# DATAVISUALIZATION

I. INTRO TO DATABASES

II. USING SQL IN DATABASES

**QUESTIONS?** 

#### **AGENDA**

I. INTRO TO DATA VISUALIZATION
II. APPLYING DATA VISUALIZATION TO DIFFERENT
MODELS
III. DATA VISUALIZATION IN PYTHON

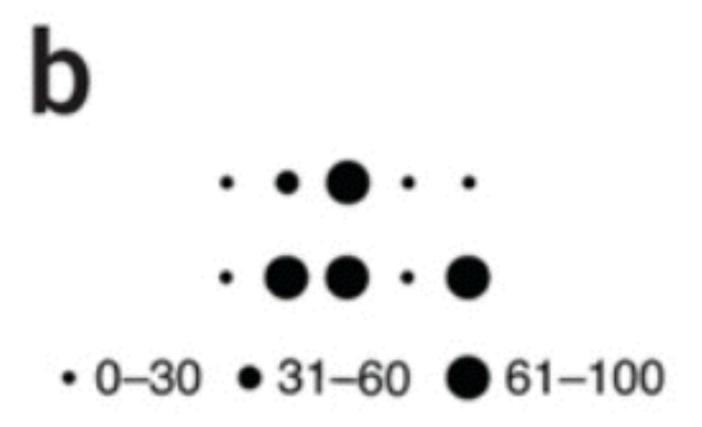
LAB:

