

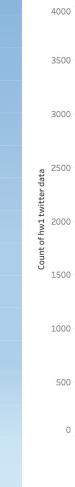
Charlotte Belke

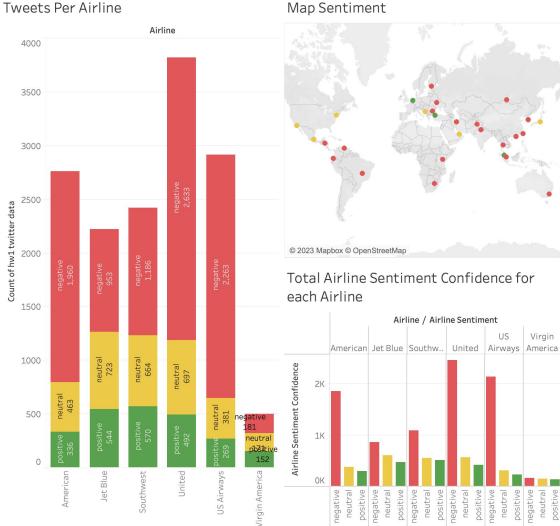
INSIGHT 1: SENTIMENT

when they are mad.

People tweet the most

Southwest has the best Sentiment in relation to its size.





Airline Sentiment

Count of Retweet Count

Airline sizes in 2015

Delta

Most Negative

Tweets

United

JetBlue

United **US Airways American**

Southwest Virgin **America**

American

Southwest

negative

neutral

positive

1,000

2,000 3,170

INSIGHT 1:

SENTIMENT

High Response to Negativity:

- United had the highest negative sentiment responses.
- Mainly related to customer service and late flights.

Negativity linked to:

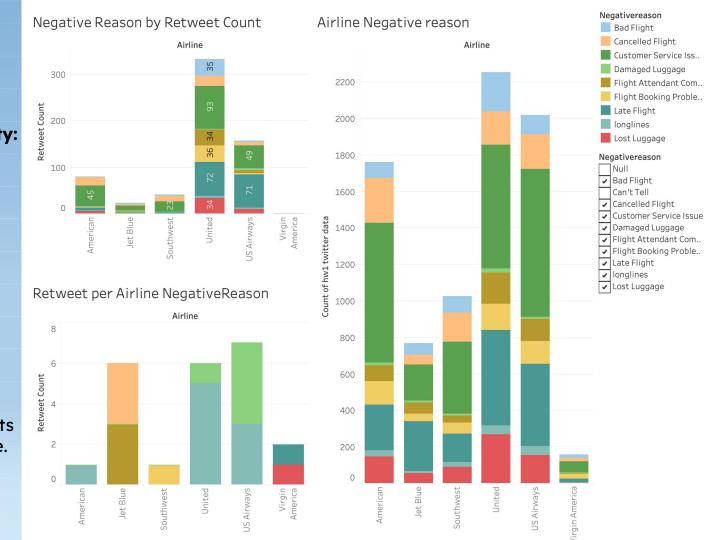
- 1. Customer service,
- 2. Late flights,
- 3. Lost luggage,
- 4. Cancellations, and
- 5. Bad flights.

Retweet Trends:

 Loneliness during flights and Damaged luggage.

JetBlue Challenges:

- Flight attendants
- Flight booking.

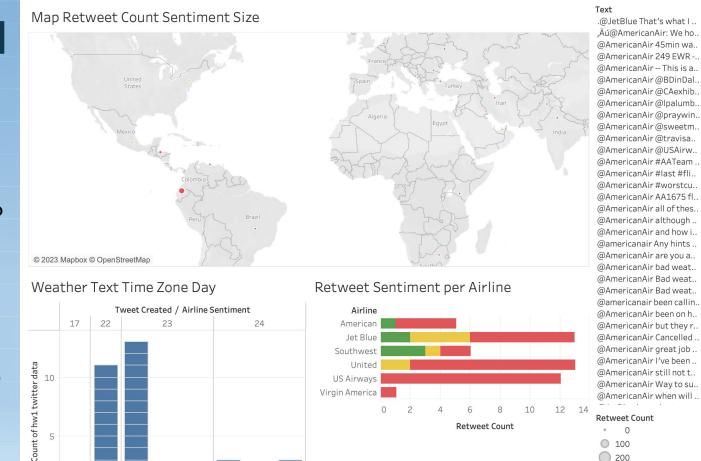


INSIGHT 3: STORM

Negative tweets and
Retweets regarding
canceled and delayed
flights can be attributed to
a storm February 22-23,

2015.

