Story 2

FLIGHT DELAYS
IN
NEW YORK
2013

Most Popular Hour

Time Hour
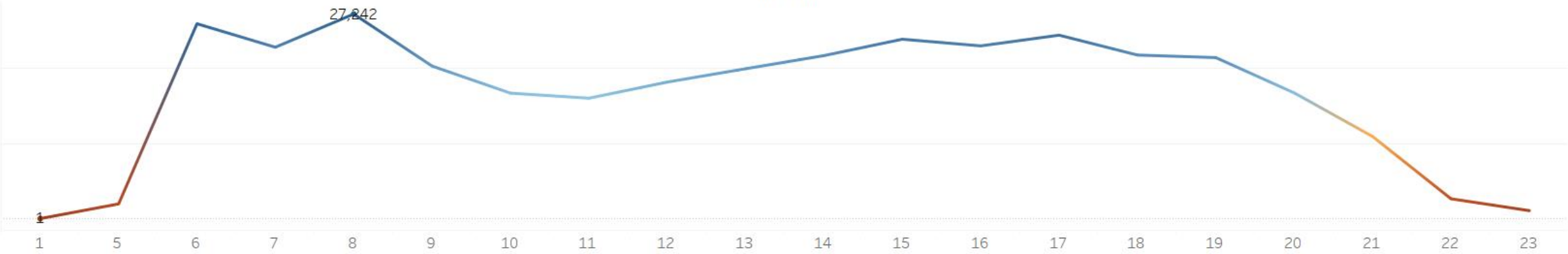
27,242

| 1 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |

Story 2

No. of Flights

3,36,776

No. of Flights by Week Day

Time Hour

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
46,357	50,690	50,422	50,060	50,219	50,308	38,720

50,690

38,720
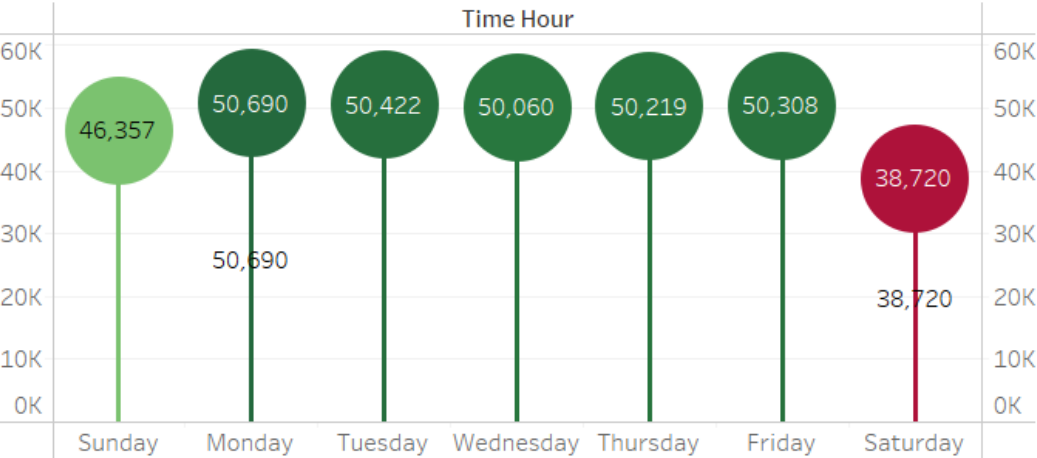
Most popular Day

Day
18

11,399

Monthly flights

27,004
24,951
28,834
28,330
28,796
28,243
29,425
29,327
27,574
28,889
27,268
28,135

Count of flights.csv

Story 2

Airport vs count

Airport	Count
EWR	1,20,835
JFK	1,11,279
LGA	1,04,662

0K 5K 10K 15K 20K 25K 30K 35K 40K 45K 50K 55K 60K 65K 70K 75K 80K 85K 90K 95K 100K 105K 110K 115K 120K 125K 130K

Airlines vs count

Name

Name	Count
Delta Air Lines Inc.	23,067
American Airlines Inc.	15,459
ExpressJet Airlines I..	8,826
United Air Lines Inc.	8,044
JetBlue Airways	6,002

0K 1K 2K 3K 4K 5K 6K 7K 8K 9K 10K 11K 12K 13K 14K 15K 16K 17K 18K 19K 20K 21K 22K 23K 24K 25K

Most Popular Routes

Origin	Dest	Count
LGA	ATL	10,263
	ORD	8,857
	BOS	4,283
	MCO	3,677

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000 10500 11000

Story 2

Airport vs count

Airport	Count
EWR	1,20,835
JFK	1,11,279
LGA	1,04,662

8 least used Airlines

Name

Name	Value
SkyWest Airlines Inc.	
Hawaiian Airlines Inc.	342
Mesa Airlines Inc.	601
Frontier Airlines Inc.	
Alaska Airlines Inc.	714
AirTran Airways Cor..	3,260

