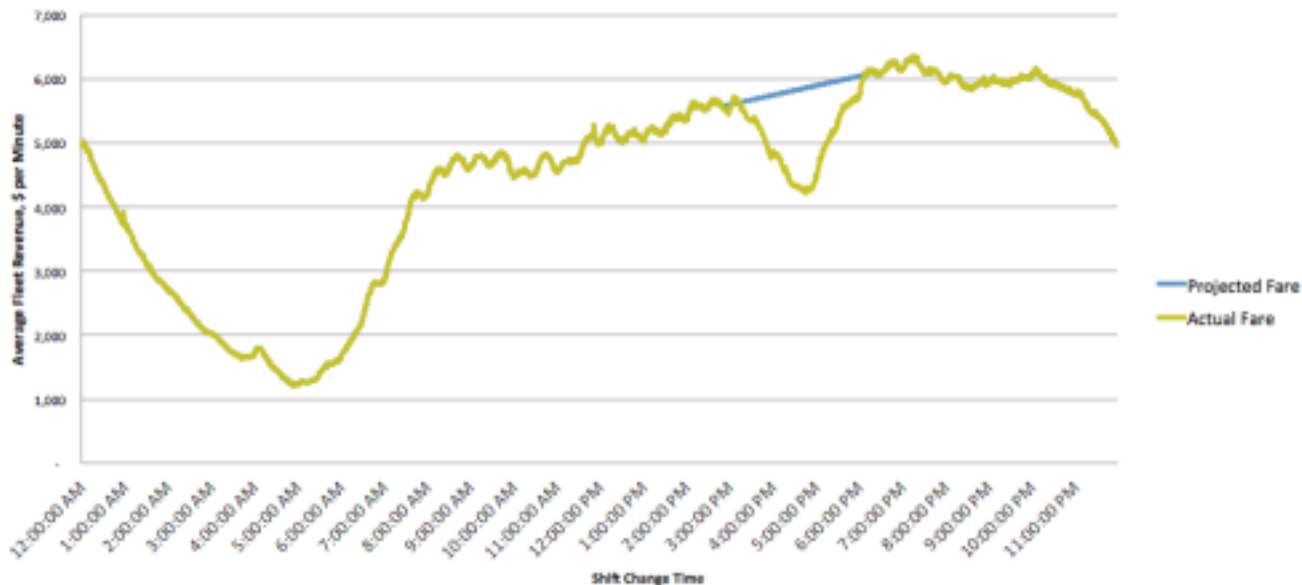
0.39 - 1.36

★ Farthest Address

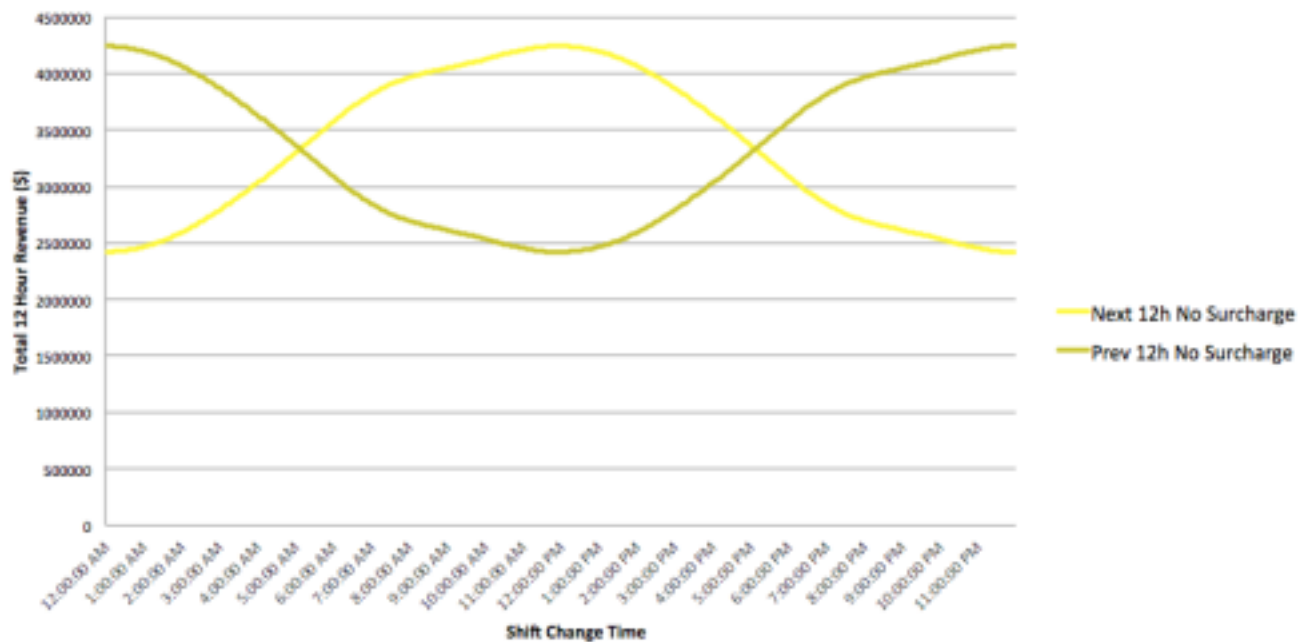
★ Farthest S. of 96th St.



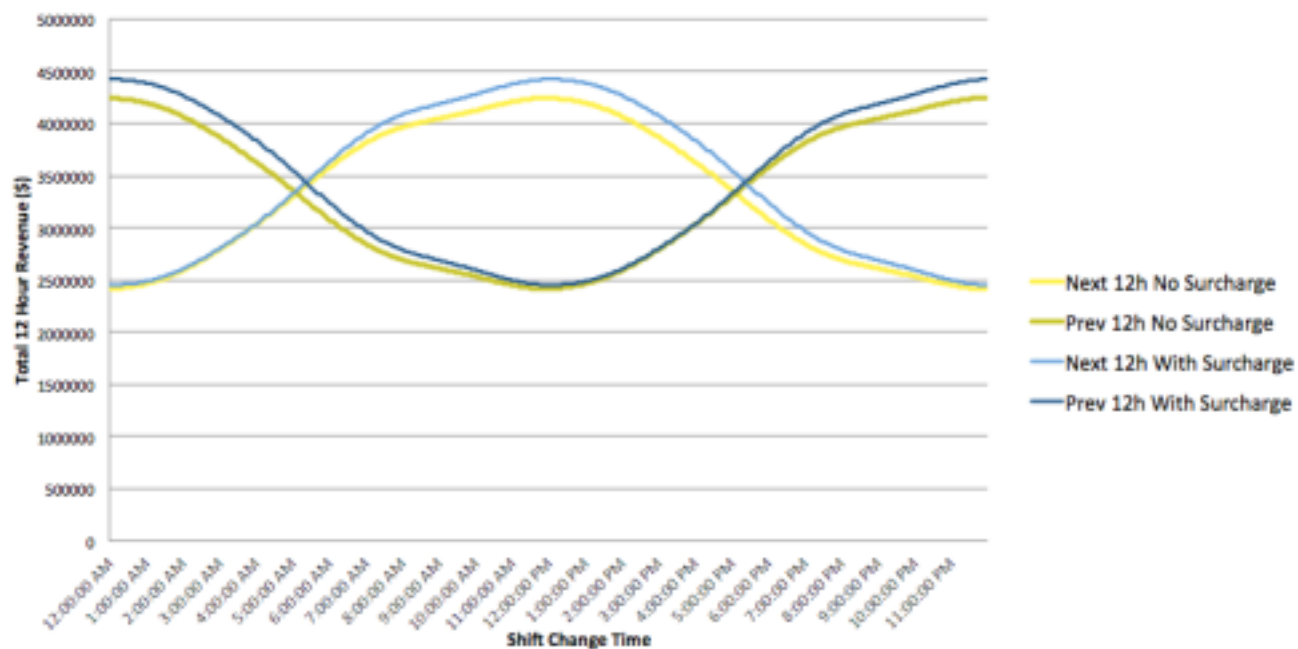
NYC Taxi Fare Revenue Per Minute, 2013



NYC Taxi Fare Rolling 12 Hour Revenues



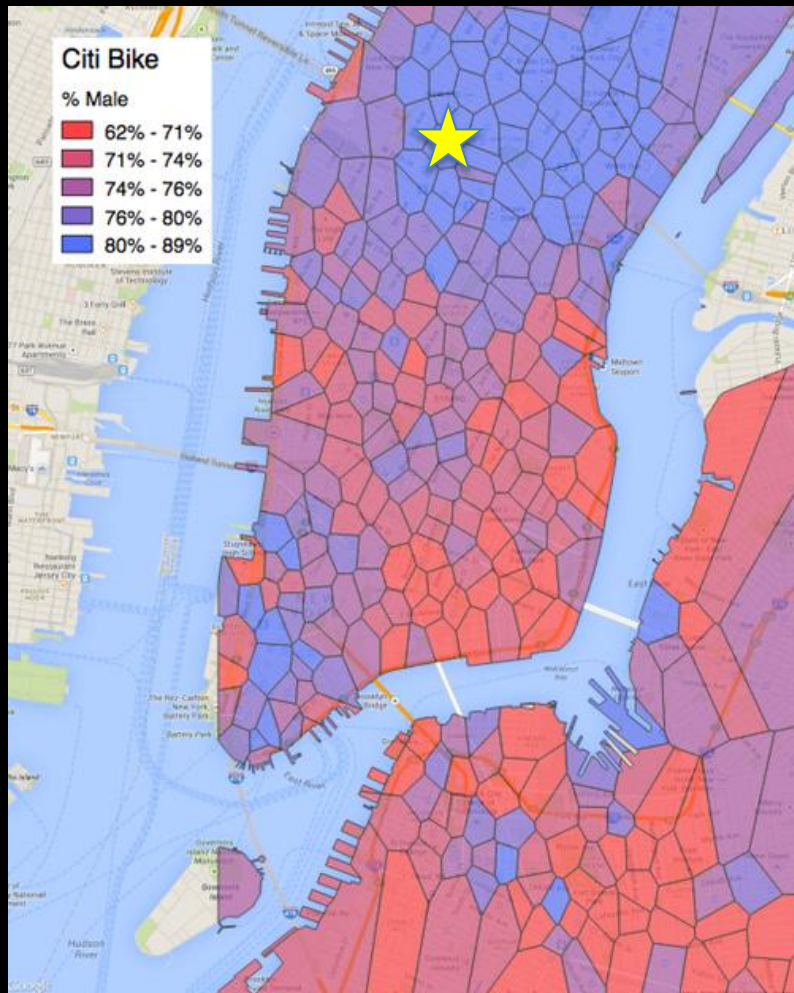
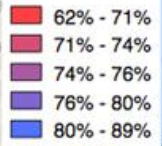
NYC Taxi Fare Rolling 12 Hour Revenues w/ Reverse Surcharge