This storm was out of the Airline's control but people still felt like their were unjustly facing the consequences; especially by US Airways and United.



200

Airline Sentiment negative

neutral positive

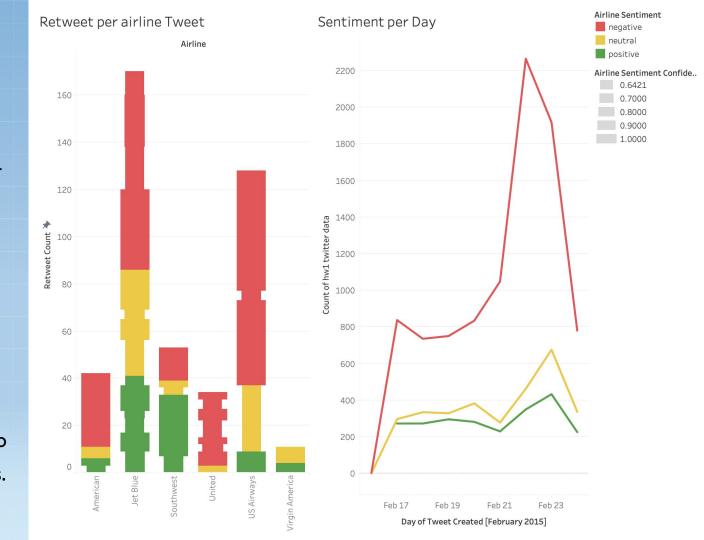
INSIGHT 2: JET BLUE/ DELTA DATA



INSIGHT 4: "ON FLEEK"

"Our fleet is on fleek" tweet by JetBlue enraged a lot of users on February 22nd, 2015.

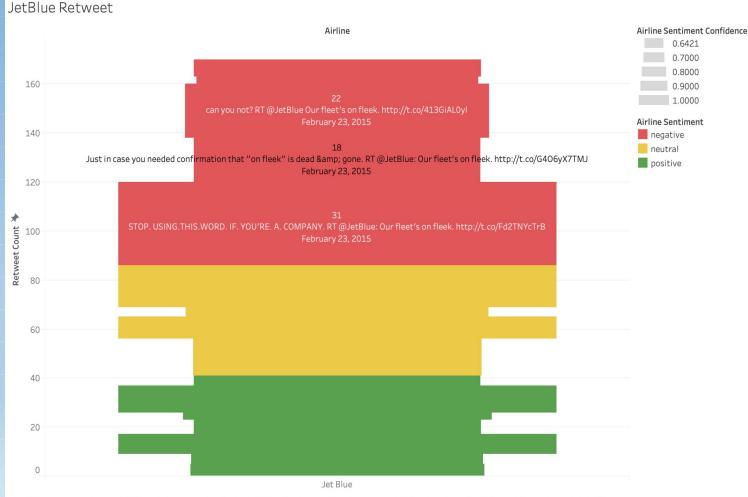
A spike in negative
Sentiment and agreeing
retweets toward the saying
shows how JetBlue needs to
watch their choice of words.



INSIGHT 4: "ON FLEEK"

A lot of people were in agreement with the negative sentiment received in response to JetBlue's "on fleek" tweet.

The width of the bars represent the confidence of the users sentiment.



Sum of Retweet Count for each Airline. Color shows details about Airline Sentiment. Size shows sum of Airline Sentiment Confidence. The marks are labeled by sum of Retweet Count, Text and Tweet Created Day. The data is filtered on Retweet Count, which ranges from 3 to 44. The view is filtered on Airline and Text. The Airline filter keeps Jet Blue. The Text filter keeps 14,409 of 14,409 members.

AMERICAN

Customer service issue complaints and retweets about loneliness of the flight.

JET BLUE

Experienced backlash for use of "on fleek" in a tweet. Was mistaken for Delta. Few complaints but retweets on flight attendant complaints and canceled flights.

SOUTHWEST

Few complaints About customer service complaints and retweets about flight booking problems.

EXECUTIVE SUMMARY

UNITED

Most tweets and negative sentiments. Very dispersed reasons for negative sentiment but most people agreed with Longliness.



US AIRWAYS

Most negative sentiment in relation to Total tweets. Most late flight and customer service issues tweets but most people retweeted longliness and damaged luggage.

VIRGIN AMERICA

Least # of tweets, almost no complaints but twitter users agreed with late flights and lost luggage negative reasons.