Airline vs Delay

Name

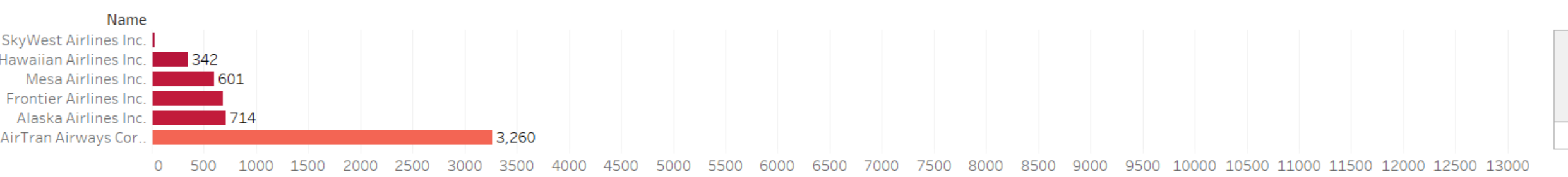| Name	Value
Frontier Airlines Inc.	42.12
AirTran Airways Cor..	38.72
ExpressJet Airlines I..	35.64
Mesa Airlines Inc.	
Southwest Airlines C..	27.31

Story 2

Delay Trend - 5 out of 6 Most delayed Airlines are from LGA. Frontier, the worst.

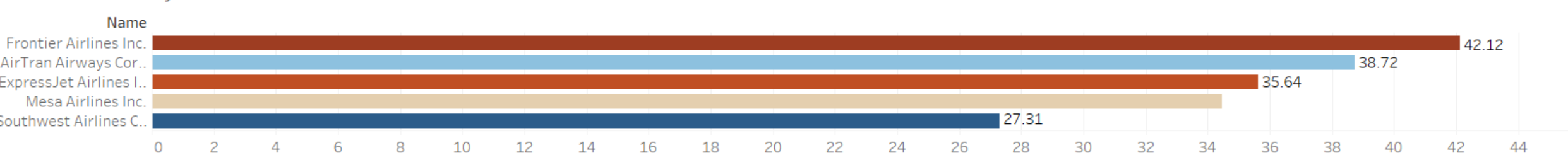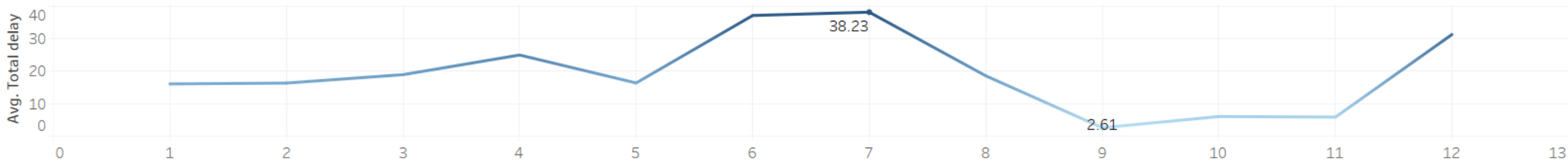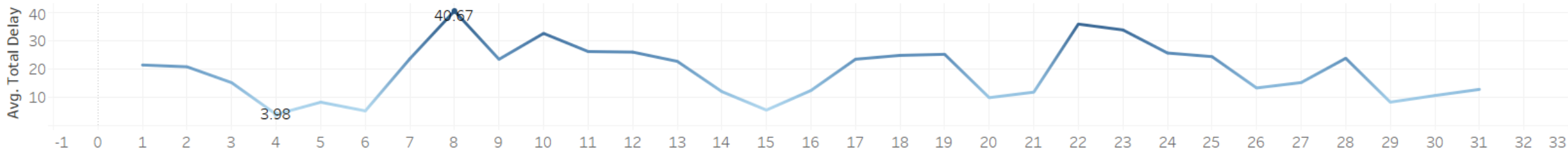**POPULAR TIME OF DELAY- Most delayed in 7th moth(maybe bcz of holidays), 8th day, 21st hour**

