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."



























Work together to solve New York's challenges.

BigApps is a competition that empowers the sharpest minds in tech, design, and business to solve NYC's toughest challenges. From May to July 2014, over 100 teams built, pitched, and demonstrated strong and innovative projects. 20 BigApps finalists are moving on to compete for over \$100,000 in cash prizes!

SEE GRAND PRIZE WINNERS

SEE BIGIDEA WINNERS

SEE ALL FINALISTS

"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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Open Data

Computer **Programmers**





Public

Open Data

Computer Programmers

Apps

Public

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

















Business



City Government



Education



Environment



Health



Housing & Development



Public Safety



Recreation



Social Services



Transportation



NYC BigApps





Providing Unprecedented Access to Data

<u>Browse</u> and download over 1,500 New York State data resources on topics ranging from farmers' markets to solar photovoltaic projects to MTA turnstile usage. Also check out the <u>Open NY Dataset Submission Guide!</u>







Education



Energy & Environment



Government & Finance









The New York State Education Department (NYSED) is committed to making data available and easy to use. This site provides a first step in publicly reporting educational data so all interested parties can be better informed as they work to advance student achievement.

NEW YORK STATE EDUCATION AT A GLANCE

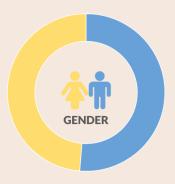


733 Districts 4,447 Public Schools 315 Charter Schools



210,496

Total Public School Teachers

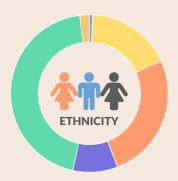


data.nysed.gov



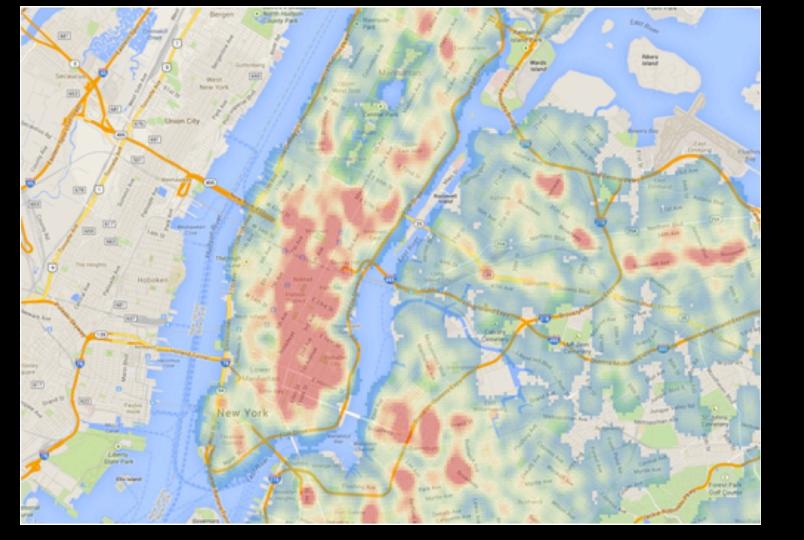
2,640,250

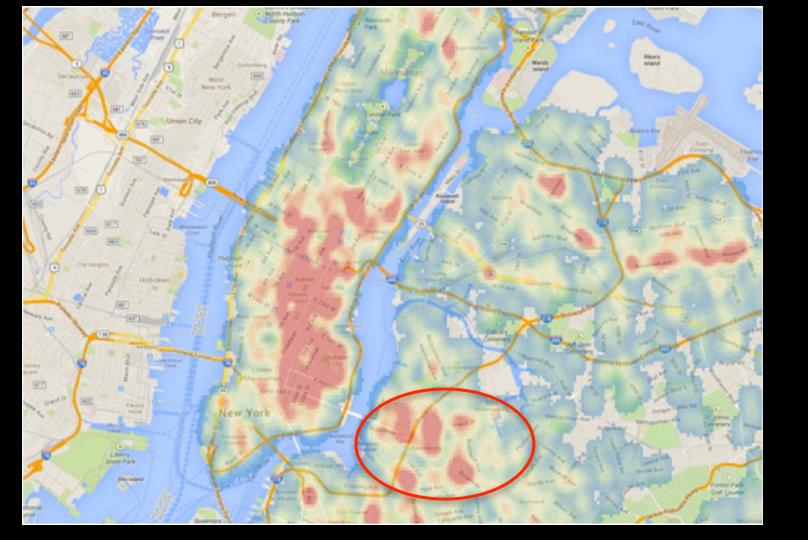
Total K-12 Public School Students in New York State

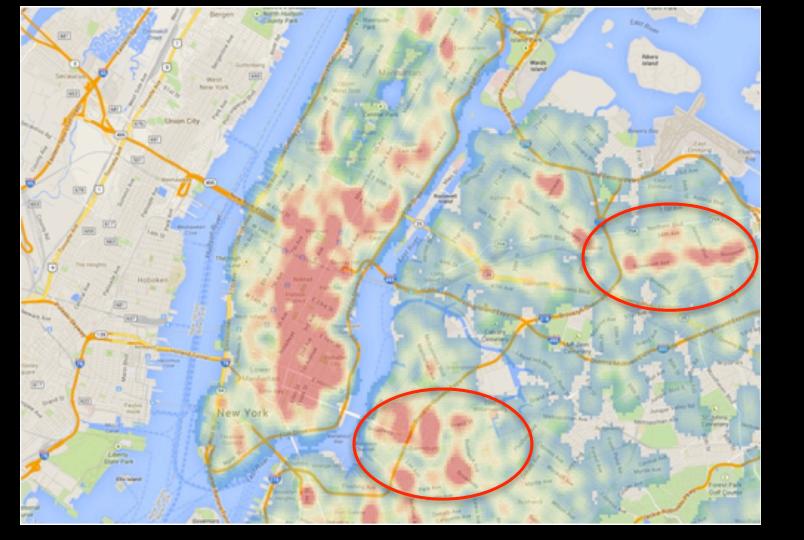


Report Card Database (140.23 megabytes)

This database contains multiple years of enrollment, staff, graduation, dropout, assessment, and accountability data for the state as well as by county, Need to Resource Capacity group, district, public school, and charter school.









Police Department

		Mo	tor Veh			•	Intersections			
JEENS				Aug	gust 20)14			NYPD Precinc	ts N
ntersection Address (***)	of Persons with		Collisions with Injuries	Category	Injured	Killed	Vehicle Types		Contributing Factors (**)	
100th Precinct										
ALMEDA AVENUE and BEACH 64 STREET	1	2	0	Motorists Passengers	0 0	0 0	Passenger vehicle	1	Driver inattention/distraction	2
BEACH 64 STREET				Cyclists Pedestr Total	0	0	Sport utility / station wagon	1		
BEACH 104 STREET and BEACH CHANNEL DRIVE	Passengers 0 0 veh(6 or veh(6 or veh)	Large com veh(6 or more tires)	1							
DRIVE					_		Passenger vehicle	1		
BEACH 108 STREET	3	5	2	Motorists	3	0	Motorcycle	1	Failure to yield right-of-	1
and BEACH CHANNEL				Passengers Cyclists	0	0	Passenger	1	way	
DRIVE	Pedestr 0 0 vehicle	vehicle	Ш	Unsafe lane changing	1					
					Sport utility / station wagon	2				
							Unknown	1		
	1	1	1	Motorists	1	0	Motorcycle	1		
				Passengers Cyclists	0	0				