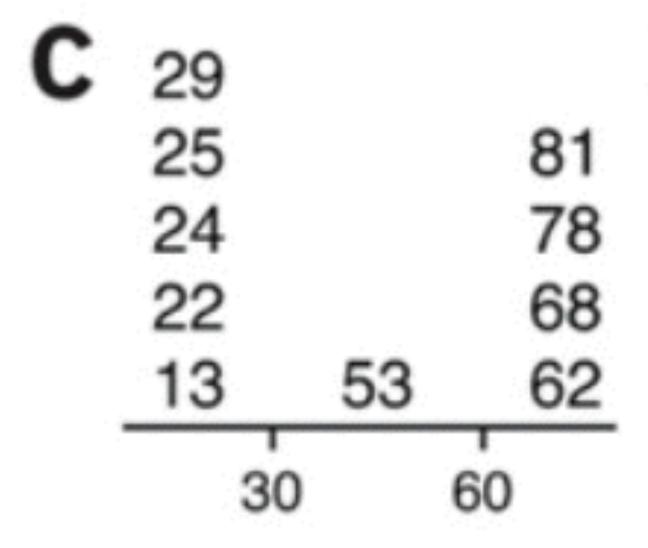
IV. USING DATA VISUALIZATION IN PYTHON V. DATA MANIPULATION AND ORGANIZATION

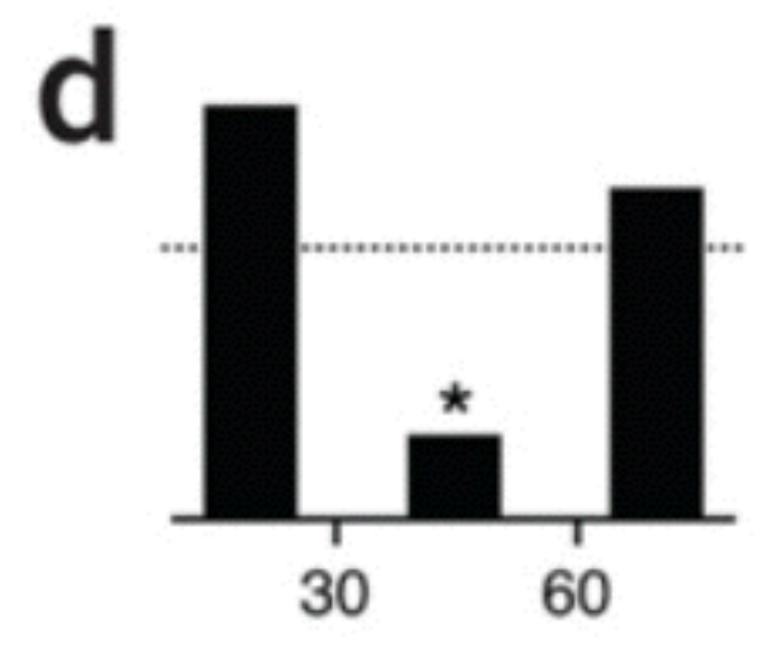
а

