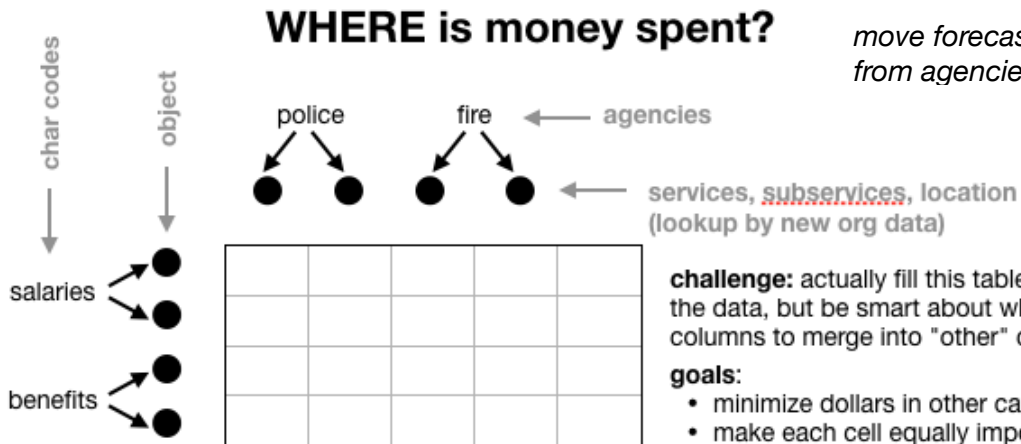


HOW is money spent?



move forecasting discussion from agencies to services

challenge: actually fill this table in with all the data, but be smart about which rows/columns to merge into "other" categories

goals:

- minimize dollars in other categories
- make each cell equally important (by splitting when possible)

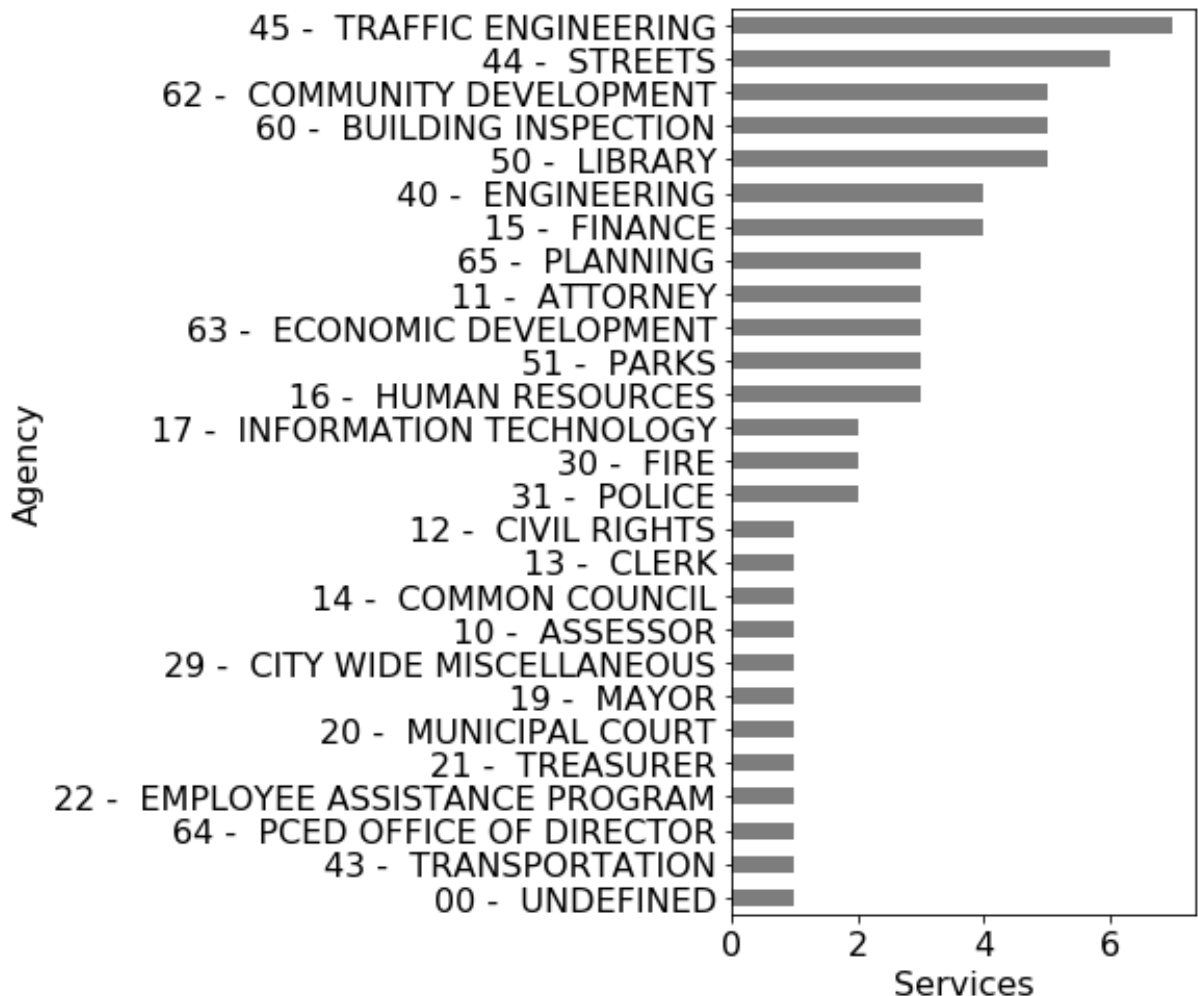
Question: HOW (char code) is money spent across all agencies?



Answer: mostly on salaries and benefits. Signup for HOW below:

	Person 1	Person 2	Person 3	Person 4
Salaries				
Benefits				
Purchased Services				
Inter-dep Charges				
Supplies				

Question 1: how many services does each agency provide?



Answer: about half provide 1. Otherwise ranges from 2 to 7.

Next week:

- choose a "HOW money is spent" area to focus on (character code/object)
- quantitatively identify most interesting services in your agencies (high \$ and high variance) to explore "WHERE money is spent"
- 8-minute presentation for Laura (+4 minutes for questions)
 - slide introducing who is on your team (name, major, agency of focus)
 - 4-5 plots (question, plot, observation, interpretation)
 - 2-3 followup questions

Pandas Merges (like database "joins"):

```
org = pd.read_csv("data/orgs.csv")
df = df.merge(org[["Organization", "Service", "Subservice"]], on="Organization")
```

be careful! make sure we don't lose rows if org is incomplete...