Police Department City of New York

Motor Vehicle Collision Report Intersections

NYPD Precincts Map

	Word Vernete Cottision Report intersections
QUEENS	August 2014

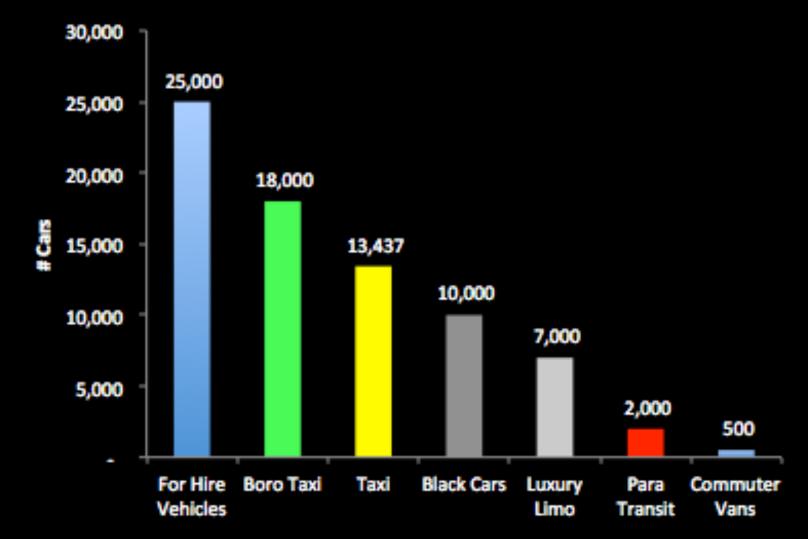
Intersection Address (***)	Number of Collisions	Persons Involved(*)	Collisions with Injuries	Category	Injured	Killed	Vehicle Types		Contributing Factors (**)	
100th Precinct										
ALMEDA AVENUE and BEACH 64 STREET	1	2	0	Motorists Passengers Cyclists	0	0	Passenger vehicle	1	Driver inattention/distraction	2
BEACH 64 STREET	Pedestr 0 0 Total 0 0	Sport utility / station wagon	1							
BEACH 104 STREET and BEACH CHANNEL	1	2	0	Motorists Passengers Cyclists Pedestr	0 0 0	0 0 0	Large com veh(6 or more tires) Passenger vehicle	1		
DRIVE				Total	0	0		1		
BEACH 108 STREET	3	5	2	Motorists	3	0	Motorcycle	1	Failure to yield right-of-	
and BEACH CHANNEL				Passengers Cyclists Pedestr Total	0 0 0 3	0 0 0	Passenger vehicle	1	way	L
DRIVE									Unsafe lane changing	1
							Sport utility / station wagon	2		
							Unknown	1		
	1	1	1	Motorists Passengers Cyclists	1 0	0	Motorcycle	1		

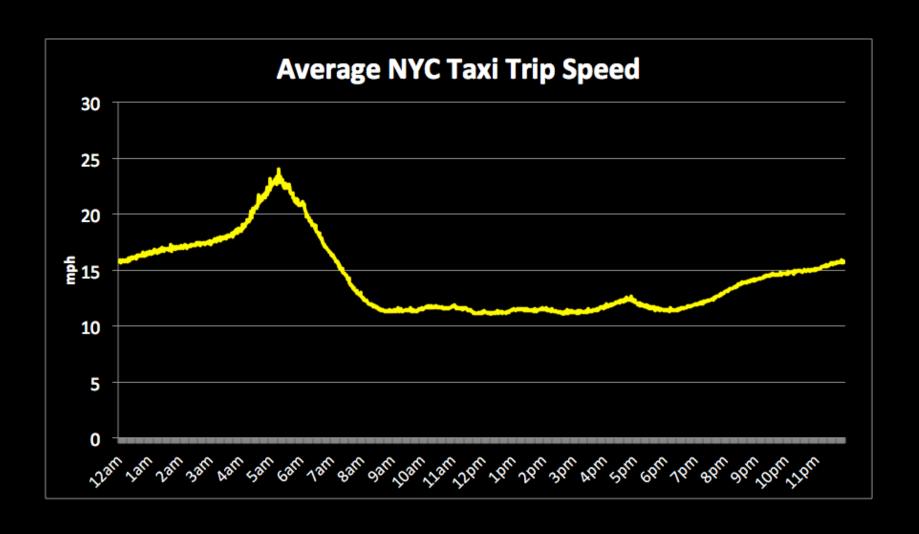
SUMMARY OF ADOPTED CAPITAL BUDGET AND CAPITAL PROGRAM

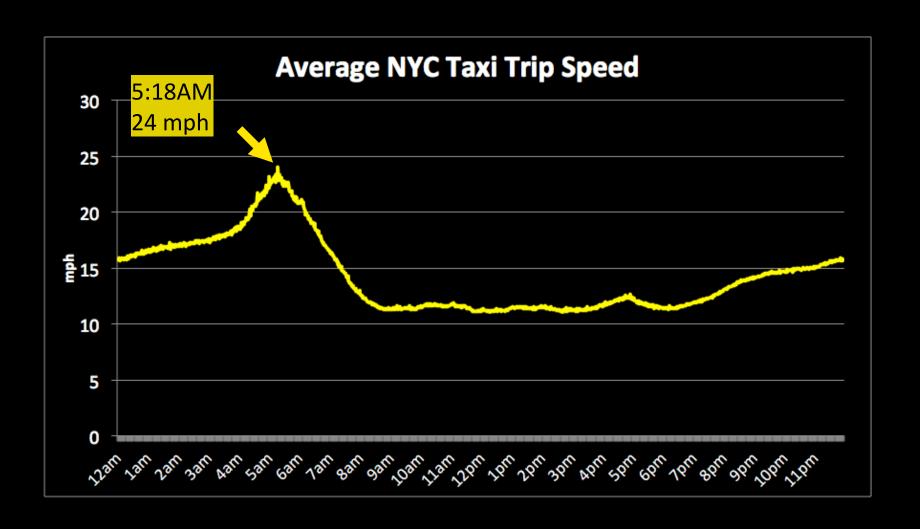
	APPROPRIATIONS FOR FISCAL YEAR 2015							
PROJECT TYPE	TOTAL ALL FUNDS	CITY NON EXEMPT	CITY EXEMPT	NON CITY				
HIGHWAYS	373,560,348	190,388,445	0	183,171,903(8				
TRAFFIC		30,096,220	39,000	14,257,942(
TRANSPORTATION EQUIPMENT	21,942,859	18,443,139	0	3,499,720(1				
WATERWAY BRIDGES	28,901,635	6,056,606	0	22,845,029(1				
IRE DEPARTMENT	116,497,114	6,119,225	0	110,377,889(
EALTH AND HOSPITALS CORP	59,991,046	59,991,046	0	0				
OUSING PRESERVATION AND DEVELOPMENT								
HOUSING & DEVELOPMENT	364,235,779	320,498,643	0	43,737,136(
HOUSING AUTHORITY	69,503,000	69,503,000	0	0				
UMAN RESOURCES ADMINISTRATION	48,870,079	25,356,406	0	23,505,746(7,927(
EW YORK PUBLIC LIBRARY	54,533,605	54,527,605	0	6,000(
EW YORK RESEARCH LIBRARIES	950,000	950,000	0	0				
OLICE DEPARTMENT	79,747,565	79,747,565	0	0				
UEENS BOROUGH PUBLIC LIBRARY	17,585,660	16,710,000	0	875,660(
RANSIT AUTHORITY - CAPITAL								
SIRTOA	500,000	500,000	0	0				

