

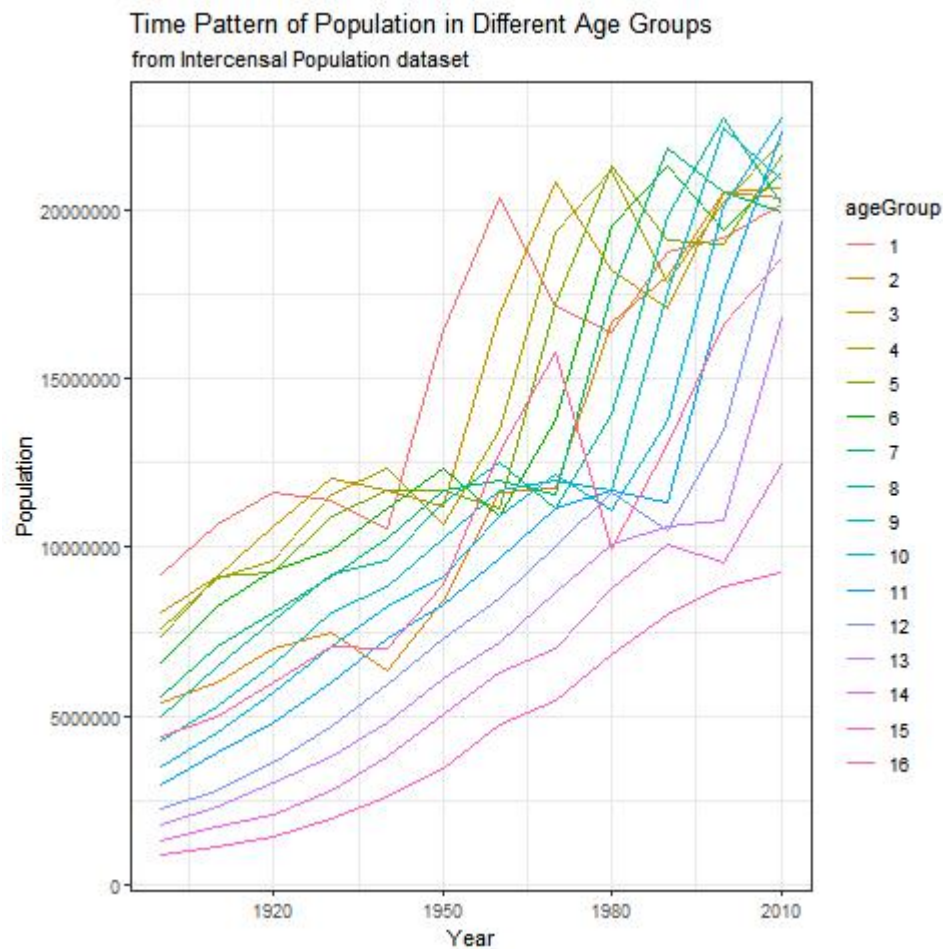
- Task 1

Re-state your question clearly and state why you think it can be answered visually.

Question: Figure out the differences and similarities among time patterns of different age groups.

Reason: The final dataset contains all the population data of different age groups from 1900 to 2010. We can create the multiple-line plots of different age groups in a single visualization using ggplot2. From the fluctuation of different lines we can see the differences and similarities.

- Task 3



- Task 4

In part 1, what interested me most is the time pattern of the population dataset.

In order to see the time pattern directly, I chose to use the line plot, which is a basic but efficient way of visualization.

In part 2, I wanted to explore more about the time pattern. So I decided to explore the differences and similarities among time patterns of different age groups.

Since in part 1 I used the line plot, I would like to use the multiple-line plot for part 2.

From the final visualization, we can see that there is a delayed max-point for age group 1-11 from 1960-2010. That shows the relevance between the age groups of different time.