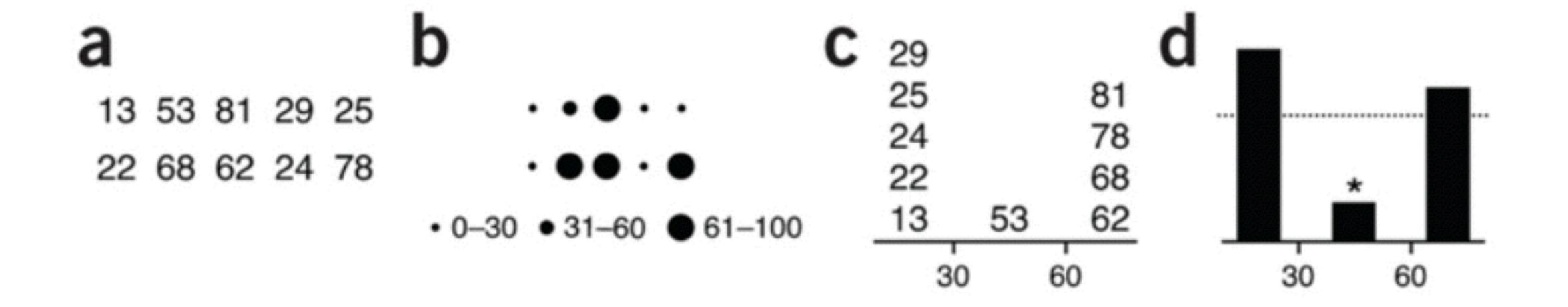
13 53 81 29 25

22 68 62 24 78









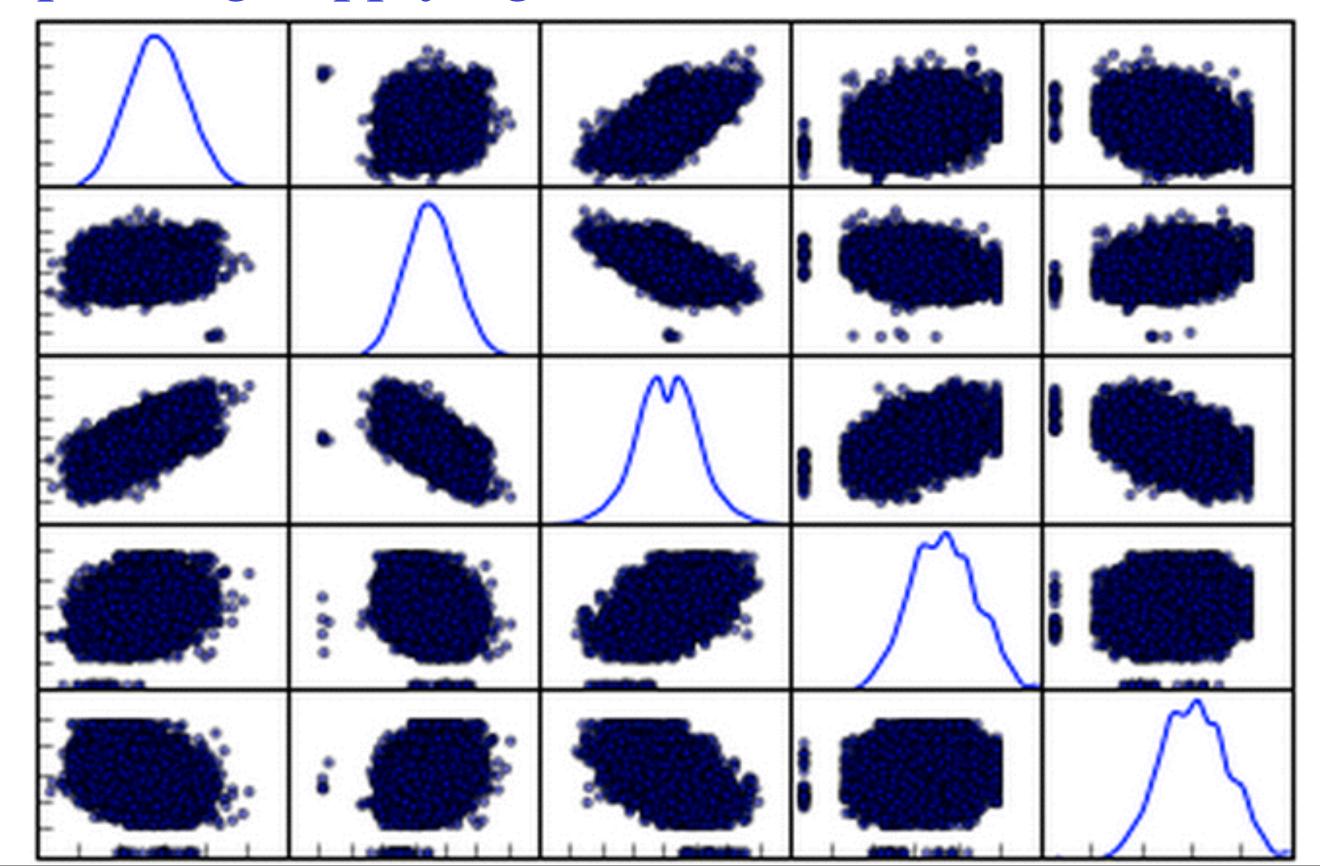
What are the uses of Data Visualization?

