Opportunity Distance or Cleveland's Working Sister City

Motivation

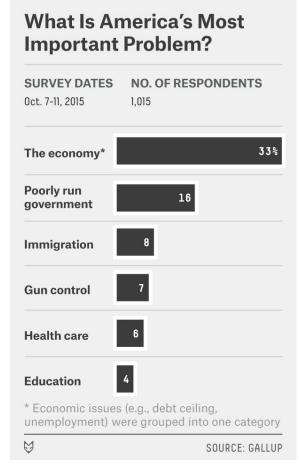
- Jobs influence people's decisions
- Government programs lack coordination
- Similar cities can work together to enact evidence-based policy changes

Resources

- 15 million job postings from Indeed.com
- 23 variables

Process

- Cleaned the data
- Aggregated city-level summaries
- Developed adaptable distance measure





$$D_{\text{opp}}(\mathbf{a}, \mathbf{b}) = \alpha_1 |a_1 - b_1| + \alpha_2 |a_2 - b_2| + \dots + \alpha_n |a_n - b_n|$$

Normalized dimensions:

- meanSalary
- stdSalary
- jobCount
- companyCount
- meanRate (employer rating)
- lowExp (< 1 year experience)
- edRatio (higher ed required)
- Sector ratios:
 - Labor
 - Service
 - STEM
 - · Public
 - Business
 - Medicine

Cleveland's Siblings:

city	stateProvince +	jobCount [‡]	companyCount [‡]	edRatio [‡]	oppDist
Cleveland	ОН	1077	678	0.5892857	0.0000000
Milwaukee	WI	1071	666	0.5949153	0.1009129
Sacramento	CA	1104	720	0.5708885	0.2139031
Detroit	MI	906	594	0.6443966	0.2815706
Salt Lake City	UT	1191	757	0.5553772	0.2867492

Distant Relatives:

Fort Bragg	NC	131	40	0.3700000	2.025067
Yuma Proving Ground	AZ	149	1	0.1946309	2.092504
Annapolis Junction	MD	139	74	0.8834951	2.228653
Chicago	IL	4666	2631	0.7604977	2.269040
New York	NY	7485	3870	0.8489703	3.778545

