MGMT 228: Analytical Methods

Use the web to find us an example of "statistics" being used in the world to make an argument.

ANY and **ALL** examples welcome.

Justin Leinaweaver (Spring 2022)

Introductions

- Name
- Year in school

- Major
- Dream job

What is something you learned in intro statistics (MATH 227) that

has proved useful in your life?

What is something you learned in intro statistics (MATH 227)?

Optional: ...that has proved useful in your life?



Learning Outcomes

By the end of the semester you will be able to:

- Collect and critically evaluate data from a variety of sources (e.g. government sources, surveys, etc.)
- Use basic data analytics tools to support decision-making (e.g. univariate, bivariate and multivariate approaches including regression), and
- Apply a set of more advanced tools that expand the utility of these models (e.g. forecasting, seasonality, nonlinearity, constrained dependent variables, etc.).

Backup your files to the cloud!







Grade

Participation	25%
Visualizations Report	15%
Simple OLS Report	20%
Multiple OLS Report	20%
Final Report	20%

Participation

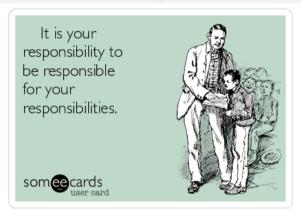
• Get to class on time,

Have the materials you need to be productive,

Do the work in class, and

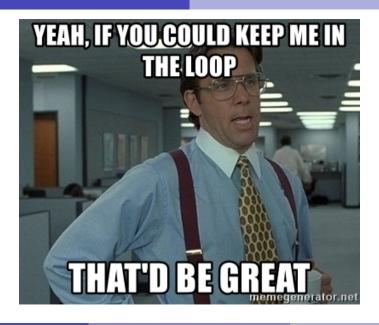
Save your work.

Excused absence coming up?



It is your responsibility to notify me and to complete a make-up assignment.

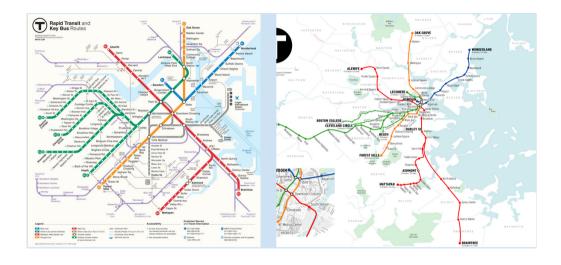


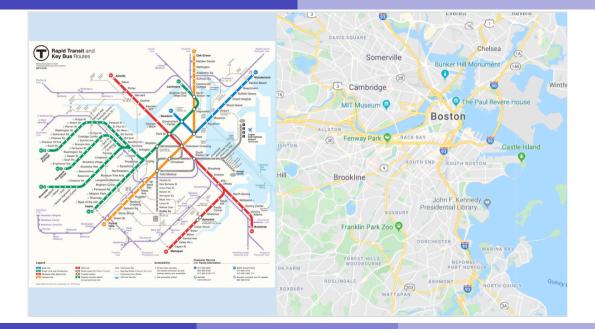


What is a model?

The Boston "T"









Maps are:

- Neither true nor false
- Limited in their accuracy
- Partial representations
- Useful for only some uses
- A reflection of the interests of the designer



Scientific models are:

- Neither true nor false
- Limited in their accuracy
- Partial representations
- Useful for only some uses
- A reflection of the interests of the designer

Our Plan This Semester

Build models to answer questions with data

- What drives economic investment in US states?
- Why do some countries attract greater levels of international investment than others?
- What explains why some individuals make more money than others?

For Thursday

Come to class ready to make an argument (supported by at least one piece of high quality evidence)

If you were starting a new business in the US **what** would it be, **where** specifically would you do it and what **criteria** did you use to decide?