

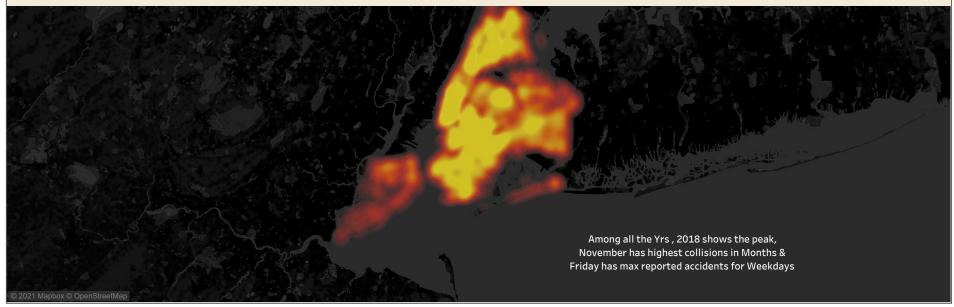
## Summary: Statistics of Collisions, Injuries & Deaths in NYC from yr 2012-2019

Collisions	Injuries	Deaths
843,850	224,847	915
	+	54
Avg Collisions/day	Avg Injuries/month	Avg deaths/year
312	2,555	131



## Heatmap of NYC Collision

(Choose year, month, weekday & hour to explore details)