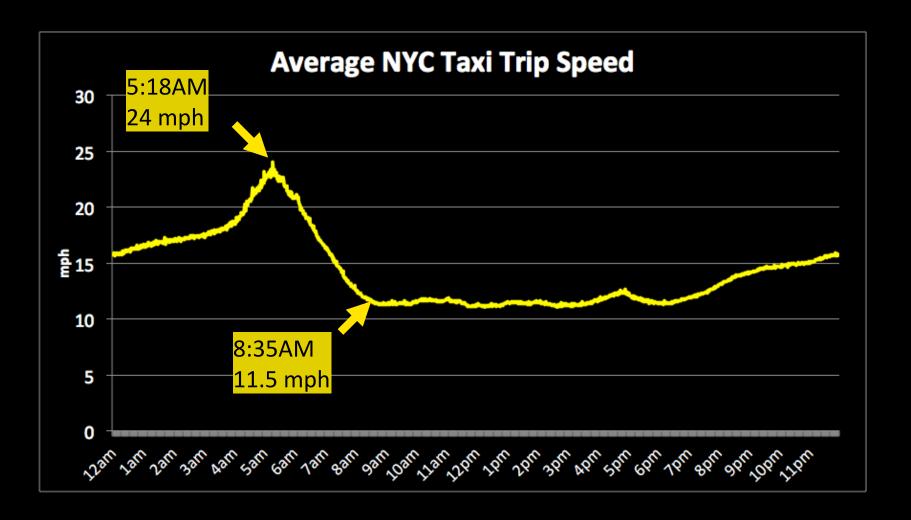
Sem' Open Data

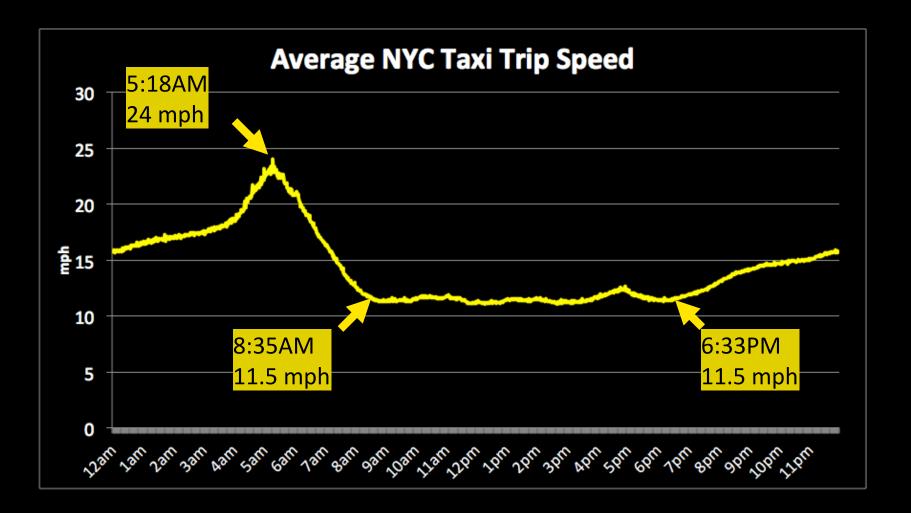
Uses Valuable Talent to Make "Public" Data Public













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

1

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

33 Beaver Street, 22nd Floor New York, New York 10004

Attn: Records Access Officer

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).



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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Sem' Open Data

Uses Valuable Agency Time to Reply to FOIL Requests



















Private schools putting NYC at risk for measles outbreak

By Mayrav Saar

January 31, 2015 | 8:49pm



NEWS & POLITICS



NEWS & POLITICS ▼ ENTERTAINMENT ▼ FASHION ▼ RESTAURANTS ▼ BARS ▼ S

PLUS Travel Design Dates Weddings Real Estate Doctors NYC Tourist Guide Best Of New York Issue

Intelligencer / Exclusive

March 30, 2014 9:07 p.m.

Immune to Logic: Some New York City Private Schools Have Dismal Vaccination Rates

By Clint Rainey Follow @clintrainey



In 2011, parents at a progressive Silicon Valley private school felt the nation's scorn when it was revealed **WNYC News**

Religious Schools Lead the Vaccine **Opt-Out List**

Wednesday, February 04, 2015

By Fred Mogul: Reporter, WNYC News

























00:00 / 00:00



























Health Data NY

Ope	n.ny	.gov	Health Da	ata NY	Health.ny.gov	Developers	He	lp		
000					vey: Beginning 2 lects aggregate data fro			☆ Manage	∞ More Views	Filter
		Schoo	ol ID	Ð≔	District Name		Ð⊟	Report Period	Туре	⊕ ≔
			^					~		
1	≔	0101000	010000		ALBANY CITY SCHO	OL DISTRICT		2013-2014	School Distr	ict
2	≣	0101000	010014		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol
3	≣	0101000	010016		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol
4	≣	0101000	010018		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol
5	≣	0101000	010019		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol
6	≣	0101000	010020		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol
7	≣	010100	010023		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol
8	≔	0101000	010027		ALBANY CITY SCHO	OL DISTRICT		2013-2014	Public Scho	ol

School Immunization Data

- School-Level Data has no Public Schools in NYC
- Borough-Level Vaccination Rates Given
- The average Private School has a Vaccination Rate of 97%
- The average Public School Student has a vaccination rate of Over 98%.

"For comparison, among the more than 800 private schools in the city, the overall immunization rate last year was 97 percent. In public schools, the current immunization rate is above 98 percent, according to the New York City Department of Education."

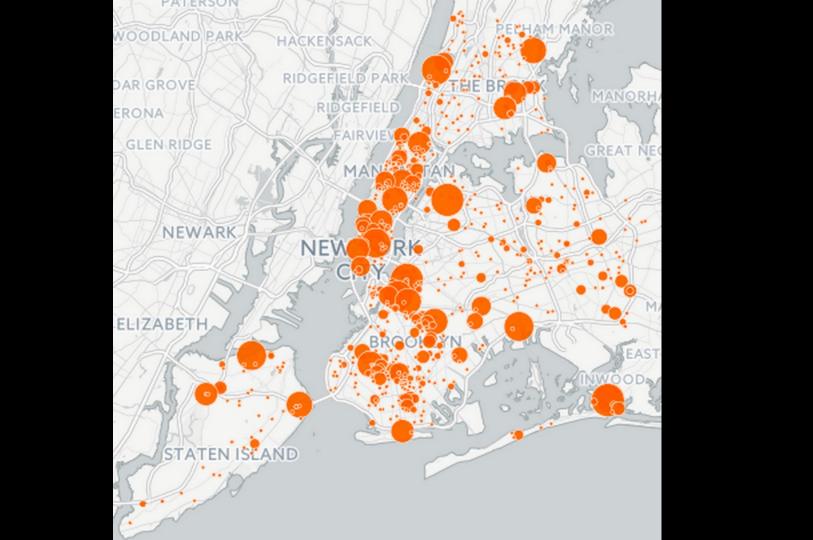
"Only 0.19 percent of public school students received the religious exemption this year, while 0.01 percent were granted a medical exemption."

New York Post

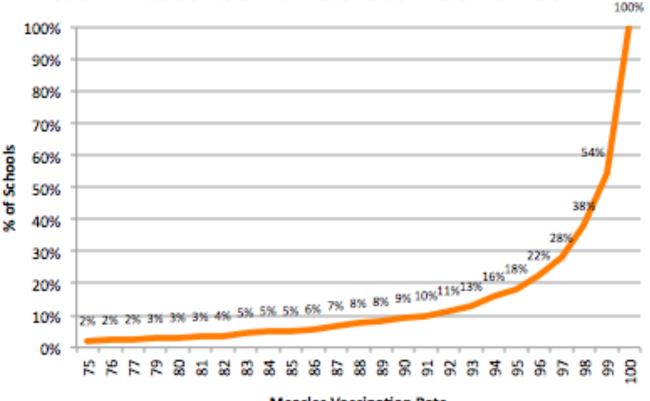
Religious Schools Lead the Vaccine Opt-Out List

"Using state data, WNYC found 165 schools in this area, public and private, where more than 10 percent of the students don't have their shots."

