

# Married Occupations

*An analysis on the social implications of occupations of married couples*



Final Project  
Flatiron School Data Science Immersive  
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# Data

## U.S. Census Data ACS

- Occupations and genders

## Data I created/combined:

- Sum of occupations by gender
- Sum of unique couples by occupation
- Percentage of occupation out of total
- Salaries of females and males
- Income inequality per couple

# Goals

## EDA

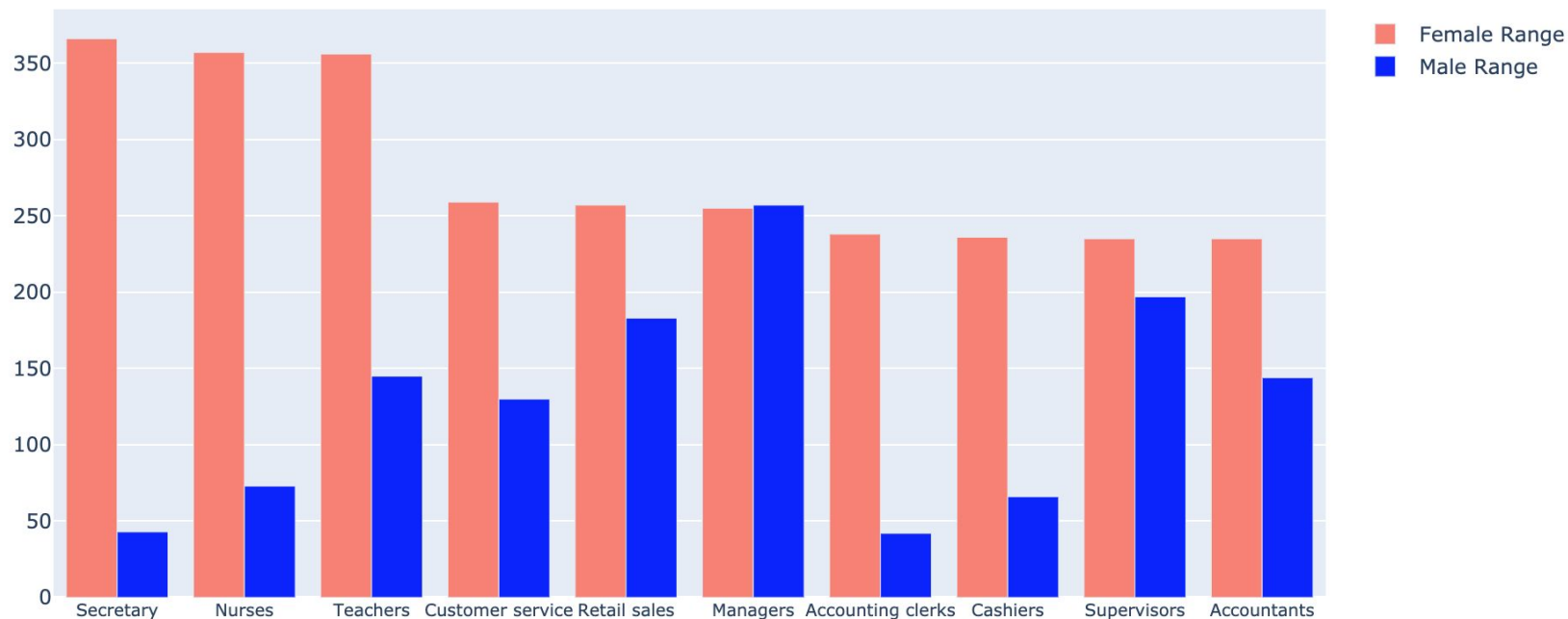
- Upward mobility
- Largest range of choices
- Trends in marital choices by gender

