

D3 Lab - Week 1

Instructions

Watch the [D3-PART1 - INTRODUCTION](#) playlist on the [Media Gallery](#)

Airlines Routes

Through this course we will develop a full linked view visualization that will allow our users to explore where in the world the top 20 airlines with most routes operate. In each assignment we will build a step towards this final solution. Therefore it is important that you keep your solutions for each step, as the solution for the current week will be the starter point to the next week.

Dataset

Our dataset is a CSV file containing 23041 lines, where each line represents one airplane route. Each route contains information from the airport of origin, destination and airline. Bellow we have an example of a route.

Field	Value
ID	1
AirlineID	24
AirlineName	American Airlines
SourceAirportID	4355
SourceAirport	Lehigh Valley International Airport
SourceLatitude	40.65209961
SourceLongitude	-75.44080353
DestAirportID	3876
DestAirport	Charlotte Douglas International Airport
DestLatitude	35.2140007
DestLongitude	-80.94309998

The dataset file can be download [here](#), although it is not required for this assignment.

Questions

Our goal is to use this dataset to answer questions like:

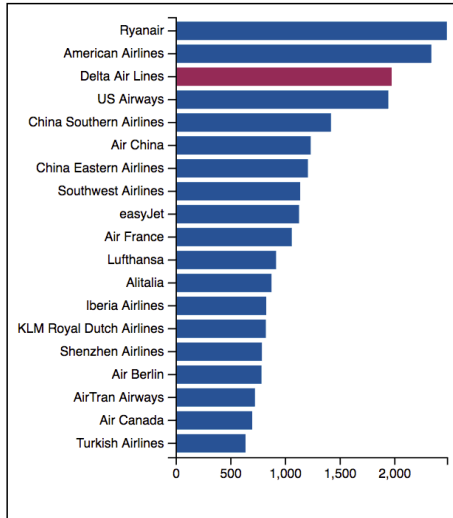
1. What are the airlines with more routes, and how the distribution looks like. Are there airlines with many more routes than others?
2. In which regions of the world are most of the airports these airlines operate?
3. Does a given airline operate in a regional or intercontinental scale?

Final Solution

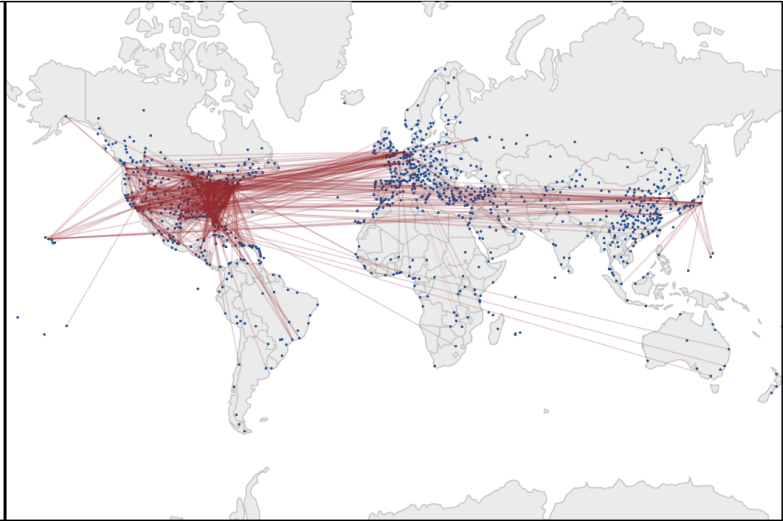
To answer these and other questions, we will build an interactive system that allows users to explore this dataset, below is a screenshot of how the system should look by the last assignment of this course.

Airlines Routes

Airlines



Airports



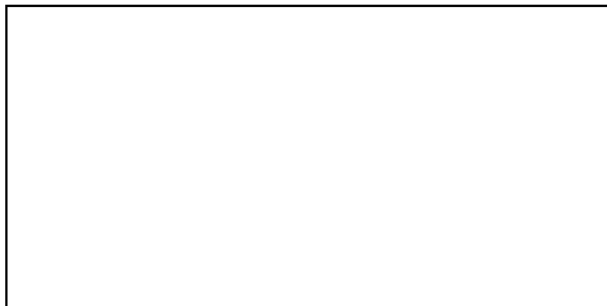
This Assignment's Goal

Watch the videos on the [D3 Week 1 playlist](#), they will provide the base you need to complete this assignment.

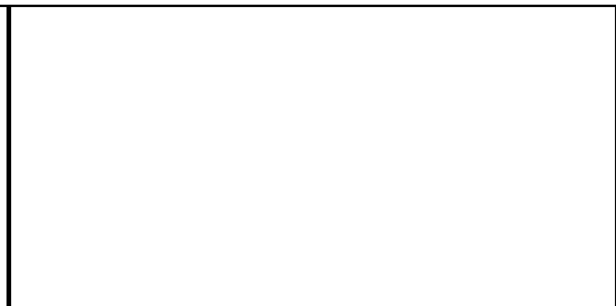
In this assignment, we will create the basis for this system using HTML and CSS. The final result for this submission should look like the image below.

Airlines Routes

Airlines



Airports



Note that what we are doing is to create the regions where we will later add our visualizations.

Assignment

Download the file below named index.html (you may have to right click it and select "save link as"), and complete the code, such that the result looks like the image above. The file already contains part of the code, and your goal is to edit only the places where there are comments that start with the keyword "TODO".

Download the file: [index.html](#)

****Please KEEP THE OTHER PARTS OF THE CODE UNCHANGED, and do not change names of functions, CSS classes or element IDs, that will simplify the grading as well as answering doubts and providing feedback.***

For this assignment you will change the CSS section of the code, to update the look and feel of the page.

For example, this is the TODO 1, that starts in line 9 of the file:

```
h1 {  
    background-color: #2a5599;  
    /* TODO 1  
    change the text to white and add a padding of 5px  
    2 lines of code  
    */  
}
```

For this TODO, Your goal is to add 2 lines of code, one should change the color of the text of all H1 tags to white, and the second one should add a padding, i.e. a margin between the text and the border of the H1, of 5 pixels.

*The *routes.csv* file provided above is just for reference, this file won't be needed to complete this week's assignment

Submission

Once you are ready to submit, submit your updated version of the index.html file. Also, save the file to be used in future weeks' assignments. You don't have to submit any other file. Make sure that you only modify this file, and that all your code is contained in it.