YEAR All

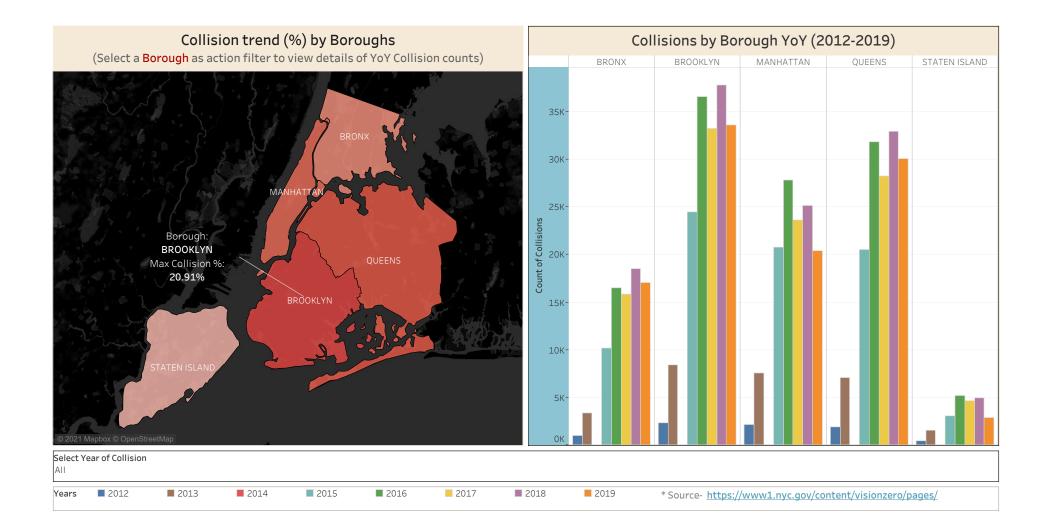
MONTH All

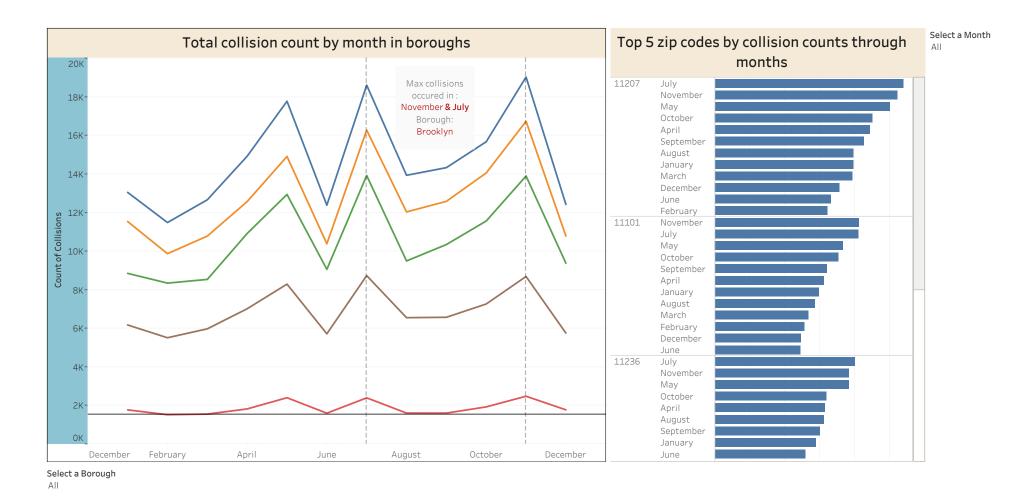
WEEKDAY

All

HOURS

All



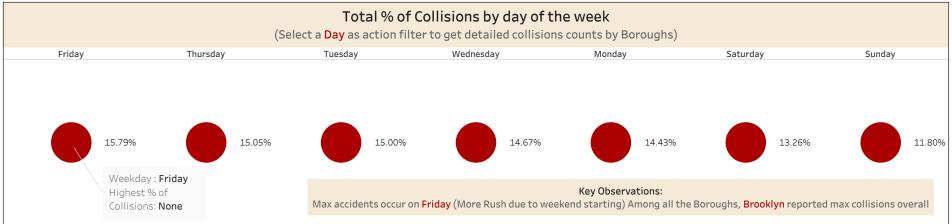


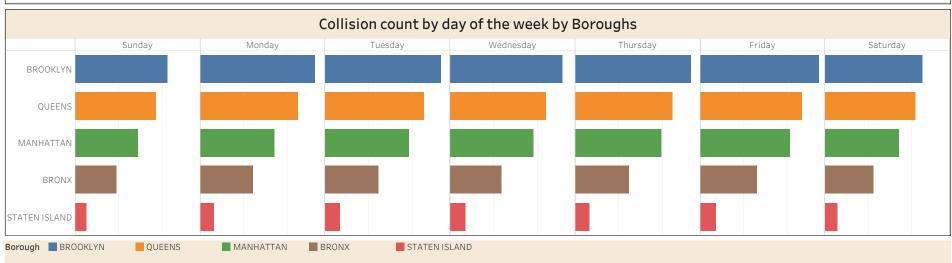
STATEN ISLAND

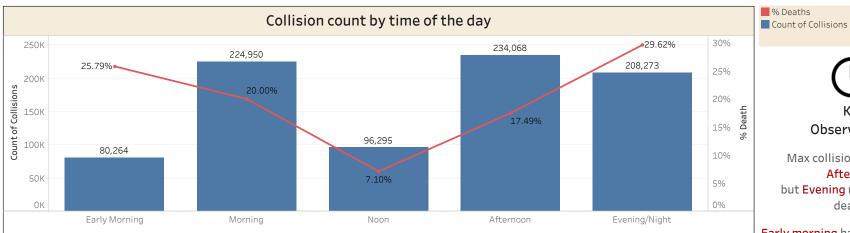
Borough BROOKLYN

QUEENS

MANHATTAN BRONX







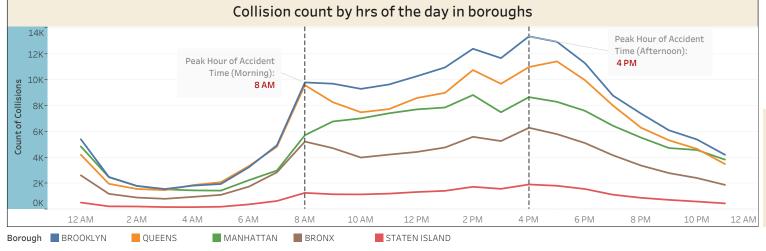


Max collisions occured in

Afternoon
but Evening recorded more
deaths.

