

Title: Six New Metrics Visualized (Task 3)

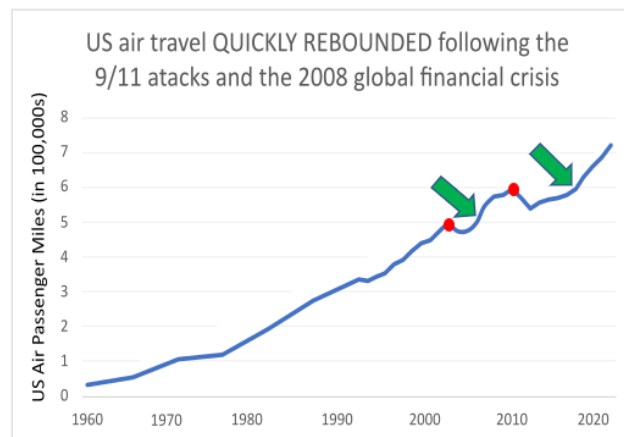
Name: Jolene Branch

Course: DSC640

Date: February 7, 2021

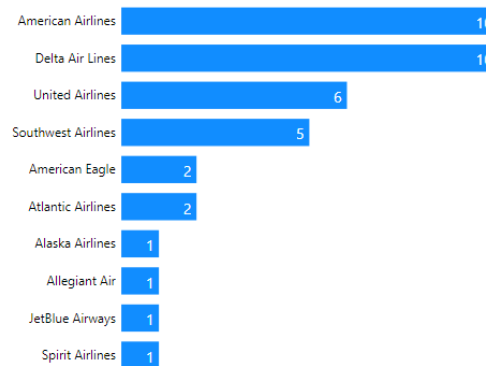
Description: Six new metrics, with design methodology defended/justified, sources, link to blog post and Github repository

I wanted to make the upward segments right after the red dots green in color (to signify a gain) but was not able to figure out how to do it in Inkscape. When I did it in Excel, the dates would not justify with the number of miles when I put the x axis at 10-year intervals. So even though this chart has a typo, I have to live with it because it visualizes the data the best and I cannot seem to re-create it.



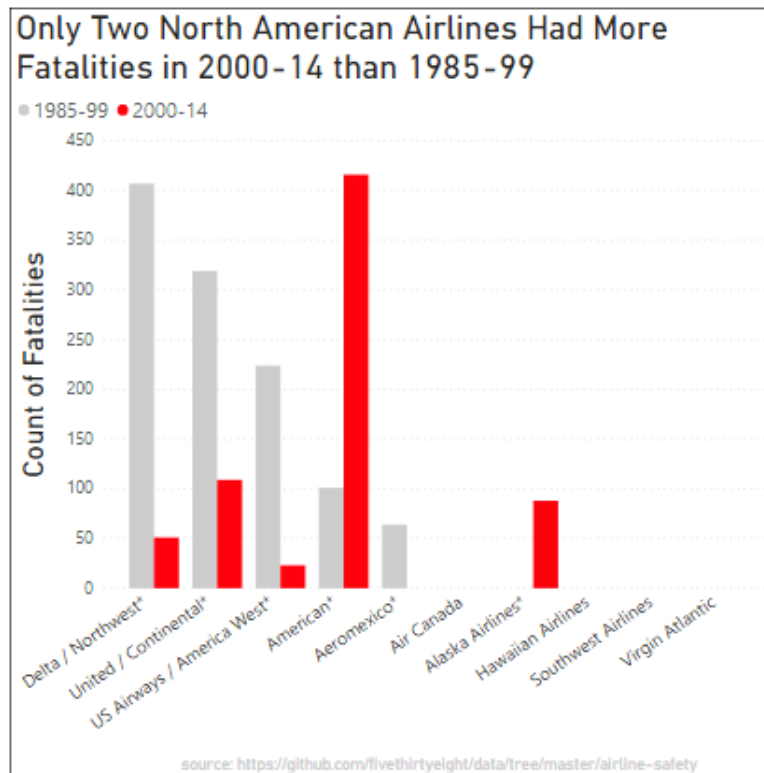
The original version of this horizontal bar chart had some of the data labels inside the bars and some outside, with white text inside and black text outside. I corrected that and added the source to the chart.

