

Comparing Labor Statistics between Men and Women

In these two visualization pictures, we would continue to explore and visualize data on measurements for men and women's employment situation in US labor market.

The intention of these visualizations is to look at the trends of the employment status between women and men, or limited to the availability of data, between only the women and the total population. The two measurement that would be visualized is two important aspects of employment: average working hours per week, and the percent of people getting employed (base number is the civil total population).

1. Comparison between Men and Women's Mean Working Hours

The first graph is going to look at the working hours per week of men and women among different counties, and the working hours for men and women at each county represents the mean working hours of the corresponding cohort in that county.

The data were separated into four groups, considering that the employment status and the dominant industry would be different among the four Census Regions, considering their geographic and demographic characters. Boxplot is chosen for this visualization, because it could show several basic distribution factors at the same time, the 25 percentile, median, the 75 percentile, and the outliers. Therefore, it would allow the readers to see both the general distribution status of working hours and the outliers, and could include all the county-level data. By putting men and women's county level mean working hours next to each other, it could present the gender gap directly. And the x-axis would be year, which would allow the graph to also show the changes with time.