Early morning had least collisions, but it was highly fatal.

Peak time for max accidents was Morning at 8 am & Afternoon at 4 pm.

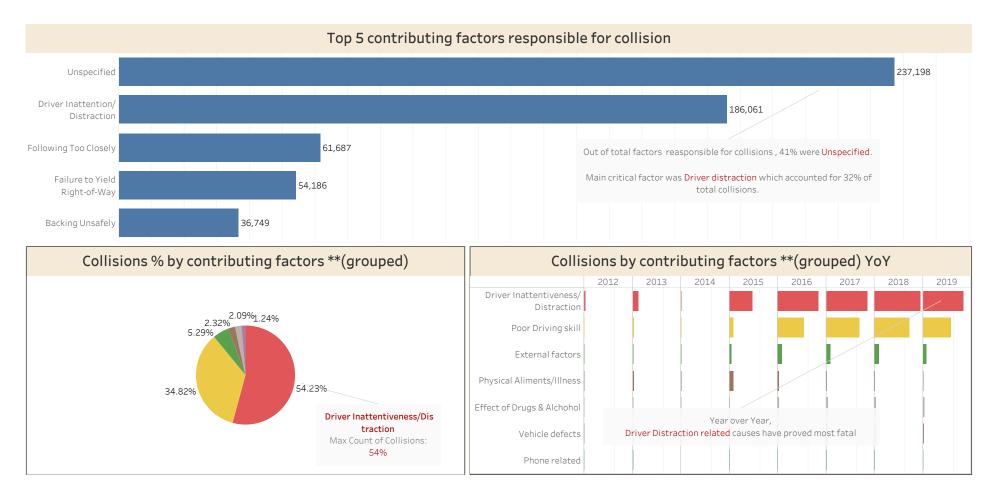


\*\* Time for the day was divided into 5 time groups. Early morning- 12am to 5:59am Morning-6am to 11:59am Noon-12pm-1:59 pm Afternoon-2pm to 5:59pm Evening/night-6pm to 11:59pm



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What are the main contributing factors responsible for these accidents



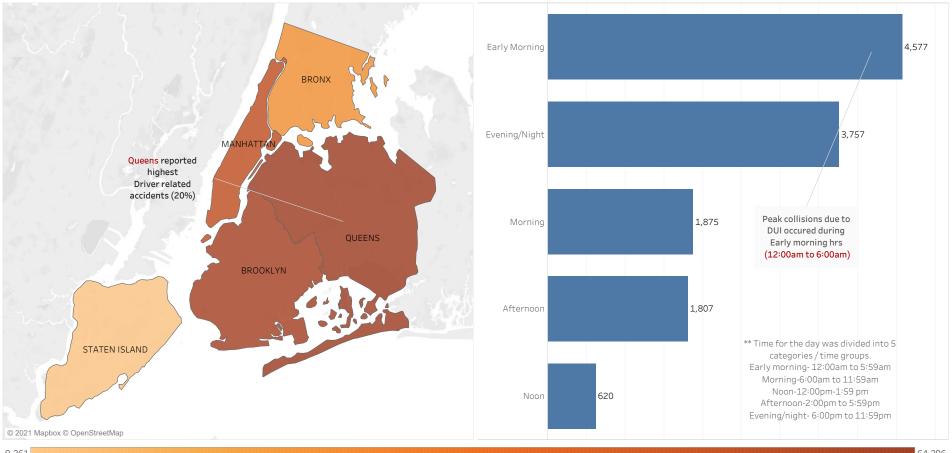
Contributing Factors

Driver Inatt.. Poor Driving.. External fac.. Physical Ali.. Effect of Dr.. Vehicle defe.. Phone relat..

