Invisible Cities: Hong Kong K-12 Schools Digital Visualization

This visualization project is based on an interactive map, the aim of this project is showing the positions and the real time traffic information of different kinds K-12 schools in Hong Kong City. Dataset of schools was downloaded from data.gov.hk and the link was added in the subtitle of the map, the real time information was added by Gaode Map API. In this project, the data of position showed on map was supported by echart.js, which is an open source Javascript library. The map was from Gaode Map (Amap). In order to show the data processed by echart.js on Gaode Map, the extension Echart-Amap.js was also downloaded from github. The size of dataset is large, so the JSON file was downloaded. The web map gains this file by using jQuery. However, chrome does not support Cross Origin Request of local file, so please open this project by firefox (which may showed points correctly), or open it through my Github pages: <http://zszdata.com/DigitalViz/gaode/Ass_InvisibleCity.html> , which could be opened by any browser (And please refresh browser several times if the layout is not suitable at beginning).

In order to show the information of different kinds of schools and traffic more clearly, several option buttons were set. User could click ‘Show/Hide Traffic’ button to open and close the real time traffic information. To compare positions of two or more kinds of schools, user could click legend button to open or close a kind of schools’ point and different kinds of schools were set by different size. Moreover, user could change the map style to show points more clearly, and the animation of moving points was also added to give user a better visual experience, it is better to close one or two color or points to observe the detail. Different kinds of school points were set in different layers, which means smaller points (lower grade schools) will be showed on the larger points, because some secondary schools also have a primary school department. Also, user could see the name detail by moving cursor to hover.