-WNYC



% of Private Schools with Vaccination Rate X or Below



Measles Vaccination Rate

1 in 7 public and private schools in the country have vaccination rates below 90%.

In New York City, our private schools, the source of all these headlines, are more like 1 in 12, making them much better than the national average of all schools.

--USA Today



















Private schools putting NYC at risk for measles outbreak

By Mayrav Saar

January 31, 2015 | 8:49pm



Semi Open Data

Leads to Assumptions and/or Bad Data



1100+ Datasets Available



1342296199

1342296187

1337077380

1364523796

1359914924

1355498326

1361272259

1360588279

1360588267

1360016156

1255986920

1359121262

10



•000	Parking Violations Issue Parking Violations Issued during Fiscal Year 2014 (August 2013 – June 2014)						
		Summons Number	Plate ID	Registration Sta			
1	≣	1361929741	FCJ5493	NY			
2	≣	1366962000	63540MC	NY			
3	≣	1356906515	GFM1421	NY			
4	≣	1342296217	FYM5117	NY			

95V6675

GCY4187

18972BB

WNJ4730

68091JZ

EWV4127

P4ZO671

F49DAE

LE44037

77618KA

49916MD

WRZ97S

TX

NY

NY

VA

NY

NY

99

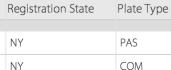
NJ

99

NY

NY

NJ



Manage

PAS

SRF

PAS

SRF

999

PAS

COM

PAS

999

PAS

COM

COM

COM

PAS



09/18/1971

09/18/1971

09/18/1971

09/18/1971

10/10/1971

04/05/1973

07/22/1973

08/12/1973

09/22/1973

09/25/1973

09/25/1973

10/15/1973

10/30/1973

11/12/1973

More Views



Print

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CSV

JSON

PDF

RDF

RSS

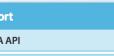
XLS

XLSX

XML

Download

Visualize





Download a copy of this dataset in a static format

Q Find in this Dataset











15 15 309 47 STREET NY License Address Industry Full Address

ED BY GEO DISTRI ADMIN DIST ADDRESS

Number

DBA

HOUSE

Violation

NaN

838

DRIVE

NaN

RIVERSIDE

PEKING DUCK

SEVEN ONE

Address Street Building Name 459 CITY

236

BUILDING

BORO

STREET ZIPCODE EAST 53 10022

Date

First

STATE CODE ZIP

PHONE 2127598260 20

Sub

Section Division

State

PRINCIPAL

Jennifer

11220

City

CUISINECODE

PRIN PH

718-567-

ZIP

Code

INSPDATE

FAX

718-

567-

Borough

GRADES

PK.0K.01.02

Address

Location

2011-03-17 00:00:00 2013-11-

From. Hour

Violation In Front County Of Or Opposite

CAMIS

40400686

House Street Name Number

Intersecting Street ***********

BEND

NaN

Observed

NaN

WEST 160

STREET

NaN

STREET

QUEENS

Law

Intersection

Address T

INTERSEC'

ADDRESS

INTERSEC'

