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# PROCESS BOOK

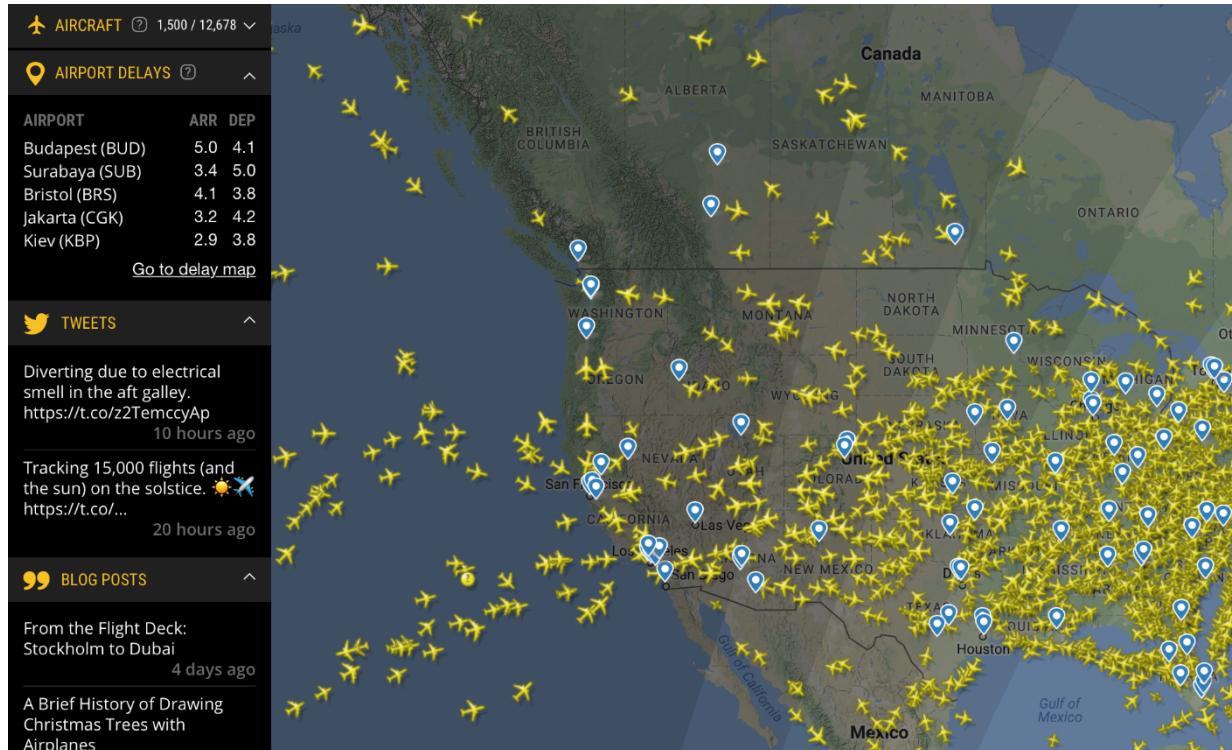
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Data visualization – fall 2017

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# Overview, motivation and target audience

Try to google "Flight tracker" on the internet, you will see a bunch of website with several features. As an amateur, the visualization could be painful. On the one hand, we have beautiful visualization, but on the other hand there is practical visualization. An example below from the website <https://www.flightradar24.com/>.



Most of them are identical, information is not easily accessible and readable. An obstacle course begins to understand, filter then select needed information. We could not criticize these platforms because they are targeting aviation enthusiasts.

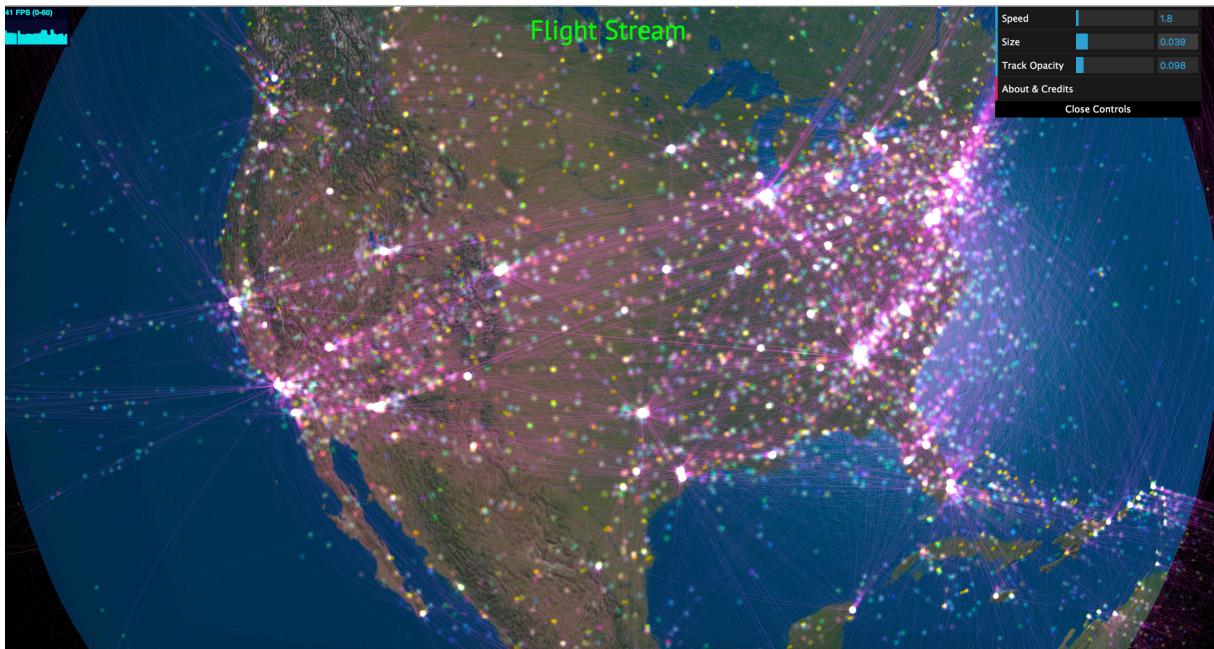
In this project, we are willing to offer an accessible visualization of flights and airports. As a group of amateur, the idea is to quickly explain some facts associated with data visualizations.