## Models:

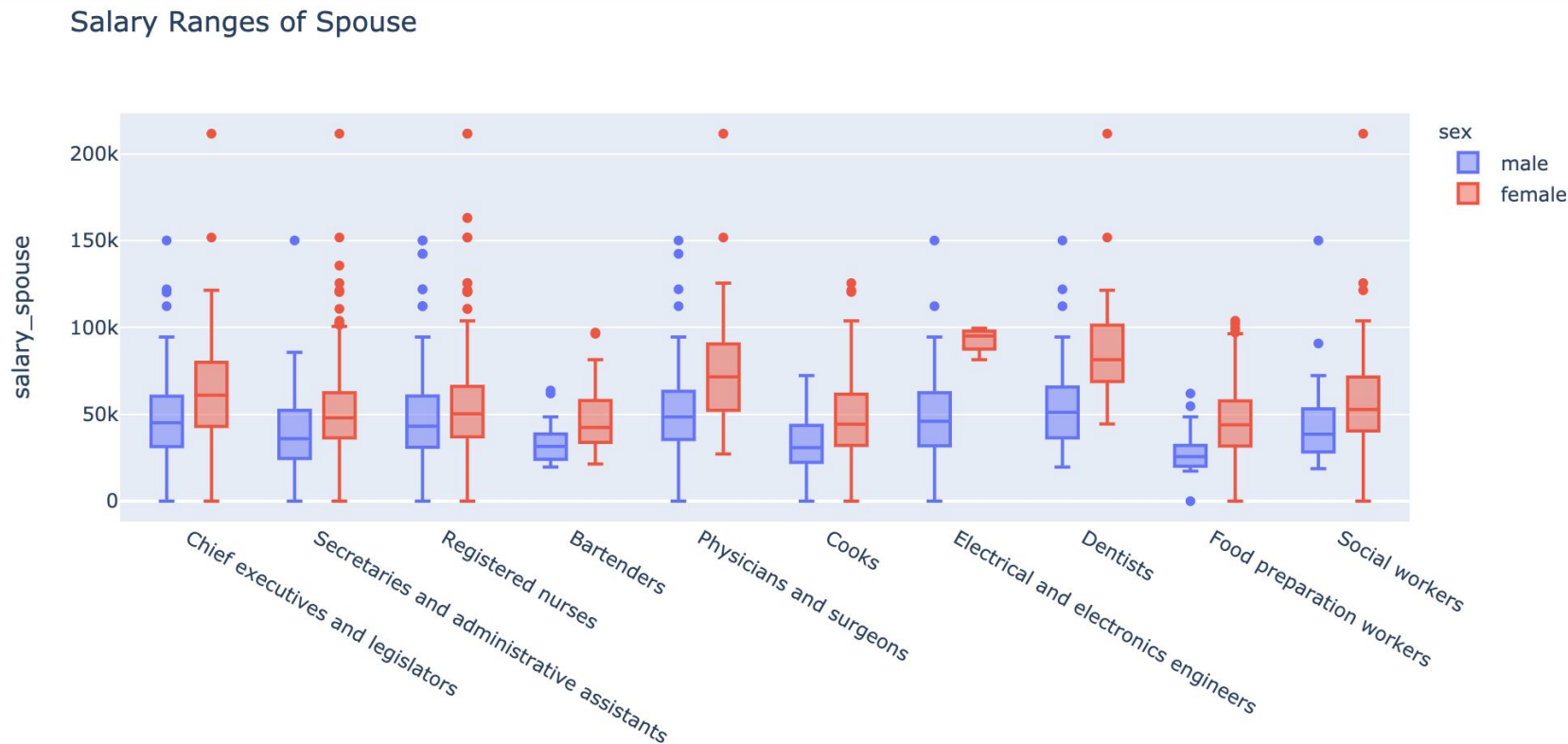
- K-Nearest Neighbors Classifier
- K Means Clustering