No Data on Delta as JetBlue data falsely assigned to Delta (Renamed original Delta Data to JetBlue)

Biggest Complaints were about Customer Service, Late Flight, Lost Luggage, and Canceled Flights.

Storm in East Coast/ Quinta
Time Zone that Caused a big
amount of the negative
reviews because of
uncontrollable delays and
cancellations.

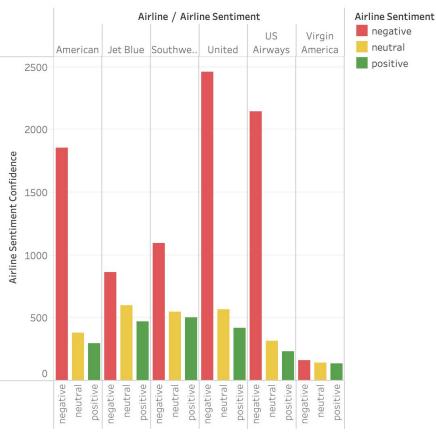




STEPS IN MY ANALYSIS PROCESS

- 1. Filter out any null or unknown data Using the tableau filter in each worksheet
- 2. Reassign the original Delta Data to JetBlue
- 3. Asking a question about each variable and exploring the data set visually in tableau starting with user sentiment and user confidence I wanted to figure out how Twitter posters felt negatively neutrally or positively for each Airline.
- 4. Then I wanted to figure out what people's reasons were for their negative sentiment.
- 5. Next I looked for any Trends or patterns in the data set and found the on fleek JetBlue Trend that upset a lot of people and cost a big number of negative posts and retweets of those posts.
- 6. Then, looking through the dates tweets were posted I found an anomaly on February 22nd 2015 and February 23rd of 2015 in the Eastern and Quinto time zones.
- 7. Looking at some of the most retweeted negative tweets I noticed a pattern of people being upset they missed their flights because of a storm.
- 8. I then filtered the text for storm related words like storm weather rain and found that there was a storm and that most of the negative comments and even some of the positive ones were storm related across the board of Airlines which is why I have the maps to show in various graphs to support the storm Theory as I was exploring it.

Total Airline Sentiment Confidence for each Airline

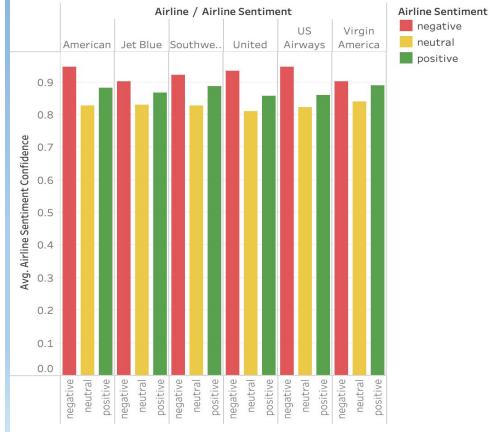


Sum of Airline Sentiment Confidence for each Airline Sentiment broken down by Airline. Color shows details about Airline Sentiment. The view is filtered on Airline, which excludes Delta.

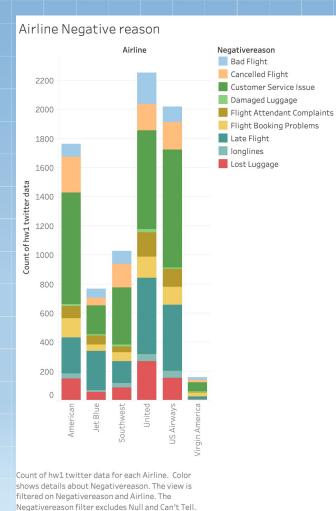
Average Airline Sentiment Confidence for each Airline

neutral

positive

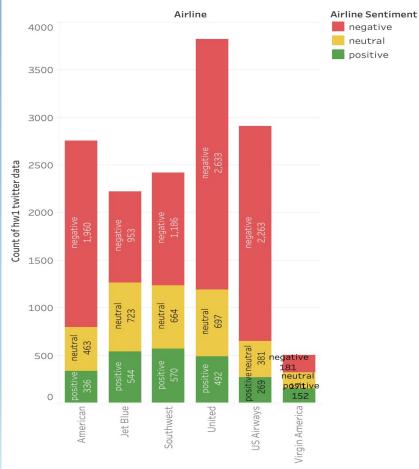


Average of Airline Sentiment Confidence for each Airline Sentiment broken down by Airline. Color shows details about Airline Sentiment. The view is filtered on Airline, which excludes Delta.



