

# Instruction of the website of China's Airports Network and Passengers' Volume

## Website Address

The address of this website is:

<https://xudong-zh.github.io/China's%20Airports%20Network%20and%20Passengers'%20Volume.html>

All elements (website code, data, photo and logo) used in website could be found at:

<https://github.com/xudong-zh/xudong-zh.github.io>

## Aim of Building this Website

The website tries to show how China's airports connected in 2014. This work could be used for detecting the complex structure of the airline network in the future. It could also be beneficial for researchers to understand the hierarchy of the China city network from the perspective of transport connectivity.

## Design and Technical Approach

This website's content could be regarded as three parts of analyses: map of airlines among China's cities, annual passengers' volume of top 15 airports, and the competition of passenger number's growth among top 15 airports. The map used *folium map* to visualize the distribution of airlines. The degree of each airport and some airports' annual growth rate graphs were added in the markers. The line chart of passengers' volume was made by using the tool from the *D3 library*, and the central part of the code was from group mini project week four practical (CASA0003 4.2 Interactive Charts Practical 202021). The bar chart race graph mainly used the technical from *flourish*, and the interface of this graph, such as layout, font size and colour scheme, was done on this platform. All of these analyses were integrated into this website by using a bracket. What is more, this website's overall page could be categorized into three parts: cover photo, analysis part, and the announcement of copyright.

## Data

The world airline dataset (2014) was collected from [openflights.org/data](https://openflights.org/data). To visualize the distribution of China's airlines, the China part of the data was extracted from the whole dataset. This airline dataset mainly contains six columns: IATA number, source and destination airport's name, cities that airports belong to, longitude and latitude of all airports.

The annual passengers' volume of the top 15 airports (2001-2019) was collected from the website of the Civil Aviation Administration of China.

## Copyrights of Elements Used in this Website

### Cover's photo

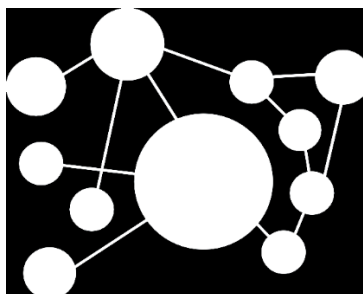


This element was downloaded from

[https://wallpaperscraft.com/download/airplane\\_buildings\\_skyscrapers\\_sky\\_120051/3840x2160](https://wallpaperscraft.com/download/airplane_buildings_skyscrapers_sky_120051/3840x2160)

And the size of image was edited to fit this website.

### Logo



The logo was collected and edited from

<https://docplayer.es/161049702-Cripto-moneda-una-perspectiva-de-la-uif.html> (page 12)