Hi, I am xxh. The project of our team is about U.S. border crossing entry visualization. Our pre will include this four parts:Background and Data、Design goals、Visualization design、Contributions and Conclusion.

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In recent years, research has shown that imported goods can have multiple effects on a country. For example, food import generally improve nutritional, health and it will affect the economy. Therefore, research on import particularly important. In this project, we combined the characteristics and types of data to design a complete and comprehensive visualization project. The inner relationship of data in the United States can be displayed intuitively.

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The Border Crossing Entry data set we used is from Kaggle.com [3].it takes 35M of memory size and contains 300000 listing data samples, which spans from 1996 to 2019. These columns in the data set including Port Name, State, Border, Measures, Value, etc.

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The second part is the task and design Rationale of our project.

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From a lot of research on import trade, we find that the main concerns are as follows:

T1: For a given state, where are the goods imported from? By studying the continents and the ports from which the cargo originates, we can grasp the distribution of ports connecting to a certain continent.

We need to show the relationship between A and b intuitively.

T2: How total value of imported goods changed by state over time. The second task of this project is to visually show the changes in the value of imported goods on different continents, includes the geographical location and the comparison between different states, etc.

we need to show the relationship between A and b in a suitable way.

T3: How are imported goods imported? What percentage of each method? Visually showing the import methods and proportion of imported goods by each methods is also a very meaningful design for this project.

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Simply displaying statistical graphs is not enough. Our system needs to interact with the user and display different information according to the user's choice.

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