The Airline filter excludes Delta.

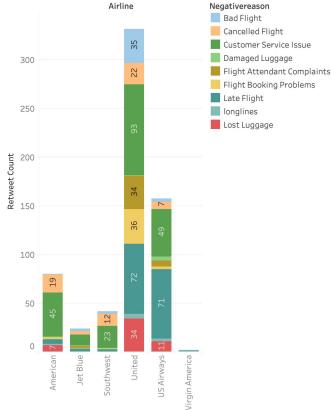
Tweets Per Airline



neutral

Count of hw1 twitter data for each Airline. Color shows details about Airline Sentiment. The marks are labeled by Airline Sentiment and count of hw1 twitter data. The view is filtered on Airline, which excludes Delta.

Negative Reason by Retweet Count

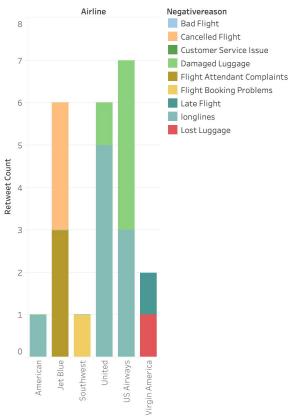


Sum of Retweet Count for each Airline. Color shows details about Negativereason. The marks are labeled by sum of Retweet Count. The view is filtered on Negativereason and Airline. The Negativereason

filter excludes Null and Can't Tell. The Airline filter

excludes Delta.

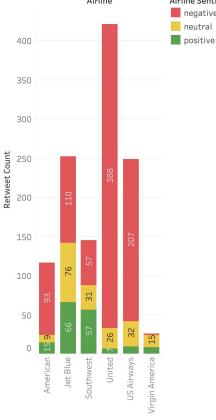
Retweet per Airline NegativeReason Airline



Sum of Retweet Count for each Airline. Color shows details about Negativereason. The data is filtered on count of Retweet Count, which ranges from 5 to 61. The view is filtered on Negativereason, which excludes Null and Can't Tell.

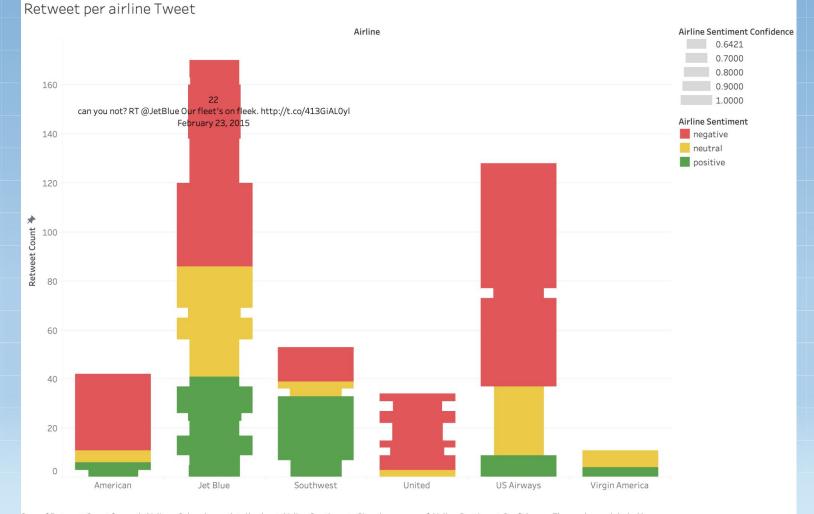


Retweet per airline



Sum of Retweet Count for each Airline. Color shows details about Airline Sentiment. The marks are labeled by sum of Retweet Count. The data is filtered on

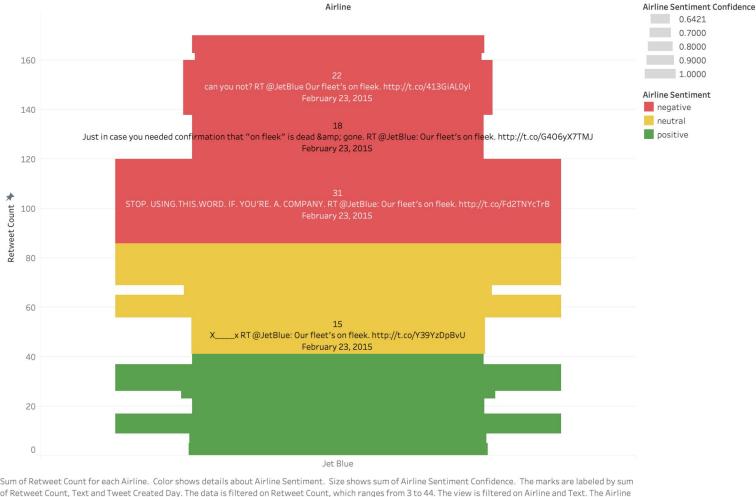
Retweet Count, which ranges from 1 to 44.



