

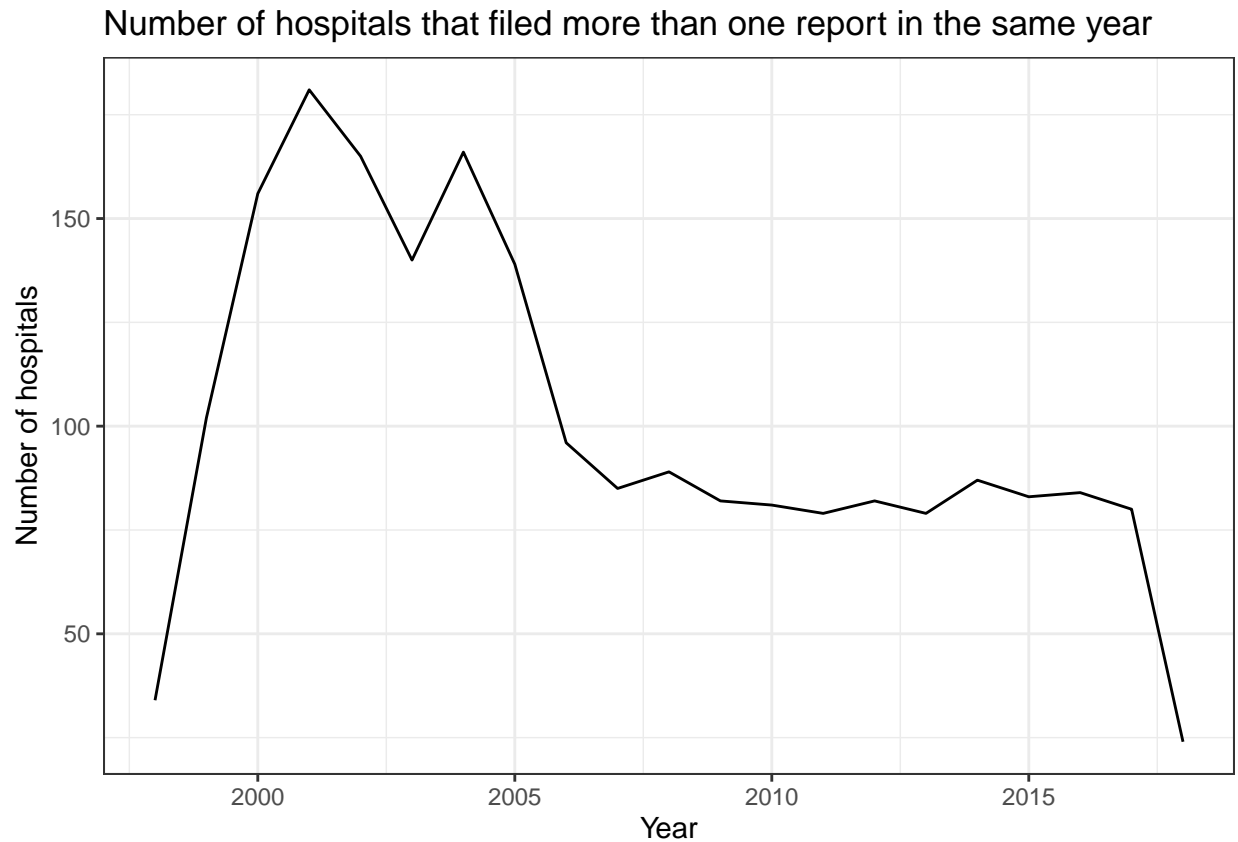
bae-j-hwk-2-2

Jennifer Bae

2023-02-10

Summarize the Data

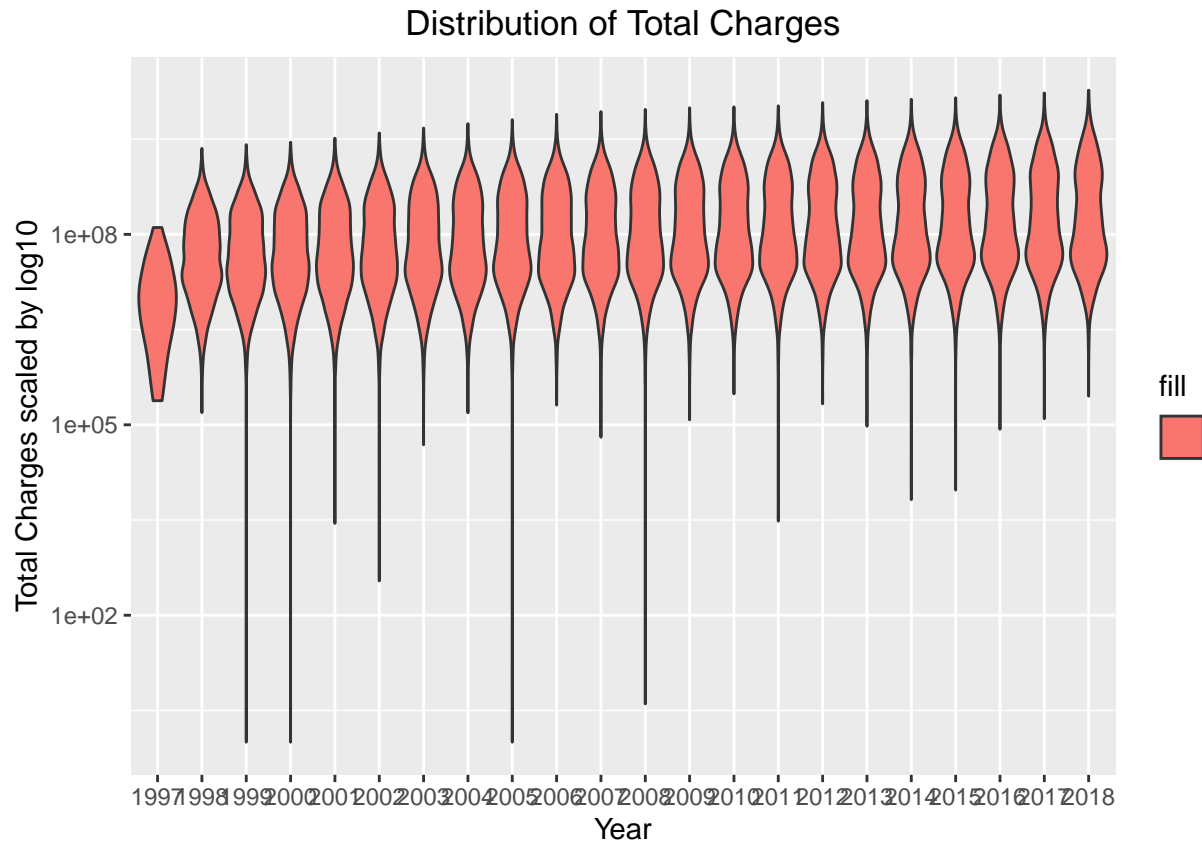
1. How many hospitals filed more than one report in the same year? Show your answer as a line graph of the number of hospitals over time.