Focus on A Single Idea

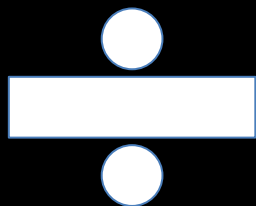
Citi Bike

% Male

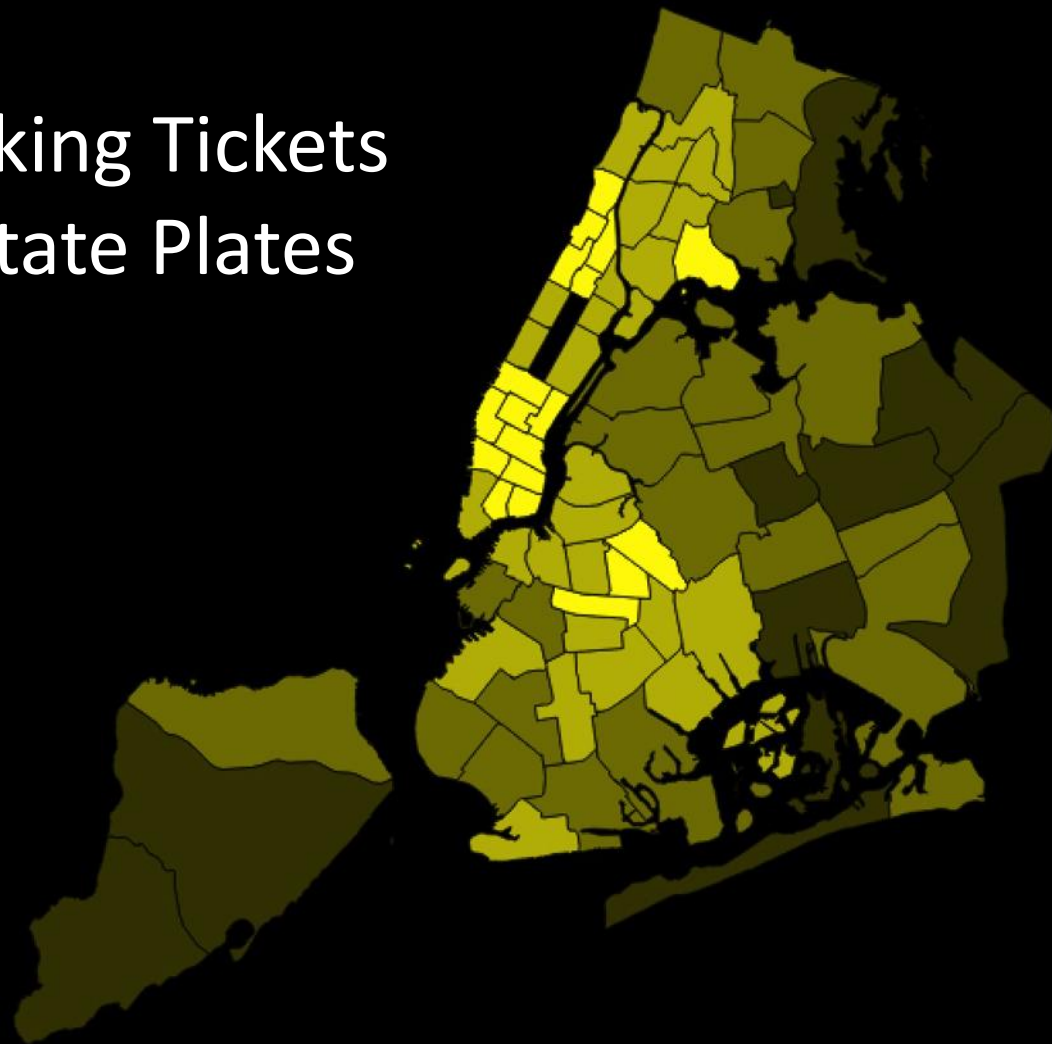


Keep it Simple

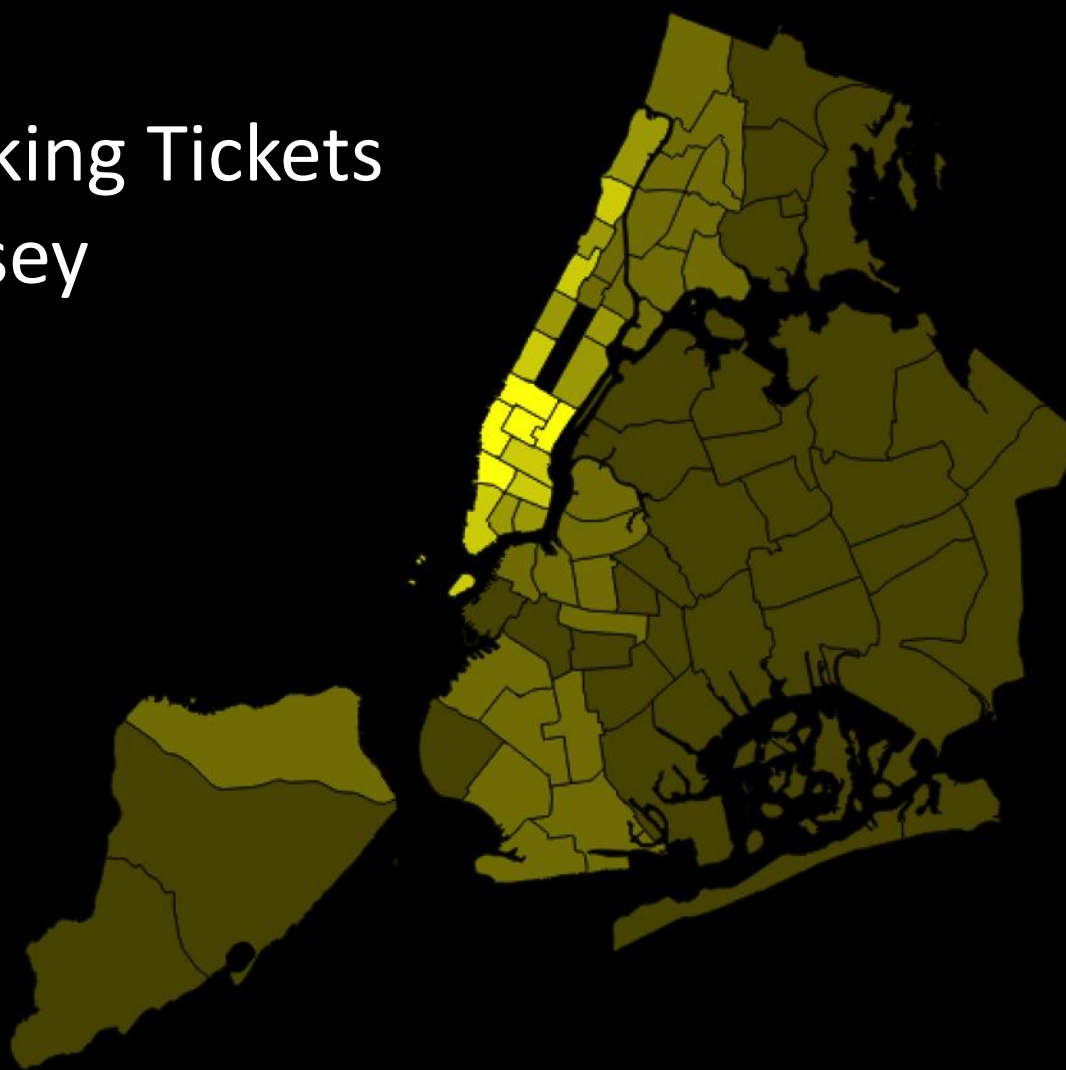
$$\begin{aligned}
 & \log \frac{L}{L_0} = 4 \log \frac{T_{ef}}{K} + 2 \log \frac{R}{R_0} - 4 \log \frac{T_0}{C^2} \quad \frac{\sin \alpha}{\sin \beta} = \frac{v_1}{v_2} = \frac{n_2}{n_1} \quad \lambda = \frac{h}{\sqrt{2eU_{me}}} \quad f = \frac{1}{\lambda} \quad \nu = \nu_1(1 + \beta \Delta t) \quad U_{ef} = \frac{U_m}{\sqrt{2}} \quad f_0 = \frac{1}{2\pi \sqrt{LC}} \quad I = \frac{U_e}{R + i\omega L} \\
 & L = \sqrt{\frac{3kT}{m_0}} = \sqrt{\frac{3kTN_A}{M_m}} = \sqrt{\frac{3R_m T}{M_r \cdot 10^{-3}}} \quad P = \frac{E}{C} = \frac{hf}{C} = \frac{h}{\lambda} \quad V = V_1(1 + \beta \Delta t) \quad U_{ef} = \frac{U_m}{\sqrt{2}} \quad f_0 = \frac{1}{2\pi \sqrt{LC}} \quad I = \frac{U_e}{R + i\omega L} \\
 & I_m^2 = U_m^2 \left[\frac{1}{R^2} + \left(\frac{1}{X_c} - \frac{1}{X_L} \right)^2 \right] \quad X_L = \frac{U_m}{I_m} = \omega L = 2\pi f L \quad \vec{F}_m = \vec{B} I \ell = \mu_1 I_1 I_2 \quad \vec{F}_g = \frac{m_1 m_2}{r^2} \quad \sigma = \frac{Q}{S} \quad \psi_2 = U_e I \\
 & R = R_0 \sqrt[3]{A} \quad E = mc^2 \quad E_k = \frac{h^2}{8mL^2} \quad \beta = \frac{\Delta I_c}{\Delta I_B} \quad \rho = \frac{\vec{F}}{\Delta S} = \frac{m \Delta \vec{v}}{\Delta S \Delta t} \quad \vec{B} = \mu_0 \frac{NI}{\ell} \quad R = \rho \frac{\ell}{S} \quad M = \vec{F} d \cos \alpha \\
 & M_0 = \frac{4\pi^2 r^3}{3T^2} \quad v = \frac{nh}{8mL^2} \quad \phi_e = \frac{L}{4\pi r^2} \quad U = \frac{W_{AB}}{\phi} = \frac{|E_{PA} - E_{PB}|}{\phi} = |\varphi_A - \varphi_B| \quad \varphi = mc \Delta t \quad pV = nRT \\
 & \vec{d} = M_z \frac{v^2}{r} = M_z \frac{4\pi^2 r}{T^2} \quad \nabla \times \left(-\frac{\partial \vec{B}}{\partial t} \right) = -\frac{\partial}{\partial t} (\text{rot } \vec{B}) = -\mu_0 \frac{\partial}{\partial t} \left(\frac{\partial \vec{B}}{\partial t} \right) = \epsilon_0 \mu_0 \frac{\partial^2 \vec{E}}{\partial t^2} \quad f_0 = \frac{1}{2\pi \sqrt{LC}} \\
 & v_k = \sqrt{\frac{R}{R_z}} \quad F_x = \frac{1}{2} C_x \rho \int_{-a/L}^{+a/L} \sin(\omega t + \phi) dy \quad \oint \vec{H} d\vec{\ell} = \iint_S \left(\vec{J} + \frac{\partial \vec{D}}{\partial t} \right) \cdot d\vec{S} \quad \lambda = \frac{h\nu_2}{\nu_1} \quad L = 10 \log \frac{M_0 M_z T}{r^2} \quad v = \frac{1}{\sqrt{\epsilon \mu}} = \frac{c}{\sqrt{\epsilon_r \mu_r}} \\
 & \vec{v} = \int \frac{F_n}{R} \quad 1pc = \frac{1.49}{9} \cdot 10^{-9} \quad \vec{E} = \frac{E_c}{a} \quad \vec{E}_k = \frac{1}{2} m v^2 \quad S = \frac{1}{A} \frac{dW}{dt} \quad \vec{F}_g = \frac{M_0 M_z T}{r^2} \quad v = \frac{1}{\sqrt{\epsilon \mu}} = \frac{c}{\sqrt{\epsilon_r \mu_r}} \\
 & u = U_m \sin \omega(t - T) = U_m \sin 2\pi \left(\frac{t}{T} - \frac{x}{\lambda} \right) \quad E_k = \frac{1}{2} m v^2 \quad S = \frac{1}{A} \frac{dW}{dt} \quad \left(\frac{E_t}{E_0} \right)_{\parallel} = \frac{2 \cos \vartheta_1 \cos \vartheta_2}{\cos(\vartheta_1 - \vartheta_2) \sin(\vartheta_1 + \vartheta_2)} \\
 & \int \vec{E} d\vec{\ell} = - \iint_S \frac{\partial \vec{B}}{\partial t} \cdot d\vec{S} \quad E = k \frac{q_1 q_2}{r^2} \quad \vec{\psi} = \iint_S \vec{B} d\vec{S} = AD \quad \left(\frac{E_t}{E_0} \right)_{\parallel} = \frac{2 \cos \vartheta_1 \cos \vartheta_2}{\cos(\vartheta_1 - \vartheta_2) \sin(\vartheta_1 + \vartheta_2)} \\
 & \vec{E} = \frac{F_e}{\rho_0} = k \frac{Q}{r^2} \quad \oint \vec{B} d\vec{\ell} = \mu \iint_S \vec{J} dS \quad f' = \frac{n_a \cdot n_b}{(n-1)(n_0 - n_a)} \frac{\omega_1}{x} + \frac{\omega_2}{x'} = \frac{\omega_2 - \omega_1}{n} \quad \vec{s} = \frac{1}{\mu_0} (\vec{E} \times \vec{B}) \\
 & E_y = E_0 \sin(kx - \omega t) \quad \beta = \frac{\omega_1}{\omega_2} (\alpha + \pi) + \delta \quad \phi = \frac{2\pi \sin^2 \vartheta}{\dots} \quad B_z = \sqrt{E_{td}} \quad E_{cs} \sin(kx - \omega t)
 \end{aligned}$$