# Largest Range of Choices to Marry

Occupations With Most Choices

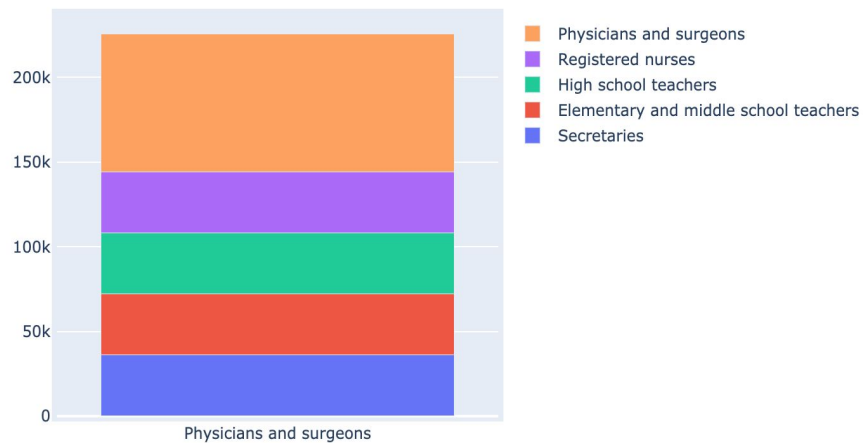


# Differences in Spousal Salary Ranges by Gender



# Upward Financial Mobility

Physicians and Surgeons