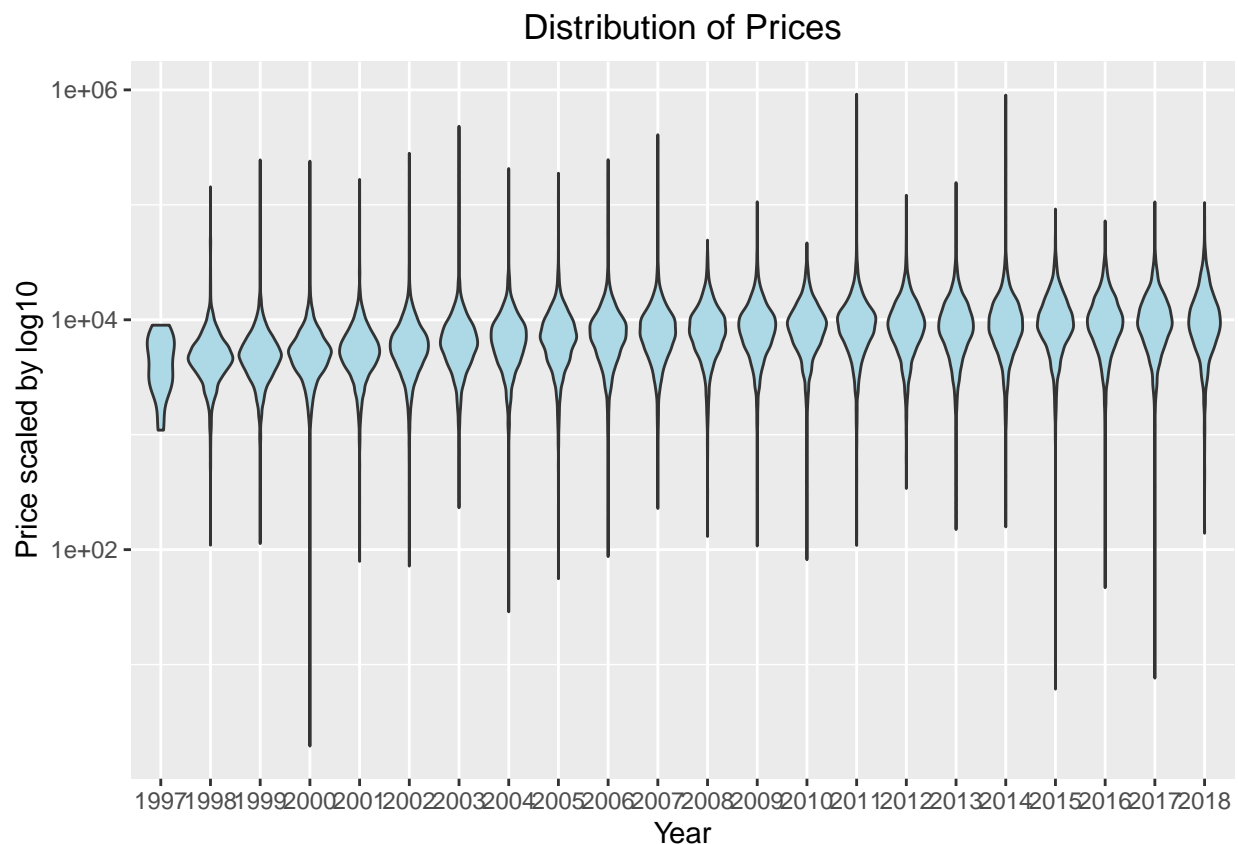
2. After removing/combining multiple reports, how many unique hospital IDs (Medicare provider numbers) exist in the data?

After removing/combining multiple reports, there are 9323 unique hospital IDs in the data.

3. What is the distribution of total charges (tot_charges in the data) in each year? Show your results with a “violin” plot, with charges on the y-axis and years on the x-axis.



4. What is the distribution of estimated prices in each year? Present your results with a violin plot, and recall our formula for estimating prices from class.



Estimate the ATEs

5. Calculate the average price among penalized versus non-penalized hospitals.

The average price for penalized hospitals = 9,896.31 The average price for non-penalized hospitals = 9,560.41

6. Split hospitals into quartiles based on bed size

'summarise()' has grouped output by 'quartile'. You can override using the
'.groups' argument.

quartile	penalty	avg_price
1	FALSE	7684.240
1	TRUE	8318.709
2	FALSE	8510.959
2	TRUE	8690.891
3	FALSE	9856.928
3	TRUE	10127.130
4	FALSE	12355.606
4	TRUE	12068.479