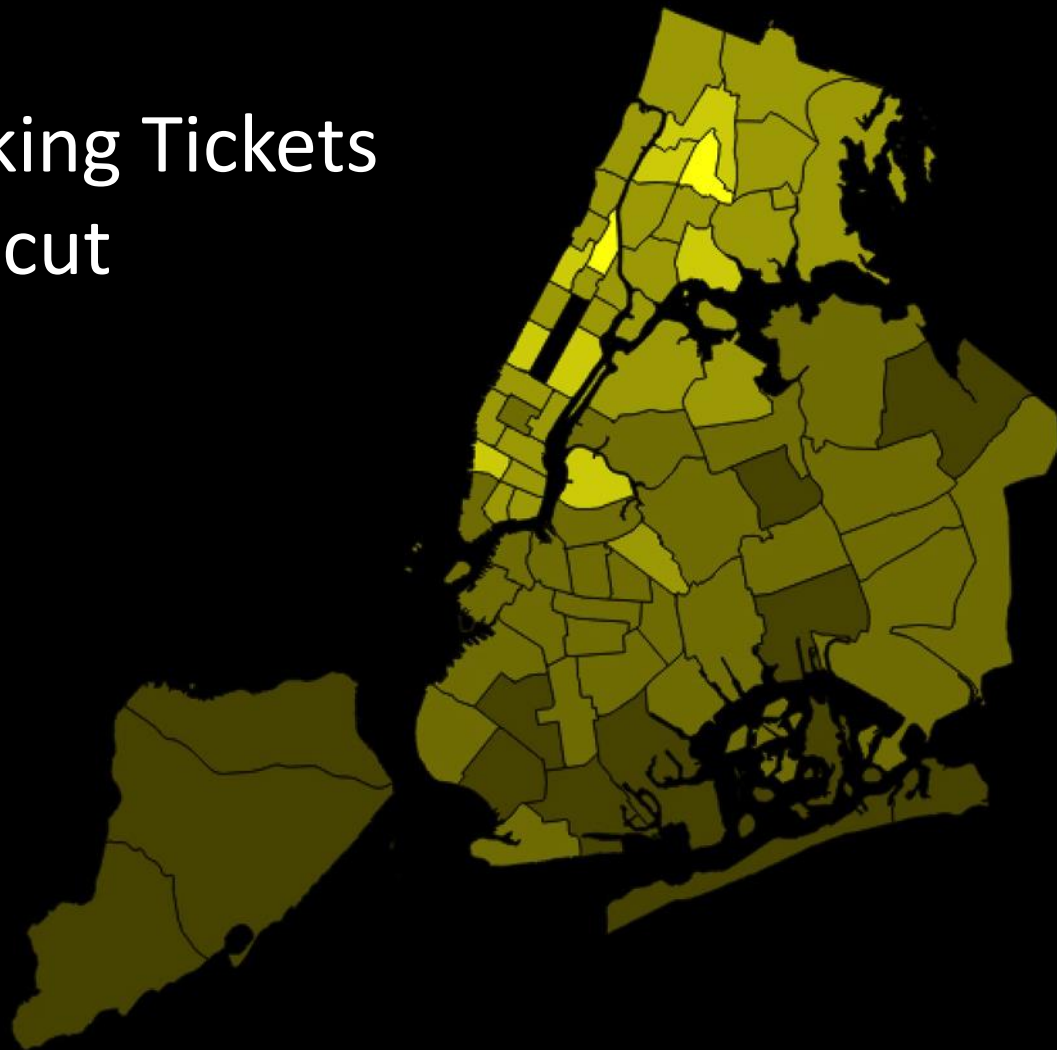
% of Parking Tickets Out-of-state Plates