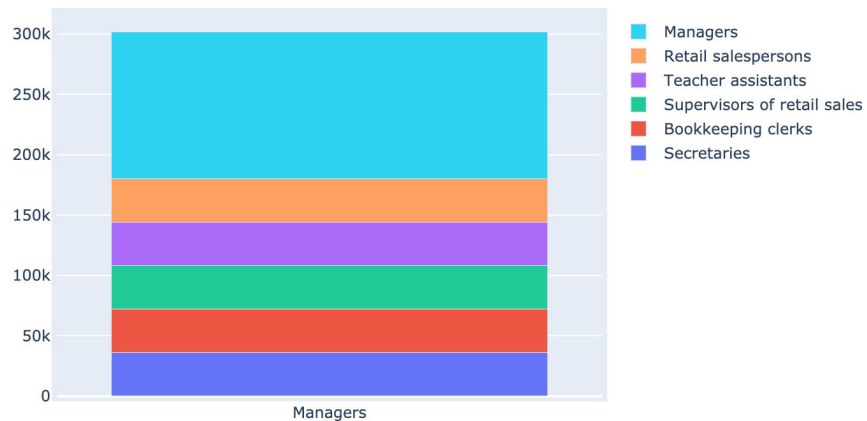


Chief executive officers and legislators

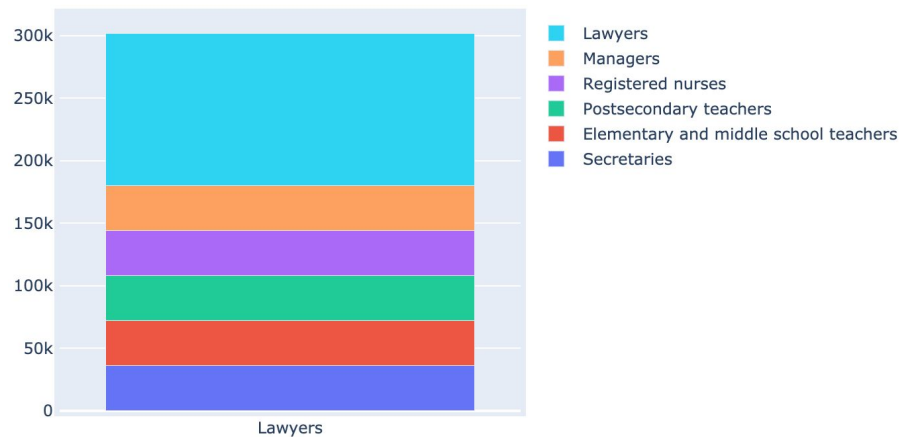


# Upward Financial Mobility

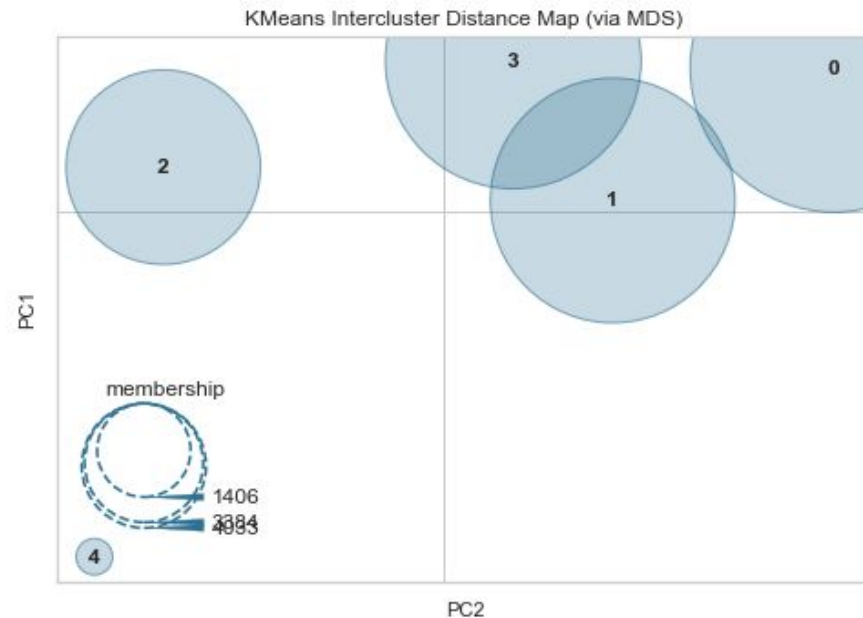
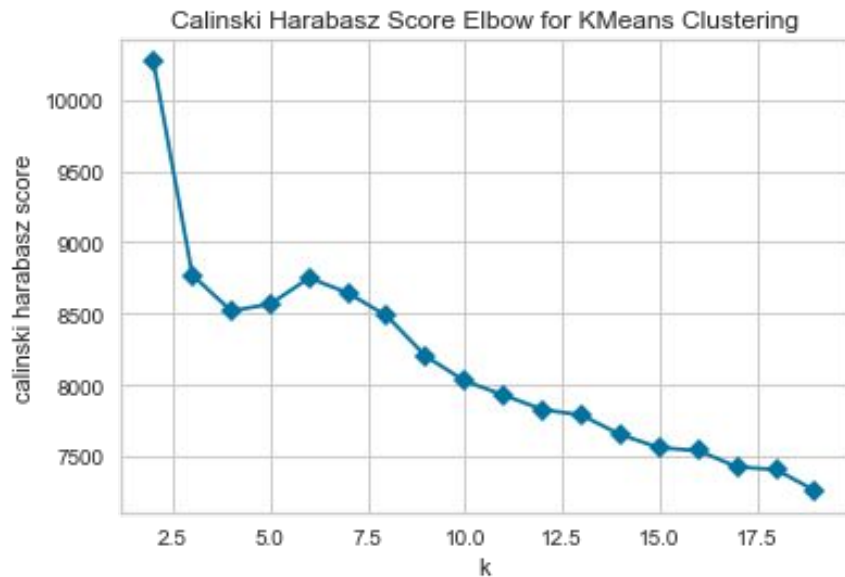
Managers