What are the uses of Data Visualization?

- Exploring, Explaining, Applying

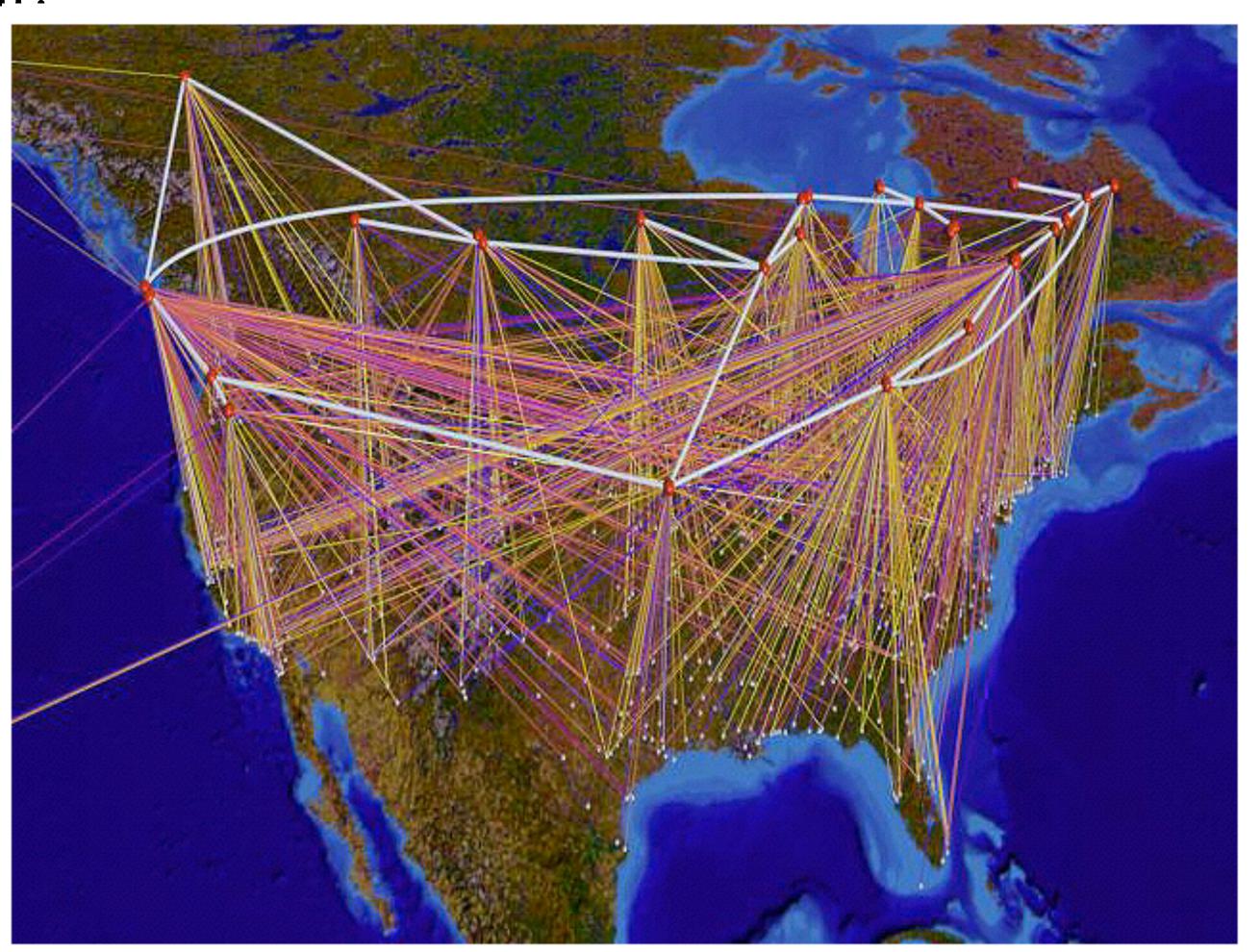
What are the uses of Data Visualization?