The target audience is not only aviation amateur, it will be a platform where we first tell a story with data visualization. Therefore, all the curious greedy to learn some facts about aviation in general are also welcome.

# Related work and inspiration

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Our goal is to combine comfort and convenience. The first related work was seen in on the #help channel in slack:

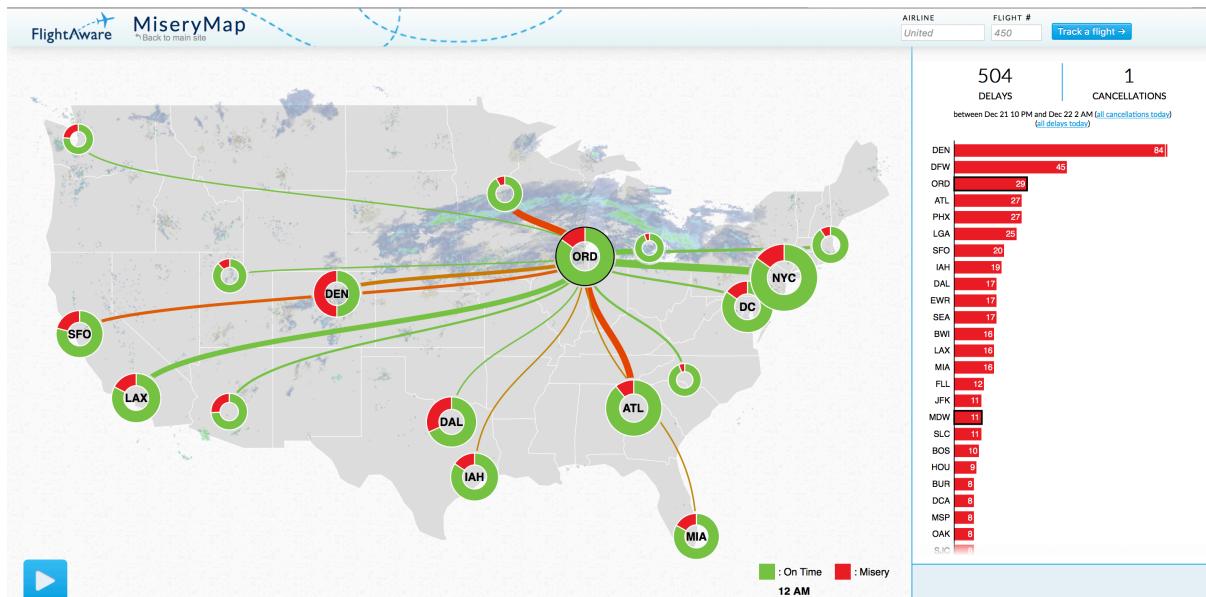


Source: [callumprentice](#)

What we liked about this visualization is that the user has an interface in order to control the flight traffic (speed, size). That is beautiful and enjoyable but not very useful. There is no legend or other information except several dots moving. We can easily understand that they represent an airplane nevertheless we don't have any information on their routes.

This map is convenient to have an overview on the flight traffic but in order to find the weather or the current traffic airport it is pointless. We can face it by reducing the number of interactions. Lower the number of airports, combine different visualization tools to save space.

A second inspiration source shows the delays across major US airports:



Source: [FlightAware](#)

This visualization has less feature but guarantee a good understanding. Airports are represented by a dot with his code and a gauge showing the delays average. User can select an airport by clicking on it, then some continuous weighted lines representing an air road are displaying.

What we like here is the intuitive experience. No legends or numbers, this visualization explain itself.

Questions: What am I trying to show this my viz.?

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Dataset: where does it come from, what are you processing steps?

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