Lawyers



# K Means Clustering



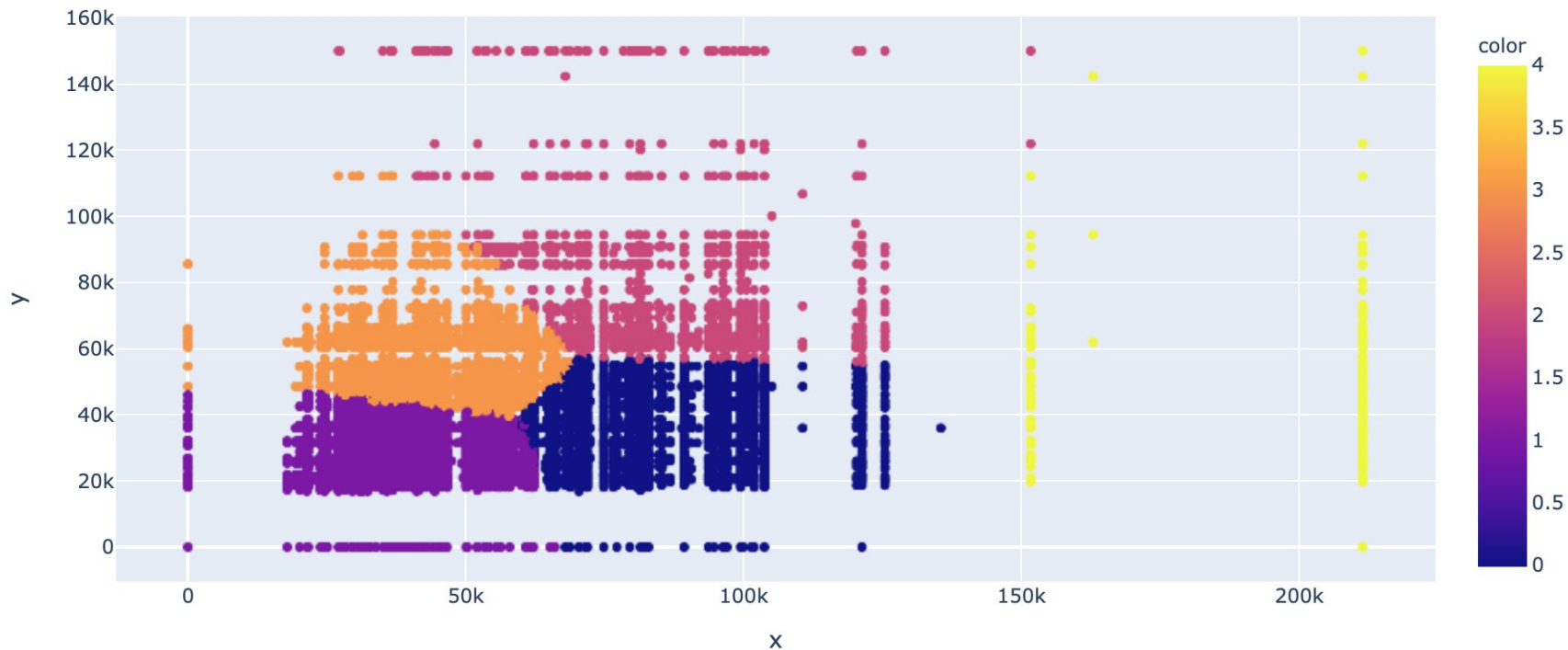
# Cluster Demographics

	Most Common Male Occupations	Most Common Female Occupations	Average Combined Salary
Group 0	Managers, CEOs, accountants	Primary school teachers, secretaries, accountants	\$123,658
Group 1	Drivers, janitors, supervisors of retail workers	Secretaries, cashiers, housekeeping cleaners	\$68,198
Group 2	Managers, lawyers, CEOs	Nurses, managers, postsecondary teachers	\$159,725
Group 3	Drivers, supervisors, primary school teachers	Primary school teachers, nurses, managers	\$103,693
Group 4	Physicians & surgeons, dentists	Pharmacists, secretaries, primary school teachers	\$256,210