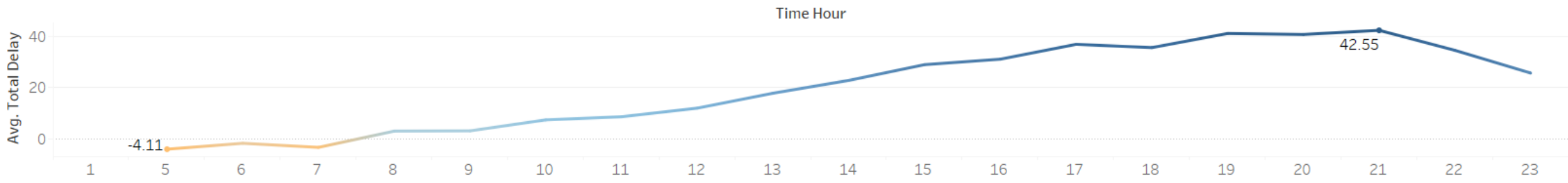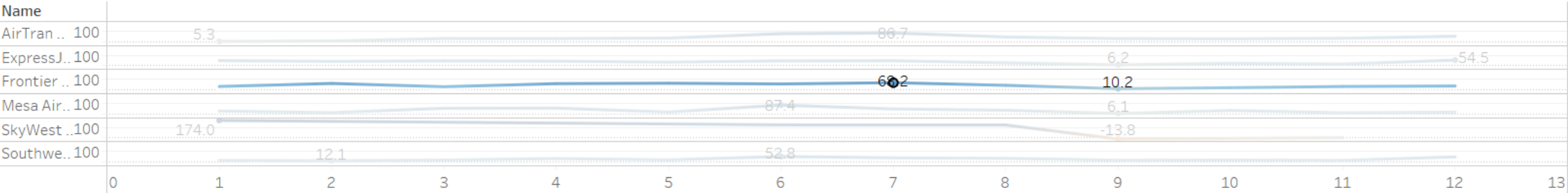AIRLINE DELAY TREND: Frontier- month 7th, date 13, hour 17 most delayed (avg)

Month vs delay

Day vs delay

Time vs delay

Story 2

Avg delays by Airlines month

Name

AirTran .. 100	5.3	86.7
ExpressJ.. 100		6.2 54.5
Frontier .. 100	68.2	10.2
Mesa Air.. 100	87.4	6.1
SkyWest ..100	174.0	-13.8
Southwe.. 100	12.1	52.8

0 1 2 3 4 5 6 7 8 9 10 11 12 13

Avg delays by Airlines day

Name

Frontier Airlines Inc.

485.0

-12.0

-1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

Avg delays by Airlines hour

Name

Frontier Airlines Inc.

102.6

-26.0

6 7 8 9 10 11 12 13 14 15 16 17 18

Story 2

airport vs delays Day

Origin
- EWR
- JFK
- LGA

Time Hour

44.31

-0.72
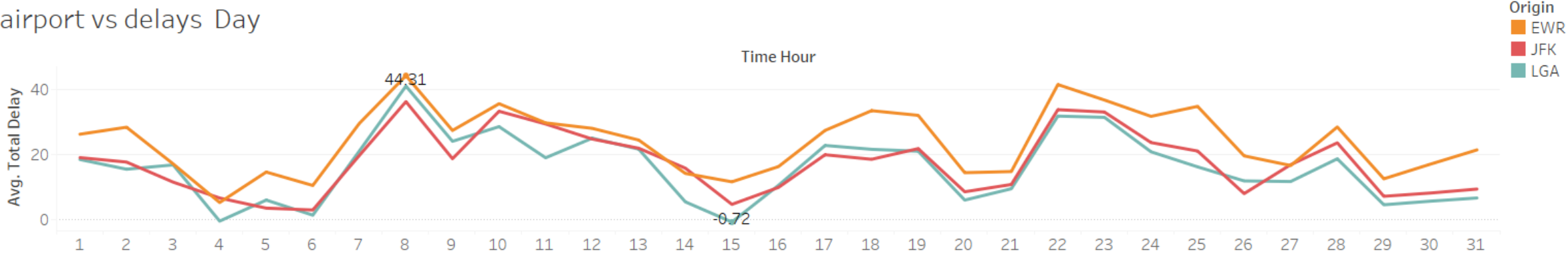
airport vs delays Hour
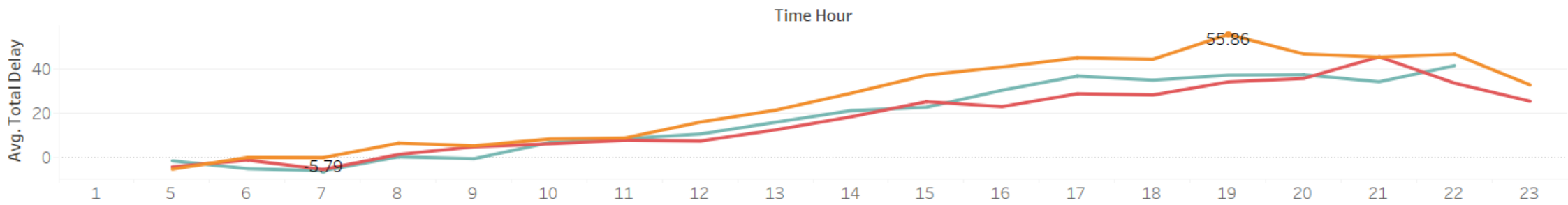
Time Hour