Sum of Retweet Count for each Airline. Color shows details about Airline Sentiment. Size shows sum of Airline Sentiment Confidence. The marks are labeled by sum of Retweet Count, Text and Tweet Created Day. The data is filtered on Retweet Count, which ranges from 3 to 44.

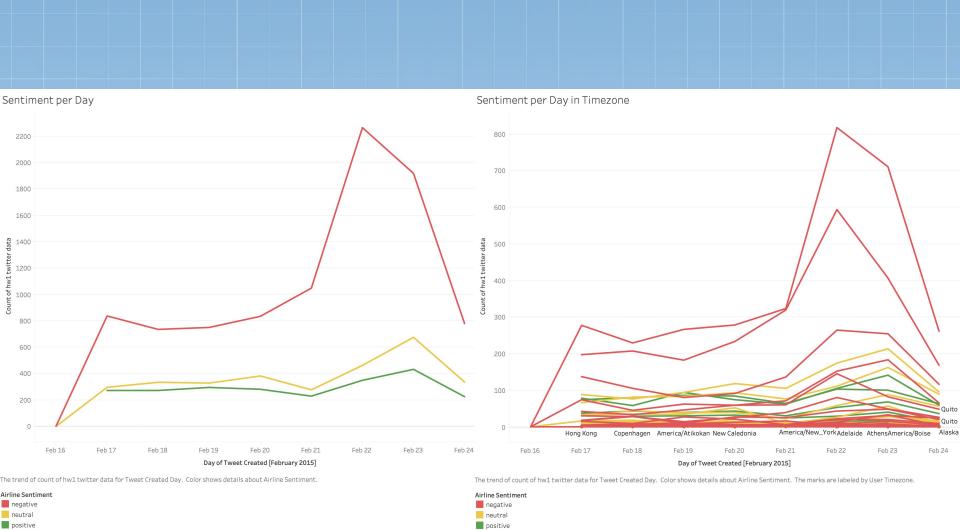
JetBlue Retweet

filter keeps Jet Blue. The Text filter keeps 14,409 of 14,409 members.

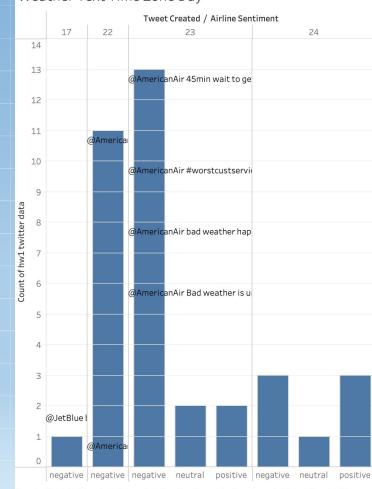




Map based on Longitude (generated) and Latitude (generated). Color shows details about Airline Sentiment. Size shows count of Retweet Count. Details are shown for User Timezone.

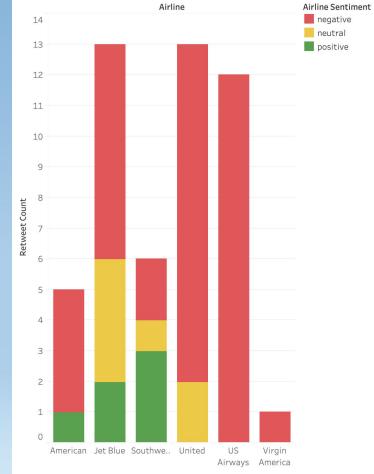


Weather Text Time Zone Day



Count of hw1 twitter data for each Airline Sentiment broken down by Tweet Created Day. The marks are labeled by Text, Tweet Created Day and User Timezone. The view is filtered on Text, which keeps 34 of 14,409 members.

Retweet Sentiment per Airline



Sum of Retweet Count for each Airline. Color shows details about Airline Sentiment. The marks are labeled by Text and Tweet Created Day. The data is filtered on User Timezone, which keeps Quito.



Map based on Longitude (generated) and Latitude (generated). Color shows details about Airline Sentiment. Size shows sum of Retweet Count. Details are shown for User Timezone.