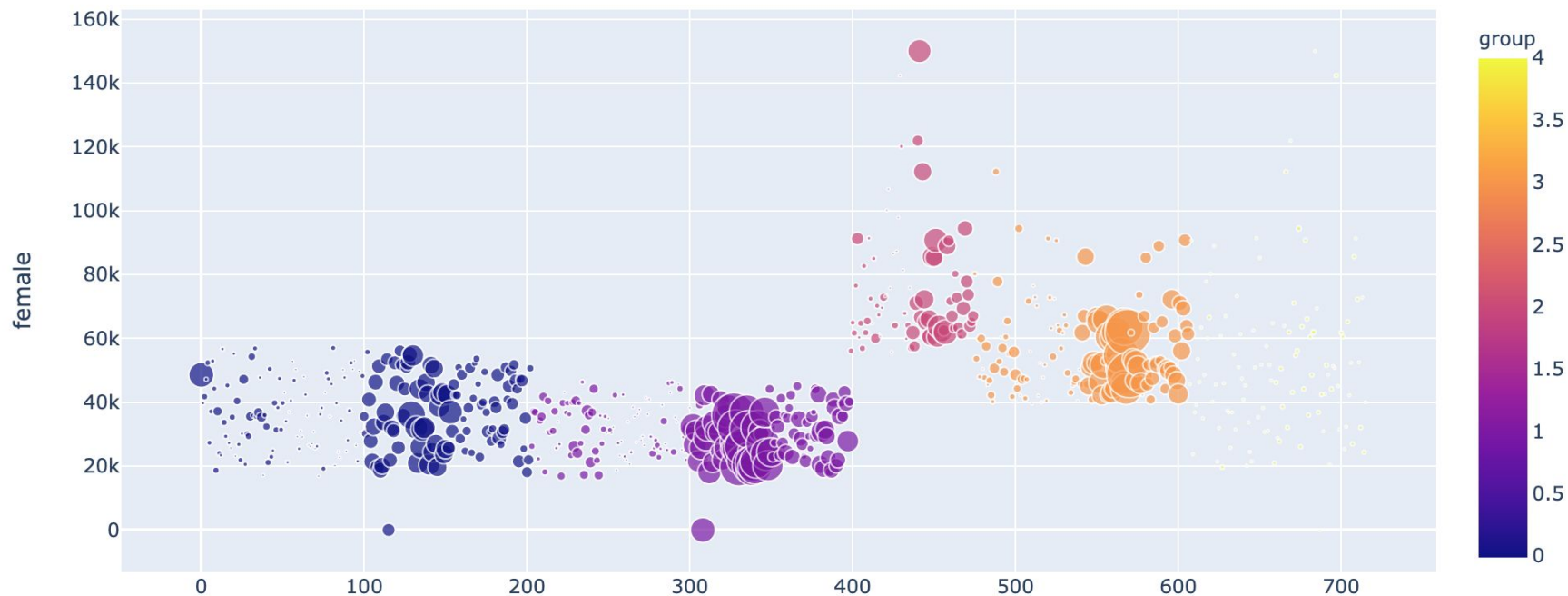
# Clusters, visualized

Male vs Female Salary Clustering



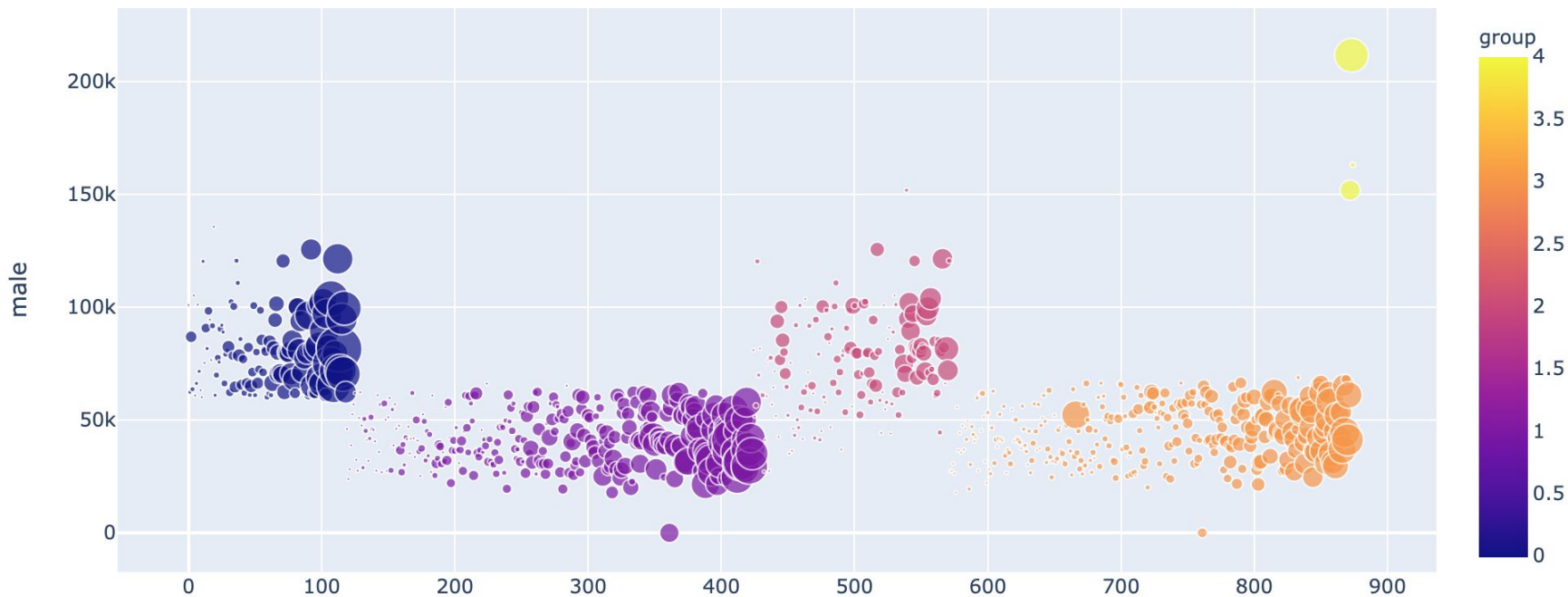
# Clusters, visualized

Female Salaries by Cluster



# Clusters, visualized

Male Salaries by Cluster



# Conclusions

- Women have better chances at marrying a higher income than men.
- Certain occupations (nurses, secretaries, schoolteachers) have better chances and opportunities of marrying “up”.
- At high incomes, women care more about marrying someone of similar salary than men.
- Similar incomes are the most important feature of married occupations.
- 3 distinct income classes among combined salary of married couples