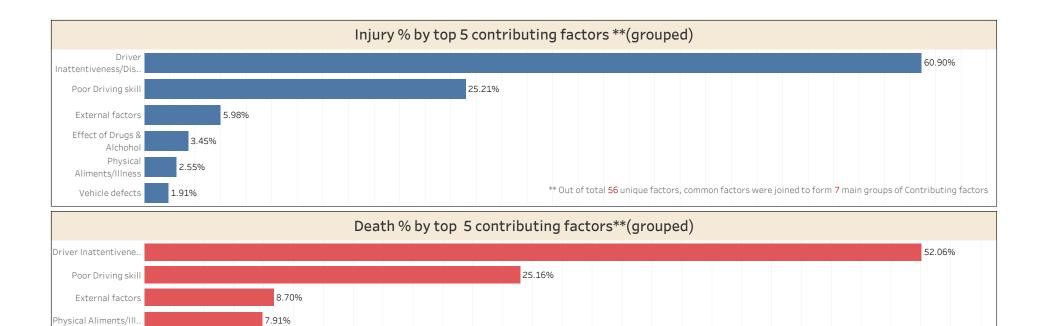
\*\* Out of total 56 unique factors, common factors were joined to form 7 main groups of Contributing factors

## Driver distraction related collisions by locations

## DUI related collisions by time of the day



9,261 64,296





Effect of Drugs & Alc..

Vehicle defects 0.63%

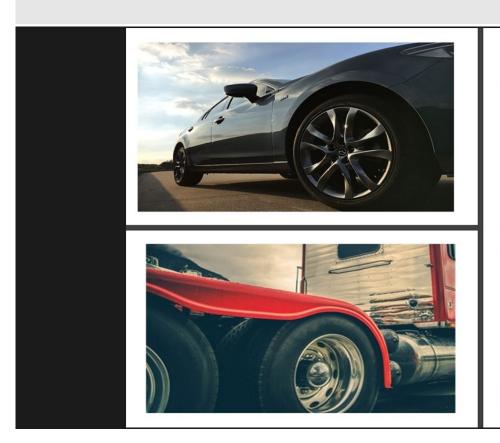
5.54%

## Key Observations:

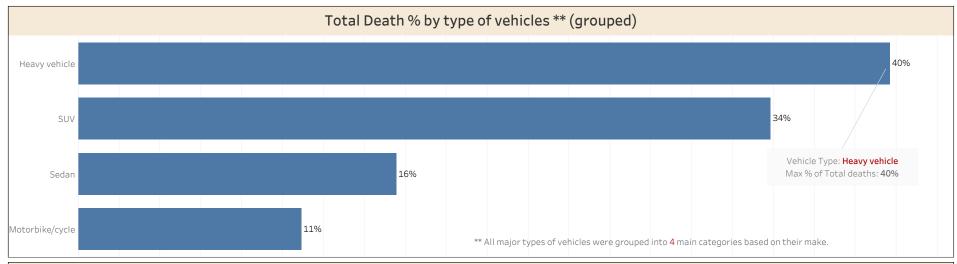
- Driver Inattentiveness/Distraction was the common cause of maximum injury & deaths reported.
   It was followed by Poor driving & External factors.
- 3. Although Alcohol proved critical for injuries, Physical ailments had major role as cause of deaths.