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What are the uses of Data Visualization?

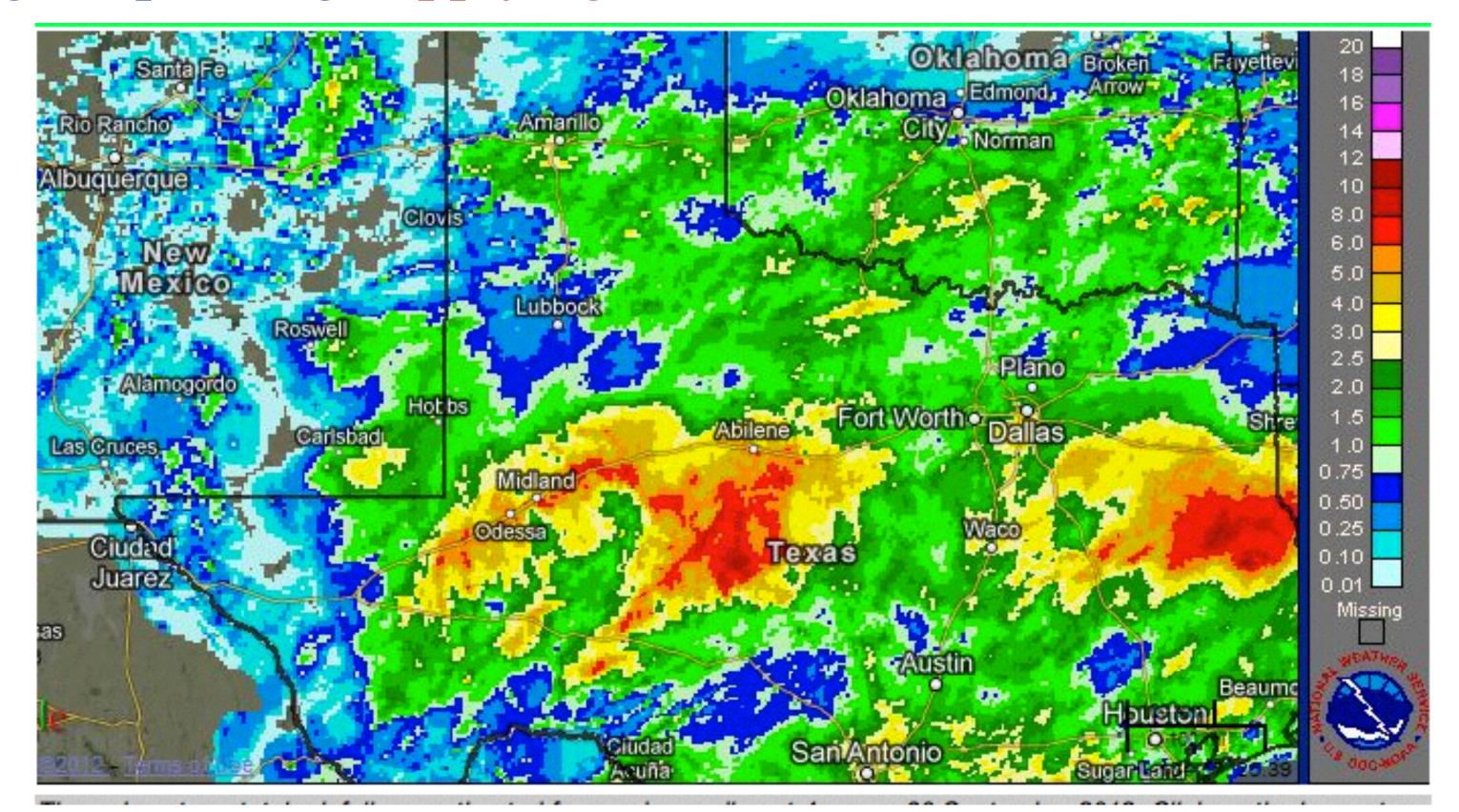
- Exploring, Explaining, Applying



Source: http://warcloud.net/whatis.html

What are the uses of Data Visualization?