55.86

5.79

airport vs delays Month
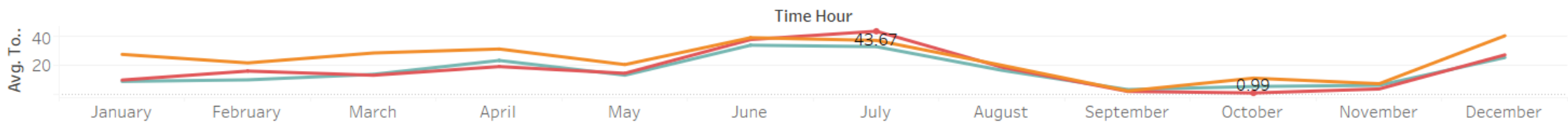
Time Hour

43.67

0.99

Story 2

LGA-BOS is 3rd most used route but with no delay.

Because only one Airline is used- US Airway Inc

Route vs delay
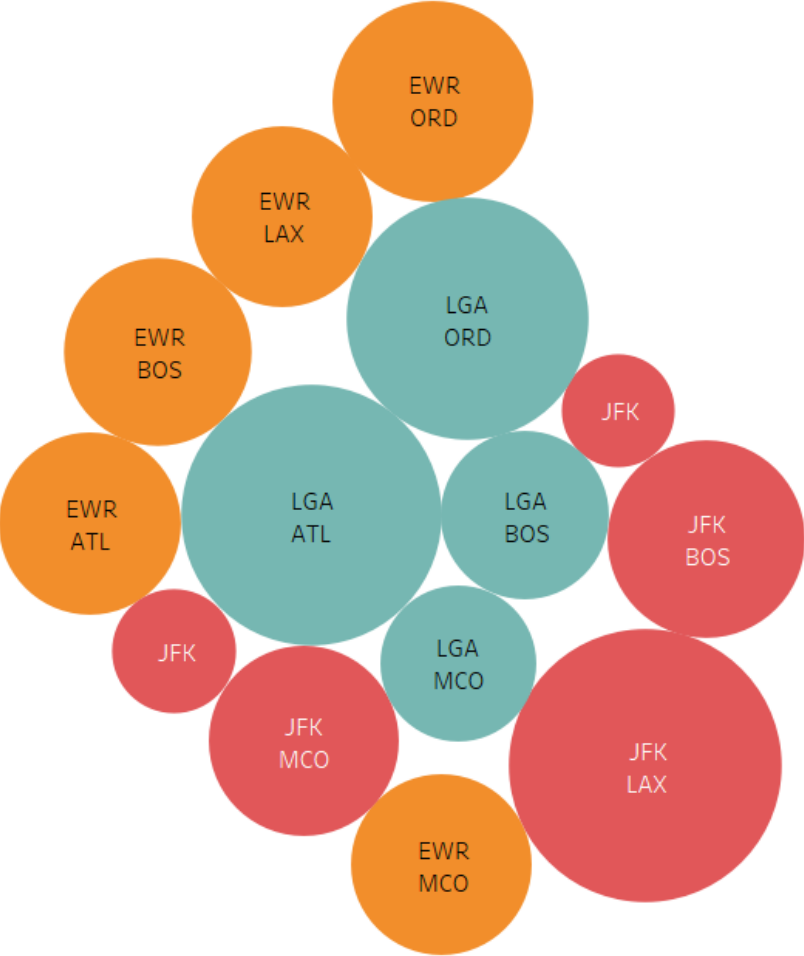
Route vs delay (2)
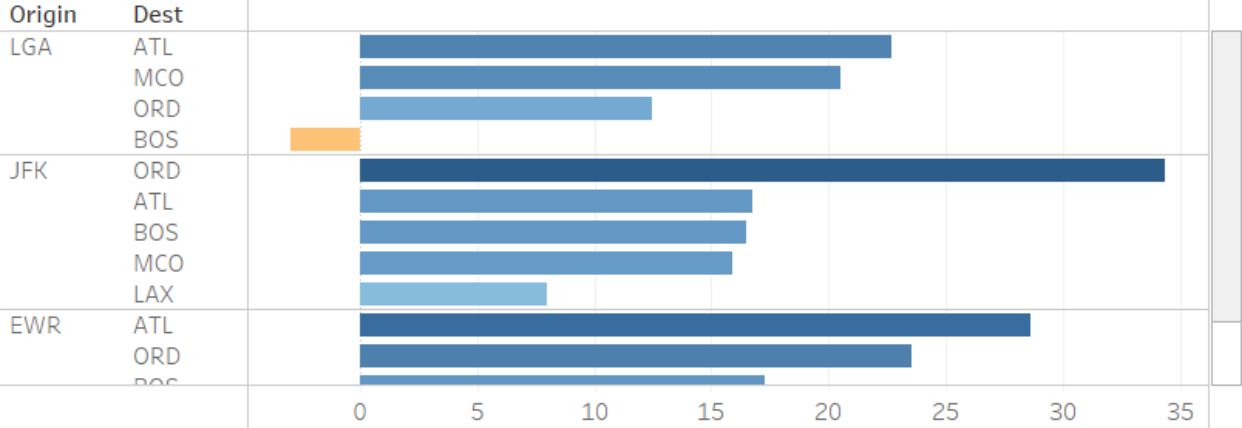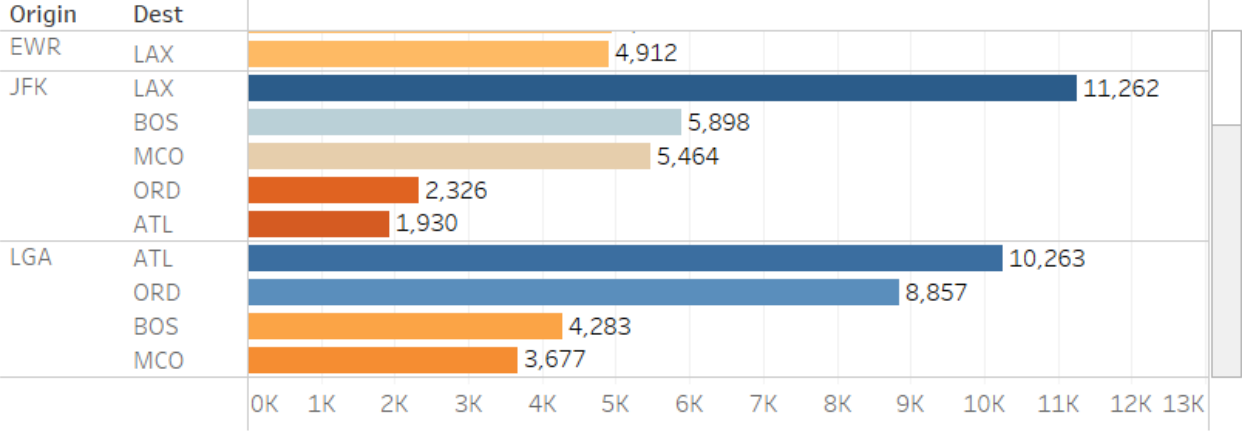
Origin	Dest
LGA	ATL
	MCO
	ORD
	BOS
JFK	ORD
	ATL
	BOS
	MCO
	LAX
EWR	ATL
	ORD
	BOS

(axis: 0, 5, 10, 15, 20, 25, 30, 35)

Most Popular Routes

Origin	Dest	
EWR	LAX	4,912
JFK	LAX	11,262
	BOS	5,898
	MCO	5,464
	ORD	2,326
	ATL	1,930
LGA	ATL	10,263
	ORD	8,857
	BOS	4,283
	MCO	3,677

(axis: 0K, 1K, 2K, 3K, 4K, 5K, 6K, 7K, 8K, 9K, 10K, 11K, 12K, 13K)

Story 2

LGA-BOS is 3rd most used route but with no delay.