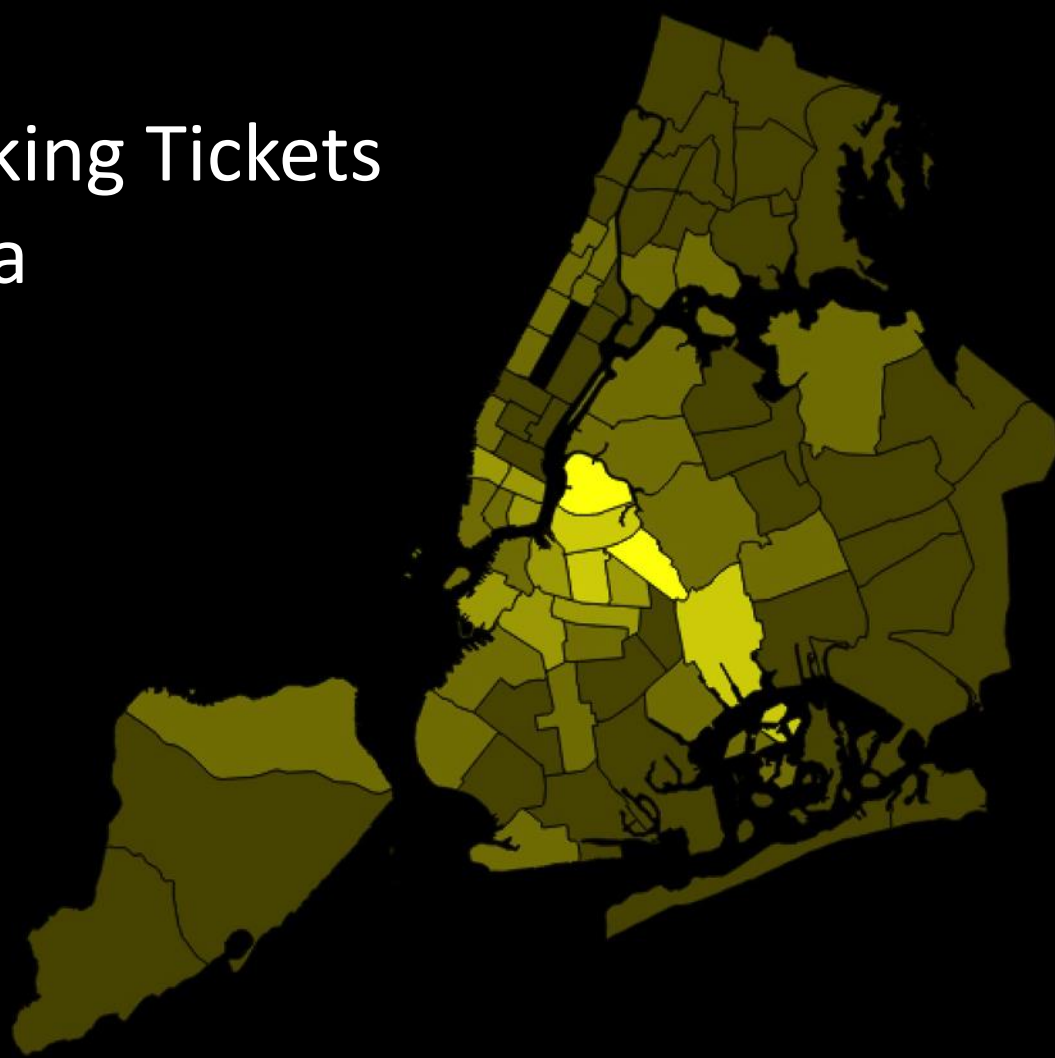
% of Parking Tickets New Jersey



% of Parking Tickets Connecticut

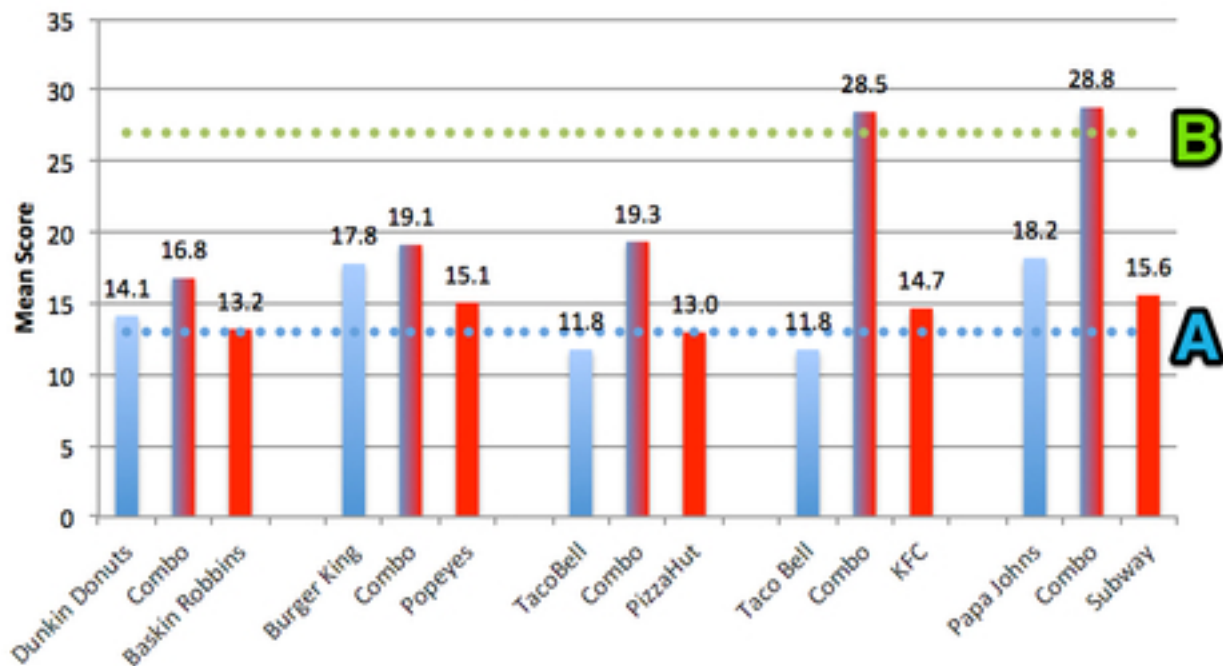


% of Parking Tickets California



Explore
the Things You
Know Best