Incidents Reported to ASN 2001-2018

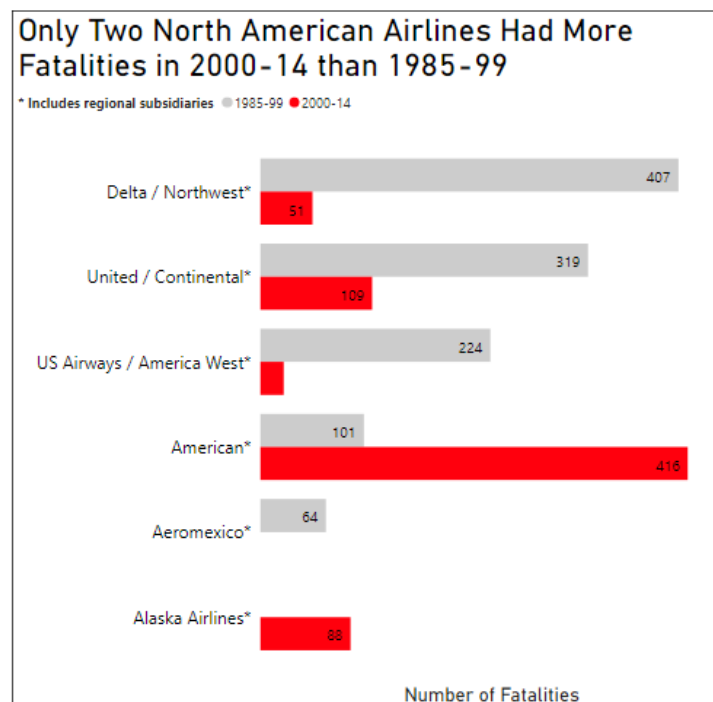


source: <https://aviation-safety-net/database>

My original chart had a couple things that needed correcting, including forced truncation of airline names and no explanation for the *'s.

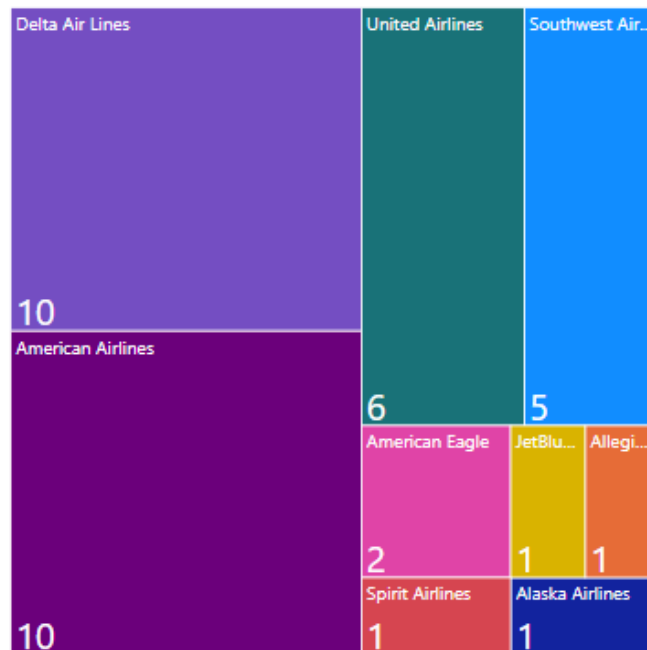


After fixing the obvious gaffes, I decided to try it as a horizontal bar chart. I also omitted the 'zero event' airlines. I like the looks of the horizontal chart for this data:

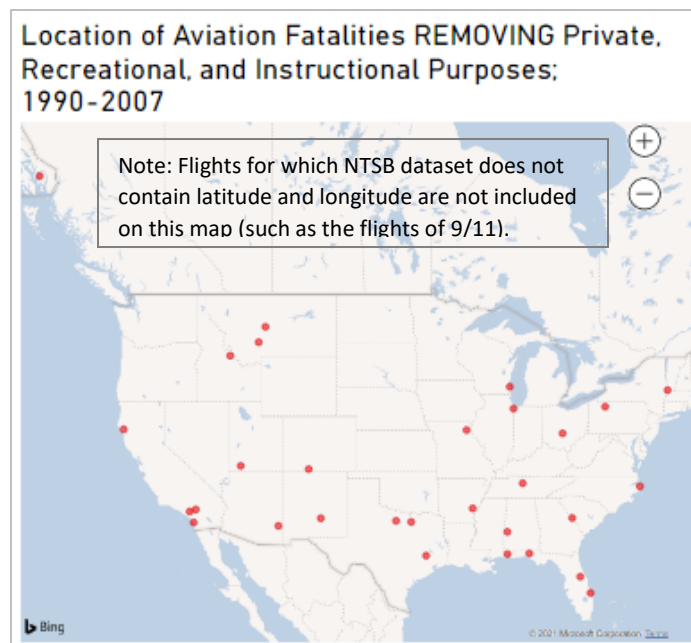


For the tree chart, I will have to put the title on the PowerPoint slide. I did not like how it forced the numbers in the rectangles to be smaller. Also add source:

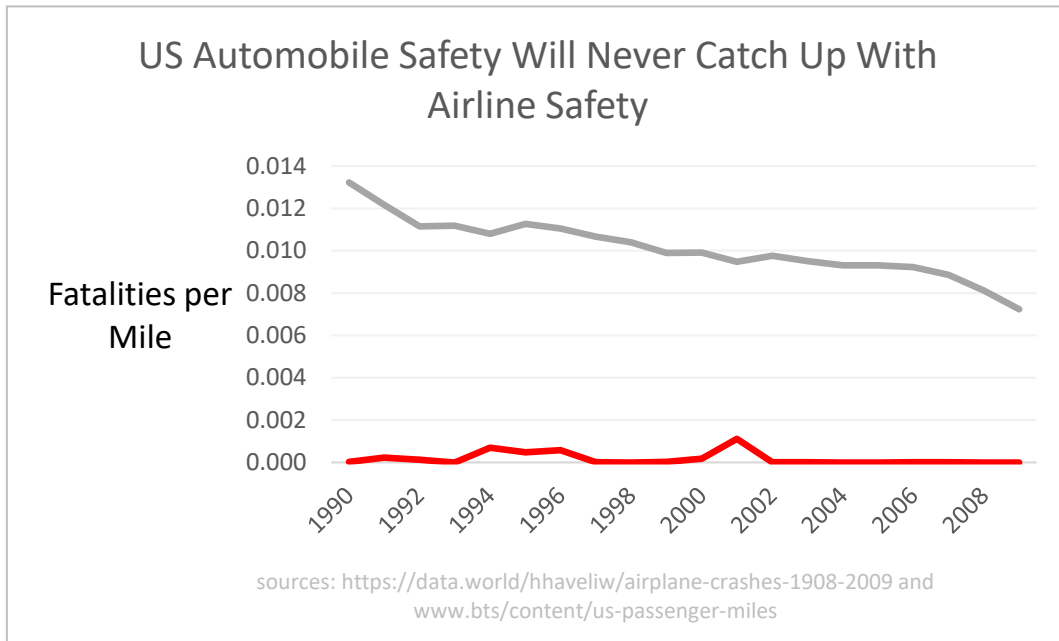
US Airline Fatal Incidents 2001-2018



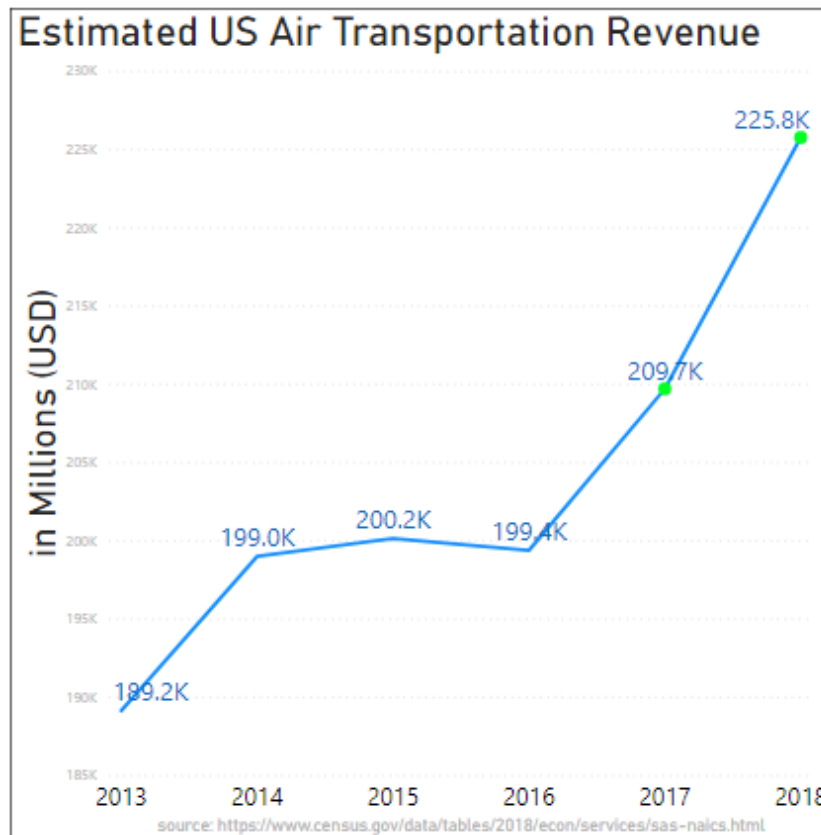
This is a subset of data from my original chart, which seemed to emphasize East Coast deaths, of which many listed were due to things like cliff gliding and airplane-assisted bungee jumping. (I made that one up).