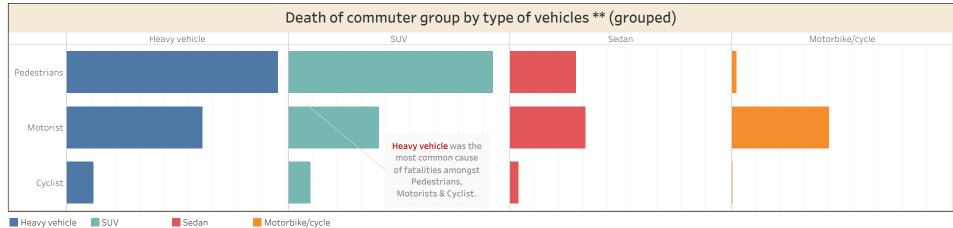


# Do Vehicle types impact the total collision counts?

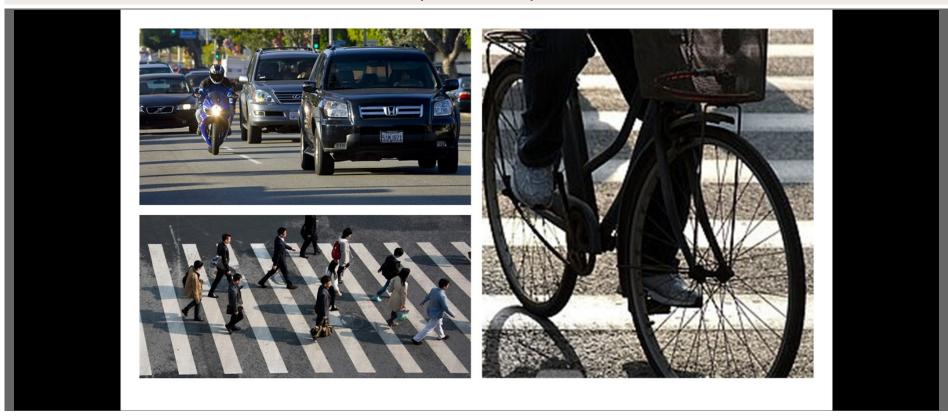






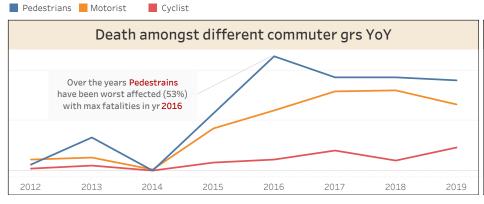


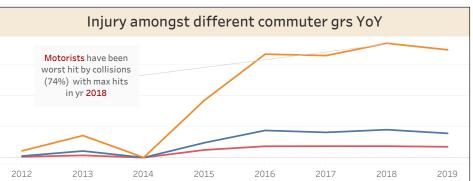
# Which Commuter group was most effected? Pedestrains/Cyclists/Motorists?



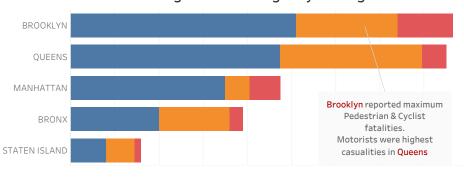
53.11%

73.79%

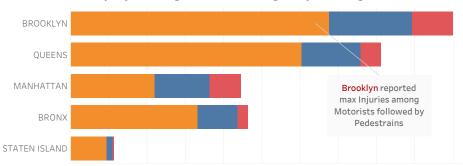




## Death amongst commuter grs by boroughs



## Injury amongst commuter grs by boroughs



## **CONCLUSIONS & RECOMENDATIONS:**





### **KEY INSIGHTS:**

- 1. Majority of accidents occured on Fridays (16%) with peak hrs being 8am & 4pm (Rush hours)
- 2. November & July were the 2 most critical months in total collisions reported.(Holiday season could be a cause)
  - 3. Amongst all locations, Brookyln reported max collisions (21%) overall.
  - 4. Of the major causes of accidents, Driver distraction was the highest (32%)
  - 5. Pedestrains were worst effected gr with 53% of total deaths followed closely by Motorists.
  - 6. Heavy vehicles were responsible for majority of deaths and injuries overall (40%)



#### **RECOMMENDATIONS:**

- 1. More focus on accidental hotspots at peak hours and holiday seasons.
- 2. Design policies and incentives to reduce vehicles plying during rush hours at busy areas.
- 3. Introducing strict penalties and legal ramifications for driver related mistakes.
- 4. Designing special strategies for safety of Pedestrians & deploying more traffic personnel.