Because only one Airline is used- US Airway Inc

Its not the airport that is causing the delay, its the Airlines.
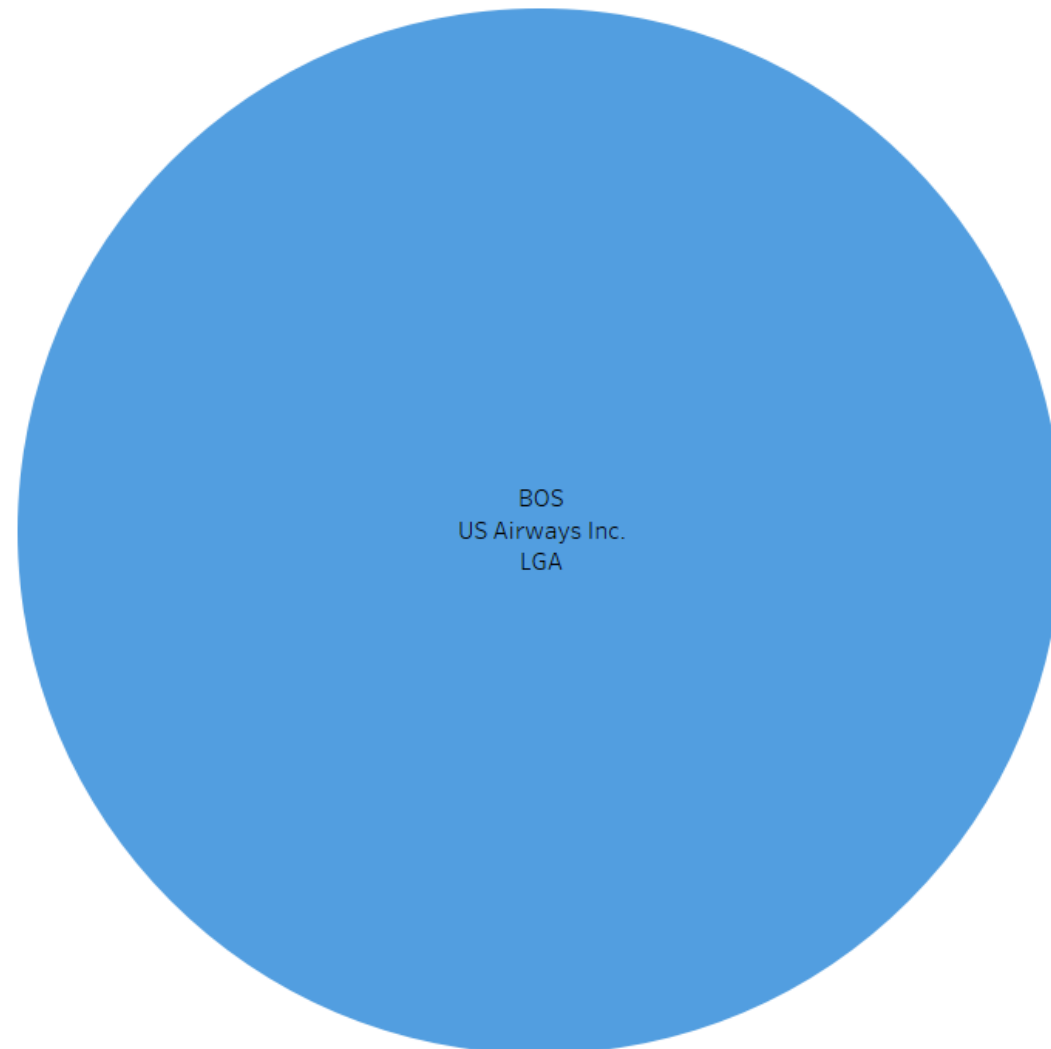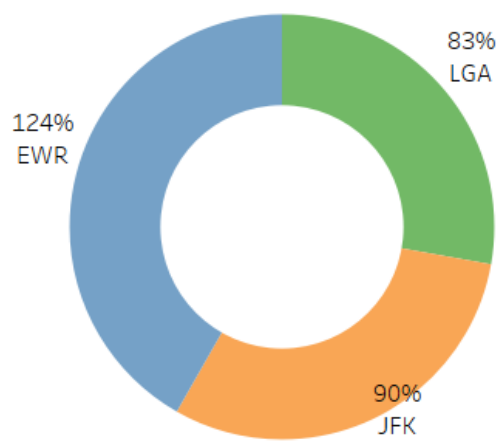
BOS
US Airways Inc.
LGA

Story 2

Airport delay donut chart

83% LGA
124% EWR
90% JFK

Airlines taken from LGA

Name

Airline	Value
United Air Lines Inc.	58,665
JetBlue Airways	
ExpressJet Airlines I..	54,173
Delta Air Lines Inc.	48,110
American Airlines Inc.	32,729
Envoy Air	26,397
US Airways Inc.	20,536
Endeavor Air Inc.	
Southwest Airlines C..	12,275
Virgin America	5,162
AirTran Airways Cor..	
Alaska Airlines Inc.	714
Frontier Airlines Inc.	