Incident Incident Zip

10032

10032

10032

Address

Street Name NaN NaN

RIVERSIDE

DRIVE

NaN

Cross Street

Cross Street 2

Intersection Street 1

DRIVE

NaN

RIVERSIDE

RIVERSIDE

DRIVE

Street 2

WEST 158

WEST 158

STREET

STREET

NaN

Code

Legal

Parking In

Violation Effect

Days







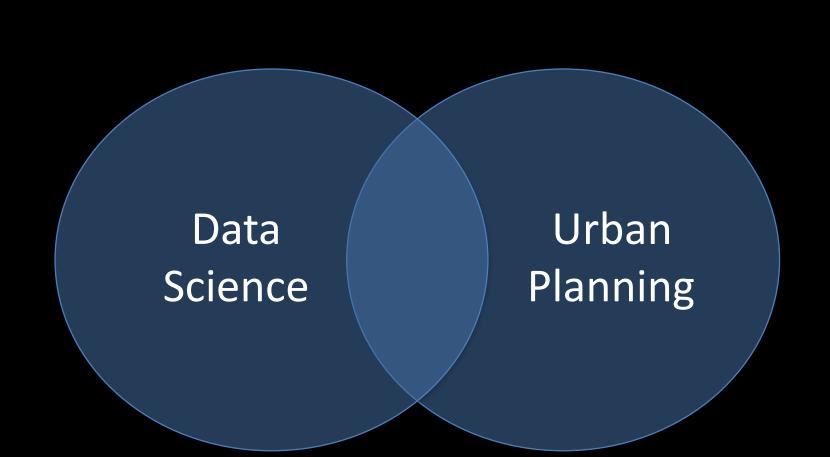




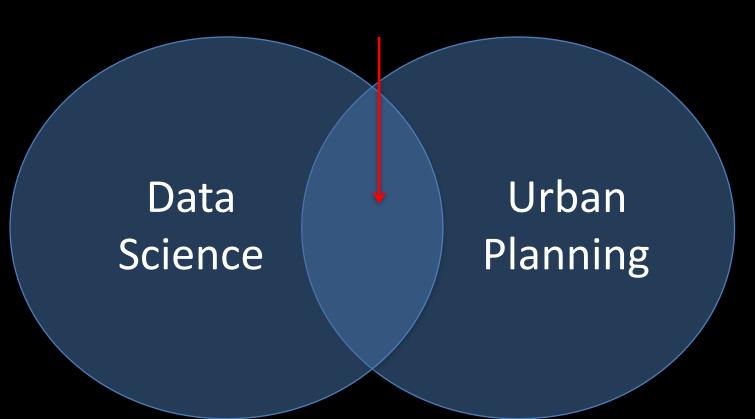


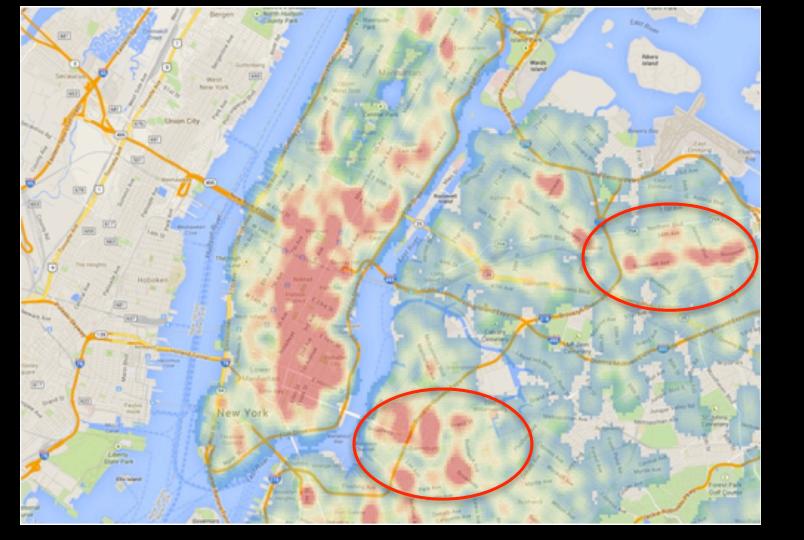


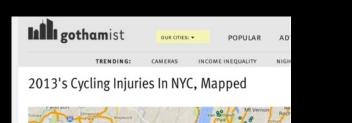




I Quant NY













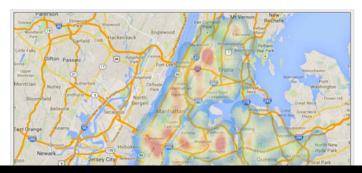
STREETSBLOG NYC

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

Thursday, February 27, 2014

D 1 Commi

Heat Maps Show Where Traffic Takes the Most Lives in NYC by Stephen Miller







Bicycling Walking Public Space Vision Zero DMV Reform

Thursday, February 27, 2014

1 Committee

Heat Maps Show Where Traffic Takes the Most Lives in NYC by Stephen Miller







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











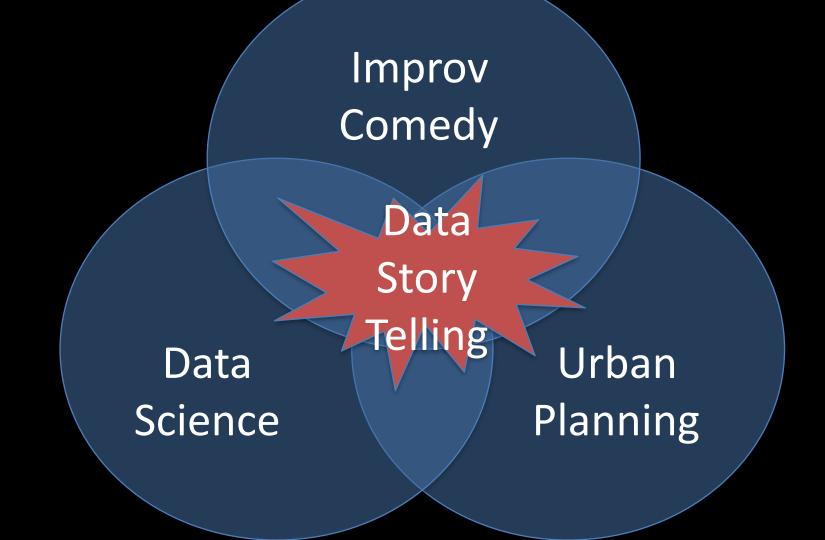


The New York Police Department doesn't make it easy to crunch the city's traffic fatality and injury numbers, releasing the data in a PDF format that's

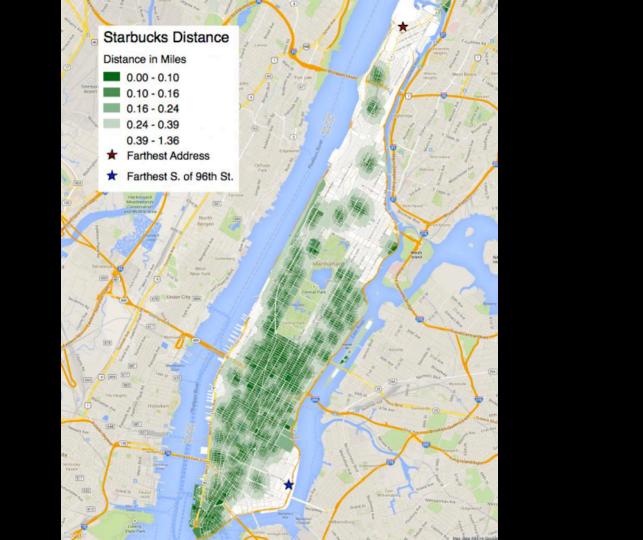
Urban Data Science Planning

Improv Comedy

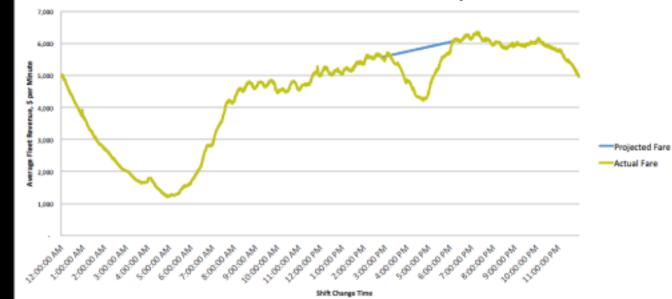
Data Science Urban Planning



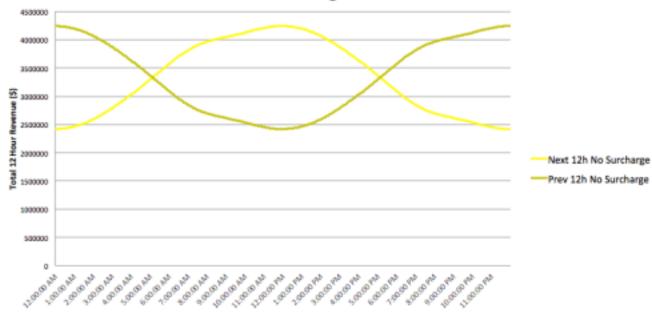
Connect With People's Experiences



NYC Taxi Fare Revenue Per Minute, 2013

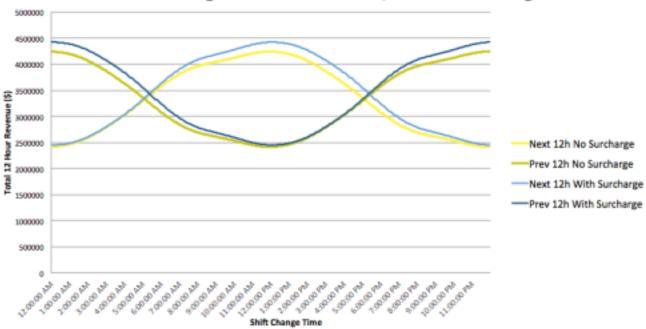


NYC Taxi Fare Rolling 12 Hour Revenues

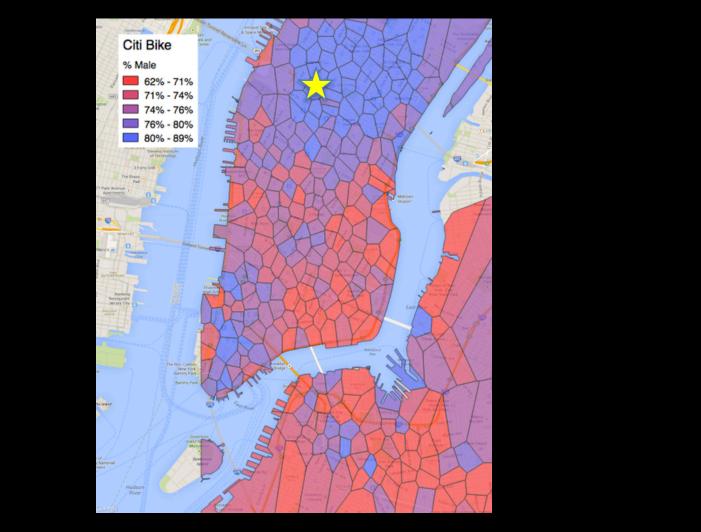


Shift Change Time

NYC Taxi Fare Rolling 12 Hour Revenues w/ Reverse Surcharge



Focus on One Idea



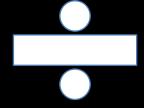
Keep it Simple

$$\begin{aligned} &= \frac{1}{4\pi} \underbrace{\varepsilon_{\varepsilon}}_{\varepsilon} \underbrace{\frac{1}{k_{\varepsilon}} \underbrace{\frac{1}{k_{\varepsilon}}}_{\varepsilon} \underbrace{\frac{1}{k$$

$$V_{k} = \sqrt{\frac{M_{z}}{R}} \quad F_{x} = \frac{1}{2}C_{x}\rho S_{z}^{2} \sqrt{x} \left(\frac{3b}{3t} \right) = \frac{a}{3t} \left(\operatorname{rot} \overrightarrow{b} \right) = -\mu_{0} \frac{a}{3t} \left(\frac{3b}{3t} \right) = \mathcal{E}_{0}\mu_{0} \frac{a^{2}E}{3t^{2}} \int_{0}^{2} \frac{1}{2\pi} \int_{0}^{2\pi} \frac{1}{2\pi} \int_{0}^{2\pi}$$