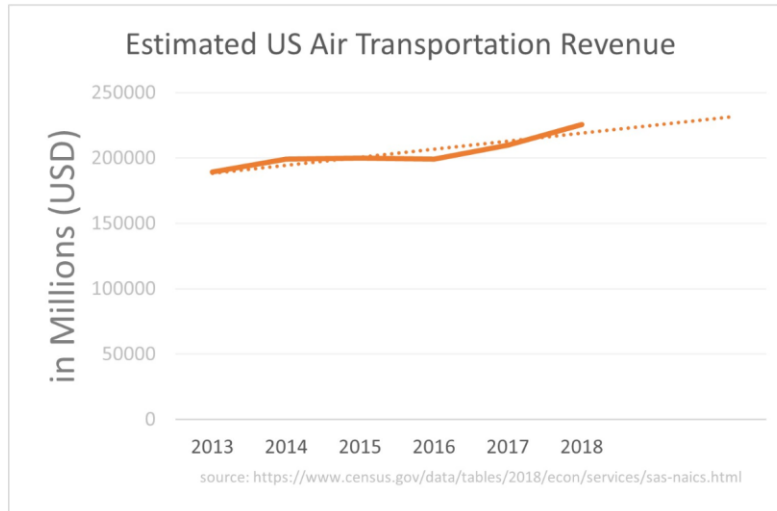
Sometimes I get tired of trying to read vertical text. I did not include this in the blog post, but I do find it easier to read. The problem, I think, is that it emphasizes the y axis title over the data itself.



I made a couple simple changes to a simple chart. Spell out 'estimated.' Add green dots to what appears to be astronomical growth points.



I realized that the estimated revenue chart above was misleading due to the narrow range of the y axis. When I changed the starting point to zero, the chart loses emphasis, but gains credibility:



I also added a projection line.

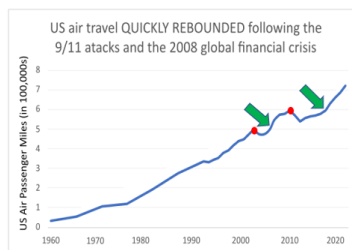
Blog post location:

<https://consultationbybranch.blogspot.com/2021/02/overcoming-media-induced-fear-to-put.html>

Github: <https://github.com/jobbranch2019/DSC640> Airline Safety

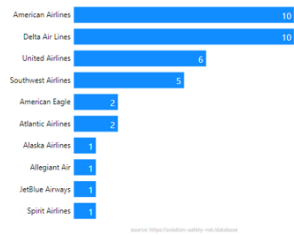
References:

Deane, S. (2020, September 29). *Fear of Flying Statistics (2020 Data)*. Stratos Jet Charters, Inc. <https://www.stratosjets.com/blog/fear-of-flying-statistics-trends-facts/>.



<https://www.bts.gov/content/us-passenger-miles>

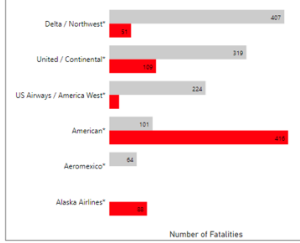
Incidents Reported to ASN 2001-2018



<https://www.aviation-safety.net/database>

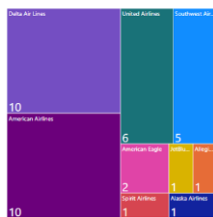
Only Two North American Airlines Had More Fatalities in 2000-14 than 1985-99

*Includes regional subsidiaries **1985-99 ***2000-14



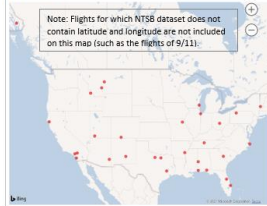
[data/airline-safety at master · fivethirtyeight/data · GitHub](https://github.com/fivethirtyeight/data/blob/master/airline-safety)

US Airline Fatal Incidents 2001-2018

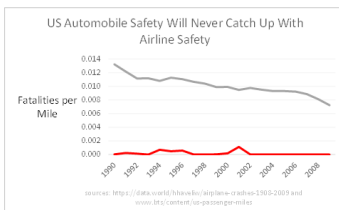


<https://www.aviation-safety.net/database>

Location of Aviation Fatalities REMOVING Private, Recreational and Instructional Purposes: 1990-2007

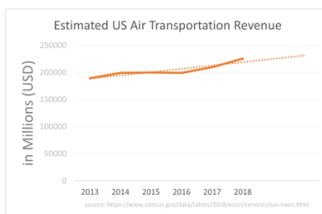


https://www.nts.gov/_layouts/nts.aviation/index.aspx



<https://data.world/haveliw/airplane-crashes-1908-2009>

and www.bts.gov/content/us-passenger-miles



<https://www.census.gov/data/tables/2018/econ/services/sas-naics.html>