NYC Restaurant Inspection Scores, 2010-2014



NYC Restaurant Inspection Scores, 2010-2014

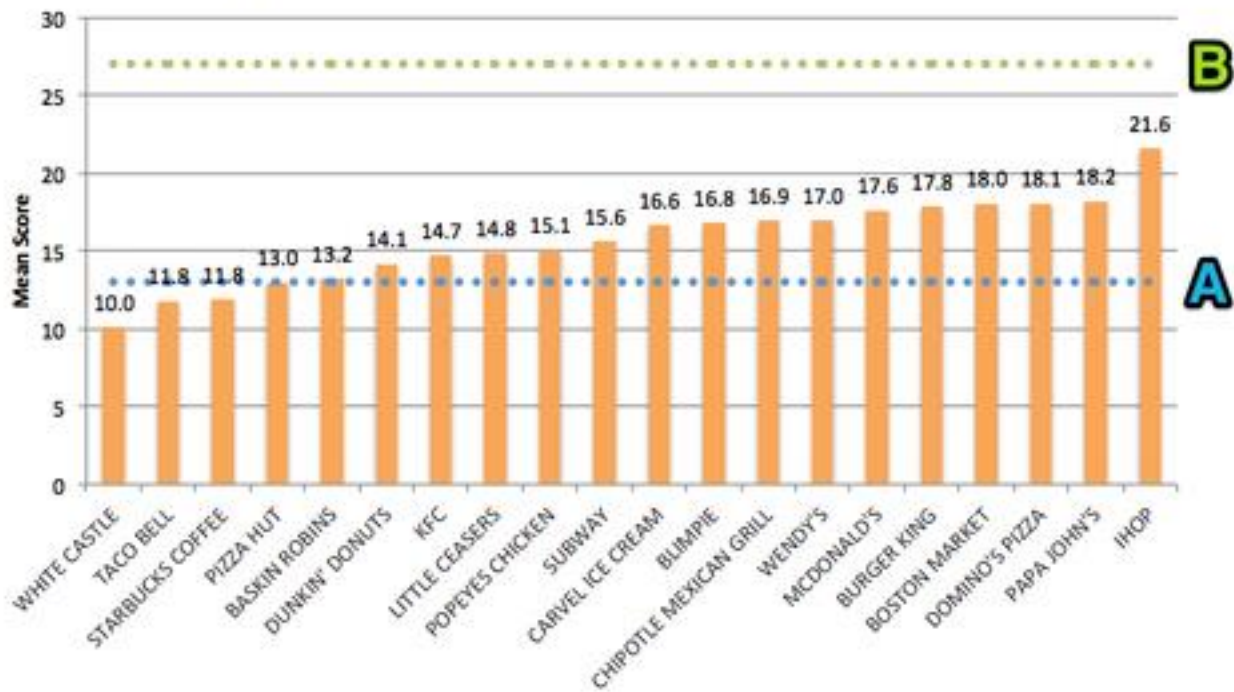
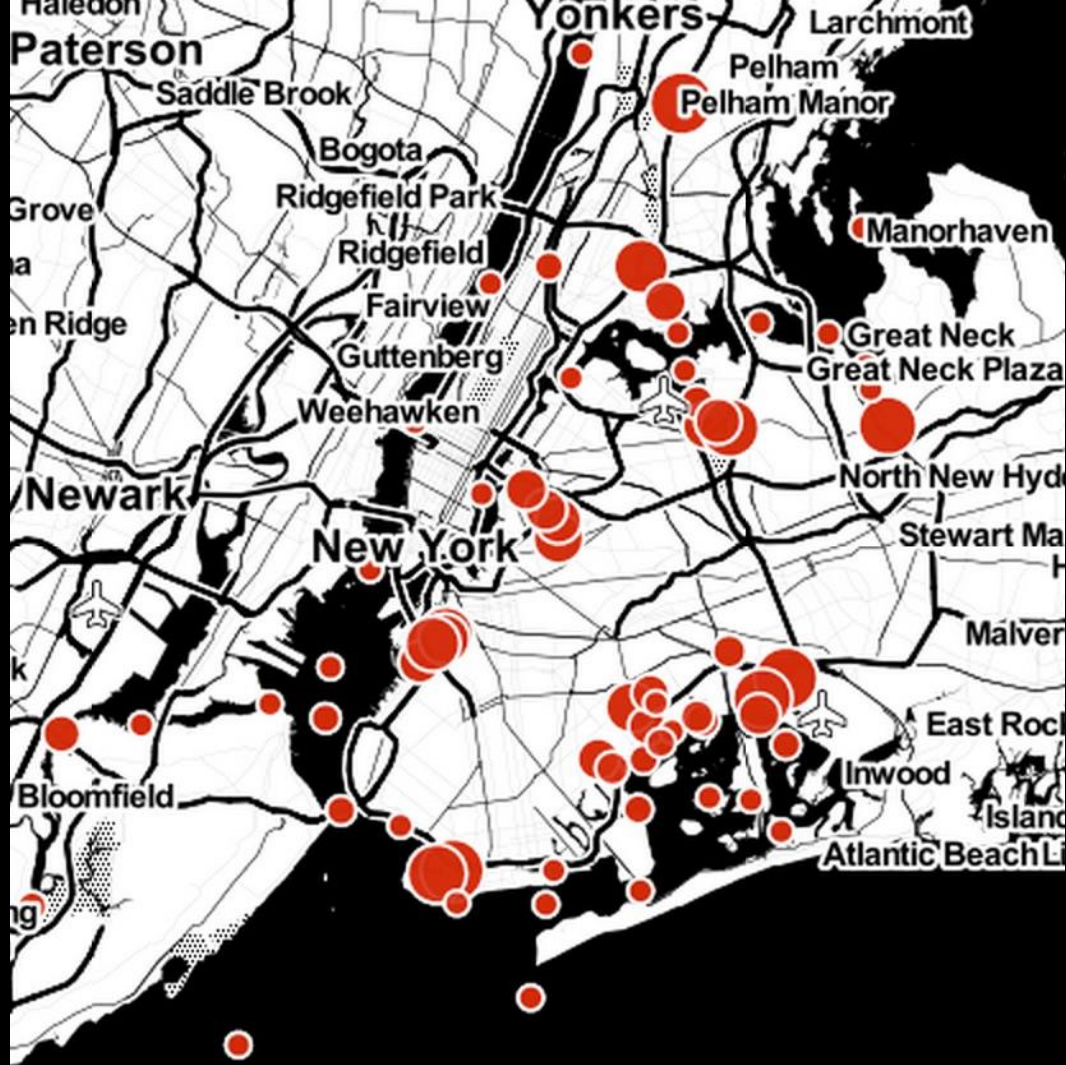
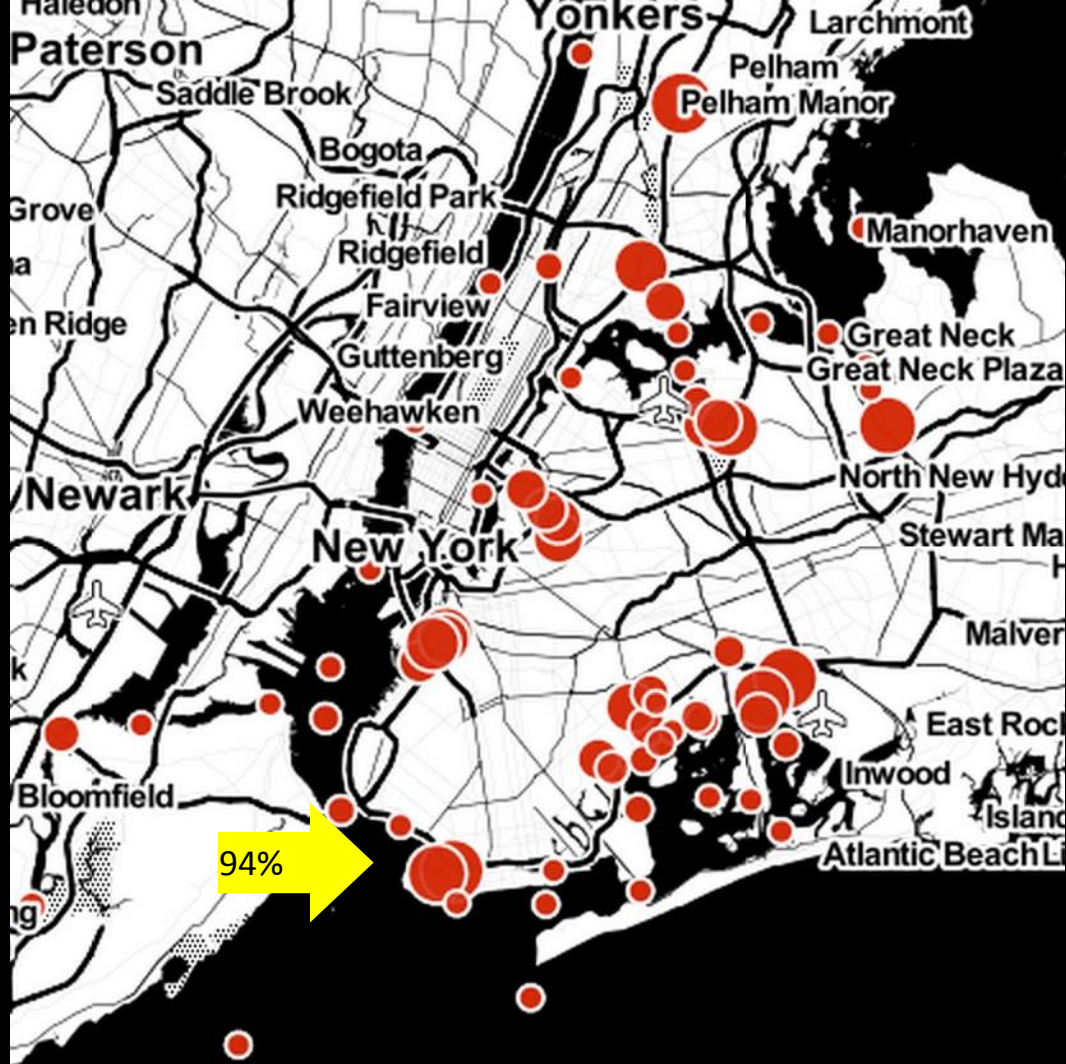