- Exploring, Explaining, Applying

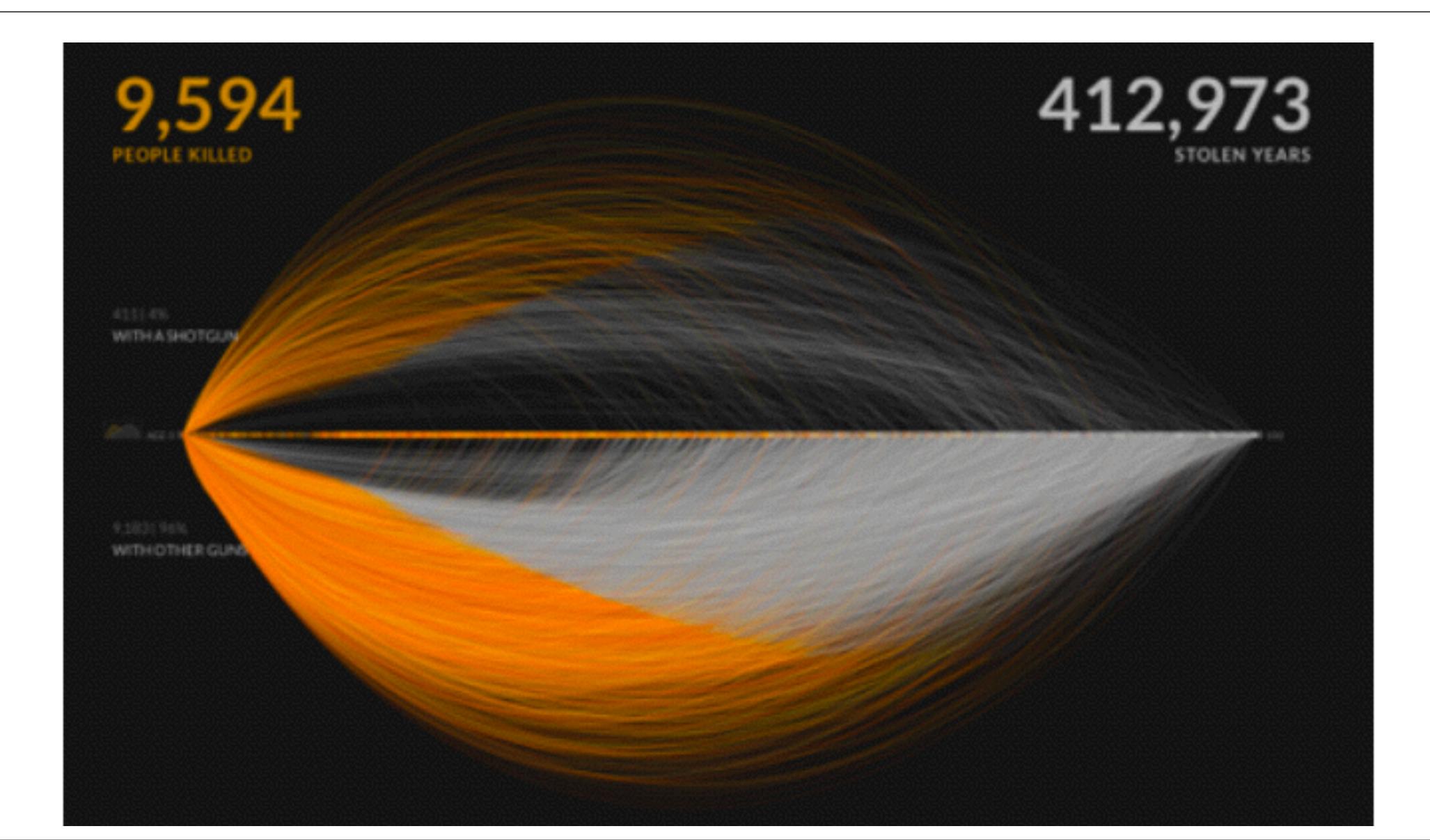


## DISCUSSION

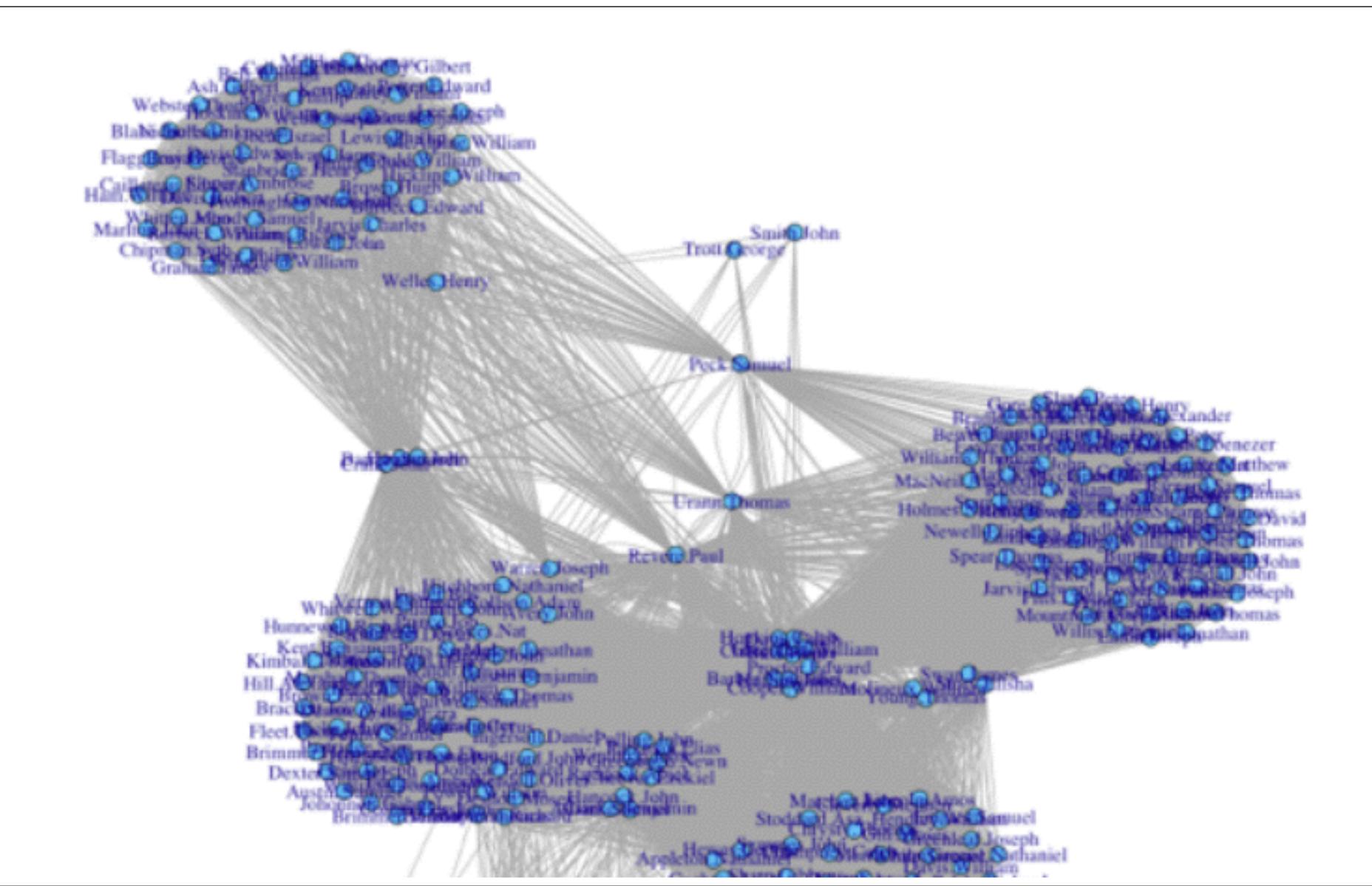
Break into groups of 4 and discuss project ideas:

# II. APPLYING DATA VISUALIZATION TO DIFFERENT MODELS

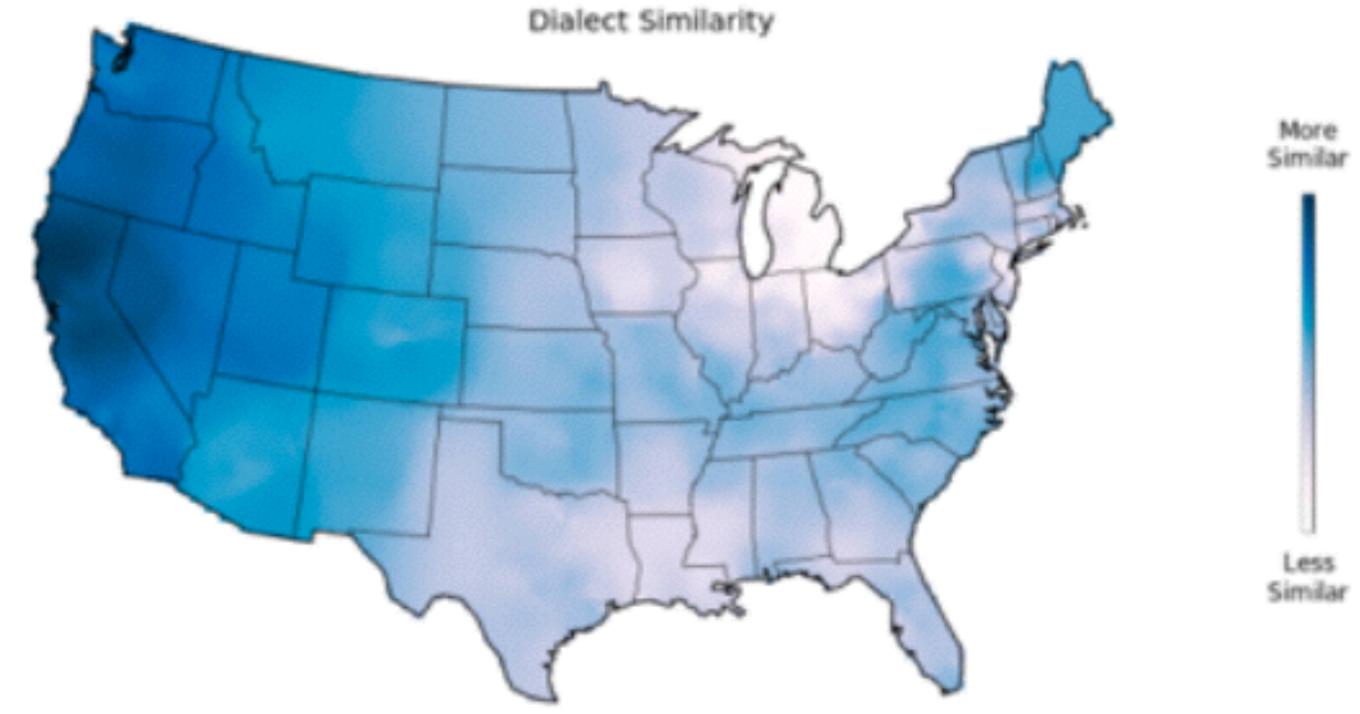
Continuous	Categorical
regression	classification
dimension reduction	clustering
	regression



	Continuous	Categorical
Supervised	regression	classification
Unsupervised	dimension reduction	clustering



	Continuous	Categorical
Supervised	regression	classification
Unsupervised	dimension reduction	clustering