 $= \frac{F_{e}}{9_{0}} = k \frac{Q}{r^{2}} \int_{C(S)}^{C(S)} \vec{B} d\vec{l} = \mu \int_{S}^{C(S)} \vec{J} d\vec{S} \int_{C(M-1)(R_{0}-R_{0})}^{C(M-1)(R_{0}-R_{0})} \frac{M_{1}}{X} + \frac{M_{2}}{X'} = \frac{M_{2}-M_{1}}{R} \vec{S} = \frac{1}{M_{0}} (\vec{E} \times \vec{B})$ By = VELL Facing Kong

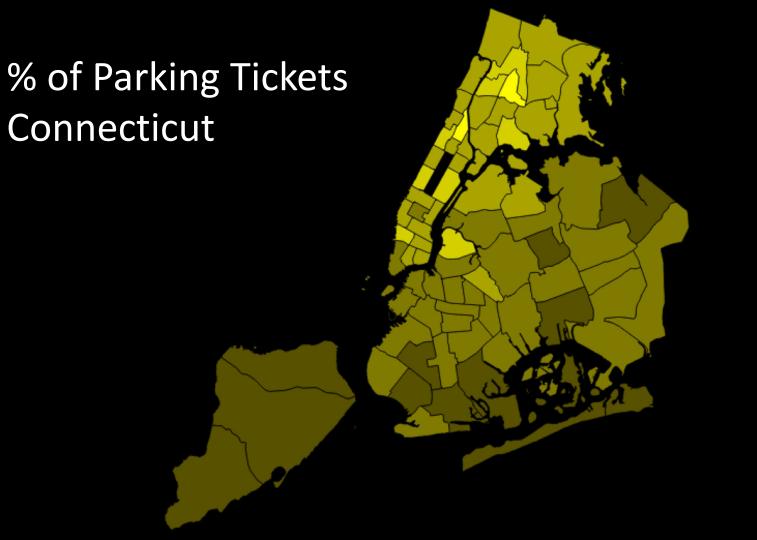








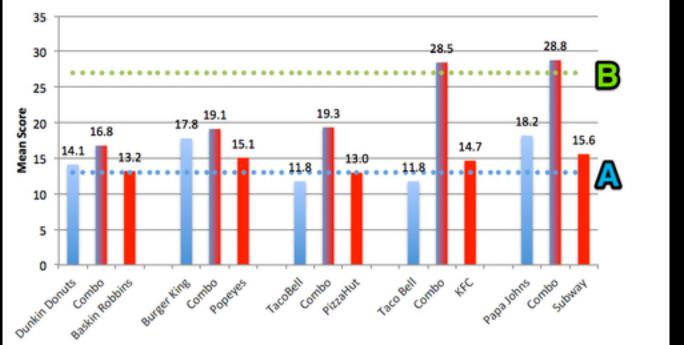






Explore the Things You Know Best

NYC Restaurant Inspection Scores, 2010-2014



NYC Restaurant Inspection Scores, 2010-2014



	Parent	Student	reacner	Parent	Student	reacner	income
Grades 3-8							
State Math Test	0.15	0.17	0.40	0.30	0.43	0.55	0.52
State English Test	0.15	0.11	0.40	0.32	0.36	0.53	0.56
Grade 12							
SAT Math	-0.08	0.17	0.15	-0.01	0.27	0.28	0.31
SAT Reading	-0.09	0.14	0.11	0.01	0.22	0.21	0.34
SAT Writing	-0.09	0.14	0.12	0.01	0.22	0.23	0.33
Cohort Size	-0.30	-0.21	0.00	-0.41	-0.17	-0.03	0.16
Neighborhood							

0.14

0.02

Academic Expectations

-0.11

-0.06

Median Income

Median

1.00

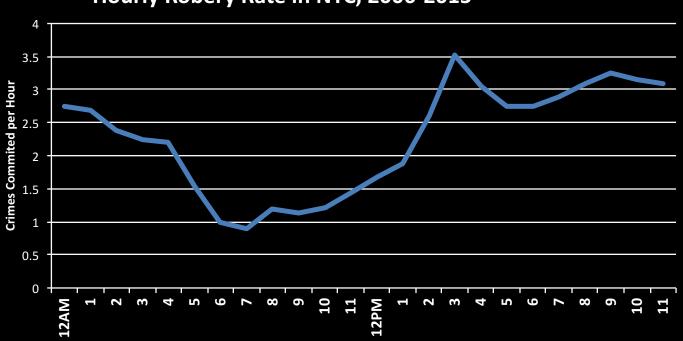
0.18

Safety and Respect

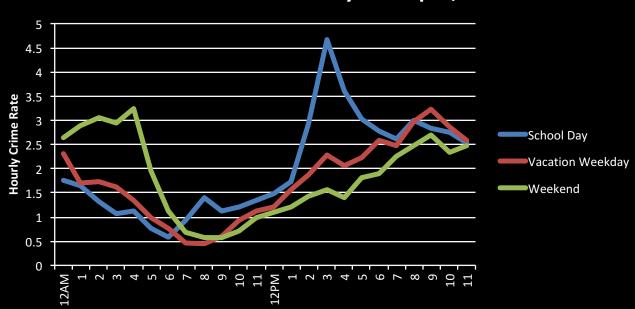
0.07



Hourly Robery Rate in NYC, 2006-2015



Robberies in NYC in February and April, 2006-2015



You are Trying to Measure

Figure Out What Exactly





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

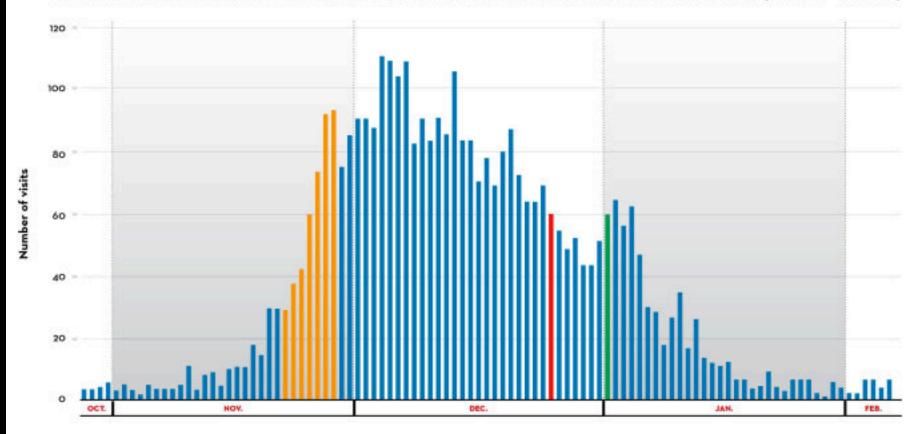


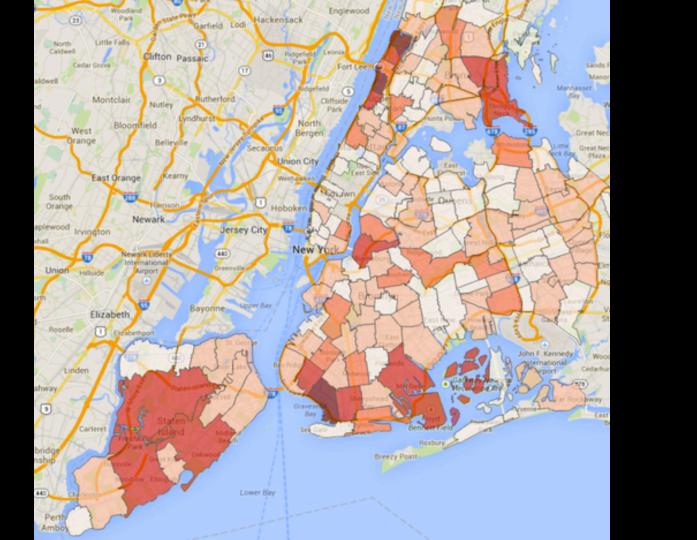
Photo by Georgine Benvenuto

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 25 20 Number of Complains PEr Day