Figure Out What Exactly
You are Trying to Say





Apartments dumped 200,000 gallons of sewage per day into Coney Island Creek

[Enlarge this image](#)

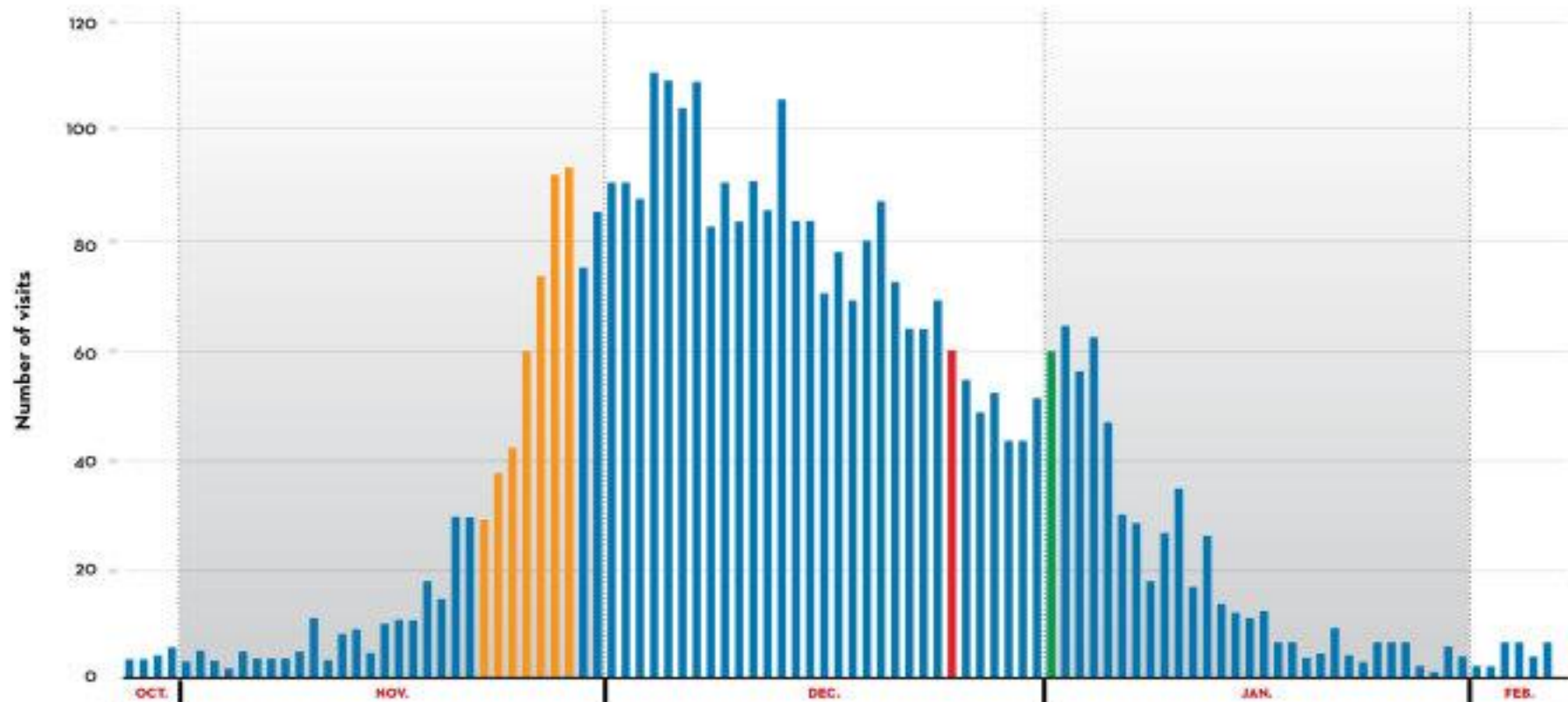


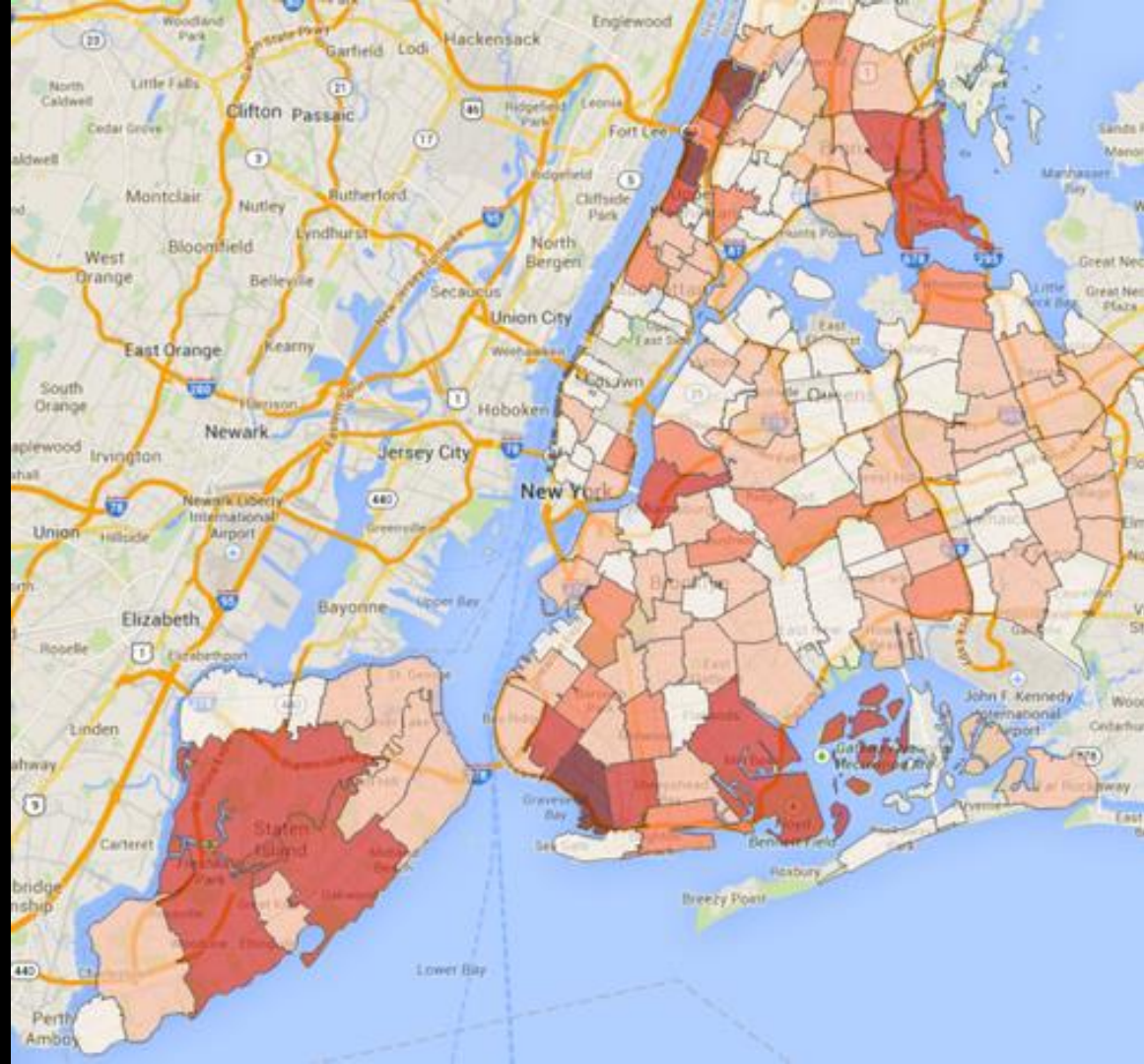
Photo by Georgine Benvenuto

Poop chute: The slurry entered the creek through this storm drain near Shell Road and Shore Parkway.

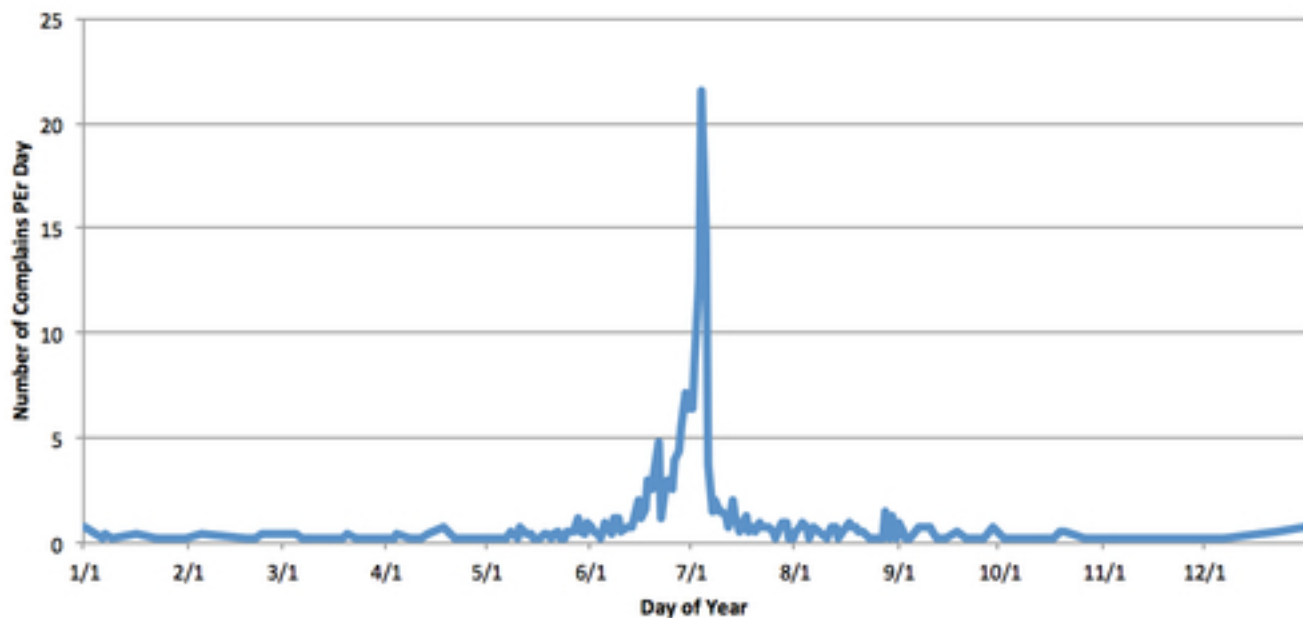
Think Outside the Box

EMERGENCY-ROOM VISITS RELATED TO CHRISTMAS DECORATIONS (2003–2013)





Firework Complaints via 311



Make an Impact

What amount do you want?

\$9.00

+ \$0.45 BONUS

\$19.00

+ \$0.95 BONUS

\$39.00

+ \$1.95 BONUS

Other Amounts

GO BACK

CANCEL

AUDIO

“These machines do not hold an infinite amount of change and the denominations are suggested to insure there is ample change to accommodate customers who pay with cash. That being said, we will certainly look at this as part of the process involved in rolling out the next scheduled fare increase slated for next year”

-Metropolitan Transit Authority

\$1.00 Fee Applies

What amount do you want?

\$9.00

+ \$0.99 BONUS

\$19.00

+ \$2.09 BONUS

\$27.25

+ \$3.00 BONUS

\$39.00

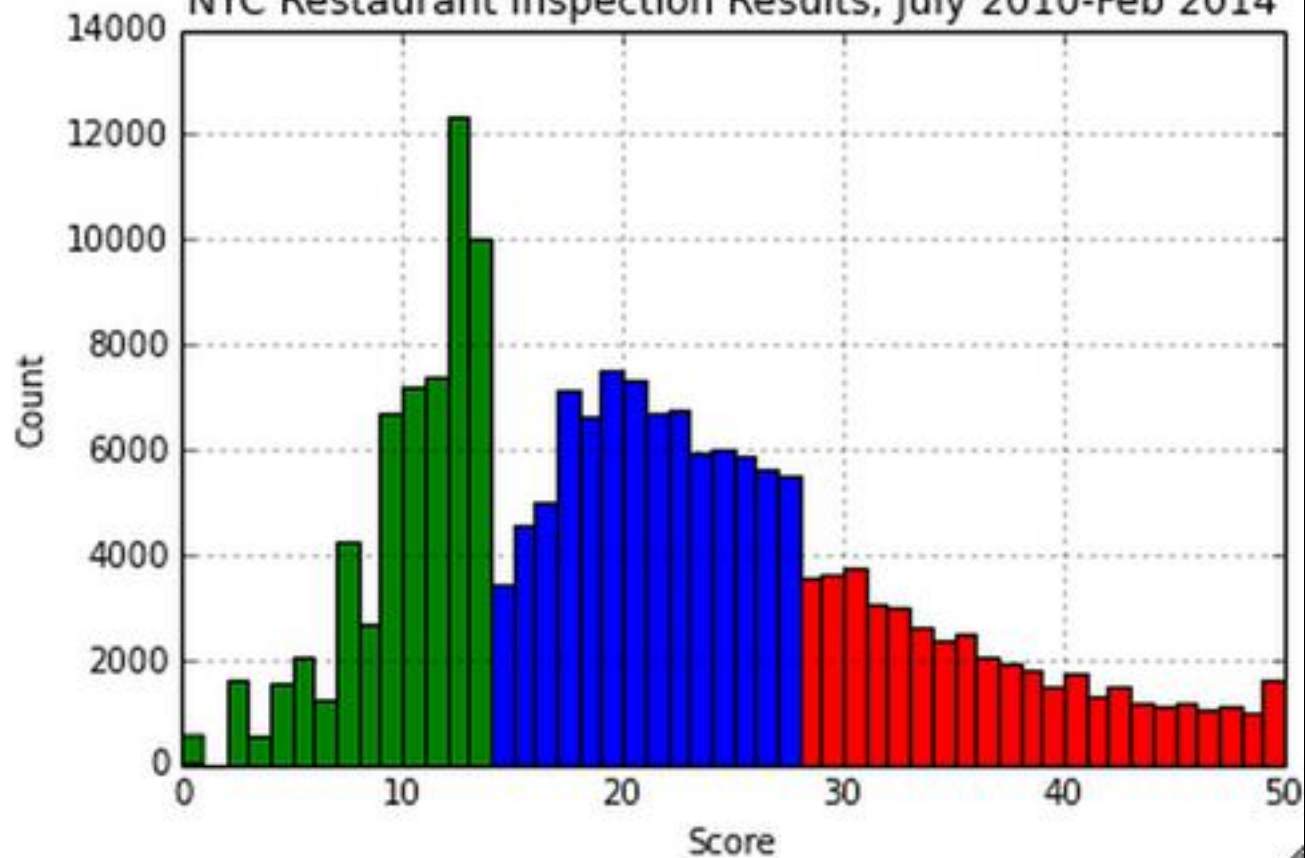
+ \$4.29 BONUS

Other Amounts

GO BACK

CANCEL

NYC Restaurant Inspection Results, July 2010-Feb 2014



“Inspectors are not instructed to offer leniency, just to cite what they see. The final score is based on the extent of the violations that the inspector observes.”