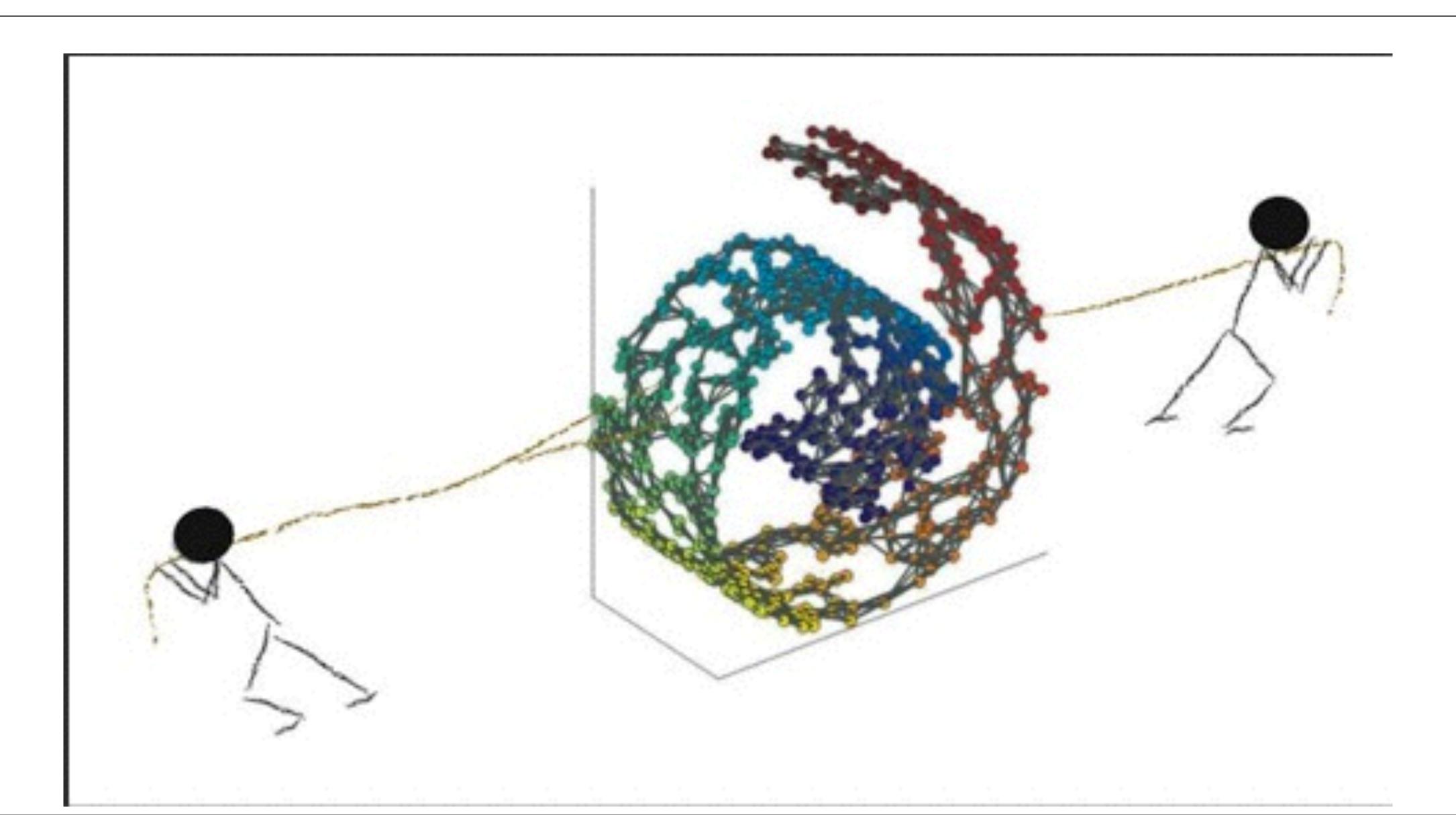


Joshua Katz, Dept of Statistics, NC State University http://spark.rstudio.com/jkatz/DialectQuiz/

<b>Most Similar Cities</b>		
1	Santa Rosa CA	59.5
2	Vallejo CA	59.2
3	Fremont CA	58.9
4	San Francisco CA	58.8
5	Modesto CA	58.0

	Least Similar Cities	
1	Detroit MI	33.7
2	Warren MI	34.1
3	Toledo OH	35.0
4	Flint MI	35.1
5	Lansing MI	35.1

	Continuous	Categorical
Supervised	regression	classification
Unsupervised	dimension reduction	clustering



	Continuous	Categorical
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### 

- How might you apply Data Visualization to the project ideas your group came up with?