

Wrapping Up: the semester is over in a couple weeks! Everybody has worked hard this semester. Of course, "success" for us is not based the time we spent, but rather on what was learned about the city and who we can influence. Thus, the only thing that gives meaning to the dozens of hours you spent analyzing datasets this semester is the quality of a 10 minute talk you'll give at the end of the semester. So let's start planning that presentation now! Below is a proposed program for the talks. Please feel free to propose other arrangements as you think makes sense.

Session 1 Talks (40 minutes)

The Big Picture

- **Who:** Jake, Yuankun
- **Time:** 8+2 minutes
- **Topic:** what agencies warrant our most careful attention when thinking about future spending? Answer along three metrics: average spending, variability, upward-trends. What is the "right level" to think about each area? Which agencies should we split into services, sub-services, etc? Which should we lump together?

Let it Snow!

- **Who:** Whitney, Swaraj
- **Time:** 8+2 minutes
- **Topic:** how much does street spending increase when we have more snow? What are the types of expenses that increase? Is there a simple formula that relates costs to a few weather related variables? What does that formula predict under various possible climate-change scenarios?

Getting to Work

- **Who:** Jin Woo
- **Time:** 8+2 minutes
- **Topic:** how do people get to work? How lazy are people when it comes to biking/walking? Which neighborhoods make the most use of public transit? If we could add one bus line, what should it be?

The City is on Fire

- **Who:** Anna
- **Time:** 8+2 minutes
- **Topic:** what kinds of incidents does the fire agency deal with most often? Which take the most time? Where should fire departments be added to most reduce response time? How much should be spent on full-time employment to minimize costs (more full-time results in less premium pay)?

Session 2 Talks (45 minutes)

SalarySim: Police and Library Case Studies

- **Who:** Chris, Kyle, Sally, Xi
- **Time:** 12+3 minutes
- **Topic:** what are the relevant parameters for a salary simulator? (e.g., promotion histograms). What does analysis on police and library spending tell us about how to set those parameters? Where do we need to use "reasonable guesses", perhaps based on more general studies? What are likely ranges on spending, number of employees, etc., looking over various time horizons?

Inter-Agency Spending

- **Who:** Ellen, Langston, Zan
- **Time:** 8+2 minutes
- **Topic:** where is money coming from? Where is it going to? What agencies/ services are similar to each other with respect to spending habits? How large is the variability in inter-dep spending relative to variability of other kinds of spending (large is good)? Other questions?

Spend Planning: How are We Doing?

- **Who:** April
- **Time:** 8+2 minutes
- **Topic:** how similar are executive, proposed, adopted, and actual spending? What do each of these mean? How can we use PDF scraping to compare ourselves to other cities? Other questions?

The Future of Property Tax Revenue

- **Who:** Annie
- **Time:** 8+2 minutes
- **Topic:** where does property tax revenue come from, and how is it growing over time? How much comes from new development? From appreciation of existing properties? What is the appreciation rate on a per-neighborhood basis? Are the number of properties growing at a linear rate? Exponential rate? What kinds of houses are being built? Can we predict tax revenue going forward?

Making Conclusions: your goal is to share as many interesting conclusions as possible. An outsider who hears your talk should be able to summarize your most interesting points. You should explicitly identify those points. Boring conclusions: (1) anything referencing "char codes" or other jargon, (2) anything obvious with minimal analysis (e.g., police spending rises each year). The latter conclusion becomes interesting with more depth (e.g., "growing city spending is mostly driven by increasing police spending on training for new recruits, following a wave of retirements").