-NYC Department of Health

CMT

20% of Fare,
Surcharge,
Tax, Toll

RideLinQ Payment Receipt		I ♥ NEW YORK	
Vehicle #	AE837	HACK #:	05414228
Driver #	5179627	MED #:	AE417
Trip #	2936	12/18/2014	10:00-10:18
Date	11/24/2014	TRIP #:	3301
9:32 AM to 9:49 AM		RATE #: 1	STAND. CITY RATE
Distance	4.1 miles	MILES R1:	4.15
Fare:		FARE R1:	\$ 16.00
Rate 1:	\$15.50	EXTRAS:	\$ 0.00
Tolls:		ST. SUR:	\$ 0.50
	\$0.00	TIPS:	\$ 3.20
Surcharges	\$0.00	TOTAL:	\$ 19.70
Extra	\$0.00	CARDNUMBER:	██████████
Tax	\$0.50	AUTHOR.:	76542C
Tip	\$3.20		
Total	\$19.20		

Contact TLC Dial 3-1-1

Verifone

20% of Fare,
Surcharge

“We appreciate the work that went into his analysis, and we’re giving it a thorough read”

-NYC Taxi and Limousine Commission



NYPD 5th Precinct 

@NYPD5Pct



The 5th Pct. had a 115% increase in bicycle collisions this year Police Officers will be enforcing violations by bicyclists. [#bike](#) safety

3:23 PM - 21 Nov 2014

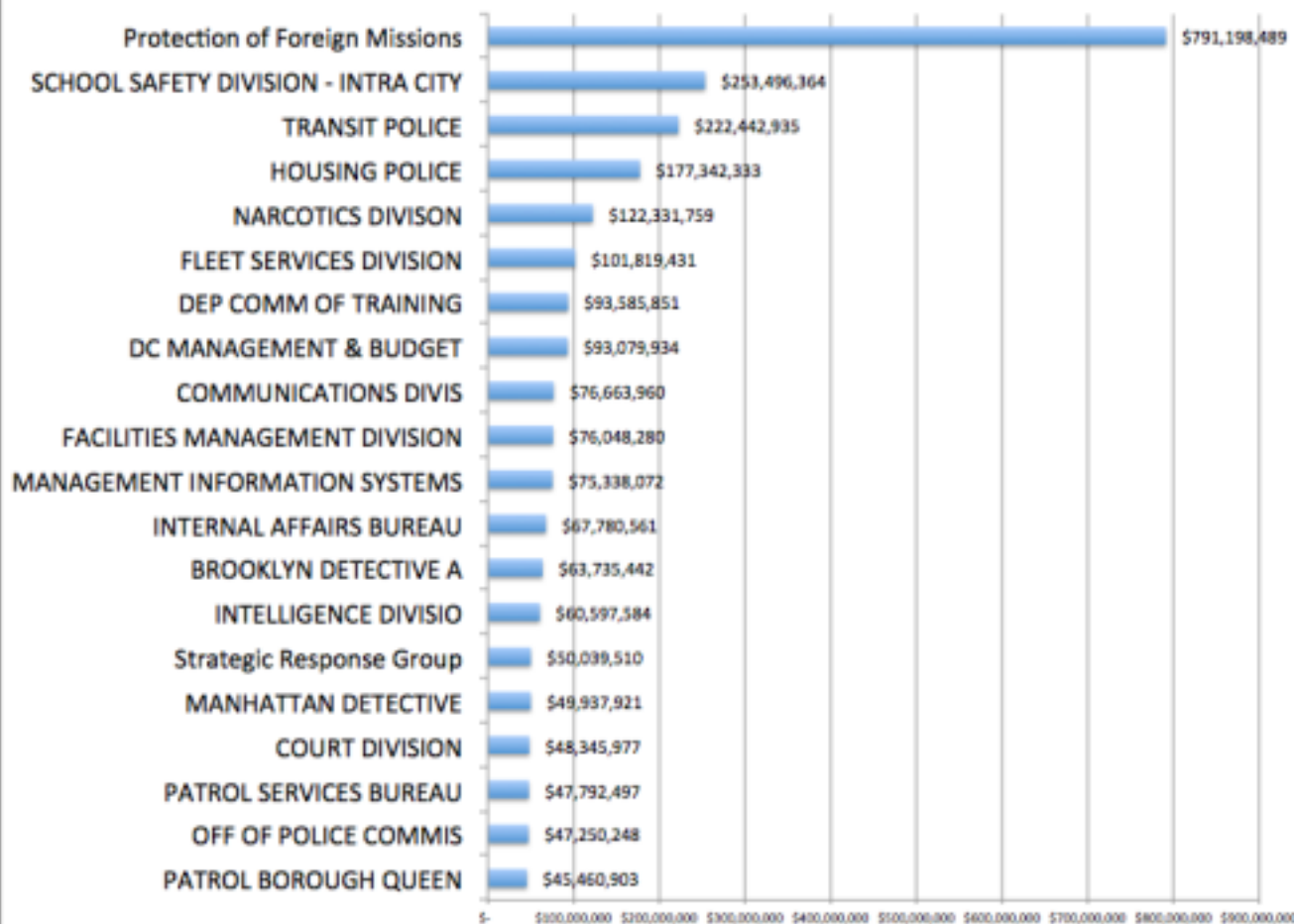
6 RETWEETS



“ ”

-NYPD

FY 2017 NYPD Budget



“We are working on fixing this misprint in the publicly shared Supporting Schedule and on Open Data”

--NYC Mayor's Office



19th Precinct

\$25,000

\$33,000

152 Forsyth St
New York, NY 10002 - approximate address

STREET VIEW



Hide Imagery



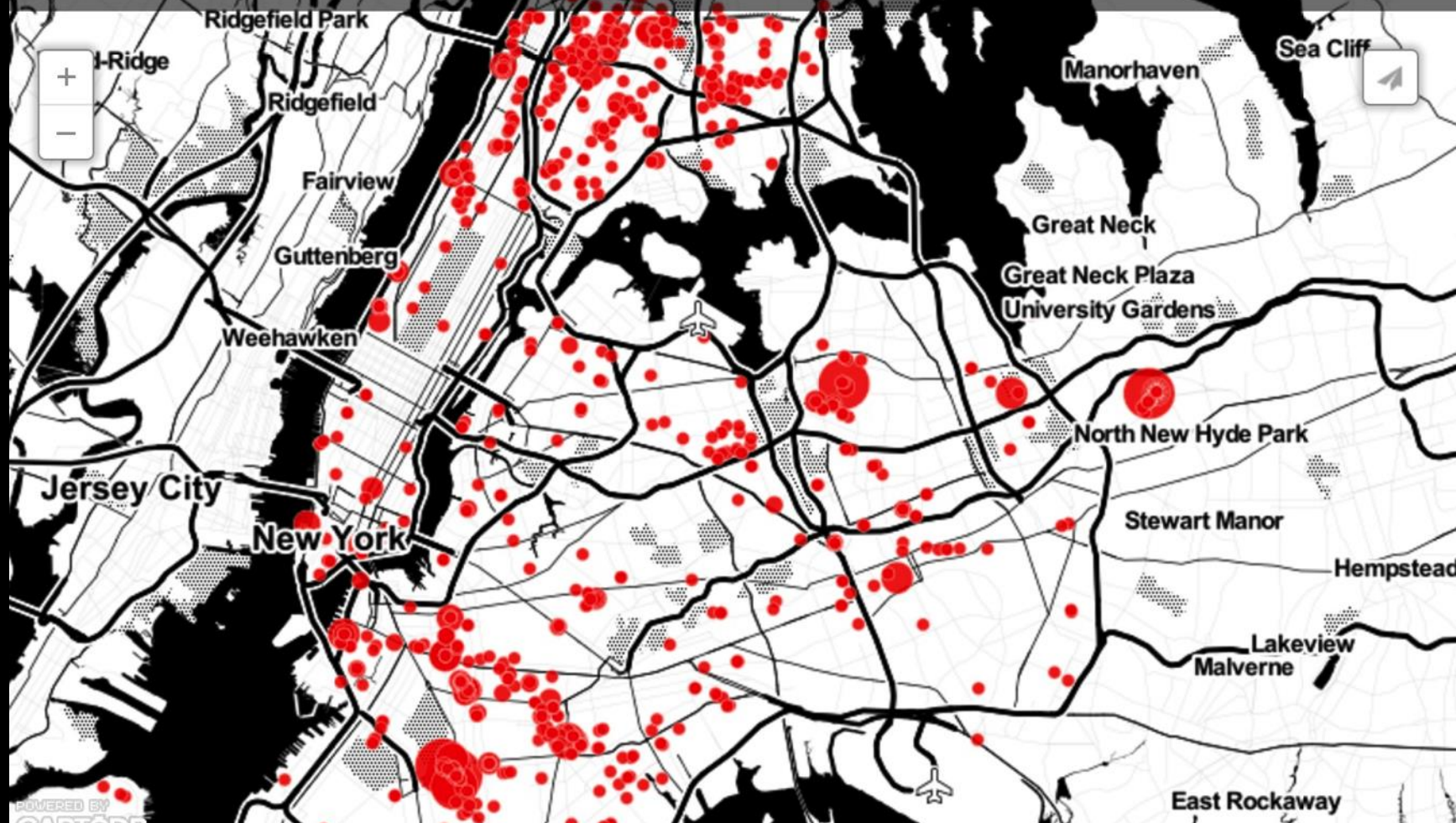
“While DOT has not received any complaints about this location, we will review the roadway markings and make any appropriate alterations.”

-NYC Department of Transportation





Legal Parking Spots Repeatedly Ticketed by NYPD



POWERED BY
CARTO DB

Map tiles by [Stamen Design](#), under [CC BY 3.0](#). Data by [OpenStreetMap](#), under [ODbL](#), [CartoDB attribution](#)

“Mr. Wellington’s analysis identified errors the department made in issuing parking summonses. It appears to be a misunderstanding by officers on patrol of a recent, abstruse change in the parking rules. We appreciate Mr. Wellington bringing this anomaly to our attention.”