Airline route donut chart

-6% AirTran Airways Corporation LGA-MKE
208% AirTran Airways Corporation LGA-CAK
666% SkyWest Airlines Inc. EWR-DTW
53% Envoy Air JFK-TPA
156% Mesa Airlines Inc. LGA-CLT
87% Envoy Air LGA-RDU
159% ExpressJet Airlines Inc. LGA-CHO
192% ExpressJet Airlines Inc. EWR-SAV

Airlines delayed from LGA

Name

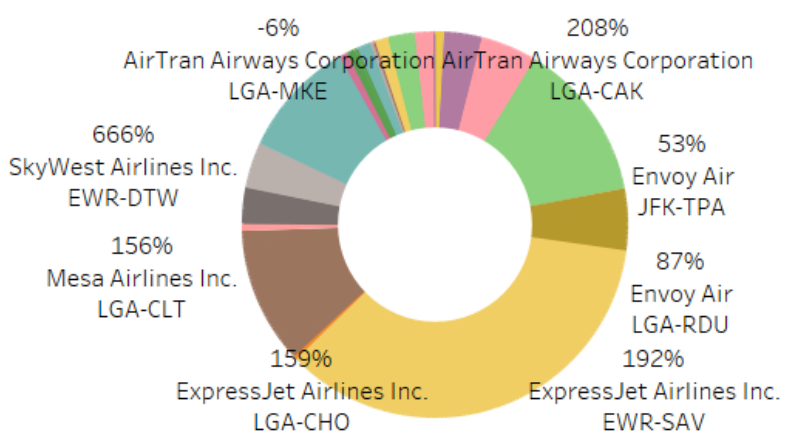| Airline	Value
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AirTran Airways Cor..	
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Mesa Airlines Inc.	
Southwest Airlines C..	27.31
SkyWest Airlines Inc.	
Endeavor Air Inc.	23.82
JetBlue Airways	
Envoy Air	21.22
United Air Lines Inc.	15.57
Virgin America	
Delta Air Lines Inc.	10.87
American Airlines Inc.	

Its not the airport that is causing the delay, its the Airlines.

Reasons for Delay: Mostly, Airlines are the culprits

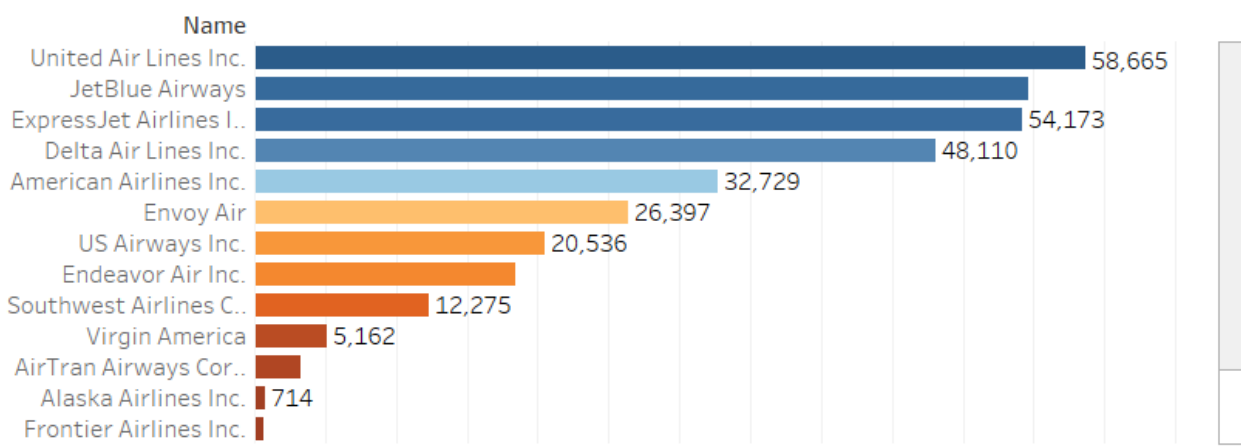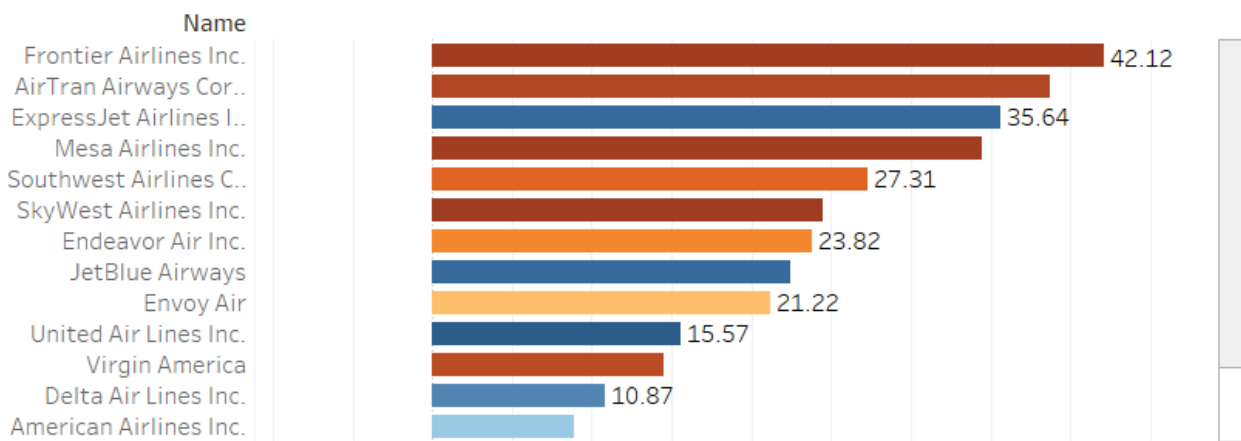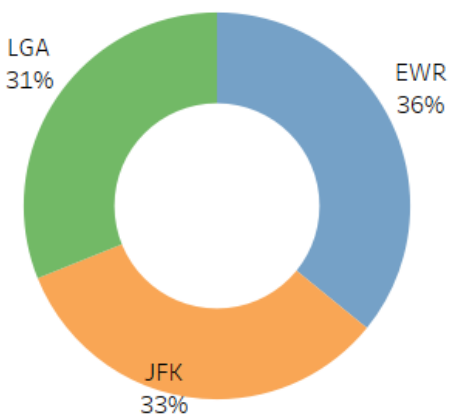Solution: Stop using those 5 airlines in LGA until they fix their performance. Air traffic management in EWR, reduce diversions. U...

