Gov 50: 1. Introduction

Matthew Blackwell

Harvard University

Fall 2018

- 1. Welcome and Motivation
- 2. Course Details

1/ Welcome and Motivation

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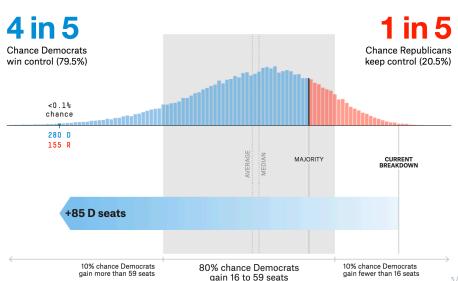
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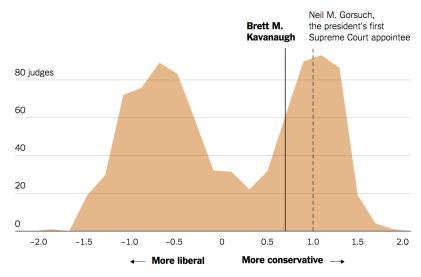
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- This class will give you a hands-on introduction to the tools and techniques of QSS.

Forecasting the race for the House

Updated Sep. 4, 2018, at 10:51 AM



How Kavanaugh's Ideology Compares With Other Federal Judges

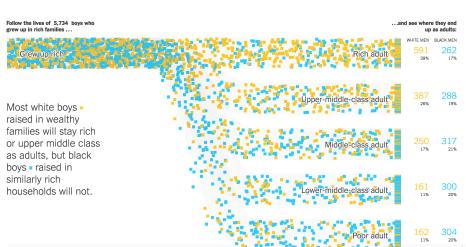


Based on the campaign finance scores of all current and former federal district and court of appeals judges nominated since 1980. | Source: Database on Ideology, Money in Politics, and Elections; Adam Bonica, Stanford University Department of Political Science; Maya Sen, Harvard University, Kennedy School of Government; Adam Chilton and Kyle Rozema, University of Chicago Law School.



Extensive Data Shows Punishing Reach of Racism for Black Boys

By EMILY BADGER, CLAIRE CAIN MILLER, ADAM PEARCE and KEVIN QUEALY MARCH 19, 2018





HOME > CITYSCORE

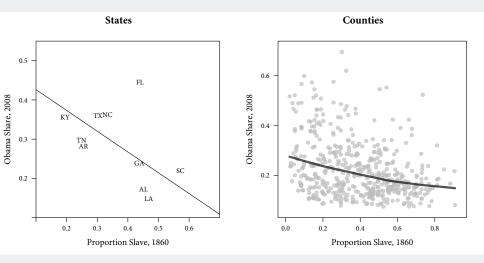
Last updated: 8/30/2017

CITYSCORE

CityScore is an initiative designed to inform the Mayor and city managers about the overall health of the City at a moment's notice by aggregating key performance metrics into one number. Here we will provide you with an overview of the CityScore tool and data, but more importantly we will show you how we are using CityScore to make improvements across the City.

THE SCORE

TOPIC	DAY	WEEK	MONTH	QTR
BII CALL CENTER PERFORMANCE	0.81	0.83	0.84	0.85
GRAFFITI ON-TIME %	0.63	0.67	0.72	0.73
MISSED TRASH ON-TIME %	1.21	1.2	1.15	1.18
PARKS MAINTENANCE ON-TIME %	1.16	1.08	1.04	1.01
POTHOLE ON-TIME %	0.73	0.55	0.83	0.94
SIGN INSTALLATION ON-TIME %	0.2	0.63	0.72	0.89
SIGNAL REPAIR ON-TIME %	1.08	1.18	1.14	1.16
STREETLIGHT ON-TIME %	0.8	0.82	0.78	0.82
FREE MAINTENANCE ON-TIME %	1.25	1.24	1.23	1.22
ON-TIME PERMIT REVIEWS	1.17	1.02	0.92	0.86
LIBRARY USERS	1.24	1.11	1.1	1.08
BPS ATTENDANCE				0.97
BFD RESPONSE TIME	0.97	0.9	0.88	0.9
BFD INCIDENTS	1.12	1.06	1.04	1.11
EMS RESPONSE TIME	1.02	0.96	0.95	0.95
EMS INCIDENTS	1.27	1.14	1.08	1.09
PART I CRIMES	1.59	1.36	1.29	1.32
HOMICIDES (TREND)			2.55	2.52
SHOOTINGS (TREND)	1.31	6.13	3.4	2.17
STABBINGS (TREND)		1.65	1.8	2.09
BII CONSTITUENT EXPERIENCE SURVEYS		1.06	1.1	1.05
CITY SERVICES SATISFACTION SURVEYS	0.75	0.92	0.95	0.89
TOTALS	1.02	1.28	1.22	1.17



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- Gov 50 is the most accessible and fun way to get teched up in statistics/data science at Harvard.

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- NOT JUST A MATH CLASS!

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- · You can answer others' questions and earn participation credit.

Perusall interface



- Describe how a lightning rod works.
- Explain how a metal car may protect passengers inside from the dangerous electric fields caused by a downed line touching the car.
 18.8. Applications of Electrostatics
- Name several real-world applications of the study of electrostatics.

Introduction to Electric Charge and Electric Field

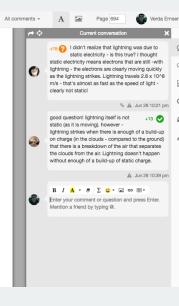
The image of American poticion and scientist Benjamin Frankin (1706–1790) flying a kine in a flunderstorm is familiar to every schoolchid, (See Figure 11.2.2) in the segmenter, Frankind encontrasted a connection between lightning and skilled electricity. Sparks were drawn from a key flung on a kine string during an electrical storm. These sparks were like in those produced by statist electricity, such as the seglect that jumps to long to light a light electrical storm. These sparks were like in those produced by statist electricity, such as the advanced and accordance of the second storm of an electrical storm, the other are effect of more human proportions. Connections like this one reveal the underlying unity of the laws of nature, an aspect we humans from principality appealing.



Figure 18.2 When Benjamin Franklin demonstrated that lightning was related to static electricity, he made a connection that is now part of the evidence that all directly experienced forces except the gravitational force are manifestations of the electromagnetic force.

Much has been written about Franklin. His experiments were only part of the life of a man who was a scientist, inventor, revolutionary, statesman, and writer. Franklin's experiments were not performed in isolation, nor were they the only ones to reveal connections.

For example, the Italian scientist Luigi Galvarii (1737–1788) performed a series of experiments in which static electricity was used to stimulate contractions of leg muscles of dead trops, an effect already known in humans subjected to static discharges. But Galvaria allo outflow dhat if he jined the metal vietes (say opper and zinc) end to end and suchcet the other ends to muscles, he produced the same effect in longs as static discharge. Alessandro Volta (1745–1827), partly inspired by Galvani's work, experimented with vindusco contributions or metals and diveloped the battery.



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- · Lots of help in section, study halls, office hours.

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- → HW won't be the first time you're trying some code!

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- Final grade is curved (separately for College, Extension School)

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