-NYPD

Data Storytelling

- Connect with People
- Try to Convey One Idea
- Keep it Simple
- Explore the Things You Know Best
- Figure Out What Exactly You are Trying to Say
- Think Outside the Box



NYPD Motor Vehicle Collisions

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

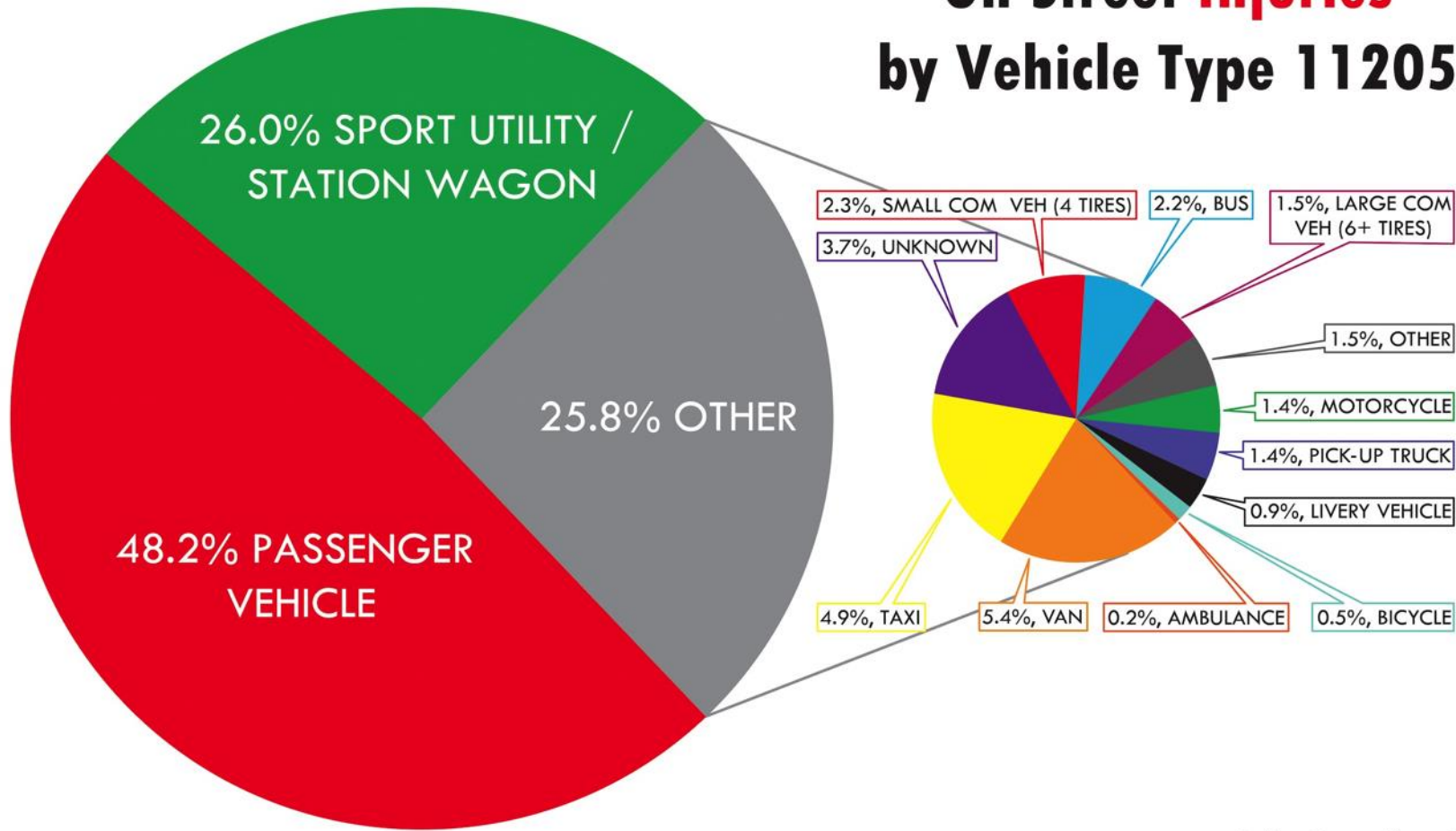


Find in this Dataset



	DATE	TIME	BOROUGH	ZIP CODE	LATITUDE	LONGITUDE
1	02/13/2015	0:01				
2	02/13/2015	21:45	MANHATTAN	10002	40.7156221	-73.9942752
3	02/13/2015	21:45	MANHATTAN	10001	40.7475349	-73.9883068
4	02/13/2015	21:45	BRONX	10462	40.8335582	-73.8577325
5	02/13/2015	21:44	MANHATTAN	10017	40.7487997	-73.969846
6	02/13/2015	21:40	STATEN ISLAND	10304	40.6172954	-74.0804791
7	02/13/2015	21:39	BRONX	10462	40.8319276	-73.85104
8	02/13/2015	21:33	MANHATTAN	10016	40.7464777	-73.9838968
9	02/13/2015	21:25	BROOKLYN	11237	40.705679	-73.9260903
10	02/13/2015	21:20	MANHATTAN	10036	40.7615555	-73.9940691
11	02/13/2015	21:20	BRONX	10458	40.8571285	-73.8807926
12	02/13/2015	21:15				
13	02/13/2015	21:15				
14	02/13/2015	21:15				
15	02/13/2015	21:15	QUEENS	11432	40.7216199	-73.7767096
16	02/13/2015	21:11	BROOKLYN	11221	40.6875062	-73.9146441
17	02/13/2015	21:07	STATEN ISLAND	10312	40.5584106	-74.1693169
18	02/13/2015	21:05	QUEENS	11378	40.723681	-73.8006076

On Street Injuries by Vehicle Type 11205



created by George Ekwensi
SOURCE: NYPD, NYC OPEN DATA

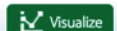


311 Service Requests from 2010 to Present

All 311 Service Requests from 2010 to present. This information is automatically updated daily.



Find in this Dataset



Unique Key	Created Date	Closed Date	Agency
1	29952579	02/16/2015 02:12:30 AM	NYPD
2	29950779	02/16/2015 02:10:15 AM	02/16/2015 03:34:36 AM NYPD
3	29947340	02/16/2015 02:10:04 AM	DOT
4	29952664	02/16/2015 02:07:52 AM	TLC
5	29953428	02/16/2015 02:07:43 AM	NYPD
6	29953346	02/16/2015 02:07:08 AM	02/16/2015 03:12:59 AM NYPD
7	29947201	02/16/2015 02:01:26 AM	02/16/2015 02:45:01 AM NYPD
8	29947469	02/16/2015 01:58:36 AM	NYPD
9	29948047	02/16/2015 01:55:34 AM	NYPD
10	29947486	02/16/2015 01:53:38 AM	02/16/2015 02:18:56 AM NYPD
11	29947385	02/16/2015 01:47:38 AM	NYPD
12	29949248	02/16/2015 01:47:20 AM	NYPD
13	29947444	02/16/2015 01:47:16 AM	NYPD
14	29952563	02/16/2015 01:39:41 AM	NYPD
15	29952644	02/16/2015 01:37:16 AM	02/16/2015 02:54:21 AM NYPD
16	29952438	02/16/2015 01:37:13 AM	NYPD
17	29947408	02/16/2015 01:32:35 AM	NYPD

Filter

Conditional Formatting

Sort & Roll-Up

Filter

Filter this dataset based on contents.

Unique Key is

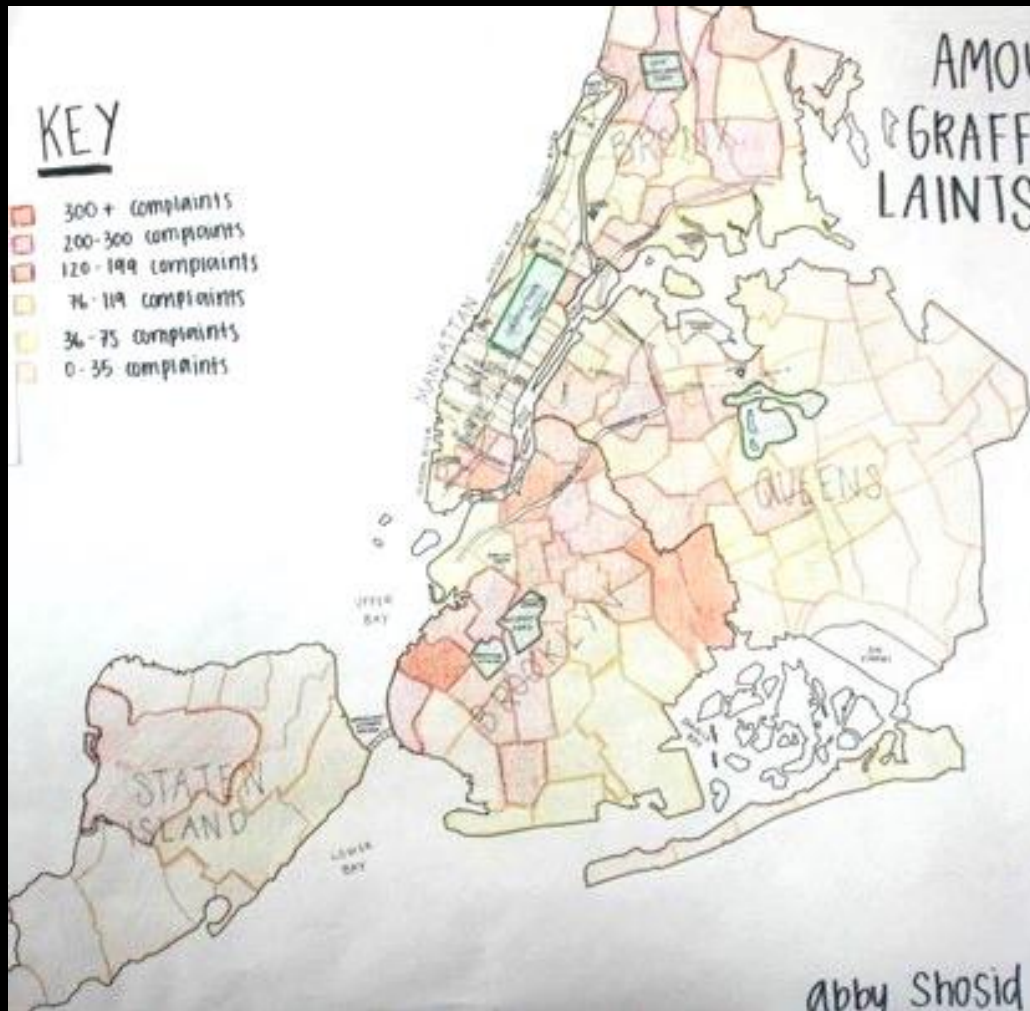
+ Add a New Filter Condition

Never created a filter before? Watch a short tutorial video [here](#).

AMOUNT OF GRAFFITI COMPLAINTS (BY ZIP CODE)

KEY

- 300+ complaints
- 200-300 complaints
- 120-199 complaints
- 76-119 complaints
- 36-75 complaints
- 0-35 complaints



abby shosid

Anyone can be a Data Storyteller.

iquant.nyc

[@iquantny](https://twitter.com/iquantny)