Reasons for Delay:
1. Airline delays
2. Traffic delays
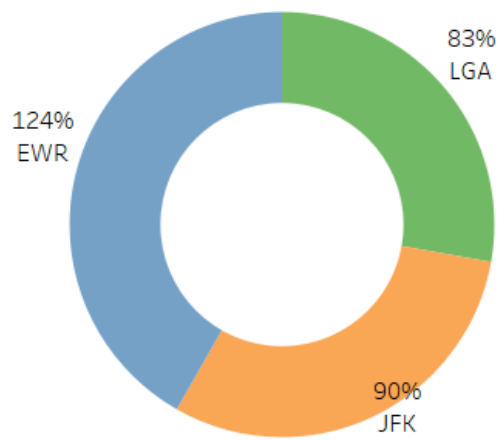## 3. Weather delays
4. Security delay

Story 2

Reasons for Delay: Mostly, Airlines are the culprits

Solution: Stop using those 5 airlines in LGA until they fix their performance. Air traffic management in EWR, reduce diversions. Use other Airlines who have zero avg delay.
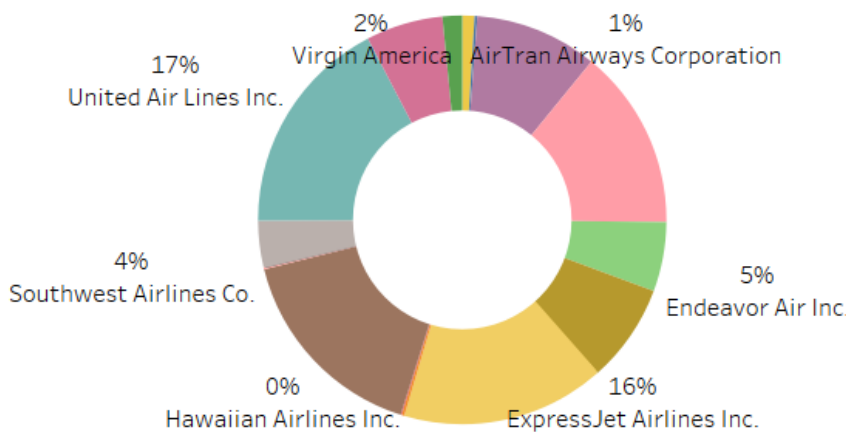
Donut for Airport count

LGA 31%
EWR 36%
JFK 33%

Donut for Airline count

2% Virgin America
1% AirTran Airways Corporation
17% United Air Lines Inc.
4% Southwest Airlines Co.
0% Hawaiian Airlines Inc.
5% Endeavor Air Inc.
16% ExpressJet Airlines Inc.

Airport delay donut chart

83% LGA
124% EWR
90% JFK

Airline delay donut chart

199% AirTran Airways Corporation
140% Southwest Airlines Co.
126% SkyWest Airlines Inc.
122% Endeavor Air Inc.
109% Envoy Air
177% Mesa Airlines Inc.
183% ExpressJet Airlines Inc.