7/1

Day of Year

9/1

10/1

11/1

12/1

1/1

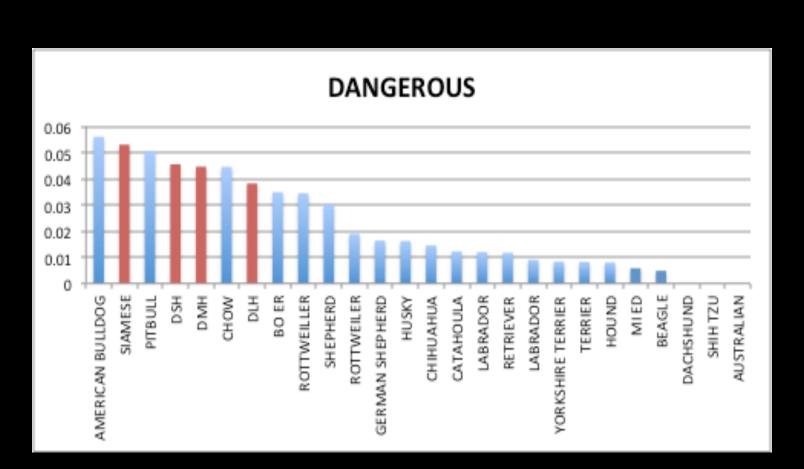
2/1

3/1

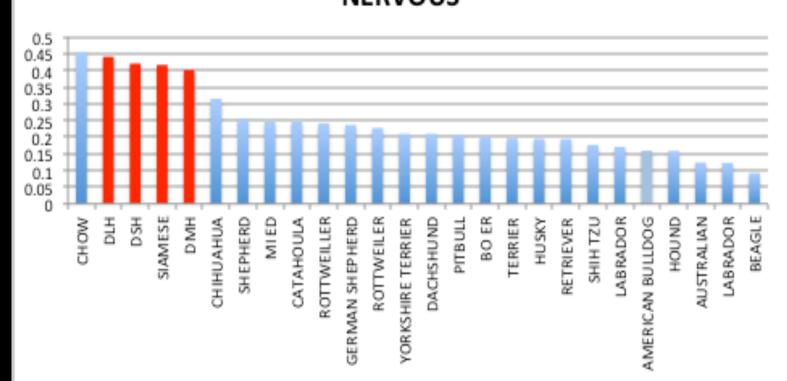
4/1

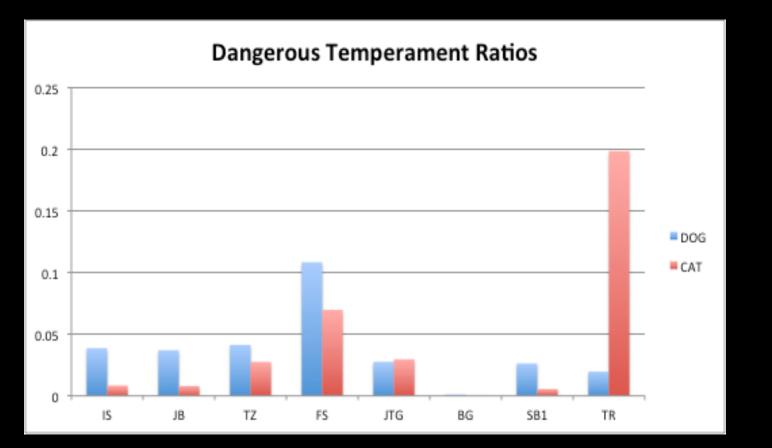
5/1

6/1

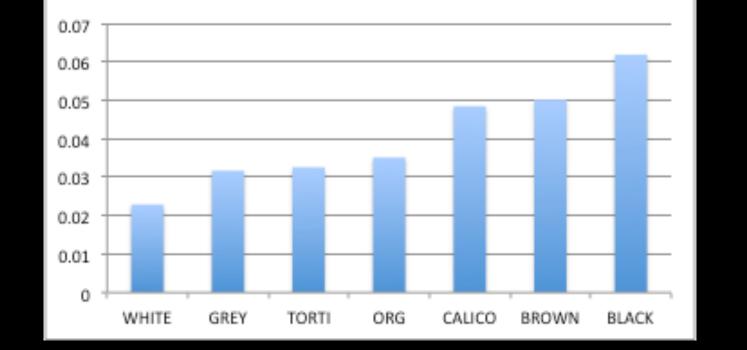


NERVOUS





Percentage Dangerous Cats - by Color



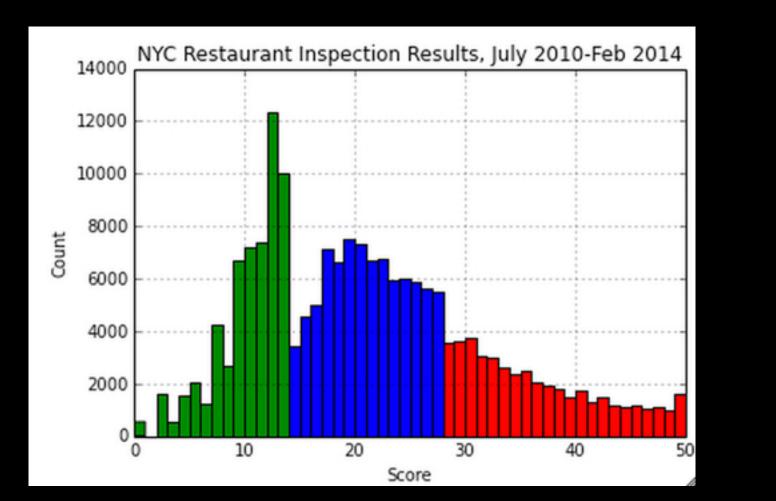
Make an Impact



Metropolitan Transit Authority

"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"



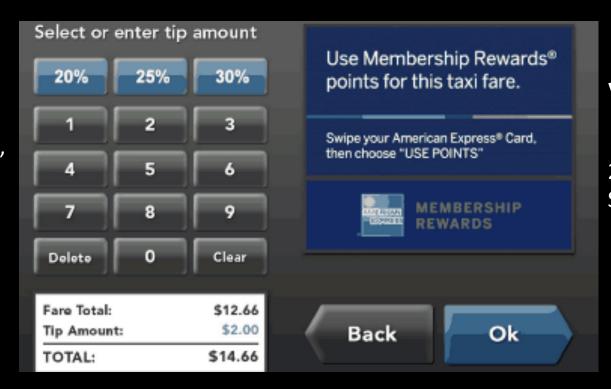


Department of Health

"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."

