*1.Title:*

《Social Trends of China**》**

*2.Group Members:*

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| Name | Student ID |
| Jiang Xinhou | 3035347990 |
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| Yu Qingtian | 3035348918 |
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*3. Project objectives:*

1) Display various aspects (agriculture, industry, tourism and transportation etc.) of China over the past decade to look back the changes of the whole society vividly.

2) Design proper visualization diagrams and interaction ways to show the data and its interconnections effectively.

3) Analyze the relations of these aspects and the overall trend of them to draw valuable conclusions.

*4. Source and background of the data:*

Data source link: <http://data.stats.gov.cn/>

The data, specifically the agriculture/industry/environment/tourism/transportation data in the past ten years, is selected from <http://data.stats.gov.cn/> and it focus on the annual data module. This project selects some topics such as production of vegetables and fruits, GDP, victors flow, industrial distribution and amount of harbors from 2005 to 2014 for visualization and analysis.

*5.Questions about the data:*

N/A.

*6.Tasks:*

1. Search some typical data of the selected topics in China and filter it for visualization.

2. Visualize the selected data of four aspects including tourism, industry, agriculture and transportation in China from different perspectives and apply various effective visualization skills and principles.

3. Select and design corresponding visualization diagrams to get an insight into the data precisely and directly.

4. Show the trend of these aspects in the past 10 years and try to dig out more potential and valuable information or conclusions from different view with various methods.

*7.Visualization tools and approaches:*

1) Use Tableau to display some fundamental data.

2) Program with D3.js to show some data that have some special design need for flexibility, which can not be accomplished with some visualization software.

3) Other visualization tools may also be applied according to the requirement.

8. Labor division:

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| Name | Task |
| (Common Task) | i). Search data from various sources and select a visualization topic.  ii). Data filter and processing.  iii). Overall trend analysis and potential information exploration. |
| Jiang Xinhou | i). Analyze and visualize the data of tourism in china in the past ten years, the data mainly include the development of Chinese tourism(international and domestic)，tourists’ age/gender/nationality and tourism exchange revenue.  ii). D3.js learning and relevant design. The visualization process of this part will be finished mainly by programming with D3.js.  iii). After visualization, analyze the connection between tourism and other aspects like agriculture, environment, population, peoples’ income etc.  iv). Also compare the data among different regions in China. Apply multi-dimensional comparison method. |
| Yang Yonggui | i). Visualize the data of agriculture in China in the past ten years. The data includes rural population, gross value of agricultural output, rural practitioners etc.  ii). Try to find the way in which the different aspects of agriculture influence the agriculture economy.  iii). Compare agriculture to other aspects like tourism, environment, population and people’s income etc. Find the connections between those and how it influence the Chinese economy. |
| Yu Qingtian | i). Display the amount and profits of State - owned industrial enterprises, private industrial enterprise and Foreign - invested industrial enterprises.  ii). Show the Regional distribution of industrial enterprises of China.  iii). Analyze the relationship between industrial development and environmental and energy. |
| Wang Kaili | i). Display the amount of the berth length, the number of berth in some major coastal ports and inland ports in the past 10 years.  ii). Show the trend of the change in amounts.  iii). After visualization, analyze the relationship with other aspects of China ,such as agriculture ,industry, tourism. |