CMT

20% of Fare, Surcharge, Tax, Toll



Verifone

20% of Fare, Surcharge

Taxi and Limousine Commission

"We appreciate the work that went into his analysis, and we're giving it a thorough read"





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



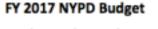


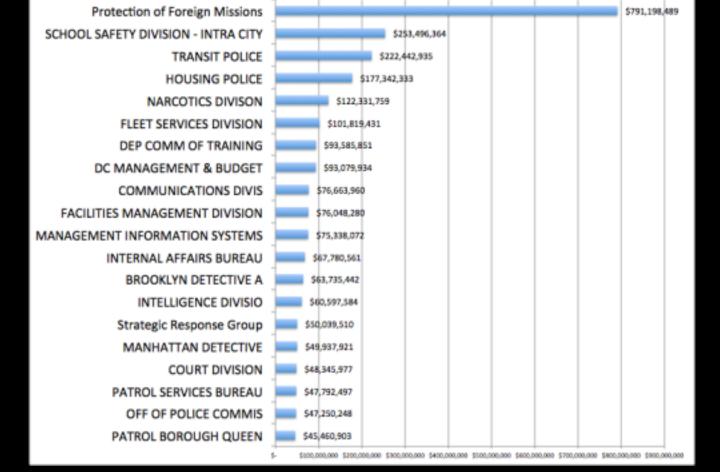




NYPD

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publicly shared Supporting Schedule and on Open Data."

"We are working on fixing this misprint in the







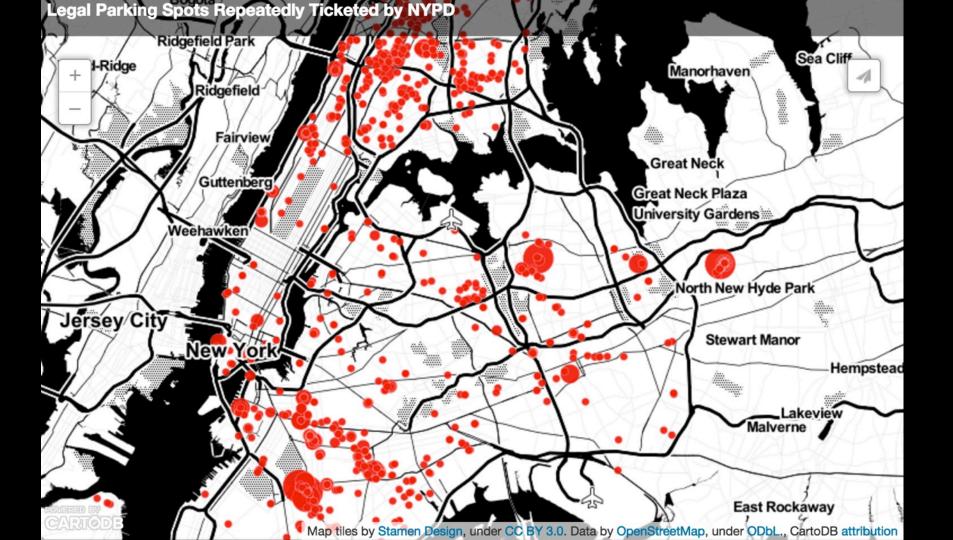
"While DOT has not received any complaints

about this location, we will review the roadway

markings and make any appropriate alterations."







"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."

all officers clarifying the rule change and has communicated to commanders of precincts with the highest number of summonses, informing them of the issues within their command."

"As a result, the department sent a training message to

"Thanks to this analysis and the availability of this open

data, the department is also taking steps to digitally

being issued correctly."

monitor these types of summonses to ensure that they are

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 Measure
- Think Outside the Box



21:44

21:40

21:39

21:33

21:25

21:20

21:20

21:15

21:15

21:15

21:15

21:11

21:07

21.05







40.7475349

40.8335582

40.7487997

40.6172954

40.8319276

40.7464777

40.705679

40.7615555

40.8571285

40.7216199

40.6875062

40.5584106

10 773681







-73.9883068

-73.8577325

-73.969846

-74.0804791

-73.85104

-73.9838968

-73.9260903

-73.9940691

-73.8807926

-73.7767096

-73.9146441

-74.1693169

-73 ROOKN7K

Sign Up Sig

NYC	Open	Data
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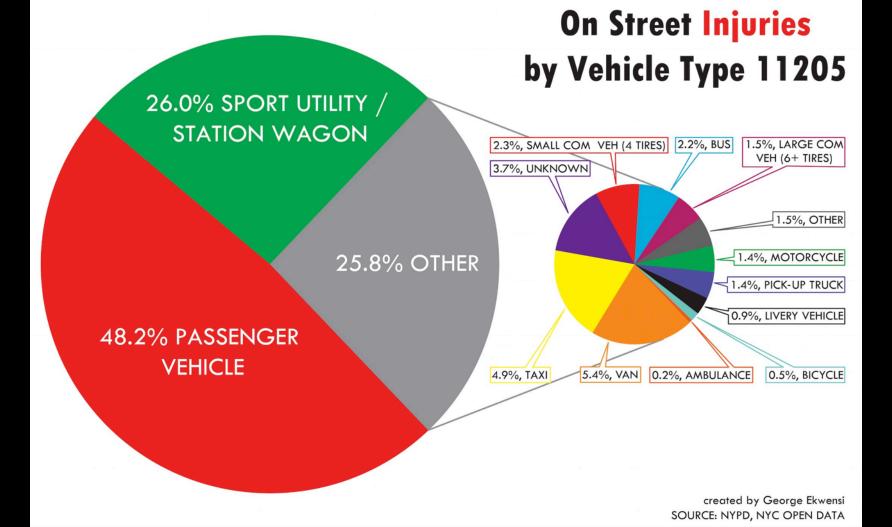
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NYPD









Q Find in this Dataset

Sign Up S

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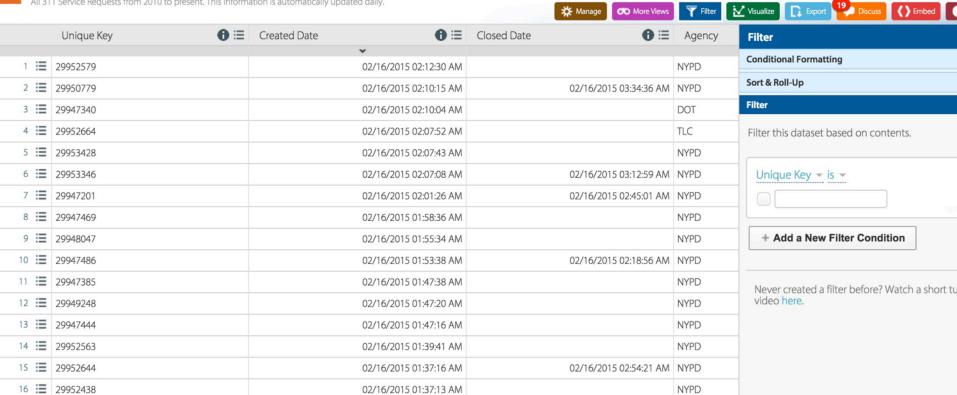
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311 Service Requests from 2010 to Present

NYC OpenData

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



02/16/2015 01:32:35 AM

AMOUNT OF EGRAFFITI COMP-LAINTS (BY ZIP CODE) 300 + complaints 200-300 comprosints 120-199 complaints 76-119 complaints 34-75 complaints 0-35 complaints SKY LAGILE abby Shosid

Anyone can be a Data Storyteller.

iquant.nyc

@iquantny